

Troubleshoot FTD 'monitor-interface' Commands Not Displayed in 'show run' after Moving from Sub-interfaces to Physical Interfaces

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Issue

After moving several sub-interfaces to physical interfaces on Firewall Threat Defense (FTD) 1140 HA pairs, the monitor-interface commands that were previously visible in the output of **show run** command output are no longer displayed in the standard configuration view. The commands now only appear when using **show run all** command output. This change occurred even for interfaces that were not modified during the migration.

Our original interfaces were:

- E1/1 net1
- E1/2.1 net2
- E1/2.2 net3
- E1/2.3 net4
- E1/2.4 inside

The new interface layout is:

- E1/1 net1
- E1/2.4 inside
- E1/3 net2
- E1/4 net3
- E1/5 net4

Prior to the interface changes, the monitor-interface commands appeared in the standard **show run** command output:

<#root>

```
device#
```

```
show running-config | include monitor-interface
```

```
monitor-interface net1  
monitor-interface net2  
monitor-interface net3  
monitor-interface net4  
monitor-interface inside  
no monitor-interface service-module
```

After moving from sub-interfaces to physical interfaces, the **show run** command output only displays a subset of the monitor-interface commands:

```
<#root>
```

```
device#
```

```
show running-config | include monitor-interface
```

```
monitor-interface inside  
no monitor-interface service-module
```

However, all monitor-interface commands are visible when running **show run all** command:

```
<#root>
```

```
device#
```

```
show running-config all | include monitor-interface
```

```
monitor-interface net1  
monitor-interface net2  
monitor-interface net3  
monitor-interface net4  
monitor-interface inside  
no monitor-interface service-module
```

This behavior change has impacted compliance monitoring policies that rely on the monitor-interface commands being visible in the standard **show run** command output.

Environment

- Cisco Firewall Threat Defense (FTD) 1140 appliances in High Availability (HA) configuration. Other hardware platforms can be also affected.
- FTD Software Version: 7.6.4. Other software versions can be also affected.
- Configuration change from sub-interfaces to physical interfaces performed.

Resolution

This behavior is expected and does not indicate a malfunction or software defect. When interfaces are changed from sub-interfaces to physical interfaces, the default monitor-interface behavior changes, and commands that match the default configuration are not explicitly displayed in the standard **show run** command output. The monitor-interface commands are still active and functional, but they are now considered default configurations for physical interfaces. Default configurations are only visible when using the **show run all** command output, which displays both explicit and default configurations.

Verification Steps

To verify that monitor-interface functionality is still active, use these commands.

Step 1: Check standard configuration display:

```
<#root>  
device#  
  
show running-config | include monitor-interface
```

Step 2: Check complete configuration including defaults:

```
<#root>  
device#  
  
show running-config all | include monitor-interface
```

Step 3: Verify failover monitoring status:

```
<#root>
```

```
device#
```

```
show failover
```

Step 4: To display information about the interfaces monitored for failover:

```
<#root>
```

```
device#
```

```
show monitor-interface
```

The difference in output between **show run** and **show run all** command outputs confirms that the monitor-interface commands are functioning as default configurations rather than explicit configurations.

Cause

- When interfaces are migrated from sub-interfaces to physical interfaces, the FTD system applies different default behaviors for monitor-interface commands.
- Physical interfaces have monitor-interface enabled by default, so these commands are not explicitly shown in the running configuration unless they differ from the default setting.
- Sub-interfaces, on the other hand, require explicit monitor-interface configuration, which is why these commands were previously visible in the standard **show run** command output.
- This is a behavioral difference between sub-interface and physical interface default configurations, not a software defect.

Related Content

- https://www.cisco.com/c/en/us/td/docs/security/asa/asa-cli-reference/S/asa-command-ref-S/m_show_is-show_m.html#wp3555445722