## **SNORT**

## 1. C:\Snort\bin>snort -W

```
:\Snort\bin>snort -W
          -*> Snort! <*-
        Version 2.9.18.1-WIN64 GRE (Build 1005)
          By Martin Roesch & The Snort Team: http://www.snort.org/contact#team
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          Using PCRE version: 8.10 2010-06-25
          Using ZLIB version: 1.2.11
ndex
      Physical Address
                                IP Address
                                                 Device Name
                                                                   Description
                                                  \Device\NPF_{2161695A-07A2-4B4C-A344-B091EDB268BF}
                                                                                                              WAN Miniport (Network Monitor)
      00:00:00:00:00:00
                                disabled
                                                  \Device\NPF_{ACBB84F8-698F-4538-93D3-A695ADB8C358}
      00:00:00:00:00:00
                                disabled
                                                                                                              WAN Miniport (IPv6)
                                                  \Device\NPF_{362271FD-49A9-443F-B7C1-BC5B510BA853}
      00:00:00:00:00:00
                                                                                                              WAN Miniport (IP)
                                 0000:0000:fe80:0000:0000:0000:e44f:de4f \Device\NPF_{1F9B1C7B-9FB2-42F0-947F-D988D50F2F4A}
                                                                                                                                        Hyper-V Virtual Ethernet Adapter
      00:15:5D:C1:D6:D7
      D8:9C:67:9A:C5:54
                                 0000:0000:fe80:0000:0000:0000:61f4:103e \Device\NPF_{F6B6CE79-6B0B-4A0E-9605-6F3ED9A57B2D}
                                                                                                                                        Bluetooth Device (Personal Area Network)
      D8:9C:67:9A:C5:53
                                 192.168.29.181 \Device\NPF {E9227939-8BF3-4CCD-8057-2782B4B3B7D2}
                                                                                                              Oualcomm OCA9377 802.11ac Wireless Adapter
      EA:9C:67:9A:C5:53
                                0000:0000:fe80:0000:0000:0000:f95a:f874 \Device\NPF_{CE92A2E0-A805-4D30-8CFB-A7C17464010A}
                                                                                                                                        Microsoft Wi-Fi Direct Virtual Adapter #2
                                0000:1000:1680:0000:1000:0000:1000:8d44:7597 \Device\NPF_{2687538A-1508-4977-AFIA-23F86425A997} \disabled \Device\NPF_Loopback Adapter for loopback traffic capture
      DA:9C:67:9A:C5:53
                                                                                                                                        Microsoft Wi-Fi Direct Virtual Adapter
      00:00:00:00:00:00
                                 0000:0000:fe80:0000:0000:0000:8569:6758 \Device\NPF_{6E96755E-4ECF-494F-84D7-65642C21DEBB}
       00:FF:6E:96:75:5E
                                                                                                                                        TAP-Windows Adapter V9
      54:48:10:D8:B6:64
                                 0000:0000:fe80:0000:0000:0000:7483:4576 \Device\NPF_{EF97DE45-D4D7-440F-B06F-5A7AD07B19C8}
                                                                                                                                        Realtek PCIe FE Family Controller
 \Snort\bin>
```

## 2. C:\Snort\bin> snort -i 1 -c C:\Snort\etc\snort.conf -T

```
:\Snort\bin>snort -i 1 -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
123 8180:8181 8243 8280 8300 8800 8888 8899 9000 9060 9080 9090:9091 9443 9999 11371 34443:34444 41080 5
PortVar 'SHELLCODE PORTS' defined : [ 0:79 81:65535 ]
PortVar 'ORACLE_PORTS' defined :
                                         [ 1024:65535 ]
PortVar 'ORACLE_PORTS' defined : [ 1024.63333 ]
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 23
PortVar 'FILE_DATA_PORTS' defined : [ 80:81 110 143 311 383 591 593 901 1220 1414 1741 1830 2301 2381 23
8 8090 8118 8123 8180:8181 8243 8280 8300 8800 8888 8899 9000 9060 9080 9090:9091 9443 9999 11371 34443:
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
```

```
Initializing rule chains...
10056 Snort rules read
    9612 detection rules
     153 decoder rules
291 preprocessor rules
10056 Option Chains linked into 299 Chain Headers
                    ----[Rule Port Counts]-
                           udp
                                     icmp
                3609
                             23
73
                                         0
                                                   0
                5677
                                         0
       dst
                                                   0
                 670
       any
                              3
                                         7
                                                   1
                  452
                              0
        nc
                                         0
                                                    0
                           ---[detection-filter-config]-----
 memory-cap : 1048576 bytes
-----[detection-filter-rules]-----
                           ---[rate-filter-config]-----
 memory-cap : 1048576 bytes
-----[rate-filter-rules]-----
 none
                             -[event-filter-config]-----
 memory-cap : 1048576 bytes
------[event-filter-global]---------[event-filter-local]------
                      ----[suppression]-----
 none
Rule application order: pass->drop->sdrop->reject->alert->log
Werifying Preprocessor Configurations!
WARNING: flowbits key 'file.amf' is set but not ever checked.
WARNING: flowbits key 'smb.trans2.findfirst2' is set but not ever checked.
```

```
States
Transitions
                                               161627
                                               28921577
    State Density
                                              9705
    Patterns
                                           : 116.08
   Memory (MB)
Patterns
                                           : 2.55
        Match Lists
        DFA
            1 byte states : 1.06
            2 byte states : 45.87
4 byte states : 65.12
   Number of patterns truncated to 20 bytes: 553 ]
             at the end of detection rules:1214081552
 laxRss
 cap DAQ configured to passive.
The DAQ version does not support reload.
Acquiring network traffic from "\Device\NPF_{2161695A-07A2-4B4C-A344-B091EDB268BF}".
                   -== Initialization Complete ==--
                        -*> Snort! <*-
                       Version 2.9.18.1-WIN64 GRE (Build 1005)
                      Wersion 2.9.10.1-Wind 4 GRC (Build 1005)

By Martin Roesch & The Snort Team: http://www.snort.org/contact#team

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Using PCRE version: 8.10 2010-06-25

Using ZLIB version: 1.2.11
                       Rules Engine: SF_SNORT_DETECTION_ENGINE Version 3.2 <Build 1>
Preprocessor Object: SF_SSLPP Version 1.1 <Build 4>
                       Preprocessor Object: SF_SSLPP Version 1.1 <Build 4
Preprocessor Object: SF_SSLP Version 1.1 <Build 4
Preprocessor Object: SF_SSH Version 1.1 <Build 3>
Preprocessor Object: SF_SMTP Version 1.1 <Build 9>
Preprocessor Object: SF_SIP Version 1.1 <Build 1>
Preprocessor Object: SF_SDF Version 1.1 <Build 1>
                       Preprocessor Object: SF_REPUTATION Version 1.1 <Build 1/
Preprocessor Object: SF_POP Version 1.0 <Build 1/
Preprocessor Object: SF_MODBUS Version 1.1 <Build
Preprocessor Object: SF_IMAP Version 1.0 <Build 1/
                                                                                                                                  <Build 1>
                       Preprocessor Object: SF_IMAP Version 1.0 <Build 1
Preprocessor Object: SF_GTP Version 1.1 <Build 1>
                       Preprocessor Object: SF_FTPTELNET Version 1.1 <Build 1/
Preprocessor Object: SF_DNS Version 1.1 <Build 4/
Preprocessor Object: SF_DNP3 Version 1.1 <Build 1/
Preprocessor Object: SF_DCERPC2 Version 1.0 <Build 3/
                                                                                                                                  <Build 13>
Total snort Fixed Memory Cost - MaxRss:-2098580720
Snort successfully validated the configuration!
```

## 3. C:\Snort\bin>snort -i 6 -c C:\Snort\etc\snort.conf -A console

```
C:\Snort\bin>snort -i 6 -c C:\Snort\etc\snort.conf -A console
Running in IDS 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 3702 4
123 8180:8181 8243 8280 8300 8800 8888 8899 9000 9060 9080 9090:9091 9443 9999 11371 34443:34444 41080 50002 55
PortVar 'SHELLCODE_PORTS' defined : [ 0:79 81:65535 ]
PortVar 'ORACLE_PORTS' defined : [ 1024:65535 ]
PortVar GRACEE_TOKTS defined: [ 22 ]
PortVar 'SSH_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 303
8 8090 8118 8123 8180:8181 8243 8280 8300 8800 8888 8899 9000 9060 9080 9090:9091 9443 9999 11371 34443:34444 4
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
_oading dynamic engine C:\Snort\lib\snort_dynamicengine\sf_engine.dll... done
 .oading 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
```

```
[ Number of patterns truncated to 20 bytes: 553 ]
pcap DAQ configured to passive.
The DAQ version does not support reload.
Acquiring network traffic from "\Device\NPF_{E9227939-8BF3-4CCD-8057-2782B4B3B7D2}".
Decoding Ethernet
              --== Initialization Complete ==--
                   -*> Snort! <*-
                   Version 2.9.18.1-WIN64 GRE (Build 1005)
                   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
                   Rules Engine: SF_SNORT_DETECTION_ENGINE Version 3.2
                                                                                                                     <Build 1>
                   Preprocessor Object: SF_SSLPP Version 1.1 <Build 4>
Preprocessor Object: SF_SSH Version 1.1 <Build 3>
Preprocessor Object: SF_SMTP Version 1.1 <Build 9>
                   Preprocessor Object: SF_SIP Version 1.1 <Build 1>
Preprocessor Object: SF_SDF Version 1.1 <Build 1>
                   Preprocessor Object: SF_REPUTATION Version 1.1
                   Preprocessor Object: SF_POP Version 1.0 <Build 1>
Preprocessor Object: SF_MODBUS Version 1.1 <Build 1>
                   Preprocessor Object: SF_IMAP Version 1.0 <Build 1>
Preprocessor Object: SF_GTP Version 1.1 <Build 1>
Preprocessor Object: SF_FTPTELNET Version 1.2 <Build 13>
                   Preprocessor Object: SF_DNS Version 1.1 <Build 4>
Preprocessor Object: SF_DNP3 Version 1.1 <Build 1>
Preprocessor Object: SF_DCERPC2 Version 1.0 <Build 3>
Commencing packet processing (pid=5296)
```

```
[**] [1:100008:0] [CYtesting ip alert[CY
[**] [1:100008:0] [CYtesting ip alert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | [Priority: 0] { | PROTO:002 | 192.168.29.1 -> 224.0.0.1 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52360 | |
| [Priority: 0] { | UDP | 172.217.27.206:443 -> 192.168.29.181:52360 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52360 | |
| [Priority: 0] { | UDP | 192.168.29.181:52360 -> 172.217.174.78:443 | |
| [Priority: 0] { | UDP | 192.168.29.181:52360 -> 172.217.174.78:443 | |
| [Priority: 0] { | UDP | 192.168.29.181:52360 -> 172.217.174.78:443 | |
| [Priority: 0] { | UDP | 192.168.29.181:52360 -> 172.217.174.78:443 | |
| [Priority: 0] { | UDP | 192.168.29.181:52360 -> 172.217.27.206:443 | |
| [Priority: 0] { | UDP | 192.168.29.181:52679 -> 172.217.27.206:443 | |
| [Priority: 0] { | UDP | 192.168.29.181:52679 -> 172.217.27.206:443 | |
| [Priority: 0] { | UDP | 172.217.27.206:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.27.206:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 192.168.29.181:52679 -> 172.217.174.78:443 | |
| [Priority: 0] { | UDP | 192.168.29.181:52679 -> 172.217.174.78:443 | |
| [Priority: 0] { | UDP | 192.168.29.181:52679 -> 172.217.174.78:443 | |
| [Priority: 0] { | UDP | 172.217.174.78:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.27.206:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.27.206:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.27.206:443 -> 192.168.29.181:52679 | |
| [Priority: 0] { | UDP | 172.217.27.206:443 -> 192.168.29.181:52679 | |
| [Priority: 
10/03-14:07:24.357604
10/03-14:07:24.362216
10/03-14:07:24.387547
10/03-14:07:24.391484
10/03-14:07:24.396452
  10/03-14:07:24.401461
  10/03-14:07:24.588200
10/03-14:07:24.603897
10/03-14:07:24.604762
  10/03-14:07:24.605052
10/03-14:07:24.610280
10/03-14:07:24.616124
  10/03-14:07:24.646363
10/03-14:07:24.647233
10/03-14:07:24.650483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       [ ** ]
[ ** ]
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  10/03-14:07:24.659850
10/03-14:07:24.675797
10/03-14:07:24.726774
  10/03-14:07:24.727076
10/03-14:07:24.727314
10/03-14:07:24.734576
  10/03-14:07:24.736584
10/03-14:07:24.768591
10/03-14:07:24.769004
  10/03-14:07:24.769257
10/03-14:07:24.769586
10/03-14:07:24.770450
    10/03-14:07:24.779974
10/03-14:07:24.7/99/4

10/03-14:07:24.996133

10/03-14:07:24.996133

10/03-14:07:25.000429

10/03-14:07:25.006654

10/03-14:07:25.037804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       [**]
[**]
  10/03-14:07:25.040666
10/03-14:07:25.048998
10/03-14:07:25.185480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               {UDP}
  10/03-14:07:25.185783
10/03-14:07:25.187321
10/03-14:07:25.196240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       [ ** ]
[ ** ]
[ ** ]
[ ** ]
[ ** ]
[ ** ]
[ ** ]
[ ** ]
[ ** ]
  10/03-14:07:25.196240
10/03-14:07:25.227549
10/03-14:07:25.404645
10/03-14:07:25.404882
  10/03-14:07:25.404939
10/03-14:07:25.413159
10/03-14:07:25.414761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  192.168.29.181:52679 -> 172.217.27.206:443
172.217.27.206:443 -> 192.168.29.181:52679
172.217.27.206:443 -> 192.168.29.181:52679
192.168.29.181:52679 -> 172.217.27.206:443
192.168.29.199:45726 -> 239.255.255.250:1900
172.217.27.206:443 -> 192.168.29.181:52679
192.168.29.181:52679 -> 172.217.27.206:443
  10/03-14:07:25.447456
10/03-14:07:25.448361
10/03-14:07:25.457723
10/03-14:07:25.545666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               [Priority:
[Priority:
[Priority:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0]
0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 [Priority:
[Priority:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         {UDP
```

```
Heap Statistics of stream:
          Total Statistics:
               Memory in use:
No of allocs:
                                      2072960 bytes
                                           58
                 No of frees:
                                           52
        Session Statistics:
               Memory in use:
No of allocs:
                                           0 bytes
                                           43
                 No of frees:
                                           43
         Config Statistics:
               Memory in use:
No of allocs:
                                      2072960 bytes
                                           15
                 No of frees:
Memory Statistics of DCE at: Sun Oct 3 14:10:20 2021
dcerpc2 Preprocessor Statistics:
                Total sessions :
                                     0
               Active sessions :
                                     0
            Total SMB sessions :
                                     0
            Total TCP sessions :
                                     0
            Total UDP sessions :
                                     0
    Total HTTP server sessions :
                                     0
    Total HTTP proxy sessions :
                                     0
Total Memory stats :
                 Current total : 52429178
Maximum total : 52516212
Total momen
                  Total memcap :
                                    0
                                    0
                    Free total :
```