



# Integrity Check of Candidate Config

This chapter describes how to perform integrity check of Candidate Config.

This chapter includes the following sections:

- [About Candidate Config, on page 1](#)
- [Guidelines and Limitations for Candidate Config Integrity Check, on page 1](#)
- [Performing Integrity Check for Candidate Config, on page 2](#)
- [Examples of Integrity Check, on page 2](#)

## About Candidate Config

Candidate config is a subset of the running-config which checks whether the Candidate config exists in the running-config without any additions or modifications or deletions.

To check the integrity of the candidate config, use the following commands:

- `show diff running-config`
- `show diff startup-config`

For more information on the CLIs, refer to [Performing Integrity Check for Candidate Config, on page 2](#).

## Guidelines and Limitations for Candidate Config Integrity Check

Candidate config integrity check has the following guidelines and limitations:

- Beginning with Cisco NX-OS Release 10.2(3)F, Candidate config integrity check option is introduced on all Cisco Nexus switches.
- If you must perform an integrity check on a full running configuration as input instead of a partial config, then it is recommended not to use the **partial** keyword.
- The line numbers that are displayed in the generated running config do not match with the candidate config as they are internally generated one.
- If there is any difference between the configuration of running and candidate, then it is displayed inline as output.

- If the whole block of configuration in the candidate file is a new addition, it will be appended at the end of the generated running config.
- When the candidate config has an SNMP or an AAA user CLI with clear-text password, the SNMP user is seen as a diff even when the user is already configured.

## Performing Integrity Check for Candidate Config

To perform the integrity check, use the following commands:

### Before you begin



**Note** Before performing the integrity check, ensure that the running config and the candidate config belong to the same image version.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>show diff running-config</b> <i>file_url</i> [unified] [partial]  <b>Example:</b> <pre>switch# show diff running-config bootflash:candidate.cfg partial unified</pre>	Displays the differences between the running and user given candidate config. <ul style="list-style-type: none"> <li>• <i>file_url</i>: File path to compare with.</li> <li>• <b>unified</b>: Displays the difference between running and user configuration in unified format.</li> <li>• <b>partial</b>: Enter <b>partial</b> only if user configuration file is partial and not a full configuration.</li> </ul>
<b>Step 2</b>	<b>show diff startup-config</b> <i>file_url</i> [ unified ]  <b>Example:</b> <pre>switch# show diff startup-config bootflash:candidate.cfg unified</pre>	Displays the differences between the startup and user given candidate config. <ul style="list-style-type: none"> <li>• <i>file_url</i>: File path to compare with.</li> <li>• <b>unified</b>: Displays the difference between startup and user configuration in unified format.</li> </ul>

## Examples of Integrity Check

### No Difference Between Running and Candidate Config

```
switch# show diff running-config bootflash:base_running.cfg
switch#
```

### Difference Between Running and Candidate

```
switch# show diff running-config bootflash:modified-running.cfg unified
--- running-config
+++ User-config
@@ -32,11 +32,11 @@

interface Ethernet1/1
    mtu 9100
    link debounce time 0
    beacon
-   ip address 2.2.2.2/24
+   ip address 1.1.1.1/24
    no shutdown

interface Ethernet1/2

interface Ethernet1/3
switch#
```

### Difference Between Running and Partial Candidate

```
switch# show file bootflash:intf_vlan.cfg
interface Vlan101
    no shutdown
    no ip redirects
    ip address 1.1.2.1/24 secondary
    ip address 1.1.1.1/24
switch#
switch# show diff running-config bootflash:intf_vlan.cfg partial unified
--- running-config
+++ User-config
@@ -3897,10 +3883,14 @@
    mtu 9100
    ip access-group IPV4_EDGE in
    ip address 2.2.2.12/26 tag 54321

    interface Vlan101
+   no shutdown
+   no ip redirects
+   ip address 1.1.2.1/24 secondary
+   ip address 1.1.1.1/24

    interface Vlan102
        description Vlan102
        no shutdown
        mtu 9100
switch#
```

