Use Firepower Threat Defense Captures and Packet Tracer

Contents

ntroduction
<u>rerequisites</u>
Requirements
Components Used
sackground Information
FTD Packet Processing
<u>Configure</u>
Network Diagram
Work with Snort Engine Captures
Prerequisites
Requirements
Solution
Work with Snort Engine Captures Requirements
Solution
Tcpdump Filter Examples
Work with FTD LINA Engine Captures Programments
Requirements Solution
Work with FTD LINA Engine Captures – Export a Capture via HTTP
Requirements Solution
Work with FTD LINA Engine Captures - Export a Capture via FTP/TFTP/SCP
Requirements
Solution
Work with FTD LINA Engine Captures – Trace a Real Traffic Packet
Requirements
Solution
Capture Tool in Post-6.2 FMC Software Versions
Workaround – Use the FTD CLI
Trace a Real Packet on Post-6.2 FMC
FTD Packet Tracer Utility
Requirements
Solution
Packet Tracer UI Tool in Post-6.2 FMC Software Versions

Introduction

Related Information

This document describes how to use Firepower Threat Defense (FTD) captures and Packet Tracer utilities.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

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

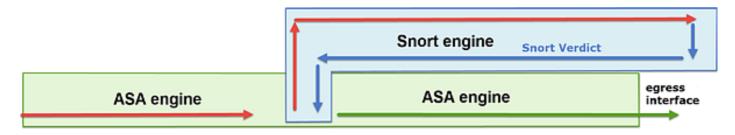
- ASA5515-X that runs FTD software 6.1.0
- FPR4110 that runs FTD software 6.2.2
- FS4000 that runs Firepower Management Center (FMC) software 6.2.2

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, ensure that you understand the potential impact of any command.

Background Information

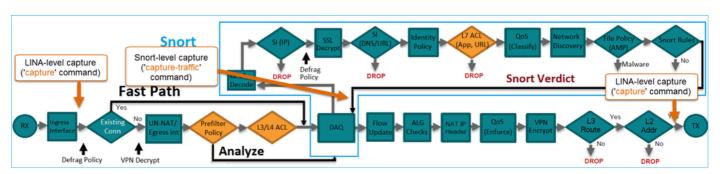
FTD Packet Processing

The FTD packet processing is visualized as follows:



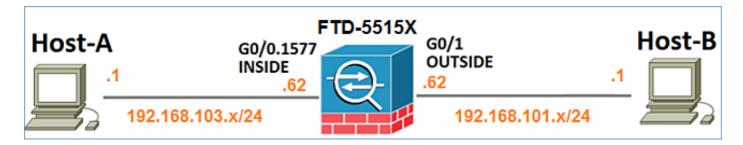
- 1. A packet enters the ingress interface, and it is handled by the LINA engine.
- 2. If the policy requires the packet to be inspected by the Snort engine.
- 3. The Snort engine returns a verdict for the packet.
- 4. The LINA engine drops or forwards the packet based on Snort's verdict.

Based on the architecture, the FTD captures can be taken in these places:



Configure

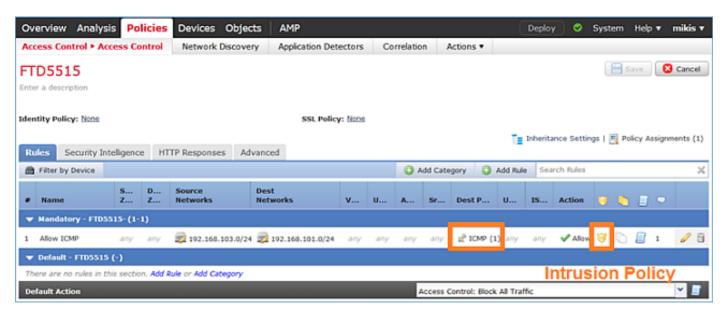
Network Diagram



Work with Snort Engine Captures

Prerequisites

There is an Access Control Policy (ACP) applied on FTD that allows Internet Control Message Protocol (ICMP) traffic to go through. The policy also has an Intrusion Policy applied:



Requirements

- 1. Enable capture on FTD CLISH mode without a filter.
- 2. Ping through the FTD and check the captured output.

Solution

Step 1. Log in to the FTD console or SSH to the br1 interface and enable capture on FTD CLISH mode without a filter.

<#root>
>
capture-traffic

Please choose domain to capture traffic from:
 0 - br1

```
1 - Router
Selection?
Please specify tcpdump options desired.
(or enter '?' for a list of supported options)
Options:
On FTD 6.0.x, the command is:
<#root>
system support
capture-traffic
Step 2. Ping through FTD and check the captured output.
<#root>
capture-traffic
Please choose domain to capture traffic from:
 0 - br1
 1 - Router
Selection?
Please specify tcpdump options desired.
(or enter '?' for a list of supported options)
Options:
12:52:34.749945 IP olab-vl603-gw.cisco.com > olab-vl647-gw.cisco.com: ICMP echo request, id 0, seq 1, le
12:52:34.749945 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 0, seq 1, length
12:52:34.759955 IP olab-vl603-gw.cisco.com > olab-vl647-gw.cisco.com: ICMP echo request, id 0, seq 2, le
12:52:34.759955 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 0, seq 2, length
12:52:34.759955 IP olab-vl603-gw.cisco.com > olab-vl647-gw.cisco.com: ICMP echo request, id 0, seq 3, 16
12:52:34.759955 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 0, seq 3, length
12:52:34.759955 IP olab-vl603-gw.cisco.com > olab-vl647-gw.cisco.com: ICMP echo request, id 0, seq 4, le
12:52:34.759955 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 0, seq 4, length
     <- to exit press CTRL + C
```

Work with Snort Engine Captures

Requirements

- 1. Enable capture on FTD CLISH mode with the use of a filter for IP 192.168.101.1.
- 2. Ping through FTD and check the captured output.

Solution

Step 1. Enable capture on FTD CLISH mode with the use of a filter for IP 192.168.101.1.

```
<#root>
>
capture-traffic

Please choose domain to capture traffic from:
    0 - br1
    1 - Router

Selection?

1

Please specify tcpdump options desired.
(or enter '?' for a list of supported options)
Options:
host 192.168.101.1
```

Step 2. Ping through the FTD and check the captured output:

```
13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 0, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 1, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 2, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 3, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl647-gw.cisco.com > olab-vl603-gw.cisco.com: ICMP echo reply, id 3, seq 4, lend 13:28:36.079982 IP olab-vl603-gw.cisco.com > olab-v
```

You can use the **-n** option to see the hosts and port numbers in numeric format. For example, the earlier capture is shown as:

```
<#root>
>
capture-traffic

Please choose domain to capture traffic from:
    0 - br1
    1 - Router
```

```
Selection?
Please specify tcpdump options desired.
(or enter '?' for a list of supported options)
Options:
-n host 192.168.101.1
13:29:59.599959 IP 192.168.101.1 > 192.168.103.1: ICMP echo reply, id 5, seq 0, length 80
13:29:59.599959 IP 192.168.101.1 > 192.168.103.1: ICMP echo reply, id 5, seq 1, length 80
13:29:59.599959 IP 192.168.101.1 > 192.168.103.1: ICMP echo reply, id 5, seq 2, length 80
13:29:59.599959 IP 192.168.101.1 > 192.168.103.1: ICMP echo reply, id 5, seq 3, length 80
13:29:59.599959 IP 192.168.101.1 > 192.168.103.1: ICMP echo reply, id 5, seq 4, length 80
Tcpdump Filter Examples
Example 1:
In order to capture Src IP or Dst IP = 192.168.101.1 and Src port or Dst port = TCP/UDP 23, enter this
command:
<#root>
Options:
-n host 192.168.101.1 and port 23
Example 2:
In order to capture Src IP = 192.168.101.1 and Src port = TCP/UDP 23, enter this command:
<#root>
Options:
-n src 192.168.101.1 and src port 23
Example 3:
In order to capture Src IP = 192.168.101.1 and Src port = TCP 23, enter this command:
<#root>
```

Options:

-n src 192.168.101.1 and tcp and src port 23

Example 4:

In order to capture Src IP = 192.168.101.1 and see the MAC address of the packets add the 'e' option, and enter this command:

```
<#root>
Options:
-ne

src 192.168.101.1

17:57:48.709954

6c:41:6a:a1:2b:f6 > a8:9d:21:93:22:90,
    ethertype IPv4 (0x0800), length 58: 192.168.101.1.23 > 192.168.103.1.25420:
    Flags [S.], seq 3694888749, ack 1562083610, win 8192, options [mss 1380], length 0
```

Example 5:

In order to exit after you capture 10 packets, enter this command:

```
<#root>
Options:
-n -c 10 src 192.168.101.1

18:03:12.749945 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [.], ack 3758037348, win 32768, length 18:03:12.749945 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [P.], ack 1, win 32768, length 2 18:03:12.949932 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [P.], ack 1, win 32768, length 10 18:03:13.249971 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [.], ack 3, win 32768, length 0 18:03:13.249971 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [P.], ack 3, win 32768, length 0 18:03:13.279969 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [.], ack 5, win 32768, length 0 18:03:13.279969 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [P.], ack 5, win 32768, length 10 18:03:13.309966 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [.], ack 7, win 32768, length 0 18:03:13.309966 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [.], ack 7, win 32768, length 0
```

Example 6:

In order to write a capture to a file with the name **capture.pcap** and copy it via FTP to a remote server, enter this command:

18:03:13.349972 IP 192.168.101.1.23 > 192.168.103.1.27287: Flags [.], ack 9, win 32768, length 0

```
<#root>
Options:

-w capture.pcap host 192.168.101.1
CTRL + C <- to stop the capture
> file copy 10.229.22.136 ftp / capture.pcap
```

Enter password for ftp@10.229.22.136: Copying capture.pcap Copy successful.

,

Work with FTD LINA Engine Captures

Requirements

1. Enable two captures on FTD with the use of these filters:

Source IP	192.168.103.1
Destination IP	192.168.101.1
Protocol	ICMP
Interface	INSIDE
Source IP	192.168.103.1
Destination IP	192.168.101.1
Protocol	ICMP
Interface	OUTSIDE

2. Ping from Host-A (192.168.103.1) to Host-B (192.168.101.1) and check the captures.

Solution

Step 1. Enable the captures:

```
<#root>
```

- > capture CAPI interface INSIDE match icmp host 192.168.103.1 host 192.168.101.1
- > capture CAPO interface OUTSIDE match icmp host 192.168.101.1 host 192.168.103.1

Step 2. Check the captures in the CLI.

```
C:\Users\cisco>ping 192.168.101.1

Pinging 192.168.101.1 with 32 bytes of data:

Reply from 192.168.101.1: bytes=32 time=4ms TTL=255

Reply from 192.168.101.1: bytes=32 time=5ms TTL=255

Reply from 192.168.101.1: bytes=32 time=1ms TTL=255

Reply from 192.168.101.1: bytes=32 time=1ms TTL=255
```

```
<#root>
> show capture
capture CAPI type raw-data interface INSIDE [Capturing
- 752 bytes
]
  match icmp host 192.168.103.1 host 192.168.101.1
capture CAPO type raw-data interface OUTSIDE [Capturing
- 720 bytes
]
  match icmp host 192.168.101.1 host 192.168.103.1
```

The two captures have different sizes due to the Dot1Q header on the INSIDE interface, as shown in this output example:

```
<#root>
> show capture CAPI
8 packets captured
   1: 17:24:09.122338
802.1Q vlan#1577
PO 192.168.103.1 > 192.168.101.1: icmp: echo request
   2: 17:24:09.123071 802.1Q vlan#1577 P0 192.168.101.1 > 192.168.103.1: icmp: echo reply
   3: 17:24:10.121392 802.1Q vlan#1577 P0 192.168.103.1 > 192.168.101.1: icmp: echo request
   4: 17:24:10.122018 802.1Q vlan#1577 P0 192.168.101.1 > 192.168.103.1: icmp: echo reply
   5: 17:24:11.119714 802.1Q vlan#1577 P0 192.168.103.1 > 192.168.101.1: icmp: echo request
   6: 17:24:11.120324 802.1Q vlan#1577 P0 192.168.101.1 > 192.168.103.1: icmp: echo reply
   7: 17:24:12.133660 802.1Q vlan#1577 P0 192.168.103.1 > 192.168.101.1: icmp: echo request
   8: 17:24:12.134239 802.1Q vlan#1577 P0 192.168.101.1 > 192.168.103.1: icmp: echo reply
8 packets shown
<#root>
> show capture CAPO
8 packets captured
```

Work with FTD LINA Engine Captures – Export a Capture via HTTP

Requirements

Export the captures taken in the earlier scenario with a browser.

Solution

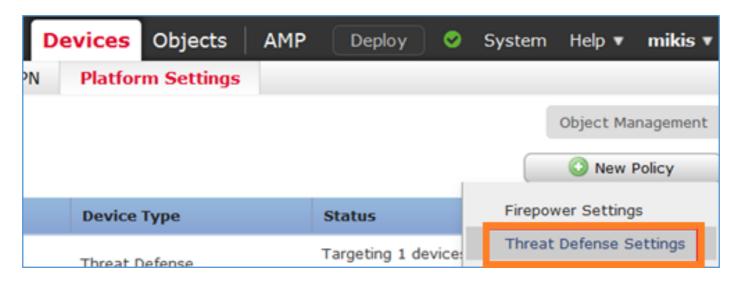
In order to export the captures with a browser, you need to:

- 1. Enable the HTTPS server.
- 2. Allow HTTPS access.

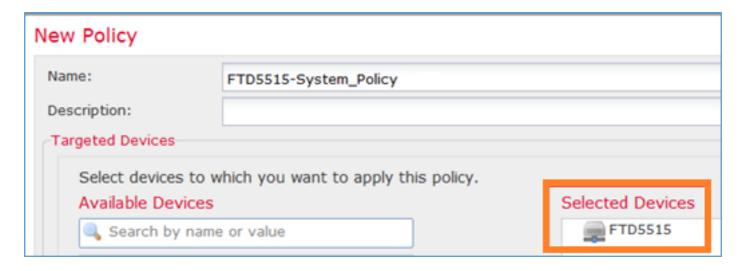
By default, the HTTPS server is disabled, and no access is allowed:

```
<#root>
>
show running-config http
>
```

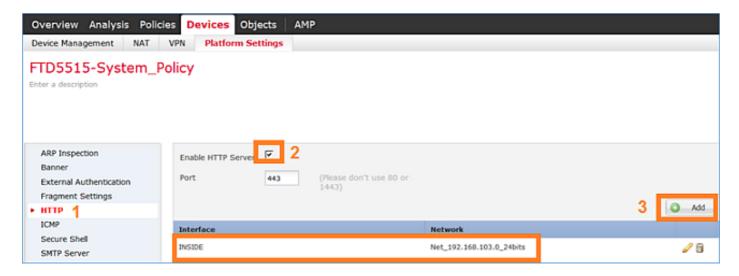
Step 1. Navigate to **Devices > Platform Settings**, click **New Policy**, and choose **Threat Defense Settings**:



Specify the Policy name and Device Target:



Step 2. Enable the HTTPS server and add the network that you want to be allowed to access the FTD device over HTTPS:



Save and Deploy.

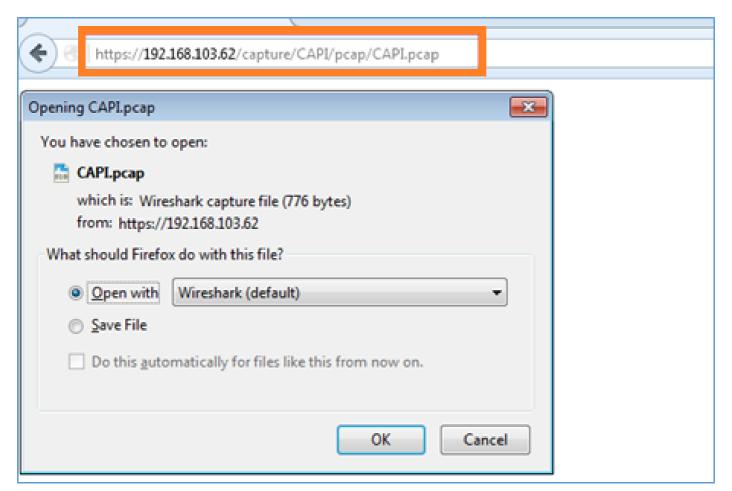
At the time of the policy deployment, you can enable **debug http** in order to see the start of the HTTP service:

```
<#root>
> debug http 255
debug http enabled at level 255.
http_enable: Enabling HTTP server
HTTP server starting.
```

The result on FTD CLI is:

```
<#root>
> unebug all
> show run http
http server enable
```

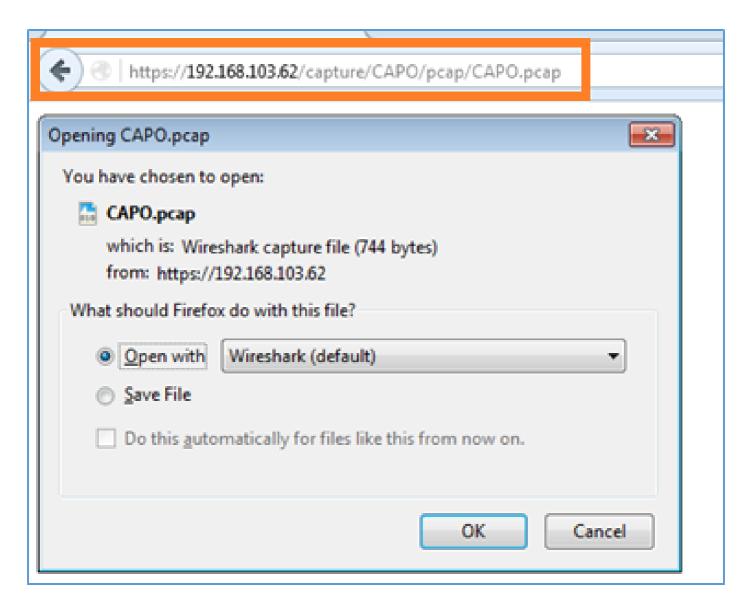
Open a browser on Host-A (192.168.103.1) and use this URL in order to download the first capture: https://192.168.103.62/capture/CAPI/pcap/CAPI.pcap.



For reference:

https://192.168.103.62/capture/CAPI/pcap/CAPI.pcap	IP of the FTD data interface where HTTP server is enabled
https://192.168.103.62/capture/CAPI/pcap/CAPI.pcap	The name of the FTD capture
https://192.168.103.62/capture/CAPI/pcap/CAPI.pcap	The name of the file that is downloaded

For the second capture, use https://192.168.103.62/capture/CAPO/pcap/CAPO.pcap.



Work with FTD LINA Engine Captures - Export a Capture via FTP/TFTP/SCP

Requirements

Export the captures taken in the earlier scenarios with Cisco IOS® protocols.

Solution

Export a capture to an FTP server:

```
<#root>
firepower

# copy /pcap capture:CAPI ftp://ftp_username:ftp_password@192.168.78.73/CAPI.pcap
Source capture name [CAPI]?

Address or name of remote host [192.168.78.73]?

Destination username [ftp_username]?

Destination password [ftp_password]?
```

```
Destination filename [CAPI.pcap]?
111111
114 packets copied in 0.170 secs
firepower#
Export a capture to a TFTP server:
<#root>
firepower
# copy /pcap capture:CAPI tftp://192.168.78.73
Source capture name [CAPI]?
Address or name of remote host [192.168.78.73]?
Destination filename [CAPI]?
111111111111111111
346 packets copied in 0.90 secs
firepower#
Export a capture to an SCP server:
<#root>
firepower#
copy /pcap capture:CAPI scp://scp_username:scp_password@192.168.78.55
Source capture name [CAPI]?
Address or name of remote host [192.168.78.55]?
Destination username [scp_username]?
Destination filename [CAPI]?
The authenticity of host '192.168.78.55 (192.168.78.55)' can't be established.
RSA key fingerprint is <cb:ca:9f:e9:3c:ef:e2:4f:20:f5:60:21:81:0a:85:f9:02:0d:0e:98:d0:9b:6c:dc:f9:af:4
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.78.55' (SHA256) to the list of known hosts.
454 packets copied in 3.950 secs (151 packets/sec)
```

firepower#

Offload captures from FTD. Currently, when you need to offload captures from FTD, the easiest method is to perform these steps:

- 1. From Lina copy /pcap capture:<cap_name> disk0:
- 2. From FPR root mv /ngfw/mnt/disk0/<cap_name> /ngfw/var/common/
- 3. From FMC UI **System > Health > Monitor > Device > Advanced Troubleshooting** and enter the **<cap_name>** in field and download.

Work with FTD LINA Engine Captures – Trace a Real Traffic Packet

Requirements

Enable a capture on FTD with these filters:

Source IP	192.168.103.1
Destination IP	192.168.101.1
Protocol	ICMP
Interface	INSIDE
Packet tracing	yes
Number of tracing packets	100

Ping from Host-A (192.168.103.1) the Host-B (192.168.101.1) and check the captures.

Solution

To trace a real packet is very useful to troubleshoot connectivity issues. It allows you to see all the internal checks that a packet goes through. Add the **trace detail** keywords and specify the number of packets that you want to be traced. By default, the FTD traces the first 50 ingress packets.

In this case, enable capture with trace detail for the first 100 packets that FTD receives on the INSIDE interface:

<#root>

> capture CAPI2 interface INSIDE trace detail trace-count 100 match icmp host 192.168.103.1 host 192.168

Ping from Host-A to Host-B and check the result:

```
C:\Users\cisco>ping 192.168.101.1

Pinging 192.168.101.1 with 32 bytes of data:

Reply from 192.168.101.1: bytes=32 time=2ms TTL=255

Reply from 192.168.101.1: bytes=32 time=2ms TTL=255

Reply from 192.168.101.1: bytes=32 time=2ms TTL=255

Reply from 192.168.101.1: bytes=32 time=8ms TTL=255

Reply from 192.168.101.1: bytes=32 time=8ms TTL=255
```

The captured packets are:

This output shows a trace of the first packet. The parts that are of interest:

- Phase 12 is where the 'forward flow' is seen. This is the LINA engine Dispatch Array (effectively the internal order of operations).
- Phase 13 is where FTD sends the packet to the Snort instance.
- Phase 14 is where the Snort Verdict is seen.

```
<#root>
> show capture CAPI2 packet-number 1 trace detail
8 packets captured
   1: 18:08:04.232989 000c.2998.3fec a89d.2193.2293 0x8100 Length: 78
      802.1Q vlan#1577 P0 192.168.103.1 > 192.168.101.1: icmp: echo request (ttl 128, id 3346)
Phase: 1
Type: CAPTURE
... output omitted ...
Phase: 12
Type: FLOW-CREATION
Subtype:
Result: ALLOW
Config:
Additional Information:
New flow created with id 195, packet dispatched to next module
Module information for forward flow ...
snp_fp_inspect_ip_options
snp_fp_snort
snp_fp_inspect_icmp
snp_fp_adjacency
```

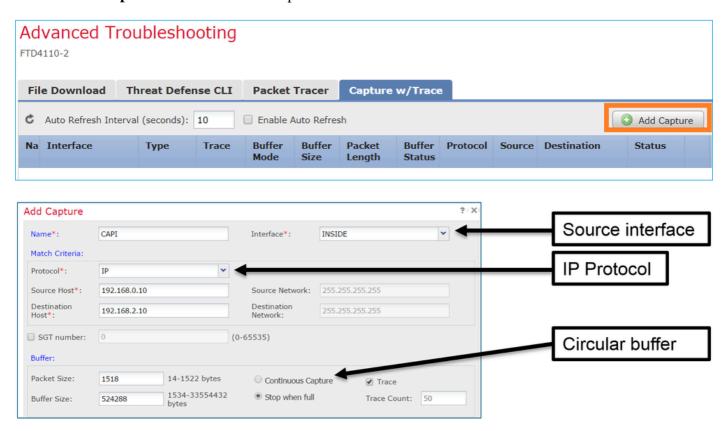
```
snp fp fragment
snp_ifc_stat
Module information for reverse flow ...
snp_fp_inspect_ip_options
snp_fp_inspect_icmp
snp_fp_snort
snp_fp_adjacency
snp_fp_fragment
snp_ifc_stat
Phase: 13
Type: EXTERNAL-INSPECT
Subtype:
Result: ALLOW
Config:
Additional Information:
Application: 'SNORT Inspect'
Phase: 14
Type: SNORT
Subtype:
Result: ALLOW
Config:
Additional Information:
Snort Verdict: (pass-packet) allow this packet
... output omitted ...
Result:
input-interface: OUTSIDE
input-status: up
input-line-status: up
output-interface: OUTSIDE
output-status: up
output-line-status: up
Action: allow
1 packet shown
```

Capture Tool in Post-6.2 FMC Software Versions

In FMC Version 6.2.x, a new packet capture wizard was introduced. Navigate to **Devices > Device**Management and click the **Troubleshoot** icon. Then choose **Advanced Troubleshooting** and finally **Capture w/Trace**.



Choose **Add Capture** to create an FTD capture:

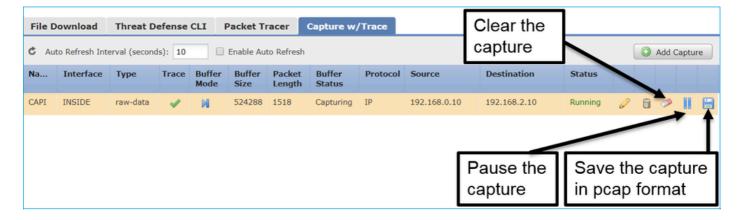


The current FMC UI limitations are:

- Cannot specify Src and Dst ports
- Only basic IP Protocols can be matched
- Cannot enable capture for LINA engine ASP Drops

Workaround - Use the FTD CLI

As soon as you apply a capture from the FMC UI the capture runs:



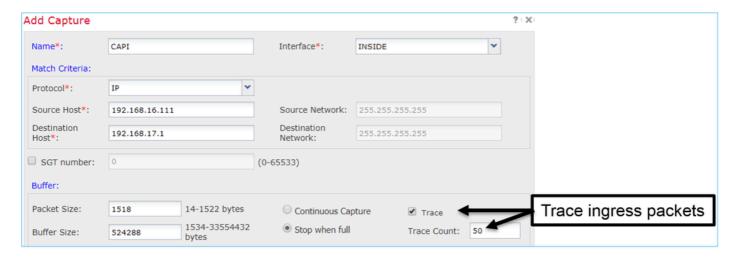
The capture on FTD CLI:

```
<#root>
> show capture

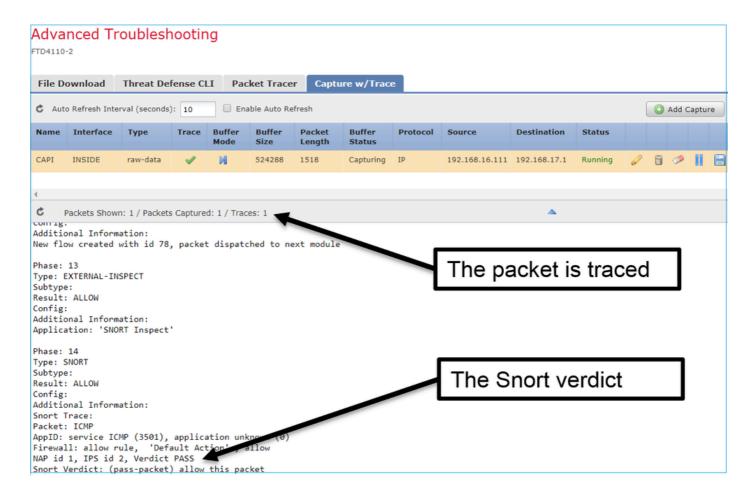
capture CAPI%intf=INSIDE% type raw-data trace interface INSIDE [Capturing - 0 bytes]
  match ip host 192.168.0.10 host 192.168.2.10
>
```

Trace a Real Packet on Post-6.2 FMC

On FMC 6.2.x, the Capture w/Trace wizard allows you to capture and trace real packets on FTD:



You can check the traced packet in the FMC UI:



FTD Packet Tracer Utility

Requirements

Use the Packet Tracer utility for this flow and check how the packet is handled internally:

Ingress interface	INSIDE
Protocol	ICMP echo request
Source IP	192.168.103.1
Destination IP	192.168.101.1

Solution

Packet Tracer generates a **virtual packet**. As shown in this example, the packet is subject to Snort inspection. A capture taken at the same time at Snort-level (**capture-traffic**) shows the ICMP echo request:

<#root>

> packet-tracer input INSIDE icmp 192.168.103.1 8 0 192.168.101.1

```
Phase: 1
```

Type: CAPTURE Subtype: Result: ALLOW

Config:

Additional Information:

MAC Access list

Phase: 2

Type: ACCESS-LIST

Subtype: Result: ALLOW

Config:

Implicit Rule

Additional Information:

MAC Access list

Phase: 3

Type: ROUTE-LOOKUP

Subtype: Resolve Egress Interface

Result: ALLOW

Config:

Additional Information:

found next-hop 192.168.101.1 using egress ifc OUTSIDE

Phase: 4

Type: ACCESS-LIST Subtype: log Result: ALLOW

Config:

access-group CSM_FW_ACL_ global

access-list CSM_FW_ACL_ advanced permit ip 192.168.103.0 255.255.255.0 192.168.101.0 255.255.255.0 rule

access-list CSM_FW_ACL_ remark rule-id 268436482: ACCESS POLICY: FTD5515 - Mandatory/1

access-list CSM_FW_ACL_ remark rule-id 268436482: L4 RULE: Allow ICMP

Additional Information:

This packet is sent to snort for additional processing where a verdict is reached

... output omitted ...

Phase: 12

Type: FLOW-CREATION

Subtype:
Result: ALLOW

Config:

Additional Information:

New flow created with id 203, packet dispatched to next module

Phase: 13 Type: SNORT Subtype: Result: ALLOW

Config:

Additional Information:

Snort Trace:
Packet: ICMP

AppID: service ICMP (3501), application unknown (0)

Firewall: allow rule, id 268440225, allow

NAP id 2, IPS id 0, Verdict PASS

Snort Verdict: (pass-packet) allow this packet

Packet Tracer UI Tool in Post-6.2 FMC Software Versions

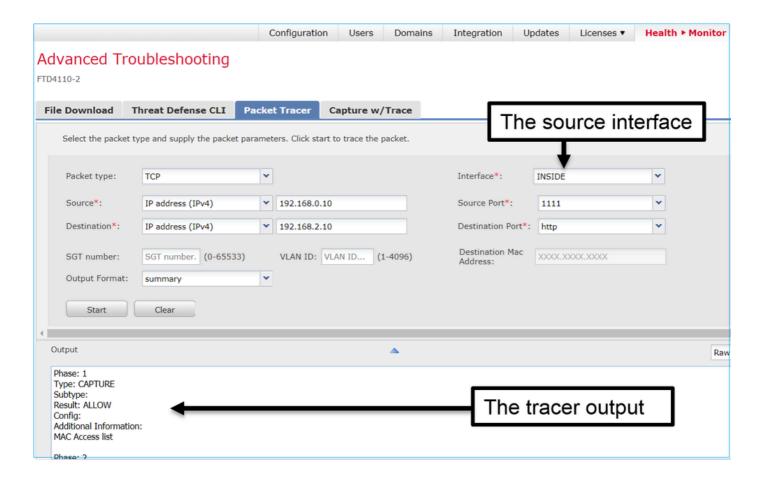
Result:

Options:

input-interface: INSIDE

In FMC Version 6.2.x, the **Packet Tracer** UI tool was introduced. The tool is accessible in the same way as the capture tool and allows you to run Packet Tracer on FTD from the FMC UI:

13:27:11.939755 IP 192.168.103.1 > 192.168.101.1: ICMP echo request, id 0, seq 0, length 8



Related Information

- Firepower Threat Defense Command Reference Guide
- Firepower System Release Notes, Version 6.1.0
- <u>Cisco Firepower Threat Defense Configuration Guide for Firepower Device Manager, Version 6.1</u>
- Technical Support & Documentation Cisco Systems