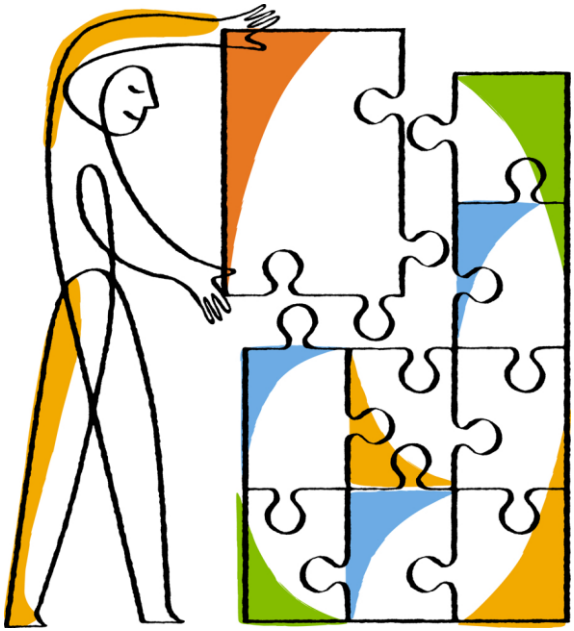
Config Advisor 4.6

Release Notes



NetApp, Inc.
495 East Java Drive
Sunnyvale, CA 94089
U.S.

Telephone: +1 (408) 822-6000
Fax: +1 (408) 822-4501
Support telephone: +1 (888) 463-8277
Web: www.netapp.com
Feedback: doccomments@netapp.com

Part number: 215-11131_A0ur001
October 2016

Contents

New features in this release **4**
Fixed issues **6**
Known issues **7**
Secure data collector script – Known issues **13**
FlexPod checks – Known issues **14**
Copyright information **17**
Trademark information **18**
How to send your comments **19**

New features in this release

Config Advisor 4.6 has the following new features:

- ONTAP 9.1 support
- Support for 3132QV cluster switch
- Serial port data collection for ONTAP
- 11 ARS checks integrated

  Additional ONTAP checks:

  - Ifgrp health check
  - Storage Virtual Machine (SVM) management LIF checks
  - Node and cluster management LIF checks
  - HA interconnect link check
  - Broadcast domain checks
  - IPspace checks
  - Secondary image consistency

FlexPod 1.2 has the following new features:

- FlexPod PDF report enhancements
- Support for FlexPod-SolidFire configurations
- Hardware EOS check

Fixed issues

V4.6 Bug Fixes

- ACP cabled and configured – false positive for a system with internal shelves only.
- Flow control recommendation on 10GB ports should apply on cluster ports.
- “Cluster switch SFP” fails for a valid SFP.
- False positive for netmask mismatch under 7-Mode checks.
- “FlexPod FC zoning storage check” fails incorrectly when the same LUN name is used in different paths.

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 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.

6. **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.

7. **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.

8. **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.

9. **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.

10. **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.

11. **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.

12. **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.

13. **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.

14. **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.

15. **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.

16. **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.

17. **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.

18. **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.

19. **Issue**: Serial data collection might not work properly for some switches.

    Description: Serial data collection from the NetApp switches (CN1610/CN1610) with earlier firmware versions might result in jumbled data output.

    Workaround: Update to latest supported version of firmware. In other cases of serial collection failure, restart of the host system used for data collection might fix the issue.

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 passes 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.

Copyright information

Copyright © 1994–2016 NetApp, Inc. All rights reserved. Printed in the U.S

No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark information

NetApp, the NetApp logo, Go Further, Faster, ASUP, AutoSupport, Campaign Express, Cloud ONTAP, clustered Data ONTAP, Customer Fitness, Data ONTAP, DataMotion, Fitness, Flash Accel, Flash Cache, Flash Pool, FlashRay, FlexArray, FlexCache, FlexClone, FlexPod, FlexScale, FlexShare, FlexVol, FPolicy, GetSuccessful, LockVault, Manage ONTAP, Mars, MetroCluster, MultiStore, NetApp Insight, OnCommand, ONTAP, ONTAPI, RAID DP, SANtricity, SecureShare, Simplicity, Simulate ONTAP, Snap Creator, SnapCopy, SnapDrive, SnapIntegrator, SnapLock, SnapManager, SnapMirror, SnapMover, SnapProtect, SnapRestore, Snapshot, SnapValidator, SnapVault, StorageGRID, Tech OnTap, Unbound Cloud, and WAFL are trademarks or registered trademarks of NetApp, Inc., in the United States, and/or other countries. A current list of NetApp trademarks is available on the web at *http://www.netapp.com/us/legal/netapptmlist.aspx*.

Cisco and the Cisco logo are trademarks of Cisco in the U.S. and other countries. All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such.

How to send your comments

You can help us to improve the quality of our documentation by sending us your feedback.

Your feedback is important in helping us to provide the most accurate and high-quality information. If you have suggestions for improving this document, send us your comments by email to *doccomments@netapp.com*. To help us direct your comments to the correct division, include in the subject line the product name, version, and operating system.

You can also contact us in the following ways:

- NetApp, Inc., 495 East Java Drive, Sunnyvale, CA 94089 U.S
- Telephone: +1 (408) 822-6000
- Fax: +1 (408) 822-4501
- Support telephone: +1 (888) 463-8277