



WHAT HAPPENED TO NALC?

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What you were provided

- Web root was encrypted and a phone call reported it was cryptolockered
- You are provided by the initial response team the web root and the web logs
- All times given in UTC.

Attack timeline



- 10/27 – sent mail
- 10/29 17:38 – Bob opened mail
- The mail contained an Excel spreadsheet with a macro that downloaded a secondary payload and opened a backdoor running on an outbound https tunnel to store.cloudxlarge.com.
- At the time the project started this spreadsheet would bypass fully updated Windows Defender on Windows 10. It could not escalate to System on Windows 10, but that ended up not mattering because I didn't need System, and Bob's workstation was 2003.
- This tunnel was encrypted with a Let's Encrypt cert, which makes it harder to find.

Post Exploitation



- 17:39 – Got System level access, dumped hashes from memory and installed a keylogger
- 17:40 – set Registry key to restart payload when Bob logs in
- 17:43 – ran port scan of entire environment
- 18:11 – Bob logs in to web server

Lateral movement



- 18:22 -- used Bob's password from web site to ssh to web server, which succeeds
- 18:23 -- used sudo for the first time, which also succeeds
- 18:35 - installed a backdoor on webserver



SAMPLE INVESTIGATION

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What is our first time for a search?

```
tulkas:277% TZ=UTC ls -l var/www/html
total 352
-rw----- 1 chris staff 418 Oct 29 19:32 index.php
-rw----- 1 chris staff 19935 Oct 29 19:32 license.txt
-rw----- 1 chris staff 7413 Oct 29 19:32 readme.html
-rw----- 1 chris staff 724 Oct 29 19:32 upload.php
drwx----- 3 chris staff 102 Oct 29 19:20 uploads
-rw----- 1 chris staff 5447 Oct 29 19:32 wp-activate.php
drwx----- 89 chris staff 3026 Sep 19 21:21 wp-admin
-rw----- 1 chris staff 364 Oct 29 19:32 wp-blog-header.php
-rw----- 1 chris staff 1627 Oct 29 19:32 wp-comments-post.php
-rw----- 1 chris staff 2853 Oct 29 19:32 wp-config-sample.php
```

File encryption was performed at 19:32 UTC.

What timezone is the system?

```
[tulkas:285% TZ=UTC ls -l var/log/syslog
-rw----- 1 chris staff 10082 Oct 30 12:09 var/log/syslog
[tulkas:286% tail -1 var/log/syslog
Oct 30 12:09:01 ip-10-0-0-14 CRON[10967]: (root) CMD ( [ -x /u
tulkas:287%
```

System logs are UTC. You could also have gotten this from /etc/timezone if you got a dump of the filesystem, or asked the sysadmins

What else happened around 19:32?

```
Oct 29 18:42:46 ip-10-0-0-14 sshd[7223]: Accepted password for bob from 10.0.3.15 port 4465 ssh2
Oct 29 18:42:46 ip-10-0-0-14 sshd[7223]: pam_unix(sshd:session): session opened for user bob by (uid=0)
Oct 29 18:42:46 ip-10-0-0-14 systemd-logind[1362]: New session 88 of user bob.
Oct 29 18:42:50 ip-10-0-0-14 sshd[7223]: pam_unix(sshd:session): session closed for user bob
Oct 29 18:42:50 ip-10-0-0-14 systemd-logind[1362]: Removed session 88.
Oct 29 18:44:48 ip-10-0-0-14 sshd[7264]: Accepted password for bob from 10.0.3.15 port 4560 ssh2
Oct 29 18:44:48 ip-10-0-0-14 sshd[7264]: pam_unix(sshd:session): session opened for user bob by (uid=0)
Oct 29 18:44:48 ip-10-0-0-14 systemd-logind[1362]: New session 89 of user bob.
Oct 29 18:44:52 ip-10-0-0-14 sshd[7264]: pam_unix(sshd:session): session closed for user bob
Oct 29 18:44:52 ip-10-0-0-14 systemd-logind[1362]: Removed session 89.
Oct 29 19:08:26 ip-10-0-0-14 sshd[7340]: Accepted password for bob from 10.0.3.15 port 4863 ssh2
Oct 29 19:08:26 ip-10-0-0-14 sshd[7340]: pam_unix(sshd:session): session opened for user bob by (uid=0)
Oct 29 19:08:26 ip-10-0-0-14 systemd-logind[1362]: New session 90 of user bob.
Oct 29 19:08:31 ip-10-0-0-14 sudo: bob : unable to resolve host ip-10-0-0-14
Oct 29 19:09:01 ip-10-0-0-14 CRON[7377]: pam_unix(cron:session): session opened for user root by (uid=0)
Oct 29 19:09:01 ip-10-0-0-14 CRON[7377]: pam_unix(cron:session): session closed for user root
Oct 29 19:09:23 ip-10-0-0-14 sudo: bob : TTY=pts/3 ; PWD=/ ; USER=root ; COMMAND=/bin/bash
Oct 29 19:09:23 ip-10-0-0-14 sudo: pam_unix(sudo:session): session opened for user root by bob(uid=0)
Oct 29 19:17:01 ip-10-0-0-14 CRON[7431]: pam_unix(cron:session): session opened for user root by (uid=0)
Oct 29 19:17:01 ip-10-0-0-14 CRON[7431]: pam_unix(cron:session): session closed for user root
Oct 29 19:19:46 ip-10-0-0-14 sudo: ubuntu : unable to resolve host ip-10-0-0-14
Oct 29 19:19:46 ip-10-0-0-14 sudo: ubuntu : TTY=pts/0 ; PWD=/home/ubuntu ; USER=root ; COMMAND=/usr/sbin/ufw status \
Oct 29 19:19:46 ip-10-0-0-14 sudo: pam_unix(sudo:session): session opened for user root by ubuntu(uid=0)
Oct 29 19:19:46 ip-10-0-0-14 sudo: pam_unix(sudo:session): session closed for user root
Oct 29 19:33:32 ip-10-0-0-14 sudo: pam_unix(sudo:session): session closed for user root
Oct 29 19:34:53 ip-10-0-0-14 sshd[7340]: pam_unix(sshd:session): session closed for user bob
Oct 29 19:39:01 ip-10-0-0-14 CRON[8064]: pam_unix(cron:session): session opened for user root by (uid=0)
Oct 29 19:39:01 ip-10-0-0-14 CRON[8064]: pam_unix(cron:session): session closed for user root
Oct 29 19:44:59 ip-10-0-0-14 sshd[6857]: pam_unix(sshd:session): session closed for user bob
Oct 29 19:44:59 ip-10-0-0-14 sudo: pam_unix(sudo:session): session closed for user root
```



This timestamp is 2017/10/29 at 17:37:55

From ubuntu@cloudxlarge.com Fri Oct 27 01:14:31 2017
Return-Path: <ubuntu@cloudxlarge.com>
X-Original-To: bob@northamericanlumbercoalition.com
Delivered-To: bob@northamericanlumbercoalition.com
Received: from ip-10-0-80-181.ec2.internal (ec2-52-1-52-89.compute-1.amazonaws.com [52.1.52.89])
by mail.northamericanlumbercoalition.com (Postfix) with ESMTP id EA3C161258
for <bob@northamericanlumbercoalition.com>; Fri, 27 Oct 2017 01:14:30 +0000 (UTC)
Received: by ip-10-0-80-181.ec2.internal (Postfix, from userid 1000)
id 58AC8465D9; Thu, 26 Oct 2017 16:17:55 +0000 (UTC)
Content-Type: multipart/mixed; boundary="1535362749-1509034109=:26173"
MIME-Version: 1.0
To: "Joe Chandler" <joe@northamericanlumbercoalition.com>
Subject: Proposed salary structure
X-Mailer: mail (GNU Mailutils 2.99.99)
Message-Id: <20171026160829.5F311465D4@northamericanlumbercoalition.com>
Date: Thu, 26 Oct 2017 16:08:29 +0000 (UTC)
From: "Annie Smith" <annie@northamericanlumbercoalition.com>
X-UID: 8
Content-Length: 47478
Status: R0
X-Status: A

--1535362749-1509034109=:26173
Content-ID: <20171026160829.26173@ip-10-0-80-181.ec2.internal>
Content-Type: text/plain

Please see the attached proposal.

--1535362749-1509034109=:26173
Content-ID: <20171026160829.26173.1@ip-10-0-80-181.ec2.internal>
Content-Type: application/octet-stream; name=NALC-salaries.xls
Content-Transfer-Encoding: base64
Content-Disposition: attachment; filename=NALC-salaries.xls

0M8R4KGxGuAAAAAAAAAAAAAAAPnADAP7/COAGAAAAAAAAAAAARAAAAAQAIAAAA





33 engines detected this file



SHA-256 a8e51422afb18777d892ce0fceb15bc08df6f6e265b66b5ccab8021e53fafb97
File name localfile~
File size 43.5 KB
Last analysis 2017-11-13 16:40:51 UTC

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Detection	Details	Relations	Community
Ad-Aware	⚠️ VBDownloader.1.Gen	AegisLab	⚠️ Troj.Script.Agent!c
ALYac	⚠️ VBDownloader.1.Gen	Antiy-AVL	⚠️ Trojan/Script.Agent.gen
Arcabit	⚠️ HEUR.VBA.Trojan.e	Avast	⚠️ VBA:Downloader-BUB [Trj]
AVG	⚠️ VBA:Downloader-BUB [Trj]	Avira	⚠️ HEUR/Macro.Agent
AVware	⚠️ LooksLike.Macro.Malware.c (v)	BitDefender	⚠️ VBDownloader.1.Gen
ClamAV	⚠️ Doc.Macro.Obfuscation-6360615-0	Cyren	⚠️ Trojan.NPGI-7
DrWeb	⚠️ modification of W97M.Suspicious.1	Emsisoft	⚠️ VBDownloader.1.Gen (B)
eScan	⚠️ VBDownloader.1.Gen	ESET-NOD32	⚠️ VBA/Obfuscated.P
F-Secure	⚠️ VBDownloader.1.Gen	Fortinet	⚠️ VBA/Agent.DEM!tr.dldr
GData	⚠️ VBDownloader.1.Gen	Ikarus	⚠️ Trojan.VBA.Obfuscated
Kaspersky	⚠️ HEUR:Trojan.Script.Agent.gen	MAX	⚠️ malware (ai score=100)
McAfee	⚠️ RDN/Generic Downloader.x	McAfee-GW-Edition	⚠️ RDN/Generic Downloader.x
Microsoft	⚠️ Trojan:Win32/Skeeyah.A!rfn	NANO-Antivirus	⚠️ Trojan.Ole2.Vbs-heuristic.druvzi
Qihoo-360	⚠️ heur.macro.powershell.x	Rising	⚠️ Macro.Agent.cg (CLASSIC)



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attack.pcap

udp.stream eq 49

No. Time Source Destination Protocol Length Info

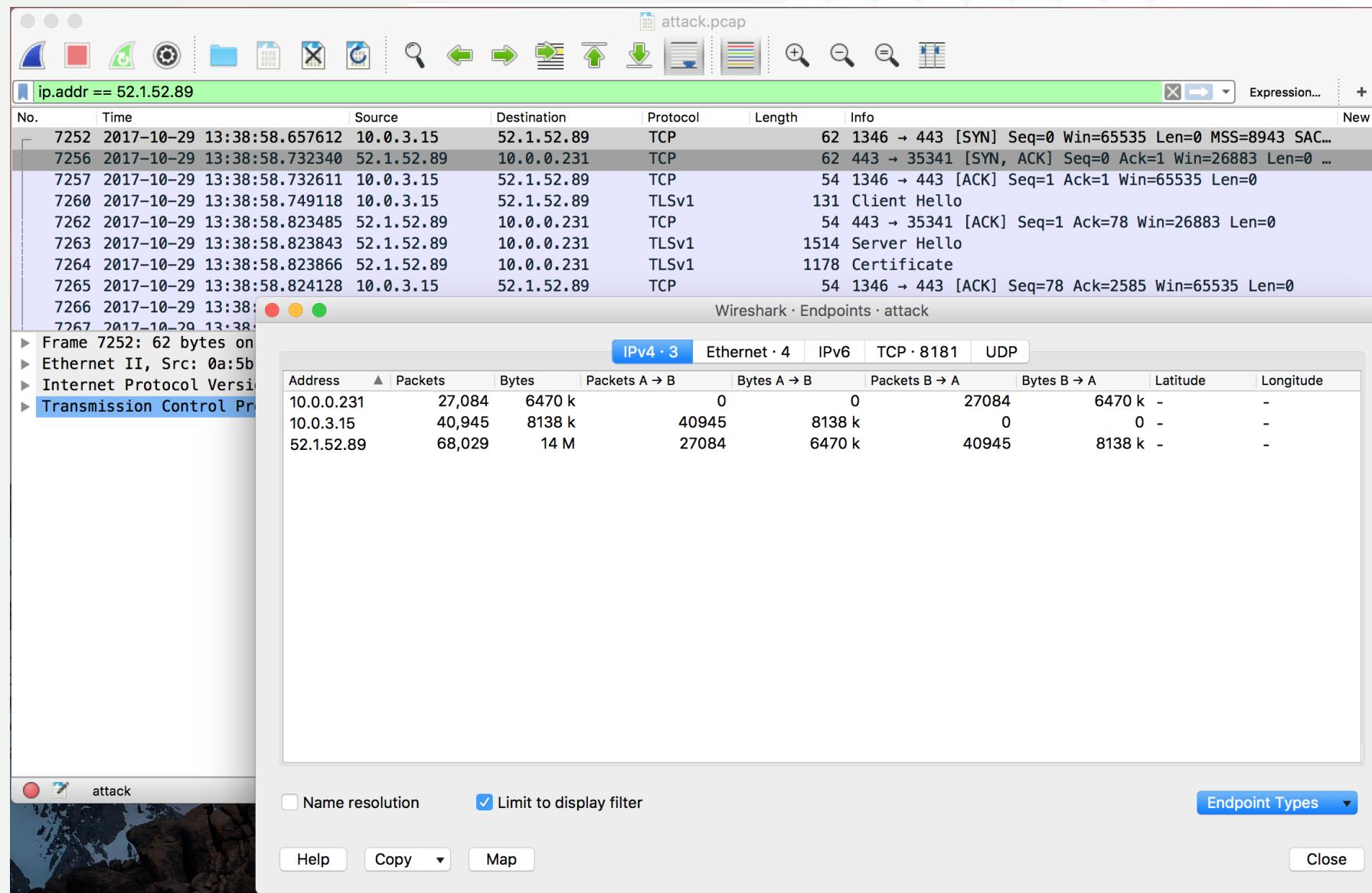
7246	2017-10-29 13:38:58.463454	10.0.3.15	10.0.2.195	DNS	81	Standard query 0xf24c A store.cloudxlarge.com
7249	2017-10-29 13:38:58.523085	10.0.2.195	10.0.3.15	DNS	97	Standard query response 0xf24c A store.cloudxlarge...

Frame 7249: 97 bytes on wire (776 bits), 97 bytes captured (776 bits)
Ethernet II, Src: 0a:3c:af:3a:8e:54 (0a:3c:af:3a:8e:54), Dst: 0a:ea:62:08:a5:44 (0a:ea:62:08:a5:44)
Internet Protocol Version 4, Src: 10.0.2.195, Dst: 10.0.3.15
User Datagram Protocol, Src Port: 53 (53), Dst Port: 55601 (55601)
Domain Name System (response)
[\[Request In: 7246\]](#)
[Time: 0.059631000 seconds]
Transaction ID: 0xf24c
Flags: 0x8180 Standard query response, No error
Questions: 1
Answer RRs: 1
Authority RRs: 0
Additional RRs: 0
Queries
Answers
► store.cloudxlarge.com: type A, class IN, addr 52.1.52.89

Text item (text), 16 bytes

Packets: 226998 · Displayed: 2 (0.0%) · Load time: 0:2.801 · Profile: Default





chris@tulkas:~/t — less var/log/apt/history.log — 134x43

```
Start-Date: 2017-10-27 18:22:58
Commandline: apt install traceroute
Requested-By: ubuntu (1000)
Install: traceroute:amd64 (1:2.0.21-1)
End-Date: 2017-10-27 18:22:59

Start-Date: 2017-10-28 06:10:24
Commandline: /usr/bin/unattended-upgrade
Upgrade: wget:amd64 (1.17.1-1ubuntu1.2, 1.17.1-1ubuntu1.3)
End-Date: 2017-10-28 06:10:25

Start-Date: 2017-10-28 17:50:29
Commandline: apt full-upgrade
Requested-By: ubuntu (1000)
Upgrade: libgnutls-openssl27:amd64 (3.4.10-4ubuntu1.3, 3.4.10-4ubuntu1.4), libsystemd0:amd64 (229-4ubuntu19, 229-4ubuntu21), grub-common:amd64 (2.02~beta2-36ubuntu3.12, 2.02~beta2-36ubuntu3.14), grub2-common:amd64 (2.02~beta2-36ubuntu3.12, 2.02~beta2-36ubuntu3.14), udev:amd64 (229-4ubuntu19, 229-4ubuntu21), grub-pc:amd64 (2.02~beta2-36ubuntu3.12, 2.02~beta2-36ubuntu3.14), libudev1:amd64 (229-4ubuntu19, 229-4ubuntu21), grub-pc-bin:amd64 (2.02~beta2-36ubuntu3.12, 2.02~beta2-36ubuntu3.14), systemd-sysv:amd64 (229-4ubuntu19, 229-4ubuntu21), libpam-systemd:amd64 (229-4ubuntu19, 229-4ubuntu21), distro-info-data:amd64 (0.28ubuntu0.3, 0.28ubuntu0.5), systemd:amd64 (229-4ubuntu19, 229-4ubuntu21), libgnutls30:amd64 (3.4.10-4ubuntu1.3, 3.4.10-4ubuntu1.4)
End-Date: 2017-10-28 17:50:42

Start-Date: 2017-10-29 18:34:49
Commandline: apt install netcat-traditional
Requested-By: bob (1002)
Install: netcat-traditional:amd64 (1.10-41)
End-Date: 2017-10-29 18:34:50

Start-Date: 2017-10-29 19:32:00
Commandline: apt install python-minimal
Requested-By: bob (1002)
Install: python2.7-minimal:amd64 (2.7.12-1ubuntu0~16.04.1, automatic), python2.7:amd64 (2.7.12-1ubuntu0~16.04.1, automatic), python:amd64 (2.7.11-1, automatic), libpython-stdlib:amd64 (2.7.11-1, automatic), libpython2.7-minimal:amd64 (2.7.12-1ubuntu0~16.04.1, automatic), libpython2.7-stdlib:amd64 (2.7.12-1ubuntu0~16.04.1, automatic), python-minimal:amd64 (2.7.11-1)
End-Date: 2017-10-29 19:32:03
~
~
~
~
~
```

tcp.stream eq 499

No.	Time	Source	Destination	Protocol	Length	Info	New Column
8901	2017-10-29 15:32:46.225027	10.0.0.14	130.207.244.165	TCP	1514	47008 → 80 [ACK] Seq=5793 Ack=1 Win=26883 [TCP CHEC...	
8902	2017-10-29 15:32:46.225079	10.0.0.14	130.207.244.165	TCP	1514	47008 → 80 [PSH, ACK] Seq=7241 Ack=1 Win=26883 [TCP...	
8903	2017-10-29 15:32:46.225083	10.0.0.14	130.207.244.165	TCP	1514	47008 → 80 [ACK] Seq=8689 Ack=1 Win=26883 [TCP CHEC...	
8904	2017-10-29 15:32:46.225140	10.0.0.14	130.207.244.165	TCP	1514	47008 → 80 [PSH, ACK] Seq=10137 Ack=1 Win=26883 [TCP...	
8905	2017-10-29 15:32:46.225144	10.0.0.14	130.207.244.165	TCP	1514	47008 → 80 [PSH, ACK] Seq=10137 Ack=1 Win=26883 [TCP...	
8906	2017-10-29 15:32:46.302194	130.207.244.1...	10.0.0.14				Wireshark · Follow TCP Stream (tcp.stream eq 499) · webserver
8907	2017-10-29 15:32:46.302220	10.0.0.14	130.207.244.1...				
8908	2017-10-29 15:32:46.302226	10.0.0.14	130.207.244.1...				
8909	2017-10-29 15:32:46.302228	130.207.244.1...	10.0.0.14				
8910	2017-10-29 15:32:46.302233	130.207.244.1...	10.0.0.14				
8911	2017-10-29 15:32:46.302279	10.0.0.14	130.207.244.1...				
8912	2017-10-29 15:32:46.302283	10.0.0.14	130.207.244.1...				
8913	2017-10-29 15:32:46.302324	10.0.0.14	130.207.244.1...				
8914	2017-10-29 15:32:46.302328	10.0.0.14	130.207.244.1...				
8915	2017-10-29 15:32:46.302371	10.0.0.14	130.207.244.1...				
8916	2017-10-29 15:32:46.381770	130.207.244.1...	10.0.0.14				
8917	2017-10-29 15:32:46.381799	10.0.0.14	130.207.244.1...				
8918	2017-10-29 15:32:46.381806	10.0.0.14	130.207.244.1...				
8919	2017-10-29 15:32:46.381808	130.207.244.1...	10.0.0.14				
8920	2017-10-29 15:32:46.381865	10.0.0.14	130.207.244.1...				
8921	2017-10-29 15:32:46.381869	10.0.0.14	130.207.244.1...				
8922	2017-10-29 15:32:46.381899	130.207.244.1...	10.0.0.14				
8923	2017-10-29 15:32:46.381936	10.0.0.14	130.207.244.1...				
8924	2017-10-29 15:32:46.381941	10.0.0.14	130.207.244.1...				
8925	2017-10-29 15:32:46.458905	130.207.244.1...	10.0.0.14				
8926	2017-10-29 15:32:46.458947	10.0.0.14	130.207.244.1...				
8927	2017-10-29 15:32:46.458954	10.0.0.14	130.207.244.1...				
8928	2017-10-29 15:32:46.458960	130.207.244.1...	10.0.0.14				
8929	2017-10-29 15:32:46.458963	130.207.244.1...	10.0.0.14				
8930	2017-10-29 15:32:46.459018	10.0.0.14	130.207.244.1...				
8931	2017-10-29 15:32:46.459023	10.0.0.14	130.207.244.1...				
8932	2017-10-29 15:32:46.459075	10.0.0.14	130.207.244.1...				

▶ Frame 8931: 1514 bytes on wire (12112 bits), 1514 bytes captured
 ▶ Ethernet II, Src: 0:a:2a:3e:83:d5:56 (0:a:2a:3e:83:d5:56), Dst: 130.207.244.165 (130.207.244.165)
 ▶ Internet Protocol Version 4, Src: 10.0.0.14, Dst: 130.207.244.165
 ▶ Transmission Control Protocol, Src Port: 47008 (47008), Dst Port: 80

Source Port: 47008
 Destination Port: 80
 [Stream index: 499]
 [TCP Segment Len: 1448]
 Sequence number: 36201 (relative sequence number)
 Next sequence number: 37649 (relative sequence number)
 Acknowledgment number: 1 (relative ack number)
 Header Length: 32 bytes
 Flags: 0x018 (PSH, ACK)
 Window size value: 26883
 [Calculated window size: 26883]
 [Window size scaling factor: -2 (no window scaling used)]
 Checksum: 0x8751 [incorrect, should be 0xbe1b (maybe caus...]
 Urgent pointer: 0

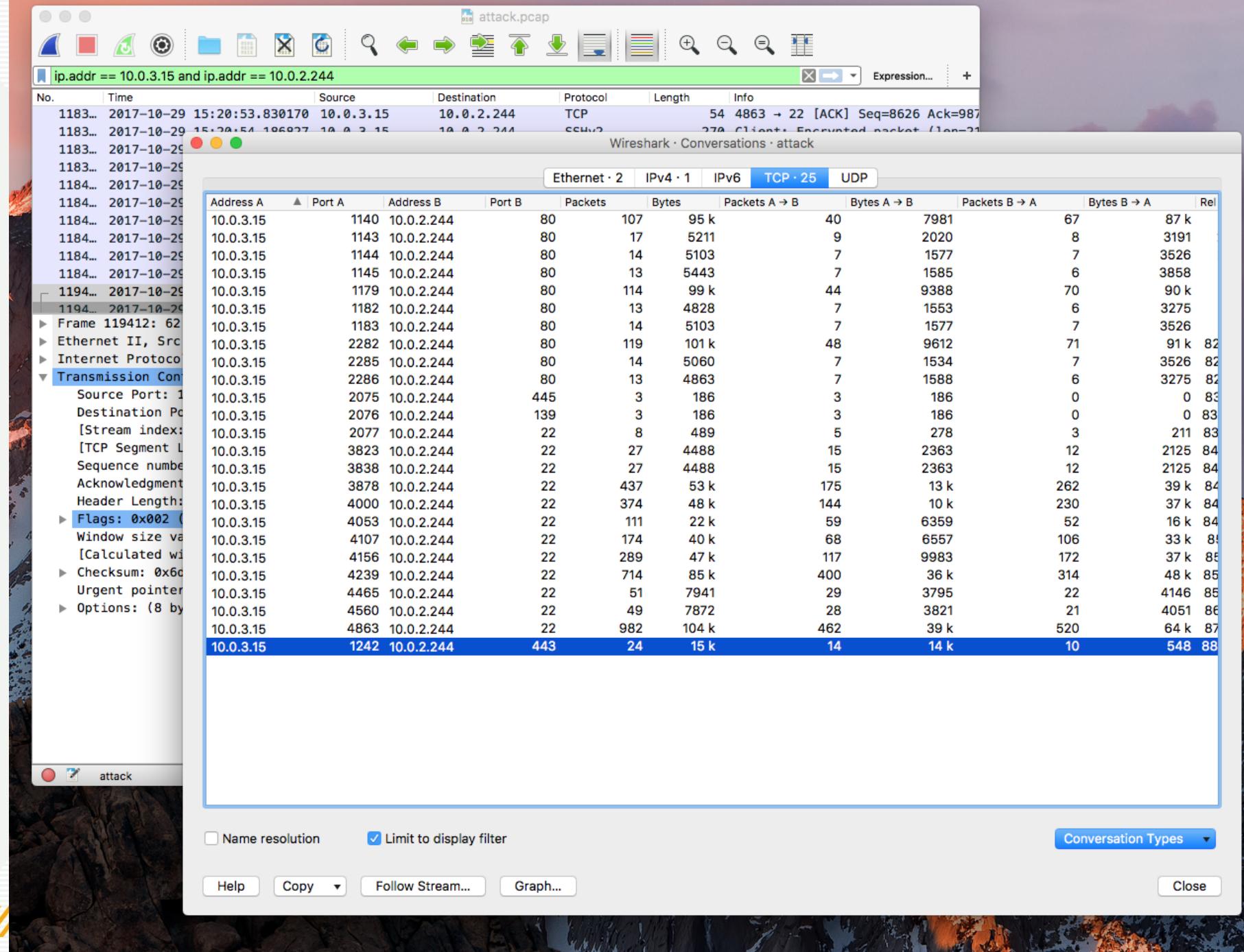
webserver

Georgia Tech



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Packaging



attack.pcap

tcp.stream eq 12943

No.	Time	Source	Destination	Protocol	Length	Info	New Column
1194...	2017-10-29 19:22:15.985282	10.0.3.15	10.0.2.244	TCP	62	1242 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=8943 SAC...	
1194...	2017-10-29 19:22:15.985621	10.0.2.244	10.0.3.15	TCP	62	443 → 1242 [SYN, ACK] Seq=0 Ack=1 Win=26883 Len=0 M...	
1194...	2017-10-29 19:22:15.985838	10.0.3.15	10.0.2.244	TCP	54	12	
1194...	2017-10-29 19:22:16.000771	10.0.3.15	10.0.2.244	SSL	1514	Content	
1194...	2017-10-29 19:22:16.001310	10.0.3.15	10.0.2.244	SSL	1514	Content	
1194...	2017-10-29 19:22:16.001359	10.0.2.244	10.0.3.15	TCP	54	443	
1194...	2017-10-29 19:22:16.001705	10.0.3.15	10.0.2.244	SSL	1514	Content	
1194...	2017-10-29 19:22:16.001732	10.0.3.15	10.0.2.244	SSL	1514	Content	
1194...	2017-10-29 19:22:16.001776	10.0.2.244	10.0.3.15	TCP	54	443	
1194...	2017-10-29 19:22:16.002108	10.0.3.15	10.0.2.244	SSL	1514	Content	
1194...	2017-10-29 19:22:16.002136	10.0.3.15	10.0.2.244	SSL	946	Content	
1194...	2017-10-29 19:22:16.002415	10.0.2.244	10.0.3.15	TCP	54	443	
1194...	2017-10-29 19:22:16.002433	10.0.2.244	10.0.3.15	TCP	54	443	
1194...	2017-10-29 19:22:16.002450	10.0.2.244	10.0.3.15	TCP	54	443	
1194...	2017-10-29 19:22:16.016232	10.0.3.15	10.0.2.244	SSL	1514	Content	
1194...	2017-10-29 19:22:16.016261	10.0.3.15	10.0.2.244	SSL	1514	Content	

Frame 119412: 62 bytes on wire (496 bits), 62 bytes captured (496 bits)
Ethernet II, Src: 0:a:5b:1c:69:e0:9c (0:a:5b:1c:69:e0:9c), Dst: 0:a:2e:3c:63:2f:6e (0:a:2e:3c:63:2f:6e)
Internet Protocol Version 4, Src: 10.0.3.15, Dst: 10.0.2.244
Transmission Control Protocol, Src Port: 1242 (1242), Dst Port: 443 (443), Seq: 0, Len: 0

tcp.stream eq 12943

10 client pkt(s), 0 server pkt(s), 0 turn(s).

Entire conversation (13 kB) Show data ASCII Stream 12943

Find: Find Next

Help Hide this stream Print Save as...

Close



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```
tulkas:309% file test  
test: Composite Document File V2 Document, Little Endian, Os: Windows, Version 5.2, Code page  
: 1252, Author: bob, Last Saved By: bob, Name of Creating Application: Microsoft Excel, Creat  
e Time/Date: Fri Oct 27 14:05:41 2017, Last Saved Time/Date: Fri Oct 27 14:07:17 2017, Securi  
ty: 0
```

~/Desktop]



A screenshot of a Microsoft Excel spreadsheet. The title bar shows the file path as ~/Desktop]. The ribbon menu is visible with tabs for Home, Insert, and Page Layout. The Home tab is selected, showing icons for Paste, Font, and Alignment. The active cell is B7. The spreadsheet contains the following data:

	A	B	C	D
1	Employee Info			
2	First Name	SS#		
3	Bob	527-61-6174		
4	Annie	380-24-7143		
5	Grace	288-58-4676		
6	Joe	245.13.1485		
7				
8				
9				
10				
11				
12				
13				
14				
15				

Rather interesting transfer. Was it exfiltrated?

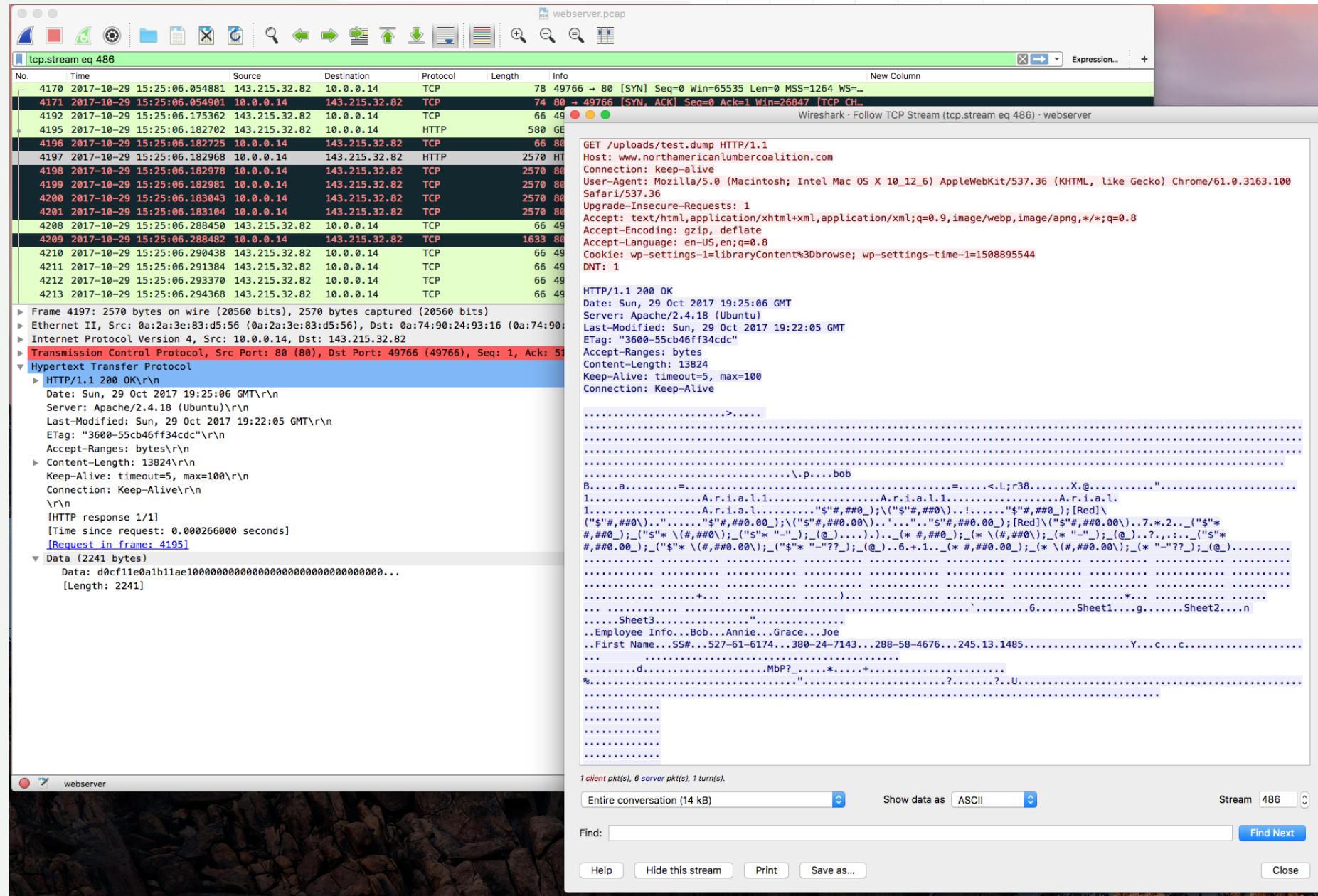
x - ⊞

tcp contains Grace

No.	Time	Source	Destination	Protocol	Length
4197	2017-10-29 15:25:06.182968	10.0.0.14	143.215.32.82	HTTP	25

▶ Frame 4197: 2570 bytes on wire (20560 bits), 2570 bytes captured (20560 bits)
▶ Ethernet II, Src: 0a:2a:3e:83:d5:56 (0a:2a:3e:83:d5:56), Dst: 0a:74:90:24:93:16 (0a:74:90:24:93:16)
▶ Internet Protocol Version 4, Src: 10.0.0.14, Dst: 143.215.32.82
▶ Transmission Control Protocol, Src Port: 80 (80), Dst Port: 49766 (49766), Seq: 1, Ack: 1
▼ Hypertext Transfer Protocol
▶ HTTP/1.1 200 OK\r\nDate: Sun, 29 Oct 2017 19:25:06 GMT\r\nServer: Apache/2.4.18 (Ubuntu)\r\nLast-Modified: Sun, 29 Oct 2017 19:22:05 GMT\r\nETag: "3600-55cb46ff34cdc"\r\n





Georgia Tech

CREATING THE NEXT®

- 17:30-19:10 -- browsed around on connected drives and found a spreadsheet of Social Security Numbers
- 19:14 -- installed an upload.php script on the web server attempting to get the Social Security numbers onto webserver
- 19:22 -- installed netcat and transferred SSN spreadsheet to webserver using netcat
- 19:24 -- fetched test.dump (SSN spreadsheet) from external address
- 19:26 - encrypted web root to cover tracks