

Inventory Collect Tool 3.2

Host and Storage Information Collection Guide

For Transition Assessment

February 2017 | 215-11994_A0 doccomments@netapp.com



Contents

Collecting storage and host inventory information	4
System requirements for running the Inventory Collect Tool	4
Storage, host, and FC switches version requirements for inventory collection	5
Preparing the 7-Mode systems and hosts for inventory collection	5
Supported configurations for generating an FC zone plan	6
Syntax and options	7
Collecting inventory and generating inventory report	8
Generating the FC zone plan1	1
Collection and assessment commands	1
Where to find information about transition assessment	8
Copyright information 19	9
Trademark information	0
How to send comments about documentation and receive update	
notifications 2	1
Index	2

Collecting storage and host inventory information

Inventory Collect Tool enables you to collect information about clustered Data ONTAP and 7-Mode systems, switches, hosts, and the applications running on these hosts and to create an inventory report. You can then import the inventory report to the 7-Mode Transition Tool for transition assessment.

The tool generates an inventory report workbook and an inventory report XML file that contain configuration details of the storage and host systems.

The Inventory Collect Tool uses TLS or SSL protocols for communicating with the 7-Mode storage systems and SSH or WMI for communicating with hosts. The tool communicates with the storage system using the TLS protocol if TLS is enabled on the storage system. If TLS is disabled and SSLv3 is enabled on a storage system, the tool uses SSLv3 to communicate with the storage system.

Note: The best practice is to enable TLS and disable SSLv3 on the storage system in order to avoid SSLv3 security vulnerabilities (CVE-2014-3566).

If you cannot install the 7-Mode Transition Tool in your environment due to security reasons, then you can import the inventory report XML file generated by the Inventory Collect Tool to 7-Mode Transition Tool (installed outside your data center) for generating an assessment report. You can use the assessment report for assessing the features and functionalities of your systems and identify how these features and functionalities work in the clustered Data ONTAP version selected for transition.

Inventory Collect Tool is a stand-alone utility that does not require any installation.

Related information

NetApp Support

System requirements for running the Inventory Collect Tool

You can download and run the Inventory Collect Tool on a Windows system. The Windows system must have the required configuration to run the Inventory Collect Tool.

- The Windows system must be one of the following:
 - 64-bit Windows 7 Enterprise
 - Windows Server 2008 R2 Enterprise with SP1 or later
 - Windows Server 2012 R2 Standard

Note: You can use a Windows virtual machine that meets the required software and hardware requirements to install the Inventory Collect Tool.

- Dual-core x64 processor (1.0 GHz or more)
- 4-GB RAM
- 40-GB HDD

You must be aware of the versions of Data ONTAP operating in 7-Mode, hosts, and FC switches from which you can collect inventory information.

For the list of 7-Mode versions, hosts, and FC switches that are supported for assessment by the Inventory Collect Tool, see the Interoperability Matrix.

NetApp Interoperability Matrix Tool

Preparing the 7-Mode systems and hosts for inventory collection

You must ensure that the 7-Mode systems and hosts meet certain network and protocol requirements for successfully generating an inventory report.

Steps

1. Enable HTTPS on the 7-Mode system:

```
options httpd.admin.ssl.enable on
```

2. Enable TLS on the 7-Mode system:

```
options tls.enable on
```

Important: The best practice is to enable TLS because of the security vulnerabilities in SSLv3.

- **3.** Enable SSL and disable SSLv2 and SSLv3 on the 7-Mode system:
 - a. Set up and start SSL:

```
secureadmin setup ssl
```

b. Enable SSL:

```
options ssl.enable on
```

c. Disable SSLv2 and SSLv3:

```
options ssl.v2.enable off options ssl.v3.enable off
```

Important: The best practice is to disable SSLv2 and SSLv3 to avoid security vulnerabilities.

- **4.** Enable SSH on the 7-Mode system:
 - a. Set up SSH on the 7-Mode system:

```
secureadmin setup -f ssh
```

The -f option forces the setup to run even if the SSH server is already configured.

b. Enable SSH:

```
secureadmin enable ssh2
```

c. Enable password authentication on the SSH server:

options ssh.passwd_auth.enable

d. Enable SSH access to the host:

options ssh.access

- **5.** Prepare your Windows host systems:
 - Enable WMI access.
 For more information about enabling WMI access, see the host documentation.
 - If you have Windows Server 2003, verify that you have installed the Microsoft Fibre Channel Information Tool (fcinfo) package and run the tool once on your Windows host system.
 This tool enables you to collect the HBA configuration information of the host.
- 6. Enable SSH on the Linux or ESXi host.

For more information about enabling SSH, see the host documentation.

- 7. Verify that you have installed the latest NetApp Host Utilities software for each host.
 For information about downloading and installing the NetApp Host Utilities software, see the NetApp Support Site.
- **8.** Verify that all the hosts and storage systems can be reached by the Windows system from which the Inventory Collect Tool is run.

Related information

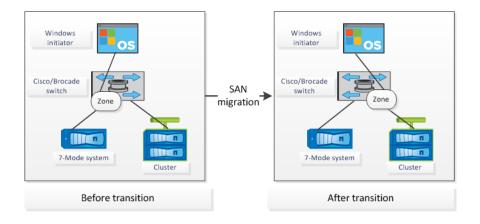
Documentation on the NetApp Support Site: mysupport.netapp.com

Supported configurations for generating an FC zone plan

You must be aware of the supported configurations of 7-Mode systems, hosts, FC switches, and the cluster to generate the FC zone plan. You should use the plan to configure zones for the cluster after migration.

The 7-Mode systems (single controller or an HA pair), hosts, and cluster can be connected either to the switches in the same fabric or different fabrics, depending on the data center requirements.

The following figure illustrates a configuration in which the 7-Mode systems, hosts, and cluster are connected to the switches in the same fabric:



The following figure illustrates a configuration in which the 7-Mode systems and cluster are connected to switches in different fabrics:

Syntax and options

Inventory Collection Tool (ICT) commands collect configuration and inventory information from controllers and hosts that are specified either in the command-line interface (CLI) or in a text file that contains system details. You can use syntax and options with the ICT commands.

Syntax

- ict --cmd collect [--output <inventory.xml>] <uri> [<uri> ...]
- ict --cmd collect [--output <inventory.xml>] --input
 <credential file.txt>
- ict --cmd generate-fc-zones --source-filers <filer-ip>[,<filer-ip>] -dest-svm <cluster-name:svm-name> --fc-switches <switch-ip>[:<vsan-id>]
 [,<switch-ip>[:<vsan-id>] ...] <inventory_xml> [<inventory_xml> ...]
- ict --cmd generate-fc-zones --source-filers <filer-ip>[<filer-ip>] dest-svm <cluster-name:svm-name> --fc-switches <switch-ip>[:<vsan-id>]
 [,<switch-ip>[:<vsan-id>] ...] --fc-switches-target <switch-ip>[:<vsan-id>][,<switch-ip>[:<vsan-id>] ...] <inventory_xml>
 [<inventory_xml> ...]
- ict --help
- ict --version

Options

The text file must contain system details of each system in a separate line:

- uri1
- uri2
- uri3

If a password is * or omitted either in the CLI or text file, then the user is prompted to enter a password in the CLI. The following options are available to run the ICT:

• --help

Shows the help message and exits.

• --version

Prints the tool version and exits.

• --cmd [collect|generate-fc-zones]

collect: Collects configuration and inventory information from controllers and hosts. generate-fc-zones: Generates FC Zone planner document on a given inventory.

• --output <filename[.xml[.gz]]>

Specifies the location where the files are generated. If the file name is suffixed with ".gz", then the file is compressed. This option generates two files (reports): Inventory Report and Inventory Report Workbook.

• --input <credentials_file.txt>

Specifies the location where the file with system credentials is saved. This option is not used in --cmd generate-fc-zones.

Note: Only ASCII encoded text file is supported.

uri format(ontap|windows|vmware|linux|cisco|brocade)://[(<user>|
 <domain_user>)[:(<password>|*)]@](<hostname>|<ip>)

Specifies the system type, IP address, and credentials of the controller or host. If the password provided is *, or if no passwords are provided, then the user is prompted to enter a password in the command line.

• --source-filers

Specifies comma-separated IP address of the source controllers to be used in generating the FC Zone Plan.

• --dest-svm

Specifies the destination clustered Data ONTAP SVM formatted as cluster-name:svm-name to be used in generating the FC Zone Plan.

• --fc-switches

Lists the FC switches for which the FC Zone Plan has to be generated. It is a comma-separated list of switch identifiers. For Cisco, FC switches should be formatted as switch-ip:vsan-id and for Brocade, FC switches should be formatted as switch-ip. For example, 10.61.187.6:200,10.61.187.7:200 (Cisco) or 10.61.187.4,10.61.187.5 (Brocade)

• --fc-switches-target

Specifies the list of FC switches (connected to the cluster) for which the FC Zone Plan has to be generated. It is a comma-separated list of target switch identifiers that are listed in the same sequence as origin FC switches (--fc-switches). The FC zoning script is generated for each origin switch added to the fc-switches parameter list. This is an optional parameter.

For FC Zone Planner, input inventory XMLs are given as unnamed arguments.

Collecting inventory and generating inventory report

You can collect information about the Data ONTAP systems (7-Mode systems and nodes of the cluster), switches, hosts, and host applications. By using this information, you can generate inventory report that contains detailed information about the 7-Mode systems, hosts, and host applications for transition assessment.

Before you begin

You must have downloaded the ict.exe file from the NetApp Support Site.

- You must have the user name, password, and IP addresses of the storage systems and hosts for which the inventory report is required.
- The user name for the storage system and hosts must have sufficient privileges to execute the commands.
- If you are adding multiple systems for inventory collection, you must have created a text file that is encoded in ASCII or UTF-8 format and contains the system details, one system per line. Each system detail must be in the following format:

```
(ontap|windows|vmware|linux|cisco|brocade)://[(domain_user\user):
[password]@](host_name|ip)
```

If you provide * as the password, you are prompted to enter the password at the command line.

- All features must be configured and their licenses must be enabled so that the workbook can contain the inventory information about the features.
- All storage system configurations, such as CIFS share names, user names, and group names, must be in the UTF-8 format.
- For the FC zone plan, the 7-Mode systems and hosts must be connected to the switch. The cluster can be connected either to the same switch as the 7-Mode system or to a new switch in the same fabric.

About this task

The Inventory Collect Tool can collect configuration information from a maximum of four controllers and 20 hosts simultaneously. However, for scaled configurations with quotas, qtrees, exports, or UNIX users and groups, it might take a significantly longer time for the inventory report to be generated.

Note: You should avoid performing inventory collection operations on active storage controllers during peak hours.

Steps

- 1. In the Windows command prompt, navigate to the path where the Inventory Collect Tool is downloaded.
- 2. Generate the inventory report by running the ict command with the system IP address and credentials:

If you want to provide information	Enter the following command	
For each system by using the command-line interface	<pre>ictcmd collectoutput filename (ontap windows vmware linux cisco brocade)://[(user domain_user)[:(password *)]@]hostname)</pre>	
	• filename is the name you want to provide for the inventory report.	
	• ontap windows vmware linux is the system type. For example, for a 7-Mode storage system, the system type is ontap and for a Linux host, the system type is linux.	
	• cisco brocade are the supported FC switches.	
	• user domain_user and password are the system credentials. If the controller has no password, you can enter the characters \"\" as the password.	
	• <i>hostname</i> is the IP address or host name of the controller, host, or switch.	
For multiple systems in a text file	<pre>ictcmd collectoutput filenameinput credentials_file.txt</pre>	
	<pre>credentials_file.txt is the text file that contains the system details and credentials for multiple systems:</pre>	
	Only text files encoded in ASCII format are supported.	
	• If you provide * as the password, you are prompted to enter the password at the command line.	
	• If the controller has no password, then you can enter "" as the password.	

Note: If your storage system is running Windows 7 or later and you have restricted privileges to the folder where the output XML file for the inventory report will be stored, the output files are automatically stored in the VirtualStore directory and the application runs as usual.

Example

The inventory report is created for a storage system and a Linux host. The reports generated are collected_data.xml and collected_data_InventoryWorkbook.xml:

```
ict --cmd collect --output collected_data ontap://
root:test123@hostname1 linux://root@hostname2
```

The estimated time required for collecting inventory information per controller is displayed.

The inventory workbook and inventory report are generated in XML format.

3. View the inventory workbook in Microsoft Excel by using Microsoft Office 2007 or later versions.

After you finish

You are ready to import the inventory report XML to the 7-Mode Transition Tool to assess the features and functionalities of the 7-Mode controller and hosts, and to identify how the features and functionalities work in the clustered Data ONTAP version selected for transition.

Generating the FC zone plan

After collecting information about the Data ONTAP systems, hosts, and FC switches, you can generate the FC zone plan, which is used to configure the switches in the cluster after migration.

Before you begin

- The 7-Mode systems, hosts, and the cluster must be connected to the switch.
- Information about the cluster, SVMs, FCP LIFs, and switches must be collected. The cluster can be connected either to the same switch as the 7-Mode system or to a new switch in the same fabric.

Supported configurations for generating an FC zone plan on page 6

Steps

- 1. In the CLI, navigate to the ICT directory.
- **2.** From the CLI, generate the FC zone plan:

```
ict --cmd generate-fc-zones --source-filers 7-mode-ip1,7mode-ip2 --dest-
svm cluster-name:vserver-name --fc-switches switch-name:vsan-id1,vsan-
id2 7mode_cdot_switch_inventory.xml
```

You must enter the VSAN ID for the Cisco switches.

Example

```
...bin\ict>ict --cmd generate-fc-zones --source-filers system1,system2 --dest-
svm vs1:fc_zone1
 --fc-switches brocade-1,brocade-2 7mode_cdot_switch_inventory.xml
```

The FC zone plan contains zones created per the igroup configurations on the 7-Mode systems. Each zone contains a single initiator WWPN and multiple SVM target WWPNs.

After you finish

In a copy-based transition, you can use the FC zone plan to configure the zones either during the precutover read/write mode to verify the cluster configuration by using the test hosts, or after the cutover phase to provide data access to the initiator hosts from the cluster.

In a copy-free transition, you must use the FC zone plan to configure the zones to group the initiator hosts and targets for providing data access from the cluster during apply configuration phase.

Collection and assessment commands

The Inventory Collect Tool (ICT) collects inventory information from controllers, hosts, and FC switches by using a list of commands to generate an inventory XML report; assesses the features and functionalities of these systems; and identifies how these features and functionalities work in the clustered Data ONTAP version that is selected for transition.

ONTAP 7-Mode APIs

- aggr-list-info
- cf-status
- cifs-homedir-paths-get

12 | Host and Storage Information Collection Guide

- o cifs-list-config
- o cifs-nbalias-names-get
- o cifs-share-acl-list-iter-start
- o cifs-share-list-iter-start
- ∘ cifs-status
- ∘ disk-list-info
- fcp-adapter-list-info
- fpolicy-list-info
- igroup-list-info
- iscsi-interface-list-info
- o iscsi-node-get-name
- license-list-info
- license-v2-list-info
- lun-get-comment
- ∘ lun-list-info
- lun-map-list-info
- o net-config-get-active
- o nfs-exportfs-list-rules
- nfs-exportfs-list-rules-2
- nfs-exportfs-list-rules-2
- o nfs-status
- options-get
- o options-list-info
- qtree-list-iter-start
- quota-list-entries-iter-start
- o quota-report-iter-start
- o registry-list-info-iter-start
- o sis-status
- snapmirror-get-status
- \circ snapmirror-list-schedule
- snapmirror-list-sync-schedule
- snapshot-get-schedule
- $^{\circ}$ snapshot-list-info

- $\circ \quad \text{snapvault-primary-relationship-status-list-iter-start}$
- snapvault-secondary-relationship-status-list-iter-start
- o snmp-status
- o storage-disk-get-iter
- system-available-replication-transfers
- o system-get-info
- o system-get-ontapi-version
- o system-get-version
- useradmin-group-list
- useradmin-role-list
- useradmin-user-list
- vfiler-get-allowed-protocols
- vfiler-get-status
- o vfiler-list-info
- volume-charmap-get
- volume-get-filer-info
- volume-get-language
- o volume-list-info-iter-start
- $^{\circ}$ volume-options-list-info

ONTAP 7-Mode CLI

- cifs shares
- o ic primary show
- ∘ ifconfig -a
- ifconfig vip
- ifgrp status
- o ls \$volumes_path/metadir/slag/
- printflag wafl_metadata_visible
- o rdfile \$root_vol/etc/cifsconfig_share.cfg
- o rdfile \$root_vol/etc/group
- rdfile \$root_vol/etc/hosts
- o rdfile \$root_vol/etc/krb5auto.conf
- o rdfile \$root_vol/etc/mcrc

- o rdfile \$root_vol/etc/netgroup
- o rdfile \$root_vol/etc/nsswitch.conf
- o rdfile \$root_vol/etc/passwd
- o rdfile \$root_vol/etc/resolv.conf
- o rdfile \$root_vol/etc/snapmirror.conf
- o rdfile \$root_vol/etc/symlink.translations
- o rdfile \$root_vol/etc/usermap.cfg
- o rdfile \$vfiler_roots/etc/cifsconfig_share.cfg
- rdfile \$vfiler_roots/etc/group
- rdfile \$vfiler roots/etc/hosts
- rdfile \$vfiler_roots/etc/krb5auto.conf
- o rdfile \$vfiler_roots/etc/mcrc
- rdfile \$vfiler_roots/etc/netgroup
- rdfile \$vfiler_roots/etc/nsswitch.conf
- rdfile \$vfiler_roots/etc/passwd
- rdfile \$vfiler_roots/etc/resolv.conf
- o rdfile \$vfiler_roots/etc/snapmirror.conf
- rdfile \$vfiler_roots/etc/symlink.translations
- rdfile \$vfiler_roots/etc/usermap.cfg
- o rlm status
- routed status
- o route -sn
- setflag wafl_metadata_visible 0
- setflag wafl_metadata_visible 1
- snapvault status -1
- ∘ sysconfig -A
- uptime
- o vfiler status -a
- vlan stat

• ONTAP 7-Mode NetApp Manageability SDK

- o cluster-identity-get
- \circ cluster-node-get-iter
- fcp-adapter-get-iter

- fcp-interface-get-iter
- ∘ lun-get-iter
- ∘ lun-map-get-iter
- net-interface-get-iter
- o system-get-node-info-iter
- $^{\circ}$ system-get-version
- volume-get-iter
- vserver-get-iter

Windows

- HKEY_LOCAL_MACHINE\\SOFTWARE\\NetApp
- HKEY_LOCAL_MACHINE\\SOFTWARE\\Wow6432Node\\Microsoft\\Windows\\CurrentVersion\\Uninstall
- select * from MPIO_Registered_DSM
- o select * from MSCluster_Cluster
- select * from MSCluster_Disk
- select * from MSCluster_Node
- select * from MSCluster_NodeToActiveResource
- select * from MSCluster_Resource
- select * from MSCluster_ResourceToDisk
- select * from MSFC_FCAdapterHBAAttributes
- select * from MSFC_FibrePortHBAAttributes
- $^{\circ}$ select * from MSiSCSI_HBAInformation
- select * from MSiSCSIInitiator_MethodClass
- select * from Win32_ComputerSystem
- select * from Win32_DiskDrive
- select * from Win32_OperatingSystem
- $^{\circ}$ select * from Win32_PnPSignedDriver where DeviceClass = "SCSIADAPTER"
- o select * from Win32_Product

• Linux CLI

- ° blkid
- o cat /boot/grub/device.map
- o cat /etc/grub.conf

esxcfg-scsidevs -l

```
o cat /etc/iscsi/initiatorname.iscsi
  cman_tool nodes
  cman_tool status
  o df -h
  o dmidecode -t system
  o find /etc -maxdepth 1 -name *-release -type f -print -exec cat -v {}
  o for file in /sys/block/sd*; do echo ${file/#\/sys}; scsi_id -p 0x80 -g
     -x -a -s ${file/#\/sys}; done
  ^{\circ}~ for file in /sys/class/scsi_host/*; do echo; for ent in file/*; do
     echo -n "$ent: "; if [ -f "${ent}" ]; then if [ -r "${ent}" ]; then
     cat -v -s ${ent} 2>/dev/null; if [ "$?" != "0" ]; then echo; fi; fi;
     else echo; fi; done; done
  o for file in /sys/class/fc_host/*; do echo; for ent in ${file}/*; do
     echo -n "$ent: "; if [ -f "${ent}" ]; then if [ -r "${ent}" ]; then
     cat -v -s ${ent} 2>/dev/null; if [ "$?" != "0" ]; then echo; fi; fi;
     else echo; fi; done; done
  o iscsiadm -m node
  o lsb_release -a
  lvdisplay -m
  o mount
  o rpm -qa --qf "%{NAME}___%{SUMMARY}___%{VENDOR}___%{PROVIDEVERSION}\n"
  o sanlun fcp show adapter -v
  o sanlun lun show -pv
  sanlun lun show -v
  sanlun version
  o san_version
  o sfdisk -uS -l
  o uname -a

    vxclustadm nidmap

    vxclustadm -v nodestate

    VMware CLI

    esxcfg-info -a -F xml

  esxcfg-mpath -l
  esxcfg-scsidevs -a
```

- esxcli software vib get
- find /proc/scsi -type f | while read line; do echo \$line; cat \$line; done
- o san_version
- o uname -m
- ∘ uname -n
- o /usr/lib/vmware/vmkmgmt_keyval/vmkmgmt_keyval -a
- o /usr/lib/vmware/vm-support/bin/dump-vmdk-rdm-info.sh \$vmx_paths
- vim-cmd /vmsvc/getallvms
- vim-cmd vmsvc/snapshot.get \$vm_ids
- vmkload_mod -s nmp
- ∘ vmware -1
- o vmware -v

· Cisco CLI

- show fcdomain domain-list
- show flogi database
- show switchname
- $^{\circ}$ show version
- o show vsan
- show zoneset
- show zoneset active
- o uname -m
- o nsshow
- o switchshow
- o version
- o zoneshow
- vim-cmd vmsvc/snapshot.get \$vm_ids
- vmkload_mod -s nmp
- ∘ vmware -1
- ∘ vmware -v

· Brocade CLI

- o nsshow
- o switchshow

- o version
- o zoneshow

Where to find information about transition assessment

You can find information about assessing storage systems, hosts, and host applications to verify that they are ready for transition in the *7-Mode Transition Tool Copy-Based Transition Guide*. The guide provides details about how to import the inventory report you created for controllers and hosts and how to assess these controllers and hosts to verify that they are ready for transition.

Related information

Copy-based transition

Copyright information

Copyright © 1994–2017 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, 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

Active IQ, AltaVault, Arch Design, ASUP, AutoSupport, Campaign Express, Clustered Data ONTAP, Customer Fitness, Data ONTAP, DataMotion, Fitness, Flash Accel, Flash Cache, Flash Pool, FlexArray, FlexCache, FlexClone, FlexGroup, FlexPod, FlexScale, FlexShare, FlexVol, FPolicy, Fueled by SolidFire, GetSuccessful, Helix Design, LockVault, Manage ONTAP, MetroCluster, MultiStore, NetApp, NetApp Insight, OnCommand, ONTAP, ONTAPI, RAID DP, RAID-TEC, SANscreen, SANshare, SANtricity, SecureShare, Simplicity, Simulate ONTAP, Snap Creator, SnapCenter, SnapCopy, SnapDrive, SnapIntegrator, SnapLock, SnapManager, SnapMirror, SnapMover, SnapProtect, SnapRestore, Snapshot, SnapValidator, SnapVault, SolidFire, SolidFire Helix, StorageGRID, SyncMirror, Tech OnTap, Unbound Cloud, and WAFL and other names are trademarks or registered trademarks of NetApp, Inc., in the United States, and/or other countries. All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such. A current list of NetApp trademarks is available on the web.

http://www.netapp.com/us/legal/netapptmlist.aspx

How to send comments about documentation and receive update notifications

You can help us to improve the quality of our documentation by sending us your feedback. You can receive automatic notification when production-level (GA/FCS) documentation is initially released or important changes are made to existing production-level documents.

If you have suggestions for improving this document, send us your comments by email.

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.

If you want to be notified automatically when production-level documentation is released or important changes are made to existing production-level documents, follow Twitter account @NetAppDoc.

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

Index

7-Mode preparing for inventory collection <i>5</i>	hosts, supported versions for collecting inventory information 5
A	I
additional information about assessing transition readiness 18 applications supported versions for collecting inventory information 5	ICT commands collecting configuration and inventory information 7 information how to send feedback about improving documentation 21 Inventory Collect Tool system requirements 4
C	understanding 4 inventory collection
collecting configuration and inventory information by using ICT commands 7 collecting inventory information by using collection and assessment commands 11 collection and assessment commands for generating inventory report 11 to collect inventory information 11 comments	7-Mode system and hosts support for 5 preparing the 7-Mode system 5 inventory reports creating with host, switch, and storage information for transition assessment 8 Inventory Workbook creating the report for transition assessment 8
how to send feedback about documentation 21 configurations supported for FC zone plan 6	M migration
inventory reports with host, switch, and storage information for transition assessment 8	generating an FC zone plan for configuring switches 11
D	P
Data ONTAP 7-Mode versions supported for collecting inventory information 5 documentation how to receive automatic notification of changes to 21 how to send feedback about 21	preparing 7-Mode system for inventory collection 5 prerequisites for running Inventory Collect Tool 4 protocols preparing the 7-Mode system for inventory collection 5
F	R
FC zone plan generating by using the Inventory Collect Tool 11 supported configurations 6 feedback how to send comments about documentation 21	reports, inventory creating with host, switch, and storage information for transition assessment 8 requirements 7-Mode system and hosts supported for collecting inventory information 5
G	\mathbf{S}
generating FC zone plan // generating inventory report by using collection and assessment commands //	storage information using Inventory Collect Tool to collect 4 suggestions how to send feedback about documentation 21
H host information using Inventory Collect Tool to collect 4	syntax, options ICT commands 7 system requirements Inventory Collect Tool 4

T	\mathbf{W}
transition using Inventory Collect Tool to assess readiness for 4 where to find information about assessing readiness for 18	Windows requirements for running the Inventory Collect Tool 4
transition assessment creating inventory reports with host, switch, and storage information for 8	Z zones
Twitter how to receive automatic notification of documentation changes 21	generating FC zone plan for migration 11 supported FC zone plans for migration 6