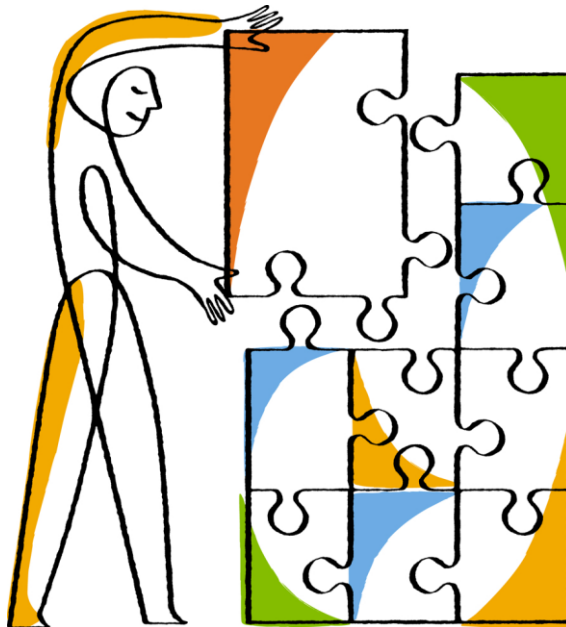




Config Advisor 4.5

Release Notes



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New features in this release

Config Advisor 4.5 has the following new features:

- ONTAP 9.0 support
- Better organization of result files
- Merged MS Word, MS Excel, and PDF reports
- Support for native AutoSupport file formats
- MS Word and MS Excel reports for plug-ins and MS Word report for ONTAP systems
- Retains Config Advisor AutoSupports locally
- Secure site install profile that disables AutoSupport posting, user registration, and restricts Telnet
- AutoSupport by ID or native file maybe used as a data source
- SAS cabling checks for SAS-2 and SAS-3 shelves
- Includes collection from the “show tech-support” command from network switches
- Keyboard and mouse accessibility improvements
- Application data folder and install directory made configurable
- Known issue notification
- Support for 8-node MetroCluster in clustered Data ONTAP
- SAS cabling diagrams for SAS-2 shelves (Beta feature)

FlexPod 1.1 has the following new features:

- Support for UCS Mini
- FlexPod Direct-attach storage
- Multi-node cluster support for FlexPod
- Additional rules for FlexPod – iSCSI profile

Fixed issues

V4.5 Bug Fixes

- AFF Disk Ownership - Config Advisor should check for disk numbers assigned to each node in the HA Cluster.
- "DNS Configured Check" rule parser fails if Vserver name has "admin" or "data" words in it.
- PDF report does not list the rules that failed(high/medium/low).
- Cluster Node Connect To Cluster Switch - Update rule to correct ports to be connected to each switch.
- "Cluster Switch Software Version" throws high impact error for FASTPATH 1.2.0.7.
- Cluster Node Port Roles - Re-design the rule logic to consider management LIFs. configured on ports other than e0M.
- FlexPod FCoE Uplink Ports Check - Update the rule to handle UCSM 2.6.
- Disable telnet for data collection in case of secure-sites and government organizations.
- Remove ARS rules that are targeted for internal users only.
- If CDP is disabled in ONTAP > 8.2.1 Config Advisor shows “Cluster Node Connect to Mgmt Switch” and “Mgmt Switch ISL Ports” rule failures.
- Resource binary - Disk model missing in the disk_models.csv.
- Removed Max Flex Vol Checks and re-designed Max Snapshots Checks.
- DNS and NTP checks should not be run on system SVM.
- FlexPod LCM - Recommended UCSM Version is not correct.
- FlexPod LCM - Config Advisor does not show recommendation for all hosts if any VIC Model is not available in mapping file but supported by NetApp Interoperability Matrix Tool.
- Data Collection - Remove unused command from data collection for service processor status.
- Config Advisor runs out of memory during data collection issue from large UCS cluster.

- Config Advisor gets stuck while collecting data from a 8-node cluster.

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 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:

- a) In the error message dialog box, click **Open** to view the generated report.
 - b) The report opens in Protected View.
 - c) Select **Edit Anyway** to view the URLs embedded in the report.
3. **Issue:** Config Advisor does not provide appropriate results for SAS cabling checks when the data is collected immediately after cabling.

Description: SAS cabling checks may not show correct results when the data is collected using Config Advisor immediately after cabling, as ONTAP command output takes some time to show accurate results.

Workaround: Wait for three to five minutes after cabling, so that ONTAP stabilizes and reflects the cabling changes.

- a) Wait time is subject to number of disk shelves and path configuration.
- b) If an erroneous path is configured, system may run into panic or might take a longer time to settle down.

4. **Issue:** 7-Mode 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/.

5. **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 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 ONTAP and DS14 disk shelves.

Workaround: Perform a visual inspection of the controller-to-shelf and shelf-to-shelf cables within each shelf stack.

6. **Issue:** Config Advisor hangs or crashes in batch mode data collection (Collect from Query Group).

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

Workaround: Disable Config Advisor AutoSupport or reduce the number of systems or increase the size of the physical memory of the system from which the data is collected.

7. **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.

8. **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 ONTAP based.

Workaround: None.

9. **Issue:** Config Advisor logs pane displays data collection failure for the following commands on versions of Data ONTAP earlier than 8.2.x.

- a) 7-Mode command: **license show**
- b) ONTAP commands: **storage failure show -fields mode, system license status show, vServer 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: After the 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.

10. **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.

Workaround: 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.

11. **Issue:** Config Advisor logs pane displays data collection failure for the following commands on versions earlier to clustered Data ONTAP earlier than 8.3.x

- a) cluster time-service ntp server show
- b) system service-processor show

Description: These commands are not found in versions of clustered Data ONTAP earlier than 8.3.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 8.3.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 8.3.x.

12. **Issue:** Config Advisor does not support Unicode directory names.

Description: If Unicode directory name/path used then Config Advisor does not recognize the path as valid path and does not generate any output and writes an error message in the common path as path not found.

Workaround: Use only English directory names. Set the locale to US.

13. **Issue:** Config Advisor rules fail or are not evaluated when device hostnames contain a period.

Description: Config Advisor rule “Cluster Node Connect to Cluster switch” and “Cluster Node Connect to Management switch” fail incorrectly when device hostnames contain a period in them. Config Advisor parser currently expects only underscore and hyphens as special characters in device hostnames. A set of rules are not evaluated as well as the hostnames with period are not identified.

Workaround: Rename the devices by replacing the hostnames either with a period, underscore, or remove the period from device hostname.

14. **Issue:** Downgrading Config Advisor is not supported.

Description: Credentials in the Default Query Group is lost when downgrading to Config Advisor 4.1 or older and again upgrading.

Workaround: Always try and use the latest Config Advisor Release as published on the [NetApp Support Site](#).

15. **Issue:** Maximize button on a low resolution screen causes UI components to overlap.

Description: When you use the maximize button on the low screen resolution that cause the interface components to overlap.

Workaround: Use the Restore Down button or switch to a higher resolution screen.

16. **Issue:** Some sections in a .7z Auto support archive file are not parsed.

Description: If there are any sections in .tgz or .7z format inside a .7z ASUP archive, then they will be skipped.

Workaround: None.

17. **Issue:** Config Advisor does not support unicode characters in the credentials fields

Description: If hostname, username or password contains German/French/any non-English letters; data collection fails as Config Advisor fails to pass those characters for authentication.

Workaround: Change hostname/username/password to contain ASCII characters only.

18. **Issue:** Config Advisor shows syntax error or crashes if merged reports are generated for large number of files.

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

Workaround: Reduce the number of reports in folder or increase the size of the physical memory of the system from which reports are generated.

19. **Issue:** Config Advisor does not consider exports in vFilers for Exports File Checks rule in 7-Mode.

Description: Config Advisor runs Exports File Checks only on the root vFiler in 7-Mode and not on non-default vFilers.

Workaround: None.

20. **Issue:** IOM model details missing in stack diagram in some cases.

Description: IOM model will not be displayed in the stack diagram if shelf number values cannot be mapped to sysconfig output, for example, when the shelf ID contain string characters (for Data ONTAP later than 8.3.0).

Workaround: None from the tool side. Shelf ID can be reset to numeric values in the controller.

21. **Issue:** Stack Diagram for SAS-3 shelves does not identify all the possible error conditions.

Description: SAS-3 shelves have the following issues in the Config Advisor stack diagram representation.

- a) Port details of stack/shelf/disk is simply sorted and not representative of the source controller
- b) Only unique ports are listed
- c) No errors are represented in the case of only 3 ports
- d) Same card error is not computed

Workaround: Cabling issues are caught by the SAS cabling rules. However there is no workaround for the stack diagram.

Secure data collector script – Known issues

1. **Issue:** Data collection by using the Power Shell standalone script displays connection errors if the controller is rebooting.

Workaround: None.

2. **Issue:** During filtering of the system data using the Power Shell standalone 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.

3. **Issue:** When the filtering option is used using the Power Shell standalone script, the formatting of the command output changes at times.

Workaround: None.

4. **Issue:** After running the Data Collector and Sanitizer script on the data using the Power Shell standalone 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.

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.

1. **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.

2. **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.

3. **Issue:** FlexPod VLAN Correlation Check reports an error incorrectly on all targets when LACP is not enabled.

Description: 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).

4. **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.

5. **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.

6. **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.

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

7. **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.

Workaround: 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.

8. **Issue:** When there is a Service Profile with One vHBA which is zoned and is in igroup and LUN is mapped, Config Advisor throws an error 'WWPN<<ServiceProfile WWPN>> is associated to Service Profile<<ServiceProfile Name>> and in the igroup<<Igroup Name>> but not zoned'.

Description: Because there is only one vHBA which goes through a Nexus Fabric and not found on another Nexus Fabric, Config Advisor throws an error.

Workaround: 'Service Profile HA Check' checks for 2 vHBA in Service Profile, if it is not available then Config Advisor throws an error. It is recommended to have 2vHBA for each Service Profile, if not modify the Service Profile to have 2 vHBAs
If 'Service Profile HA Check' failure is encountered and fixed, then the error is fixed automatically.

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