启用带有恶意软件的文件策略访问控制

目录

简介

本文档介绍如何使用SFDataCorrelator进程分配到snort以对检测到的文件执行SHA查找。

先决条件

- 保护和恶意软件许可证
- 使用恶意软件的文件策略

要求

- 5.3.0及更高版本
- ASA（所有型号）
- 7000和8000系列（AMP设备除外）
- 在ASA上运行的FTD
- 在FXOS机箱上运行的FTD

使用的组件

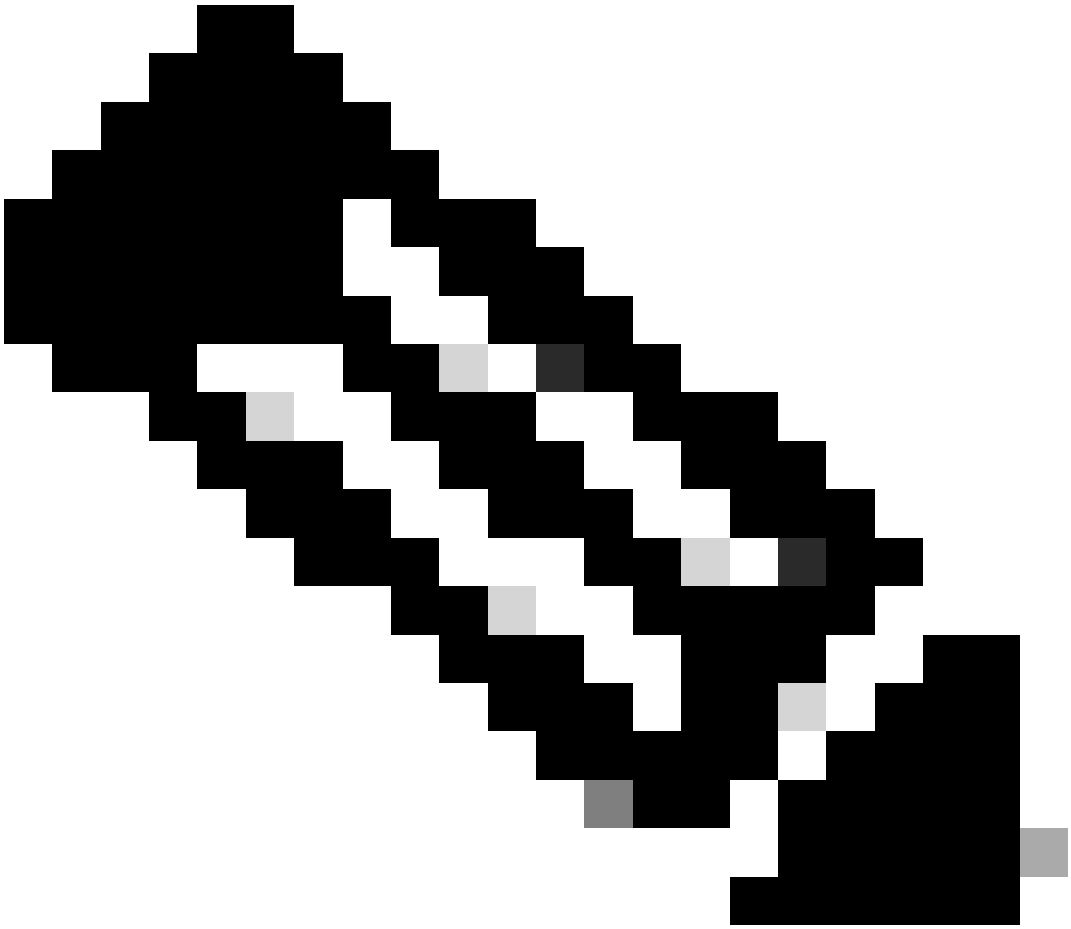
- 恶意软件

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

背景信息

在使用恶意软件操作或“存储文件”选项的文件策略中启用访问控制策略时，可以取消snort的CPU（或较大型号的两个）。

性能影响



注意：在资源较少的设备上启用恶意软件时，对性能的影响更大。

- 延迟
- 丢弃
- 高 CPU 利用率
- 更低的吞吐量

故障排除

从AC策略中删除文件策略或使用文件策略禁用AC规则。然后重新应用AC策略，将snort分配给所有可用的CPU核心。

ASA

```
root@Sourcefire3D:~# grep "SW\|MODEL" /etc/sf/ims.conf
SWVERSION=5.3.1
SWBUILD=152
MODEL_CLASS="3D Sensor"
MODELNUMBER=72
MODEL="ASA5545"
MODEL_TYPE=Sensor
MODELID=H

root@Sourcefire3D:~# pmtool show affinity
Received status (0):
Affinity Status
System CPU Affinity: 08 (desired: 08)
Process CPU Affinity:
Node 0:
CPU 0:
CPU 1:
SFDataCorrelator (/usr/local/sf/bin/SFDataCorrelator) (2, desired: 2)
CPU 2:
d54fff2a-37f7-11e4-a1bd-d47ac274f5bf-d01 (/var/sf/detection_engines/d54fff2a-37f7-11e4-a1bd-d47ac274f5b
CPU 3:
CPU 4:
d54fff2a-37f7-11e4-a1bd-d47ac274f5bf-d02 (/var/sf/detection_engines/d54fff2a-37f7-11e4-a1bd-d47ac274f5b
CPU 5:
d54fff2a-37f7-11e4-a1bd-d47ac274f5bf-d03 (/var/sf/detection_engines/d54fff2a-37f7-11e4-a1bd-d47ac274f5b
Device Affinity (0 PENDING):
kvm_ivshmem (desired: 01):
10: kvm_ivshmem (01)
Process Affinity:
SFDataCorrelator (desired: 02, actual: 02)
```

7000和800系列

```
root@8250a-sftac:~# grep "SW\|MODEL" /etc/sf/ims.conf
SWVERSION=5.3.0
SWBUILD=571
MODEL_CLASS="3D Sensor"
MODELNUMBER=63
MODEL="3D8250"
MODEL_TYPE=Sensor
MODELID=C
root@8250a-sftac:~# pmtool show affinity
Received status (0):
Affinity Status
System CPU Affinity: fffff0 (desired: fffff0)
Process CPU Affinity:
Node 0:
CPU 0:
CPU 2:
SFDataCorrelator (/usr/local/sf/bin/SFDataCorrelator) (c, desired: c)
CPU 4:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d01 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 6:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d03 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 8:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d05 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 10:
```

```
3a3b8424-c8d3-11e4-98f5-1d2068538813-d07 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 12:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d09 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 14:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d10 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 16:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d02 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 18:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d04 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 20:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d06 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 22:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d08 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
Node 1:
CPU 1:
CPU 3:
SFDataCorrelator (/usr/local/sf/bin/SFDataCorrelator) (c, desired: c)
CPU 5:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d11 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 7:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d12 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 9:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d13 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 11:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d14 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 13:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d15 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 15:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d16 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 17:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d17 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 19:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d18 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 21:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d19 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
CPU 23:
3a3b8424-c8d3-11e4-98f5-1d2068538813-d20 (/var/sf/detection_engines/3a3b8424-c8d3-11e4-98f5-1d206853881
Endpoint CPUs:
c0e1: 0 (desired: -1)
c1e1: 1 (desired: -1)
Process Affinity:
SFDataCorrelator (desired: 0c, actual: 0c)
```

FTD

在所有FTD平台上，前面的pmtool show affnity命令都可以在访问SSH后从最初的“>”提示符下运行。例如：

Cisco Fire Linux OS v6.2.1 (build 6)
Cisco Firepower 2110 Threat Defense v6.2.1 (build 327)

> pmtool show affinity
Received status (0):

Affinity Status

System CPU Affinity: 0 (desired: 0)

Process CPU Affinity:
CPU 0:
CPU 1:
65a99306-360b-11e7-a8f4-5671cccf5a71-d01 (/ngfw/var/sf/detection_engines/65a99306-360b-11e7-a8f4-5671cccf5a71/snort) (?, desired: 1,5)
CPU 2:
65a99306-360b-11e7-a8f4-5671cccf5a71-d02 (/ngfw/var/sf/detection_engines/65a99306-360b-11e7-a8f4-5671cccf5a71/snort) (?, desired: 2,6)
CPU 3:
65a99306-360b-11e7-a8f4-5671cccf5a71-d03 (/ngfw/var/sf/detection_engines/65a99306-360b-11e7-a8f4-5671cccf5a71/snort) (?, desired: 3,7)
CPU 4:
CPU 5:
65a99306-360b-11e7-a8f4-5671cccf5a71-d01 (/ngfw/var/sf/detection_engines/65a99306-360b-11e7-a8f4-5671cccf5a71/snort) (?, desired: 1,5)
CPU 6:
65a99306-360b-11e7-a8f4-5671cccf5a71-d02 (/ngfw/var/sf/detection_engines/65a99306-360b-11e7-a8f4-5671cccf5a71/snort) (?, desired: 2,6)
CPU 7:
65a99306-360b-11e7-a8f4-5671cccf5a71-d03 (/ngfw/var/sf/detection_engines/65a99306-360b-11e7-a8f4-5671cccf5a71/snort) (?, desired: 3,7)

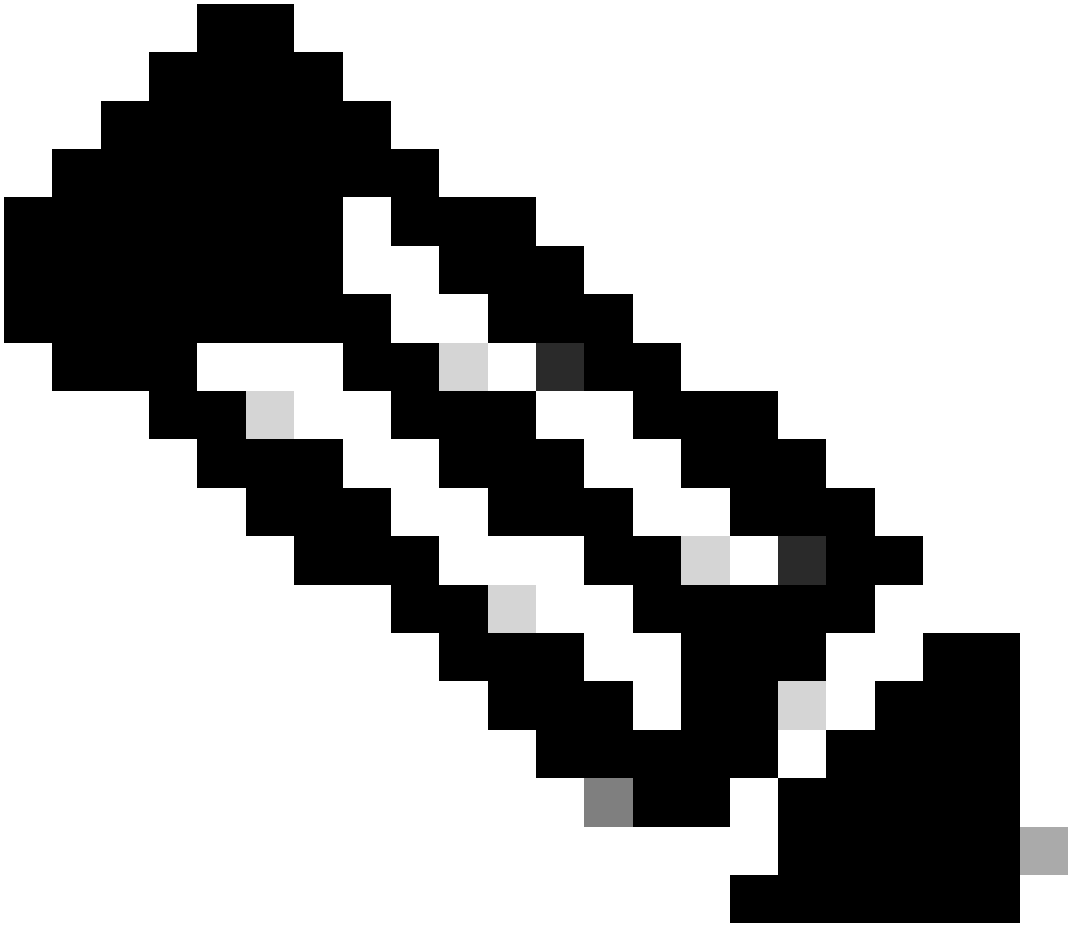
在故障排除文件中，pmtool show affnity命令输出在command-outputs目录中。文件的名称是：**usr-local-sf-bin-pmtool show affinity.output**

如果在较大设备的故障排除上运行，则输出可能相当长。下面是一些grep命令，用于明确指示分配给snort和SFDataCorrelator进程的CPU数量。

[user@tex command-outputs]$ grep snort usr-local-sf-bin-pmtool\ show\ affinity.output |wc -l
46

[user@tex command-outputs]$ grep "/SFDataC" usr-local-sf-bin-pmtool\ show\ affinity.output |wc -l
2

上一个输出来自当前最大设备(FPR-9300 SM-44)。如您所见，有46个CPU分配给snort，2个CPU分配给SFDataCorrelator（因为已启用恶意软件策略）。



注意：在这些情况下，TS分析无法正确显示整个DE性能图表

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