## **Incident Response Report**

- What activity is snort reporting on? (Provide a few alert headlines)

## Malware download

- "ET Policy HTTP Request on Unusual Port Possibly Hostile"

1/28/19 Count:1 Event#3.81737 2019-01-28 21:49 UTC
9:49:00.000 PM ET POLICY HTTP Request on Unusual Port Possibly Hostile
172.17.8.109 -> 91.121.30.169

- "ET POLICY HTTP Binary Download Smaller than 1MB Likely Hostile"

1/28/19 Count:1 Event#3.81738 2019-01-28 21:49 UTC
9:49:00.000 PM ET POLICY Binary Download Smaller than 1 MB Likely Hostile
91.121.30.169 -> 172.17.8.109

- This is where and when malware was downloaded.
- "ET TROJAN ABUSE.CH SSL Blacklist Malicious SSL Certificate detected (Dridex)"

1/28/19 Count:1 Event#3.81833 2019-01-28 21:52 UTC
9:52:00.000 PM ET TROJAN ABUSE.CH SSL Blacklist Malicious SSL certificate detected (Dridex)
192.241.220.183 -> 172.17.8.109

- What is the date and time of this alert?

2019-01-28 21:49 UTC

- What is the external IP address that snort is flagging for malicious activity?

91.121.30.169

- What is the internal IP address that snort is flagging for malicious activity?

172.17.8.109

- What is the source port of the activity?

Port 8000

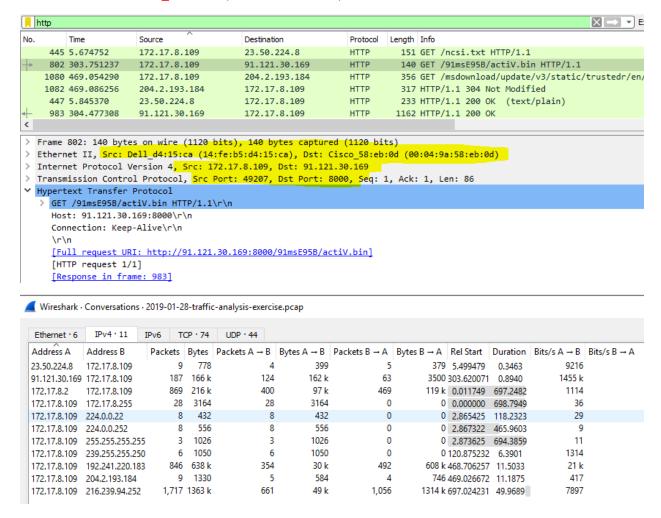
- What is the destination port of the activity?

Port 49207

- What are the MAC Addresses of the computers involved?

Internal: Dell\_d4:15:ca (14:fe:b5:d4:15:ca)

External: Cisco\_58:eb:0d (00:04:9a:58:eb:0d)



- What is the host name of the internal machine?

## **Dunn-Windows-PC**

```
Bootp flags: 0x0000 (Unicast)
  Client IP address: 172.17.8.109
  Your (client) IP address: 0.0.0.0
  Next server IP address: 0.0.0.0
  Relay agent IP address: 0.0.0.0
  Client MAC address: Dell_d4:15:ca (14:fe:b5:d4:15:ca)
  Client hardware address padding: 0000000000000000000
  Server host name not given
  Boot file name not given
  Magic cookie: DHCP
> Option: (53) DHCP Message Type (Inform)
  Option: (61) Client identifier

✓ Option: (12) Host Name

     Length: 15
     Host Name: Dunn-Windows-PC
 Option: (60) Vendor class identifier
> Option: (55) Parameter Request List
```

- Can you confirm the date and time this issue occurred?

January 28, 2019 16:49:17 EST (from the SNORT file)

January 28, 2019 21:49 UTC (from the Splunk analysis of the log file)

IPVer=4 hlen=5 tos=0 dlen=40 ID=462 flags=2 offset=0 ttl=128 chksum=27095

Protocol: 6 sport=49207 -> dport=8000

- How can you confirm if the snort alert is accurate?

By following the TCP stream and see the binary download starting with 'MZ' and '!This program cannot be run in DOS mode.' The GET request ends in '/actiV.bin'.

```
Hypertext Transfer Protocol

V GET /91msE95B/actiV.bin HTTP/1.1\r\n

> [Expert Info (Chat/Sequence): GET /91msE95B/actiV.bin HTTP/1.1\r\n]

Request Method: GET

Request URI: /91msE95B/actiV.bin

Request Version: HTTP/1.1

Host: 91.121.30.169:8000\r\n

Connection: Keep-Alive\r\n
\r\n

[Full request URI: http://91.121.30.169:8000/91msE95B/actiV.bin]

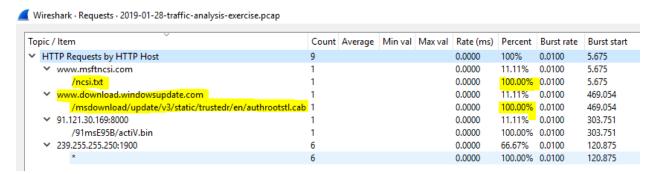
[HTTP request 1/1]

[Response in frame: 983]
```

MZ in DOS mode.	.!L.!This program cannot be run
\$pp/p/	
8T	

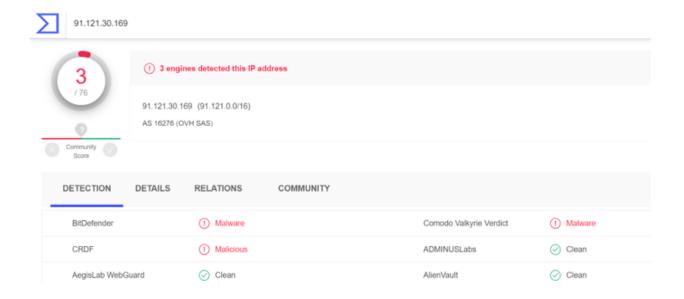
- Can you safely verify whether or not malware was downloaded?

The screenshot below shows that that download was 100% complete



- Would you categorize this alert as a `False Positive` or a `True Positive`?

This is a True Positive as we can see that 3 engines have flagged this as Malware.

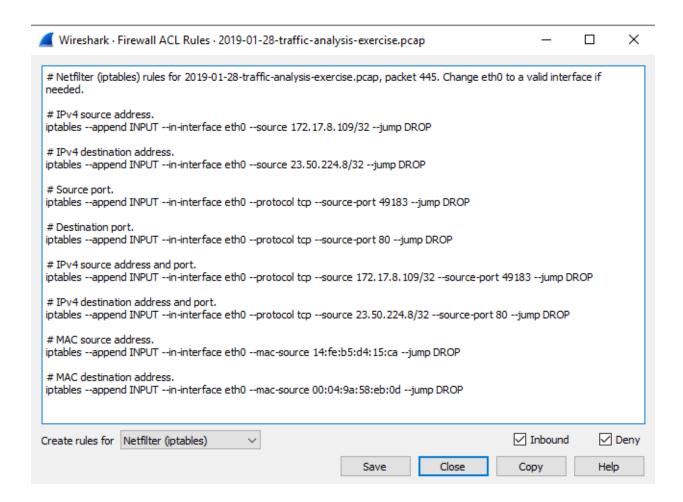


- If this issue needs to be mitigated, what steps should be taken with the infected machine?

The hard drive on the infected computer can be wiped and re-imaged with an OS and software that has not been compromised by this attack. Another alternative would be to restore the computer to a known working configuration prior to the attack occurring (if a backup was done and is available).

- What steps should be taken in regards to network security?

Using ACL Rules from the Wireshark Tools, the rule for the offending IP can be modified.



- Would you categorize this issue as a Web, Email or Network attack?

This would be classified as a Web attack.