How to Determine Traffic Handled by a Specific Snort Instance

Contents

Introduction

This document describes how to determine the traffic that is being handled by a specific snort instance. This detail is very useful while troubleshooting high CPU utilization on a specific snort instance.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Knowledge of Firepower Technology

Components Used

The information in this document is based on these software and hardware versions:

- Firepower Management Center 6.X and above
- Applicable to all managed devices which include Firepower Threat Defense, Firepower Modules, and Firepower Sensors

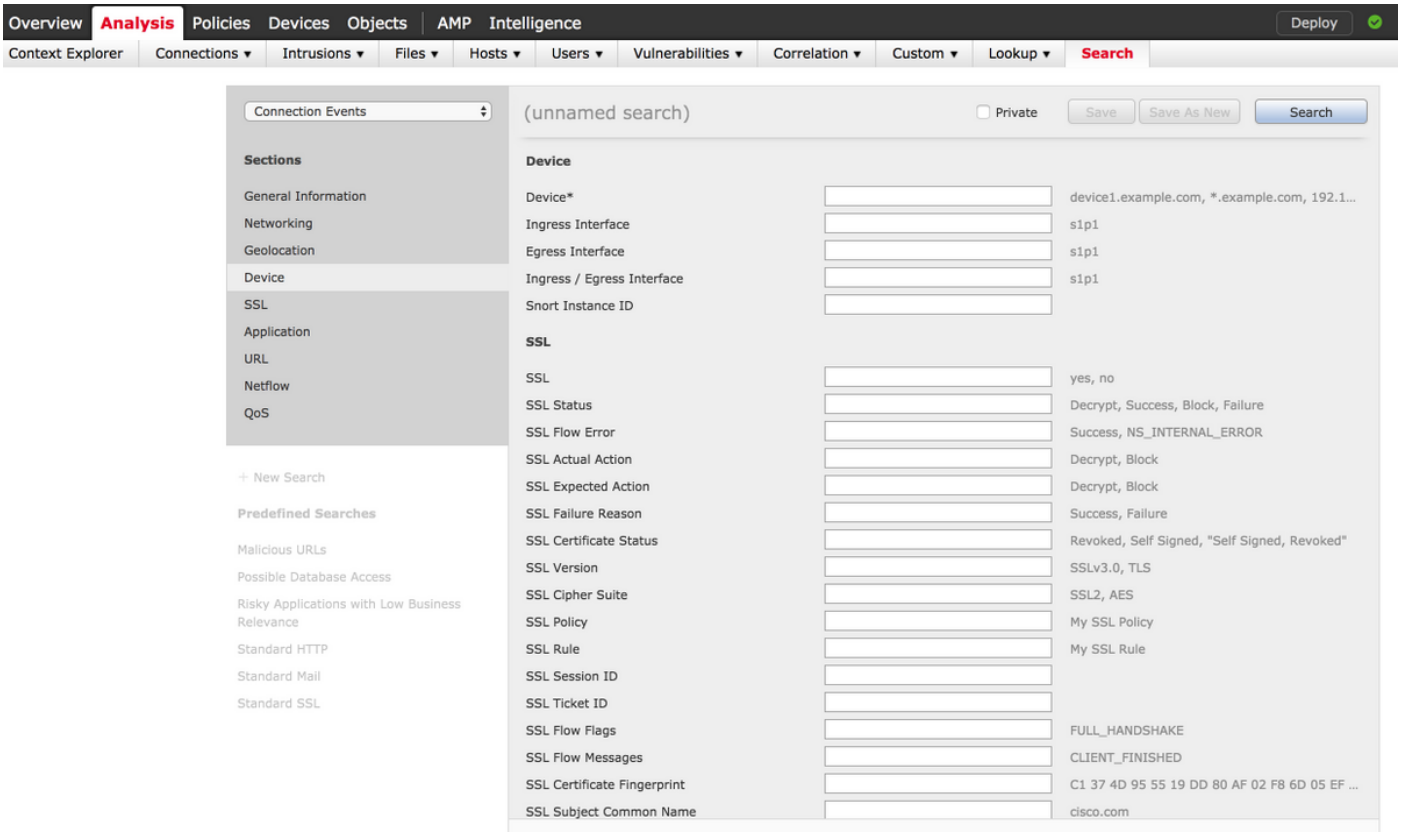
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Configure

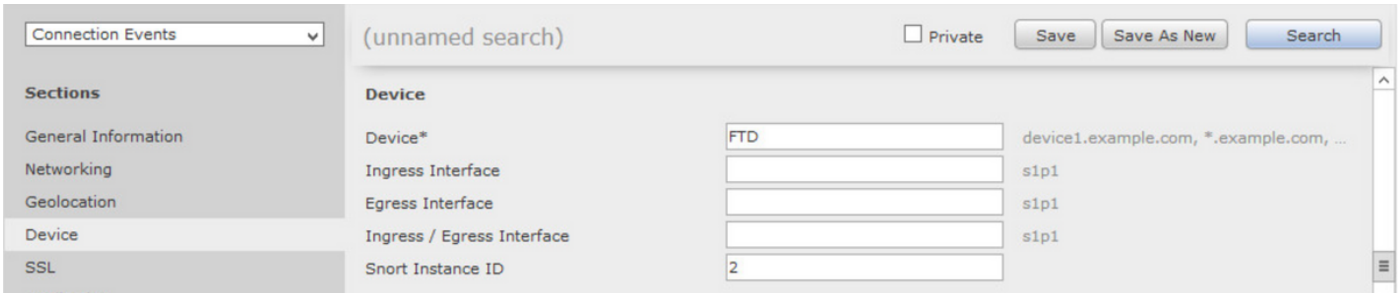
Configurations

Login to the Firepower Management Center with administration privileges.

Once the login is successful, navigate to **Analysis > Search,** as shown in the image:



Ensure that the **Connection Events** table is chosen from the drop down and then select the **Device** from the section. Enter values for the Device field and Snort Instance ID (0 to N, the number of snort instances depend on the managed device), as shown in the image:



Once the values are entered, click **Search** and the result would be connection events that are triggered by the specific snort instance.

> **Note**: If managed device is Firepower Threat Defense, you can determine the snort instances using FTD CLISH mode.

```
> show asp inspect-dp snort
SNORT Inspect Instance Status Info Id Pid Cpu-Usage Conns Segs/Pkts Status tot (usr | sys) -- --
--- ---------------- ---------- ---------- ---------- 0 5266 0% ( 0%| 0%) 0 0 READY 1 5268 0% (
0%| 0%) 0 0 READY 2 5267 0% ( 0%| 0%) 0 0 READY 3 5270 0% ( 0%| 0%) 0 0 READY 4 5269 0% ( 0%|
0%) 0 0 READY
```

Note: If the managed device is Firepower Module or Firepower Sensor, you can determine the snort instances using the expert mode and Linux based **top** command.

```
admin@firepower:~$ top
  PID USER      PR  NI  VIRT  RES  SHR S %CPU %MEM    TIME+  COMMAND
 5247 root      20   0 15248 1272  932 S    0  0.0   0:03.05 top
 5264 root       1 -19 1685m 461m  17m S    0  2.9   1:05.26 snort
```

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.