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Vellore Institute of Technology
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Information Security Management
CSE3502

Lab Assignment 2

SNORT and Malware Analysis

Slot : L25+L26

Name : Kulvir Singh

Register Number : 19BCE2074

Experiment 1 : Snort

After completing the download and making the said changes this is the output that we get on running the following commands :

Command 1-> snort -W

```
kulvir@KV06 MINGW64 /c/Snort/bin
$ snort -W

o''-
'''-
  -> Snort! <-
  Version 2.9.19-WIN64 GRE (Build 85)
  By Martin Roesch & The Snort Team: http://www.snort.org/contact#team
  Copyright (C) 2014-2021 Cisco and/or its affiliates. All rights reserved.
  Copyright (C) 1998-2013 Sourcefire, Inc., et al.
  Using PCRE version: 8.10 2010-06-25
  Using ZLIB version: 1.2.11

Index  Physical Address      IP Address      Device Name      Description
-----
1      00:00:00:00:00:00      disabled      \Device\NPF_{327705D6-CD06-445F-9D46-B641D848228F}      WAN Miniport (Network
2      00:00:00:00:00:00      disabled      \Device\NPF_{E9EF2705-4E0D-403D-A539-C4ED0F21267F}      WAN Miniport (IPv6)
3      00:00:00:00:00:00      disabled      \Device\NPF_{A11F5A2C-00EC-4AB0-8A71-BC255F6898F8}      WAN Miniport (IP)
4      D0:C5:D3:3F:3F:D4      0000:0000:fe80:0000:0000:0000:9869:b963      \Device\NPF_{410AF506-A5A9-486D-83B1-2D122E45976D}
5      D0:C5:D3:3F:3F:D5      0000:0000:fe80:0000:0000:0000:18c1:c861      \Device\NPF_{2057080C-1692-4F4D-88B5-F61DFFC7862A}
apter
6      00:50:56:C0:00:08      0000:0000:fe80:0000:0000:0000:ad7d:d0f2      \Device\NPF_{04812700-A01F-4446-9091-D36F3DF409BA}
7      00:50:56:C0:00:01      0000:0000:fe80:0000:0000:0000:69b4:7997      \Device\NPF_{F3F6118E-4B34-4613-BB47-E677F82B0C56}
8      E2:C5:D3:3F:3F:D5      0000:0000:fe80:0000:0000:0000:b07a:132f      \Device\NPF_{8F66799C-B112-4024-840E-276766403CC6}
9      D2:C5:D3:3F:3F:D5      0000:0000:fe80:0000:0000:0000:fc99:77a6      \Device\NPF_{62BA74F1-E1A3-49AE-9003-DC9428741342}
10     00:00:00:00:00:00      disabled      \Device\NPF_Loopback      Adapter for loopback traffic capture
11     00:FF:17:D2:72:12      0000:0000:fe80:0000:0000:0000:d98f:b422      \Device\NPF_{17D27212-A640-4C9A-87B6-74F52E7B6398}

kulvir@KV06 MINGW64 /c/Snort/bin
$ |
```

Command 2-> snort -i 5 -c C:/Snort/etc/snort.conf -T

```
ku1vir@KV06 MINGW64 /c/Snort/bin
$ snort -i 5 -c C:/Snort/etc/snort.conf -T
Running in Test mode

--== Initializing Snort ==--
Initializing Output Plugins!
Initializing Preprocessors!
Initializing Plug-ins!
Parsing Rules file "C:/Snort/etc/snort.conf"
PortVar 'HTTP_PORTS' defined : [ 80:81 311 383 591 593 901 1220 1414 1741 1830 2301 2381 2809 3037 3128 370
08 8014 8028 8080 8085 8088 8090 8118 8123 8180:8181 8243 8280 8300 8800 8888 8899 9000 9060 9080 9090:9091
PortVar 'SHELLCODE_PORTS' defined : [ 0:79 81:65535 ]
PortVar 'ORACLE_PORTS' defined : [ 1024:65535 ]
PortVar 'SSH_PORTS' defined : [ 22 ]
PortVar 'FTP_PORTS' defined : [ 21 2100 3535 ]
PortVar 'SIP_PORTS' defined : [ 5060:5061 5600 ]
PortVar 'FILE_DATA_PORTS' defined : [ 80:81 110 143 311 383 591 593 901 1220 1414 1741 1830 2301 2381 2809
7779 8000 8008 8014 8028 8080 8085 8088 8090 8118 8123 8180:8181 8243 8280 8300 8800 8888 8899 9000 9060 90
PortVar 'GTP_PORTS' defined : [ 2123 2152 3386 ]
Detection:
  Search-Method = AC-Full-Q
  Split Any/Any group = enabled
  Search-Method-Optimizations = enabled
  Maximum pattern length = 20
Tagged Packet Limit: 256
Loading dynamic engine C:\Snort\lib\snort_dynamicengine\sf_engine.dll... done
Loading all dynamic preprocessor libs from C:\Snort\lib\snort_dynamicpreprocessor...
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_dce2.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_dnp3.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_dns.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_ftptelnet.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_gtp.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_imap.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_modbus.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_pop.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_reputation.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_sdf.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_sip.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_smtp.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_ssh.dll... done
  Loading dynamic preprocessor library C:\Snort\lib\snort_dynamicpreprocessor\sf_ssl.dll... done
  Finished Loading all dynamic preprocessor libs from C:\Snort\lib\snort_dynamicpreprocessor
Log directory = C:\Snort\log
Frag3 global config:
  Max frags: 65536
  Fragment memory cap: 4194304 bytes
Frag3 engine config:
```

Command 3-> snort -i 5 -c C:/Snort/etc/snort.conf -A console

```
02/11-18:49:11.844277 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:58271 -> 20.198.162.78:443
02/11-18:49:11.912782 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 20.198.162.78:443 -> 192.168.1.38:58271
02/11-18:49:11.969216 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:58271 -> 20.198.162.78:443
02/11-18:49:14.533944 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:61848 -> 95.161.76.100:80
02/11-18:49:14.830837 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 95.161.76.100:80 -> 192.168.1.38:61848
02/11-18:49:16.507802 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:53202 -> 172.67.175.7:443
02/11-18:49:16.584196 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 172.67.175.7:443 -> 192.168.1.38:53202
02/11-18:49:16.587366 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 172.67.175.7:443 -> 192.168.1.38:53202
02/11-18:49:16.632145 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:53202 -> 172.67.175.7:443
02/11-18:49:16.686676 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 172.217.194.108:993 -> 192.168.1.38:58304
02/11-18:49:17.089147 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:58304 -> 172.217.194.108:993
02/11-18:49:17.102746 [**] [1:1000002:0] Testing UDP alert [**] [Priority: 0] {UDP} 192.168.1.37:55846 -> 239.255.255.250:1900
02/11-18:49:17.411757 [**] [1:1000002:0] Testing UDP alert [**] [Priority: 0] {UDP} 192.168.1.37:55846 -> 239.255.255.250:1900
02/11-18:49:17.704247 [**] [1:1000002:0] Testing UDP alert [**] [Priority: 0] {UDP} 192.168.1.37:55846 -> 239.255.255.250:1900
02/11-18:49:18.663555 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50818 -> 162.159.130.234:443
02/11-18:49:18.723792 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 162.159.130.234:443 -> 192.168.1.38:50818
02/11-18:49:19.000580 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 162.159.130.234:443 -> 192.168.1.38:50818
02/11-18:49:19.051951 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50818 -> 162.159.130.234:443
02/11-18:49:21.013686 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.109.124.33:443 -> 192.168.1.38:60618
02/11-18:49:21.013973 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:60618 -> 52.109.124.33:443
02/11-18:49:21.014285 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:60618 -> 52.109.124.33:443
02/11-18:49:21.085850 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.109.124.33:443 -> 192.168.1.38:60618
02/11-18:49:21.085999 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:60618 -> 52.109.124.33:443
02/11-18:49:21.198606 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 20.42.65.85:443 -> 192.168.1.38:50820
02/11-18:49:23.096593 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:60632 -> 203.99.143.86:443
02/11-18:49:23.214600 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 203.99.143.86:443 -> 192.168.1.38:60632
02/11-18:49:24.316048 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.113.206.23:443 -> 192.168.1.38:58345
02/11-18:49:24.363656 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:58345 -> 52.113.206.23:443
02/11-18:49:24.480638 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:58345 -> 52.113.206.23:443
02/11-18:49:24.783585 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.113.206.23:443 -> 192.168.1.38:58345
02/11-18:49:25.460938 [**] [1:1000002:0] Testing UDP alert [**] [Priority: 0] {UDP} 192.168.1.38:59084 -> 218.248.112.193:53
02/11-18:49:25.475153 [**] [1:1000002:0] Testing UDP alert [**] [Priority: 0] {UDP} 218.248.112.193:53 -> 192.168.1.38:59084
02/11-18:49:25.493883 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:60614 -> 35.247.144.219:443
02/11-18:49:25.566439 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 35.247.144.219:443 -> 192.168.1.38:60614
02/11-18:49:25.567915 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50827 -> 52.112.95.100:443
02/11-18:49:25.614261 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:60614 -> 35.247.144.219:443
02/11-18:49:25.702725 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50828 -> 52.112.95.100:443
02/11-18:49:25.841452 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50827
02/11-18:49:25.841686 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50827 -> 52.112.95.100:443
02/11-18:49:25.842555 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50827 -> 52.112.95.100:443
02/11-18:49:25.982261 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50828
02/11-18:49:25.982378 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50828 -> 52.112.95.100:443
02/11-18:49:25.982929 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50828 -> 52.112.95.100:443
02/11-18:49:26.117600 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50827
02/11-18:49:26.117600 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50827
02/11-18:49:26.117600 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50827
02/11-18:49:26.117600 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50827
02/11-18:49:26.117600 [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50827
```

Command 4-> snort -i 5 -c C:/Snort/etc/snort.conf -A console -v

```
***A*** Seq: 0xA22F13DB Ack: 0xF76E40CD Win: 0x201 TcpLen: 20
==+=====+
02/11-18:50:11.997034  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50827
02/11-18:50:11.997034 52.112.95.100:443 -> 192.168.1.38:50827
TCP TTL:108 TOS:0x0 ID:41778 IpLen:20 DgmLen:52 DF
***A*** Seq: 0xF76E40CD Ack: 0xA22F13DC Win: 0x800 TcpLen: 32
TCP Options (3) => NOP NOP Sack: 41519@5083
==+=====+
02/11-18:50:12.573538  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 162.159.130.234:443 -> 192.168.1.38:50818
02/11-18:50:12.573538 162.159.130.234:443 -> 192.168.1.38:50818
TCP TTL:56 TOS:0x0 ID:32925 IpLen:20 DgmLen:240 DF
***A*** Seq: 0x27EDDE8F Ack: 0x10CEDF0D Win: 0x48 TcpLen: 20
==+=====+
02/11-18:50:12.589174  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 162.159.130.234:443 -> 192.168.1.38:50818
02/11-18:50:12.589174 162.159.130.234:443 -> 192.168.1.38:50818
TCP TTL:56 TOS:0x0 ID:32926 IpLen:20 DgmLen:86 DF
***A*** Seq: 0x27EDDF57 Ack: 0x10CEDF0D Win: 0x48 TcpLen: 20
==+=====+
02/11-18:50:12.589323  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50818 -> 162.159.130.234:443
02/11-18:50:12.589323 192.168.1.38:50818 -> 162.159.130.234:443
TCP TTL:128 TOS:0x0 ID:20005 IpLen:20 DgmLen:40 DF
***A*** Seq: 0x10CEDF0D Ack: 0x27EDDF85 Win: 0x1FF TcpLen: 20
==+=====+
02/11-18:50:12.606856  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 162.159.130.234:443 -> 192.168.1.38:50818
02/11-18:50:12.606856 162.159.130.234:443 -> 192.168.1.38:50818
TCP TTL:56 TOS:0x0 ID:32927 IpLen:20 DgmLen:87 DF
***A*** Seq: 0x27EDDF85 Ack: 0x10CEDF0D Win: 0x48 TcpLen: 20
==+=====+
02/11-18:50:12.607466  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 162.159.130.234:443 -> 192.168.1.38:50818
02/11-18:50:12.607466 162.159.130.234:443 -> 192.168.1.38:50818
TCP TTL:56 TOS:0x0 ID:32928 IpLen:20 DgmLen:102 DF
***A*** Seq: 0x27EDDFB4 Ack: 0x10CEDF0D Win: 0x48 TcpLen: 20
==+=====+
02/11-18:50:12.607599  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50818 -> 162.159.130.234:443
02/11-18:50:12.607599 192.168.1.38:50818 -> 162.159.130.234:443
TCP TTL:128 TOS:0x0 ID:20006 IpLen:20 DgmLen:40 DF
***A*** Seq: 0x10CEDF0D Ack: 0x27EDDF2 Win: 0x1FF TcpLen: 20
==+=====+
02/11-18:50:57.005029  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50827 -> 52.112.95.100:443
02/11-18:50:57.005029 192.168.1.38:50827 -> 52.112.95.100:443
TCP TTL:128 TOS:0x0 ID:41779 IpLen:20 DgmLen:41 DF
***A*** Seq: 0xA22F13DB Ack: 0xF76E40CD Win: 0x201 TcpLen: 20
00
==+=====+
02/11-18:50:57.271839  [**] [1:1000002:0] Testing UDP alert [**] [Priority: 0] {UDP} 192.168.1.37:52981 -> 239.255.255.250:1900
02/11-18:50:57.271839 192.168.1.37:52981 -> 239.255.255.250:1900
UDP TTL:1 TOS:0x0 ID:34616 IpLen:20 DgmLen:153 DF
Len: 125
4D 2D 53 45 41 52 43 48 20 2A 20 48 54 54 50 2F M-SEARCH * HTTP/
31 2E 31 0D 0A 48 4F 53 54 3A 20 32 33 39 2E 32 1.1..HOST: 239.2
35 35 2E 32 35 35 2E 32 35 30 3A 31 39 30 30 0D 55.255.250:1900.
0A 4D 41 4E 3A 20 22 73 73 64 70 3A 64 69 73 63 .MAN: "ssdp:disc
6F 76 65 72 22 0D 0A 4D 58 3A 20 31 0D 0A 53 54 over"..MX: 1..ST
3A 20 75 72 6E 3A 64 69 61 6C 2D 6D 75 6C 74 69 : urn:dial-multi
73 63 72 65 65 6E 2D 6F 72 67 3A 73 65 72 76 69 screen-org:servi
63 65 3A 64 69 61 6C 3A 31 0D 0A 0D 0A ce:dial:1....
==+=====+
02/11-18:50:57.287767  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50827
02/11-18:50:57.287767 52.112.95.100:443 -> 192.168.1.38:50827
TCP TTL:108 TOS:0x0 ID:41779 IpLen:20 DgmLen:52 DF
***A*** Seq: 0xF76E40CD Ack: 0xA22F13DC Win: 0x800 TcpLen: 32
TCP Options (3) => NOP NOP Sack: 41519@5083
==+=====+
02/11-18:50:57.318698  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 172.217.194.108:993 -> 192.168.1.38:58304
02/11-18:50:57.318698 172.217.194.108:993 -> 192.168.1.38:58304
TCP TTL:121 TOS:0x60 ID:52717 IpLen:20 DgmLen:40
***A*** Seq: 0x340001D4 Ack: 0xEB8B38B9 Win: 0x11A TcpLen: 20
==+=====+
02/11-18:50:57.318774  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:58304 -> 172.217.194.108:993
02/11-18:50:57.318774 192.168.1.38:58304 -> 172.217.194.108:993
TCP TTL:128 TOS:0x0 ID:61813 IpLen:20 DgmLen:40 DF
***A*** Seq: 0xEB8B38B9 Ack: 0x340001D5 Win: 0x0 TcpLen: 20
==+=====+
02/11-18:50:57.629225  [**] [1:1000002:0] Testing UDP alert [**] [Priority: 0] {UDP} 192.168.1.37:52981 -> 239.255.255.250:1900
```

Command 5-> snort -i 5 -c C:/Snort/etc/snort.conf -A console -vd

```
==+=====+
02/11-18:50:57.005029  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:50827 -> 52.112.95.100:443
02/11-18:50:57.005029 192.168.1.38:50827 -> 52.112.95.100:443
TCP TTL:128 TOS:0x0 ID:41779 IpLen:20 DgmLen:41 DF
***A*** Seq: 0xA22F13DB Ack: 0xF76E40CD Win: 0x201 TcpLen: 20
00
==+=====+
02/11-18:50:57.271839  [**] [1:1000002:0] Testing UDP alert [**] [Priority: 0] {UDP} 192.168.1.37:52981 -> 239.255.255.250:1900
02/11-18:50:57.271839 192.168.1.37:52981 -> 239.255.255.250:1900
UDP TTL:1 TOS:0x0 ID:34616 IpLen:20 DgmLen:153 DF
Len: 125
4D 2D 53 45 41 52 43 48 20 2A 20 48 54 54 50 2F M-SEARCH * HTTP/
31 2E 31 0D 0A 48 4F 53 54 3A 20 32 33 39 2E 32 1.1..HOST: 239.2
35 35 2E 32 35 35 2E 32 35 30 3A 31 39 30 30 0D 55.255.250:1900.
0A 4D 41 4E 3A 20 22 73 73 64 70 3A 64 69 73 63 .MAN: "ssdp:disc
6F 76 65 72 22 0D 0A 4D 58 3A 20 31 0D 0A 53 54 over"..MX: 1..ST
3A 20 75 72 6E 3A 64 69 61 6C 2D 6D 75 6C 74 69 : urn:dial-multi
73 63 72 65 65 6E 2D 6F 72 67 3A 73 65 72 76 69 screen-org:servi
63 65 3A 64 69 61 6C 3A 31 0D 0A 0D 0A ce:dial:1....
==+=====+
02/11-18:50:57.287767  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 52.112.95.100:443 -> 192.168.1.38:50827
02/11-18:50:57.287767 52.112.95.100:443 -> 192.168.1.38:50827
TCP TTL:108 TOS:0x0 ID:41779 IpLen:20 DgmLen:52 DF
***A*** Seq: 0xF76E40CD Ack: 0xA22F13DC Win: 0x800 TcpLen: 32
TCP Options (3) => NOP NOP Sack: 41519@5083
==+=====+
02/11-18:50:57.318698  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 172.217.194.108:993 -> 192.168.1.38:58304
02/11-18:50:57.318698 172.217.194.108:993 -> 192.168.1.38:58304
TCP TTL:121 TOS:0x60 ID:52717 IpLen:20 DgmLen:40
***A*** Seq: 0x340001D4 Ack: 0xEB8B38B9 Win: 0x11A TcpLen: 20
==+=====+
02/11-18:50:57.318774  [**] [1:1000003:0] Testing TCP alert [**] [Priority: 0] {TCP} 192.168.1.38:58304 -> 172.217.194.108:993
02/11-18:50:57.318774 192.168.1.38:58304 -> 172.217.194.108:993
TCP TTL:128 TOS:0x0 ID:61813 IpLen:20 DgmLen:40 DF
***A*** Seq: 0xEB8B38B9 Ack: 0x340001D5 Win: 0x0 TcpLen: 20
==+=====+
02/11-18:50:57.629225  [**] [1:1000002:0] Testing UDP alert [**] [Priority: 0] {UDP} 192.168.1.37:52981 -> 239.255.255.250:1900
```

Command 6-> snort -i 5 -c C:/Snort/etc/snort.conf -A console -d -v -e

```

02/11-18:50:57.271839 02/11-18:50:57.271839 192.168.1.37:52981 -> 239.255.255.250:1900
UDP TTL:1 TOS:0x0 ID:34616 Iplen:20 Dgmlen:153 DF
Len: 125
4D 2D 53 45 41 52 43 48 20 2A 20 48 54 54 50 2F M-SEARCH * HTTP/
31 2E 31 0D 0A 48 4F 53 54 3A 20 32 33 39 2E 32 1.1..HOST: 239.2
35 35 2E 32 35 35 2E 32 35 30 3A 31 39 30 30 0D 55.255.250:1900.
0A 4D 41 4E 3A 20 22 73 73 64 70 3A 64 69 73 63 .MAN: "ssdp:disc
76 65 72 22 0D 0A 4D 58 3A 20 31 0D 0A 53 54 over".MX: 1..ST
3A 20 75 72 6E 3A 64 69 61 6C 2D 6D 75 6C 74 69 : urn:dial-multi
73 63 72 65 65 6E 2D 6F 72 67 3A 73 65 72 76 69 screen-org:servi
63 65 3A 64 69 61 6C 3A 31 0D 0A 0D 0A ce:dial:1....

02/11-18:50:57.287767 02/11-18:50:57.287767 52.112.95.100:443 -> 192.168.1.38:50827
TCP TTL:108 TOS:0x0 ID:41779 Iplen:20 Dgmlen:52 DF
***A**** Seq: 0xF76E40CD Ack: 0xA22F13DC Win: 0x800 TcpLen: 32
TCP Options (3) => NOP NOP Sack: 41519@5083

02/11-18:50:57.318698 02/11-18:50:57.318698 172.217.194.108:993 -> 192.168.1.38:58304
TCP TTL:121 TOS:0x60 ID:52717 Iplen:20 Dgmlen:40
***A**** Seq: 0x340001D4 Ack: 0xEB8B38B9 Win: 0x11A TcpLen: 20

02/11-18:50:57.318774 02/11-18:50:57.318774 192.168.1.38:58304 -> 172.217.194.108:993
TCP TTL:128 TOS:0x0 ID:61813 Iplen:20 Dgmlen:40 DF
***A**** Seq: 0xEB8B38B9 Ack: 0x340001D5 Win: 0x0 TcpLen: 20

02/11-18:50:57.629225 02/11-18:50:57.629225 192.168.1.37:52981 -> 239.255.255.250:1900
UDP TTL:1 TOS:0x0 ID:34631 Iplen:20 Dgmlen:153 DF
Len: 125
4D 2D 53 45 41 52 43 48 20 2A 20 48 54 54 50 2F M-SEARCH * HTTP/
31 2E 31 0D 0A 48 4F 53 54 3A 20 32 33 39 2E 32 1.1..HOST: 239.2

```

Experiment 2 : Malware Analysis Report on Virus Total

3 hash values of deadly malware is taken from malwarebazar.com and is analyzed on virus total platform

Hash 1 :

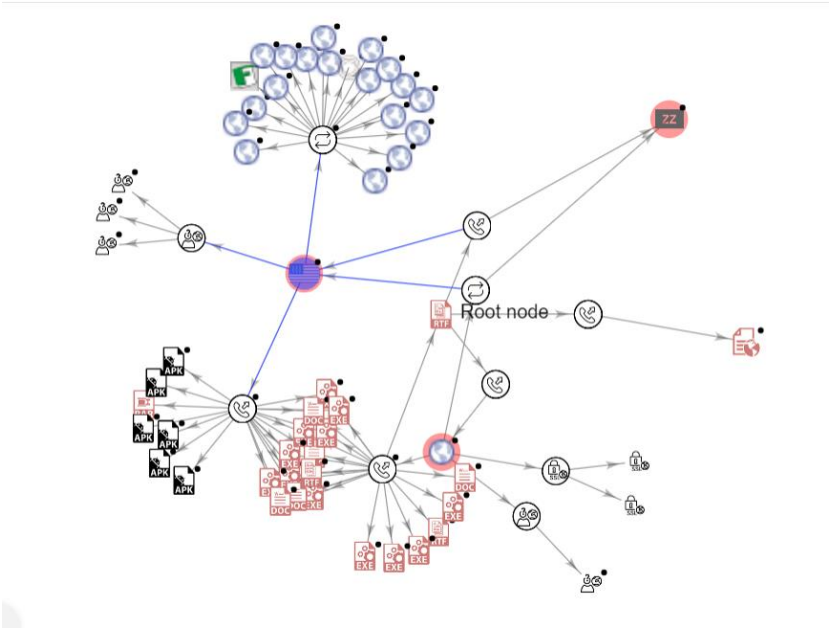
725a88dc1bcd54fe6af82d53b1c6bfae9bfa584bc8cbae526b44742e4ccdb67

Results on Virus Total

Dynamic Analysis Sandbox Detections ⓘ

⚠ The sandbox BitDam ATP flags this file as: MALWARE

AhnLab-V3	① RTF/Malform-A.Gen	Avast	① RTF:CVE-2017-11882-E [Expl]
AVG	① RTF:CVE-2017-11882-E [Expl]	Cyren	① RTF/CVE-2017-11882.R.gen/Camelot
DrWeb	① Exploit.CVE-2018-0798.4	Fortinet	① RTF/Abnormal.Fltr
Ikarus	① Exploit.CVE-2017-11882	K7AntiVirus	① Trojan (0057b3a91)
K7GW	① Trojan (0057b3a91)	Kaspersky	① HEUR:Exploit.MSOffice.CVE-2018-0802.g...
Lionic	① Trojan.MSOffice.CVE-2018-0802.3lc	McAfee	① Exploit-CVE2017-11882.bw
Microsoft	① Trojan:Script/Woreflint.A!cl	NANO-Antivirus	① Exploit.Rtf.Heuristic-rtf.dinbqn
Sangfor Engine Zero	① Malware.Generic-RTF.Save.b35abd92	Symantec	① Exp.CVE-2017-11882!g5
TACHYON	① Trojan-Exploit/RTF.CVE-2018-0798	TrendMicro	① HEUR_RTFMALFORM
ZoneAlarm by Check Point	① HEUR:Exploit.MSOffice.CVE-2018-0802.g...	Zoner	① Probably Heur.RTFBadVersion

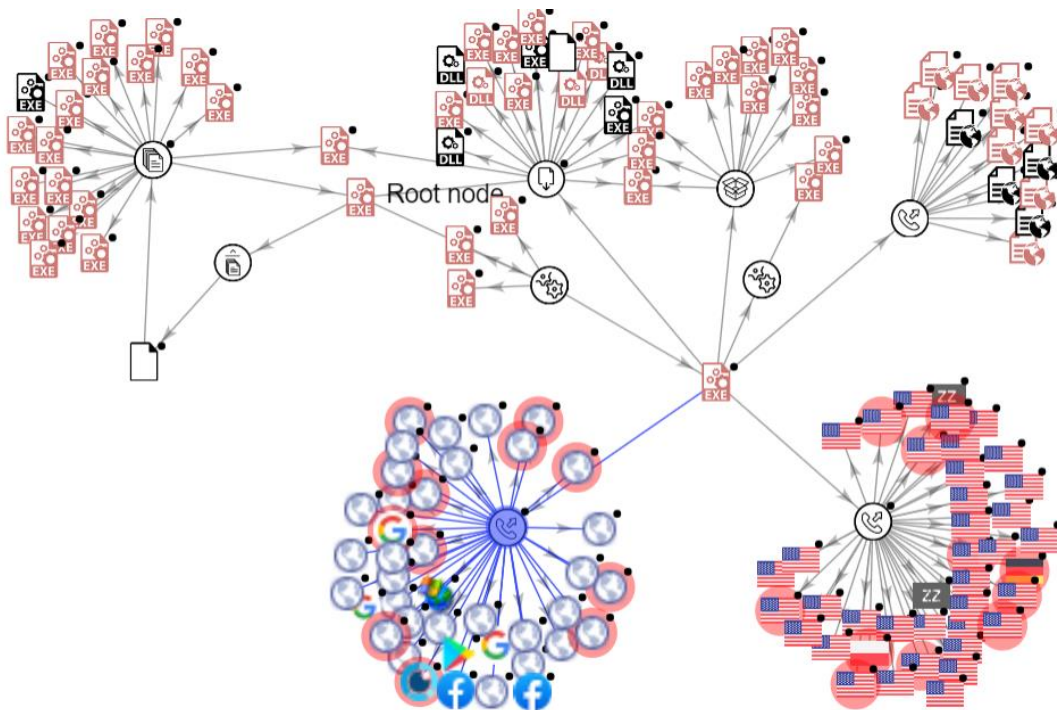


Hash 2

3a1b02e50a1c7325df2a4882d352a0b404ec4e4016b402b7495756abeac32310

Results on Virus Total


3a1b02e50a1c7325df2a4882d352a0b404ec4e4016b402b7495756abeac32310				Score
DETECTION	DETAILS	RELATIONS	COMMUNITY	2
Acronis (Static ML)	① Suspicious		Avast	① FileRepMalware
AVG	① FileRepMalware		BitDefenderTheta	① Gen:NN.ZexaF.34212.9r3@aeO4S9hk
Cylance	① Unsafe		Cyren	① W32/Obsidium.A.gen!Eldorado
eGambit	① Unsafe.AI_Score_90%		Elastic	① Malicious (high Confidence)
Fortinet	① W32/Obsidium.FX!tr		Kaspersky	① UDS:DangerousObject.Multi.Generic
Lionic	① Trojan.Win32.Reline.ile		Malwarebytes	① Trojan.MalPack.Obsidium
MaxSecure	① Trojan.Malware.300983.susgen		McAfee	① Artemis!75AAE7D6F23C
McAfee-GW-Edition	① Artemis!Trojan		Microsoft	① Exploit:Win32/ShellCode!ml
SecureAge APEX	① Malicious		Symantec	① ML.Attribute.HighConfidence
VBA32	① BScope.Trojan.APosT		Ad-Aware	① Undetected



Hash 3:

1d20191aee650fd8c58c6564ce9ff5b86138a954bc49a3e25033cc888fc85466

Results on virus total

 1d20191aee650fd8c58c6564ce9ff5b86138a954bc49a3e25033cc888fc85466

🔍 ⬆️ 📄 💬 KULVIR SIN... 🎧

Crowdsourced Sigma Rules ⓘ

📊 CRITICAL 0 HIGH 3 MEDIUM 2 LOW 5

⚠️ 1 match for rule **Execution Of Not Existing File** by Max Altgelt from Sigma Integrated Rule Set (GitHub)
Checks whether the image specified in a process creation event is not a full, absolute path (caused by process ghosting or other
↳ *unorthodox methods to start a process*)

⚠️ 1 match for rule **Execution File Type Other Than .exe** by Max Altgelt from Sigma Integrated Rule Set (GitHub)
Checks whether the image specified in a process creation event doesn't refer to an .exe file (caused by process ghosting or other
↳ *unorthodox methods to start a process*)

⚠️ 1 match for rule **Suspicious Call by Ordinal** by Florian Roth from Sigma Integrated Rule Set (GitHub)
↳ Detects suspicious calls of DLLs in rundll32.dll exports by ordinal


⚠️ 2 matches for rule **LOLBAS rundll32 without expected arguments (via cmdline)** by SOC Prime Team from SOC Prime Threat Detection Marketplace
Detects use of rundll32 as a LOLBAS binary where rundll32 is passed unexpected arguments such as a .iso instead of .dll (i.e.
↳ *rundll32.exe test.iso, evilexport*).

🕒 1 match for rule **Non Interactive PowerShell** by Roberto Rodriguez @Cyb3rWard0g (r... from Sigma Integrated Rule Set (GitHub)
↳ Detects non-interactive PowerShell activity by looking at powershell.exe with not explorer.exe as a parent.

⌵ See all

Dynamic Analysis Sandbox Detections ⓘ

⚠️ The sandbox **Lastline** flags this file as: MALWARE



The diagram is a network graph with a central hub-and-spoke structure. A central node, marked with a red 'X' icon, is connected to several peripheral clusters. These clusters contain various icons: some have document icons, others have person icons, and some have system or server icons. One cluster on the right is labeled 'Root node' and contains a 'DLS' icon. The overall structure suggests a complex, interconnected system, likely representing a malware network or a data flow analysis.