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.

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