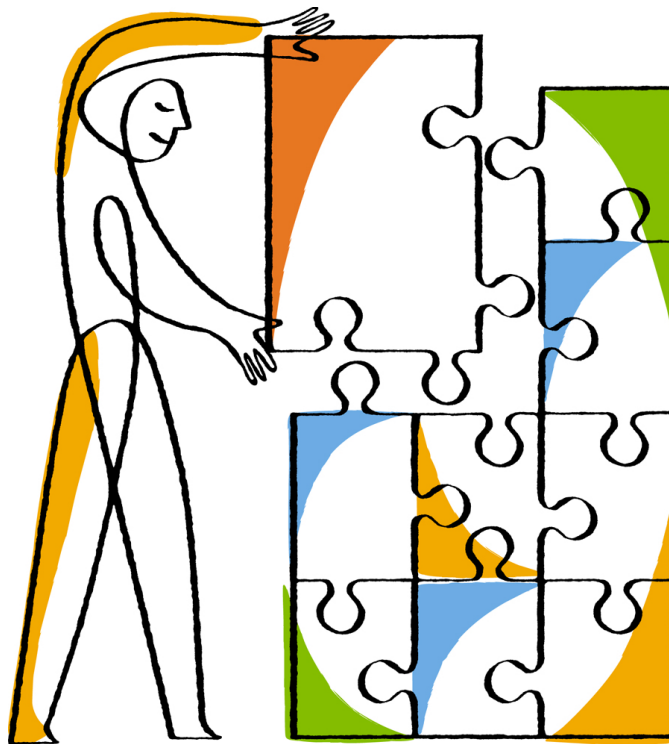




Config Advisor 3.5

Release Notes



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1 Config Advisor 3.5 – New features

Config Advisor 3.5 has the following new features:

1. Config Advisor 3.5 supports the following new hardware and software configurations:
 - Clustered Data ONTAP 8.2.2.
 - Data ONTAP 8.2.2 operating in 7-Mode
 - FAS8020, FAS8040, FAS8060 and FAS8080
 - FAS2520, FAS2552, FAS2554
 - Additional two N55-M16UP Expansion Modules on Cisco Nexus Switch 5596
 - FlexPod Datacenter design with Nexus 7000 series of Fabric Switches.
 - The latest Cluster Switch Software and Reference Configuration Files.
2. FlexPod Dashboard on the Result Viewer with Hardware and Cabling Validation
3. Supports more than two Cluster interconnects for specific controller models

2 Config Advisor 3.5 – Enhancements

The following changes have been made to Config Advisor 3.5:

1. Clustered Data ONTAP profile User Interface (UI) is enhanced to change the label **Switchless** instead of **No Switches**
2. Cabling diagram fixed for FAS2040 to show green on single path on SAS ports.
3. SAS Cabling Checks fixed for the following:
 - For FAS2200 to identify Single Controller configurations and required connectivity.
 - To show an error when FAS2200 ports on the same controller are connected to each other.
 - To enhance the error messages on FAS2200 Controller port 0a.
 - To make sure the Controller A and C ports are connected to Shelf IOM square ports and Controller B and D ports are connected to Shelf IOM circle ports except for FAS2040 where Controller D port is connected to Shelf IOM square port.
4. FlexPod Checks are categorized for Hardware and Cabling Validation.
5. FlexPod clustered Data ONTAP rules being linked on Nexus 5000 profile for enhanced performance in opening a Config Advisor result viewer.
6. Cluster Node Port Roles rule fixed for Single Node Cluster.

3 Config Advisor 3.5 – Bug fixes

The following bugs have been fixed in Config Advisor 3.5:

1. Revision Checks fixed to parse the system firmware versions with patch versions.
2. Failure to load AutoSupport IDs in 7-Mode profile due to missing header variables is fixed.
3. Test Login and Collect Data fixed to recognize device host names with underscore.
4. SAS Cabling Checks fixed for FAS2040 to expect only single path to SAS disk shelves.

4 Config Advisor 3.5 – Known issues

You must be aware of the known issues in Config Advisor and their workarounds (where available) so that you can use the product more effectively.

1. **Issue:** In some cases, the tool crashes.
Description: The crash might take place when the GUI framework crashes.
Workaround: Restart the tool, and if your task is not complete, re-attempt it. If the issue persists, report it to the technical support.
2. **Issue:** When you generate a report in Microsoft Word, an error message is displayed.
Description: The following error message is displayed: Word found unreadable content in filename. Do you want to recover the contents of this document? If you trust the source of this document, click Yes..
Workaround:
 1. In the error message dialog box, click **Yes** to view the generated .docx report.
The report is renamed Document1.
3. **Issue:** When you generate a report in Microsoft Excel, an error message is displayed.
Description: The following error message is displayed: Excel has detected a problem with this file. Opening it may be dangerous. You should not open this file unless you trust it.
Workaround:
 1. In the error message dialog box, click **Open** to view the generated report.
The report opens in Protected View.
 2. Select **Edit Anyway** to view the URLs embedded in the report.
4. **Issue:** When data is collected from the controller immediately after cabling, Config Advisor does not provide appropriate results for SAS cabling checks.
Workaround: Wait for some time after cabling for the Data ONTAP commands to reflect the cabling changes.
5. **Issue:** MetroCluster systems are not supported in Config Advisor.
Workaround: Use the Fabric MetroCluster Data Collector (FMC_DC) tool as an alternative. This tool can be downloaded from support.netapp.com/NOW/download/tools/FMC_DC/.
6. **Issue:** Config Advisor cannot identify the order of connectivity for FC-attached disk shelves (all DS14 model shelves).
Description: A set of DS14 disk shelves might be connected in such a way that Data ONTAP sees two paths to all the disks within a stack. However, the cabling between the shelves might not be as per NetApp best practices and resiliency might be compromised. This is a limitation of Data ONTAP and DS14 disk shelves.
Workaround: Perform a visual inspection of the controller-to-shelf and shelf-to-shelf cables within each shelf stack.
7. **Issue:** Config Advisor hangs or crashes in batch mode when collecting data from a large number of systems.

Description: Config Advisor hangs or crashes if the size of the data collected from the systems exceeds the system memory.

Workaround: Reduce the number of systems or increase the size of the physical memory of the system from which the data is collected.

8. **Issue:** In the Microsoft Excel and Word reports, the age of the oldest Snapshot copy is not calculated accurately if the age of the Snapshot copy is greater than one year.
Workaround: None.
9. **Issue:** The latest version of Service Processor (SP), Baseboard Management Controller (BMC), and Remote LAN Module (RLM) checked by Config Advisor are controller model based and not Data ONTAP based.
Workaround: None.
10. **Issue:** Data collection by using the Power Shell stand-alone script displays connection errors if the controller is rebooting.
Workaround: None.
11. **Issue:** During filtering of the system data using the Power Shell stand-alone script, the host name filtering option in the Data Collector and Sanitizer script only partially filters certain host names in the `rdfile /etc/hosts` command output.
Workaround: None.
12. **Issue:** When the filtering option is used using the Power Shell stand-alone script, the formatting of the command output changes at times.
Workaround: None.
13. **Issue:** After running the Data Collector and Sanitizer script on the data using the Power Shell stand-alone script, some unfiltered sensitive data might still be present in the controller log messages section of the output.
Workaround: Before processing the output, verify the log messages section to check whether any unfiltered sensitive data is present.
Note: This is applicable only when the message logs are included in the data collection process.
14. **Issue:** **Config Advisor logs** pane displays data collection failure for the following commands on versions of Data ONTAP earlier than 8.2.x
 - 7-mode command: **license show**
 - Clustered Data ONTAP commands: **storage failure show -fields mode, system license status show, vservers services dns show**

Description: These commands are not found in versions of Data ONTAP earlier than 8.2.x, and Data ONTAP version is not determined by Config Advisor during data collection. Hence these commands are displayed as failed in **Config Advisor logs** pane. After the data is collected by Config Advisor, the **Config Advisor Viewer** window, which displays the raw data at the time of data collection, does not display these commands on versions of Data ONTAP earlier than 8.2.x.

Workaround: Once data is collected by Config Advisor, the "viewer window" which displays the raw data at the time of data collection does not display these commands on Data ONTAP prior to 8.2.x

15. **Issue:** Config Advisor does not identify physical cabling faults for Optical SAS cables with non-integrated QSFP in a stack. Config Advisor does support All-in-One (AOC) Optical SAS cable.
- Description:** Config Advisor traces the physical cabling through the same serial number on both ends of the twinax SAS cables. For optical SAS cables with non-integrated QSFP, the serial numbers are different at both the ends.
- Work Around:** A best practice cabling method has been developed that enables ASIC, HBA, and port isolation for all configurations. This method also enables correct top or bottom cabling for the stacks. You should use this cabling method for all NetApp storage configurations. The Universal SAS Cabling Guide is the official source for all SAS MPHA cabling; it is available on the NetApp Support Site. The same approach can also be used for optical SAS cabling. When optical SAS cables with non-integrated QSFP are used, the physical cabling can be verified only manually.
16. **Issue:** Config Advisor does not load secure system ASUP ids on 7-Mode profile.
- Description:** On 7-Mode profile, AutoSupport (by ASUP ID) tab if a secure system ASUP ID or serial number or hostname is searched, Config Advisor throws an error "ASUP ID not found" as Config Advisor currently does not support directly loading secure system ASUP ids.
- Workaround:** Download AutoSupport text files of secure systems and load into Config Advisor using 7-Mode Profile, AutoSupport (from file) tab for configuration checks.
17. **Issue:** SAS Cabling Checks does not check for loose cables if present.
- Description:** SAS cabling checks pass even when loose cables are present if any in case it finds all the expected connections for the controller model to the SAS shelf.
- Workaround:** Manually check if any loose cables are found. Connect it as per Universal SAS and ACP cabling guide if required or remove it.

5 Config Advisor 3.5 – FlexPod checks – Known issues

You must be aware of the known issues in the FlexPod checks and their workarounds (where available) so that you can run the FlexPod checks more effectively.

- Issue:** When the service profile is in the **Associating** state, FlexPod FC Zoning Check reports the following incorrect error message:
no initiator in the zone

Description: When a service profile is in **Associating** state, a definitive value (for example, WWPN, MAC, vNIC) is not available, resulting in the incorrect error message.

Workaround: None.
- Issue:** FlexPod VLAN Correlation Check does not report an error when an undefined VLAN is created on the Virtual Port Channels (vPC) peer link.

Description: If an unidentified VLAN is created on the vPC peer link (for example, FCoE VLAN), then it causes unwanted packet forwarding and does not report an error.

Workaround: None.
- Issue:** FlexPod VLAN Correlation Check reports an error incorrectly on all targets when LACP is not enabled.

Workaround: Check if LACP is enabled, then run FlexPod VLAN Correlation Check (precondition rule).
- Issue:** If the IP and credentials of Nexus Fabric A and Nexus Fabric B are interchanged while providing the inputs on the GUI, Fabric A would be interpreted as Fabric B and vice versa. Though the switches might have the right configurations on them, this would show up as an incorrect configuration.

Description: If the configurations on Nexus Fabric A and Nexus Fabric B are interchanged on the GUI, Nexus Fabric A would be interpreted as Nexus Fabric B and Nexus Fabric B would be interpreted as Nexus Fabric A. Even though the cabling and configurations are correct, this interchange results in errors.

Note: The uplinks have to be validated taking into account the last VSAN IDs of the links.

Workaround: None.
- Issue:** Config Advisor error message lists both the Service Profile WWPNs as not added to the same Initiator Group on the Storage Controller when one of them is added.

Description: Only one of the two Service Profile WWPN's are added to an Initiator Group on the Storage Controller. Config Advisor requires that both the Service Profile WWPN's are added to the same Initiator Group on the Storage Controller. Config Advisor error message lists both the Service Profile WWPN's that is not added to the Initiator Group instead of just the one WWPN which is not added to the Initiator Group.

Workaround: Manually find out which WWPN out of the two is not added to the Initiator Group on the Storage Controller.
- Issue:** FlexPod Storage FC Uplink Rule does not error when port is not configured as target on Cluster Mode.

Description: Config Advisor checks for the port under node scope command 'system node run * fcdm config' in Cluster Mode for ports configured as target/initiator. Since the physical ports when configured as target/initiator move under cluster scope Config Advisor does not find the port details under this node scope command.

Hence it does not error for FlexPod Storage FC Uplink Rule when ports are configured as initiator on Cluster Mode.

Workaround: Manually verify that the port is configured as target on the Cluster using 'fcp adapter show -instance' on Cluster Shell.

7. **Issue:** FlexPod Storage Switch Correlation Check should pass incorrectly when vlan on ifgrp is disabled on Cluster Mode.

Description: Config Advisor does not check for the vlan enabled status on the ifgrp for FlexPod Storage Switch Correlation Check on Cluster Mode.

It just checks the physical connectivity of the interfaces configured in Storage controller ifgrp connected to the Nexus Switch.

Work Around: Manually verify if the vlan configured on Storage controller interfaces in the ifgrp connected to the Nexus Switch is UP.

8. **Issue:** FlexPod FC Zoning rule fails incorrectly for WWPNs from different Service Profiles grouped into same initiator group on Storage on a Virtual Storage Console (VSC) for VMware setup.

Description: Config Advisor FlexPod FC Zoning rule check fails if WWPNs from different Service Profiles are grouped into same initiator group on Storage.

VSC for VMware when installed on the host creates an Initiator group with WWPNs from different Service Profiles together on the Storage.

Work Around: Ignore the FlexPod FC Zoning rule failure for WWPNs from different Service Profiles grouped into same initiator group on Storage for that corresponding VSC Initiator Group on a setup with Virtual Storage Console (VSC) for VMware installed.