

Our goal in this lab is to deploy snort in the same system running Elastic security, Configure custom detection rules to monitor network activity. Validate alerts by simulating and analyzing network threats. Integrate Snort with Elastic SIEM to centralize security logs.

Let's start to install the Snort.

```
[ Number of patterns truncated to 20 bytes: 1038 ]
pcap DAQ configured to passive.
Acquiring network traffic from "eno1".
Reload thread starting...
Reload thread started, thread 0x7555f997a6c0 (576157)
Decoding Ethernet

--== Initialization Complete ==--

,,_  -*> Snort! <*-
o"  )~ Version 2.9.20 GRE (Build 82)
'   By Martin Roesch & The Snort Team: http://www.snort.org/contact#team
    Copyright (C) 2014-2022 Cisco and/or its affiliates. All rights reserved.
    Copyright (C) 1998-2013 Sourcefire, Inc., et al.
    Using libpcap version 1.10.4 (with TPACKET_V3)
    Using PCRE version: 8.39 2016-06-14
    Using ZLIB version: 1.3
```

```
GNU nano 7.2 /etc/snort/rules/local.rules
$Id: local.rules,v 1.11 2004/07/23 20:15:44 bmc Exp $
# -----
# LOCAL RULES
# -----
# This file intentionally does not come with signatures. Put your local
# additions here.
```

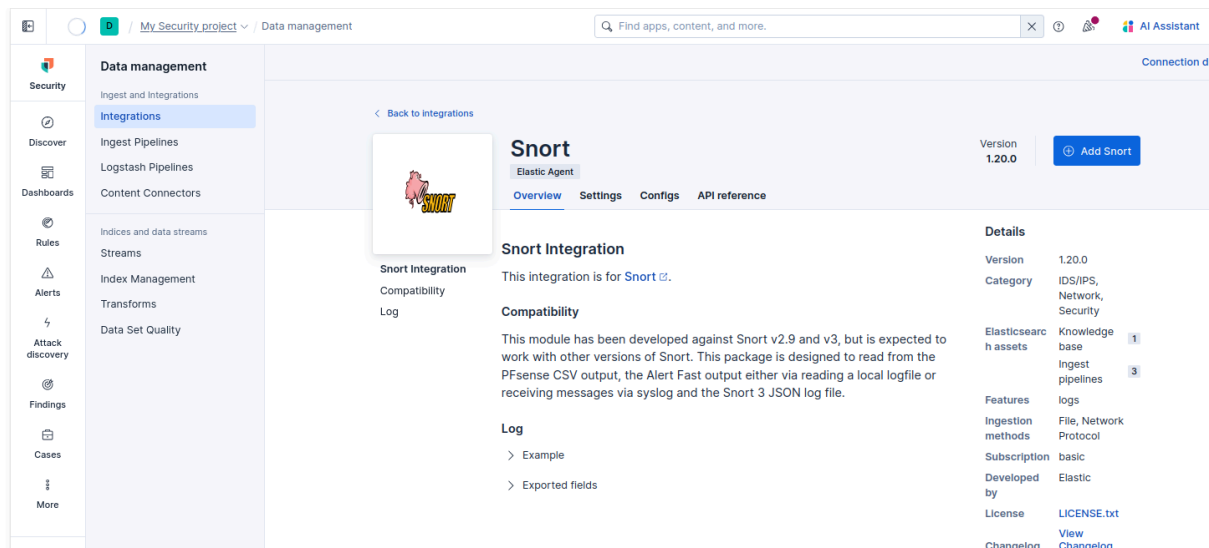
Let's create a new rule here that allow an alert.

```
GNU nano 7.2 /etc/snort/rules/local.rules *
# $Id: local.rules,v 1.11 2004/07/23 20:15:44 bmc Exp $
# -----
# LOCAL RULES
# -----
# This file intentionally does not come with signatures.  Put your local
# additions here.

alert icmp any any -> any any (msg:"ICMP Ping detected!"; sid 1000001; rev:1;)
```

Here we have a rule that is an alert with the icmp that when somebody does a ping from any ip to any ip, and the message that will appear when this happens.

Now, we have to implement the snort integration on the elastic SIEM.



[Cancel](#)

Add Snort integration

Configure an integration for the selected agent policies.

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Configure integration

Integration settings
Choose a name and description to help identify how this integration will be used.

Integration name

snort-1

Description Optional

[Advanced options](#)

☒ **Collect Snort logs (input: logfile)** [Change defaults](#)

Collect Snort logs using logfile input

Paths

/var/log/snort/alert.log

/var/log/snort/alert

/var/log/snort

[Add row](#)

Multi-line Alert Full logs

In the Snort Integration settings, configure log collection by adding these three paths.

Now let's see what happened when we did a ping.

```
brandon@brandon-HP-EliteDesk:/etc/snort$ ping -c 4 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=117 time=23.2 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=117 time=16.5 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=117 time=20.5 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=117 time=18.5 ms

--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 16.511/19.679/23.155/2.458 ms
brandon@brandon-HP-EliteDesk:/etc/snort$
```

Here we did a ping to google.

```
12/19-20:27:14.499094  [**] [1:1000001:1] ICMP Ping detected! [**] [Priority: 0] {ICMP} 1
92.168.1.12 -> 8.8.8.8
12/19-20:27:14.522210  [**] [1:1000001:1] ICMP Ping detected! [**] [Priority: 0] {ICMP} 8
.8.8.8 -> 192.168.1.12
12/19-20:27:15.500013  [**] [1:1000001:1] ICMP Ping detected! [**] [Priority: 0] {ICMP} 1
92.168.1.12 -> 8.8.8.8
12/19-20:27:15.516489  [**] [1:1000001:1] ICMP Ping detected! [**] [Priority: 0] {ICMP} 8
.8.8.8 -> 192.168.1.12
12/19-20:27:16.500969  [**] [1:1000001:1] ICMP Ping detected! [**] [Priority: 0] {ICMP} 1
92.168.1.12 -> 8.8.8.8
12/19-20:27:16.521466  [**] [1:1000001:1] ICMP Ping detected! [**] [Priority: 0] {ICMP} 8
.8.8.8 -> 192.168.1.12
12/19-20:27:17.502672  [**] [1:1000001:1] ICMP Ping detected! [**] [Priority: 0] {ICMP} 1
92.168.1.12 -> 8.8.8.8
12/19-20:27:17.521167  [**] [1:1000001:1] ICMP Ping detected! [**] [Priority: 0] {ICMP} 8
```

Here we can check that snort did alert us, and we can see what happened with the message.