



Failover: NetApp HCI DR with Cleondris

HCI

NetApp
July 29, 2020

This PDF was generated from https://docs.netapp.com/us-en/hci-solutions/cleondris_failover.html on November 04, 2020. Always check docs.netapp.com for the latest.



Table of Contents

- Failover: NetApp HCI DR with Cleondris. 1
 - Test Failover. 1
 - Running Failover 2
 - Monitoring During a Failover 3
 - Looking at History When No Failover Is Running 5

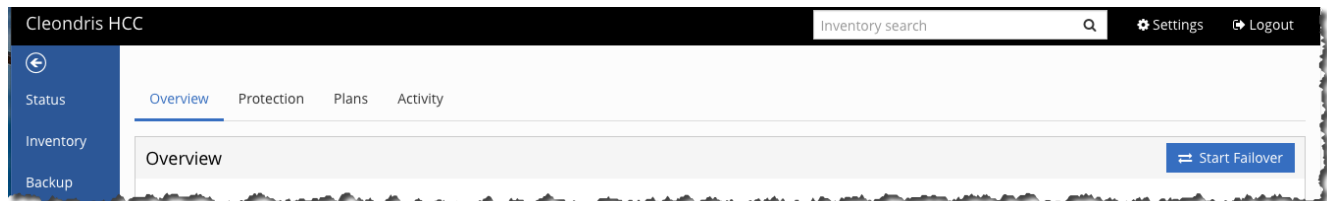
Failover: NetApp HCI DR with Cleondris

Test Failover

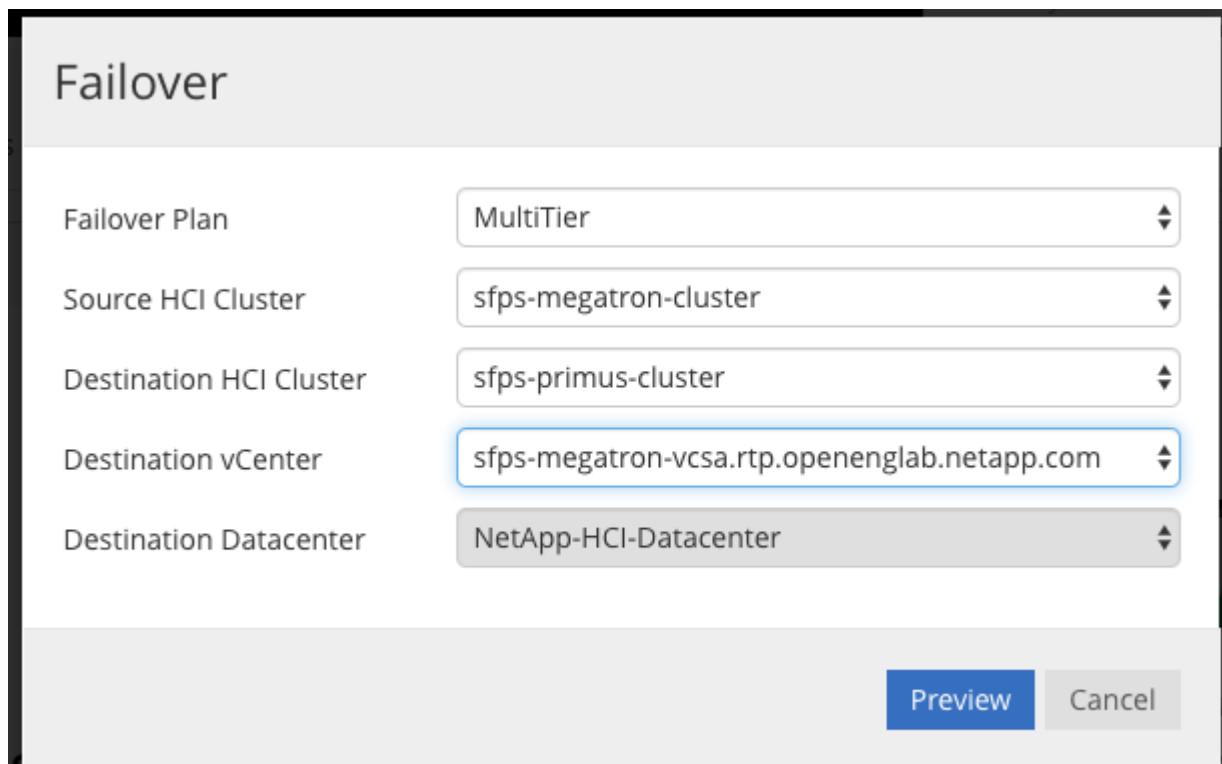
A test failover is important, because it proves to you, your application owner, your manager, and the BCDR people that your disaster recovery plan works.

To test failover, complete the following steps:

1. From the Failover page, click Start Failover.



2. On the Failover page, you have some choices to make.

A screenshot of the 'Failover' configuration page. It features five dropdown menus: 'Failover Plan' (MultiTier), 'Source HCI Cluster' (sfps-megatron-cluster), 'Destination HCI Cluster' (sfps-primus-cluster), 'Destination vCenter' (sfps-megatron-vcsa.rtp.openenglab.netapp.com), and 'Destination Datacenter' (NetApp-HCI-Datacenter). The 'Destination vCenter' dropdown is highlighted with a blue border. At the bottom right, there are 'Preview' and 'Cancel' buttons.

Carefully specify the plan, where the VMs came from, and where they are going to be recovered.

From: sfps-megatron-cluster To: sfps-primus-cluster ⚠ 3 VMs not included in this plan will lose protection

Plan	Priority	Name	Datastore	Source Volume	Destination Volume	Current vCenter	Destination vCenter
MultiTier	1	taxdb	DESKTOP03	DESKTOP03 ID: 15	DESKTOP03 ID: 138	sfps-megatron-vcsa.rtp.openenglabs.netapp.com	sfps-megatron-vcsa.rtp.openenglabs.netapp.com
MultiTier	1	crmdb	DESKTOP03	DESKTOP03 ID: 15	DESKTOP03 ID: 138	sfps-megatron-vcsa.rtp.openenglabs.netapp.com	sfps-megatron-vcsa.rtp.openenglabs.netapp.com
MultiTier	1	FinRptdb	DESKTOP03	DESKTOP03 ID: 15	DESKTOP03 ID: 138	sfps-megatron-vcsa.rtp.openenglabs.netapp.com	sfps-megatron-vcsa.rtp.openenglabs.netapp.com
MultiTier	2	crmA	DESKTOP03	DESKTOP03 ID: 15	DESKTOP03 ID: 138	sfps-megatron-vcsa.rtp.openenglabs.netapp.com	sfps-megatron-vcsa.rtp.openenglabs.netapp.com
MultiTier	2	FinRptA	DESKTOP03	DESKTOP03 ID: 15	DESKTOP03 ID: 138	sfps-megatron-vcsa.rtp.openenglabs.netapp.com	sfps-megatron-vcsa.rtp.openenglabs.netapp.com
MultiTier	2	taxA	DESKTOP03	DESKTOP03 ID: 15	DESKTOP03 ID: 138	sfps-megatron-vcsa.rtp.openenglabs.netapp.com	sfps-megatron-vcsa.rtp.openenglabs.netapp.com
MultiTier	3	taxW	DESKTOP03	DESKTOP03 ID: 15	DESKTOP03 ID: 138	sfps-megatron-vcsa.rtp.openenglabs.netapp.com	sfps-megatron-vcsa.rtp.openenglabs.netapp.com
MultiTier	3	crmW	DESKTOP03	DESKTOP03 ID: 15	DESKTOP03 ID: 138	sfps-megatron-vcsa.rtp.openenglabs.netapp.com	sfps-megatron-vcsa.rtp.openenglabs.netapp.com
MultiTier	3	FinRptW	DESKTOP03	DESKTOP03 ID: 15	DESKTOP03 ID: 138	sfps-megatron-vcsa.rtp.openenglabs.netapp.com	sfps-megatron-vcsa.rtp.openenglabs.netapp.com

Failover to Sandbox Start Cancel

The screen displays a list of the VMs that are in the plan. In this example, a warning at the top right says that three VMs are not included. That means there are three VMs we did not make part of the plan in the replicated volume.

If you see a red X in the first column on the left, you can click it and learn what the problem is.

- At the bottom right of the screen, you must choose whether to test the failover (Failover to Sandbox) or start a real failover. In this example, we select Failover to Sandbox.

Cleondris HCC Inventory search Settings Logout

Overview Protection Plans **Activity**

Failover Plan Execution Show Historical

Id	Description	User	Plan	Date	Status
2	Sandbox failover using plan Mass	admin	Mass	2020-04-14 13:21	Running

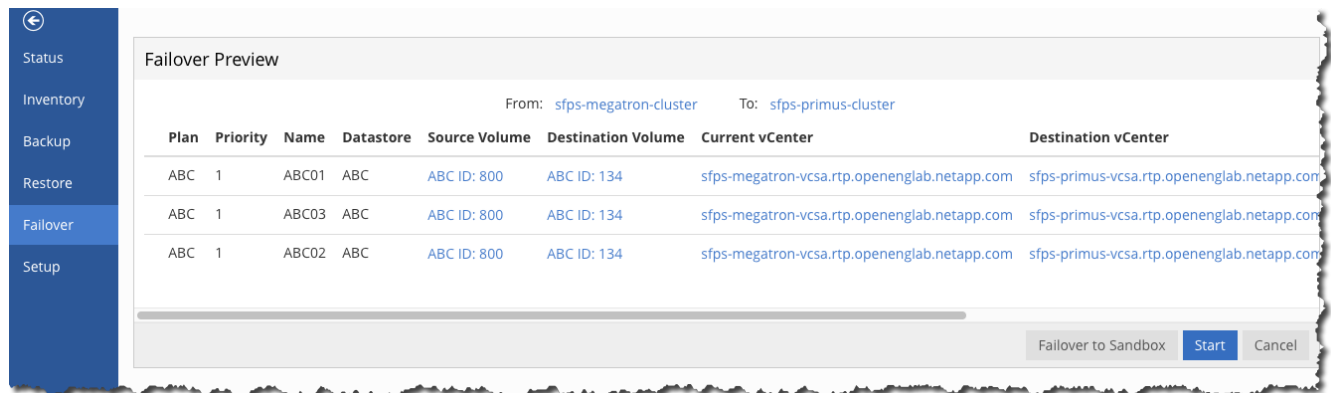
8.0.2004P6 - API-20200410-2157 - Copyright © Cleondris GmbH 2010-2020

- A summary now lists plans in action. For more information, use the magnifying glass in the far left (described in “Monitoring,” later in this document).

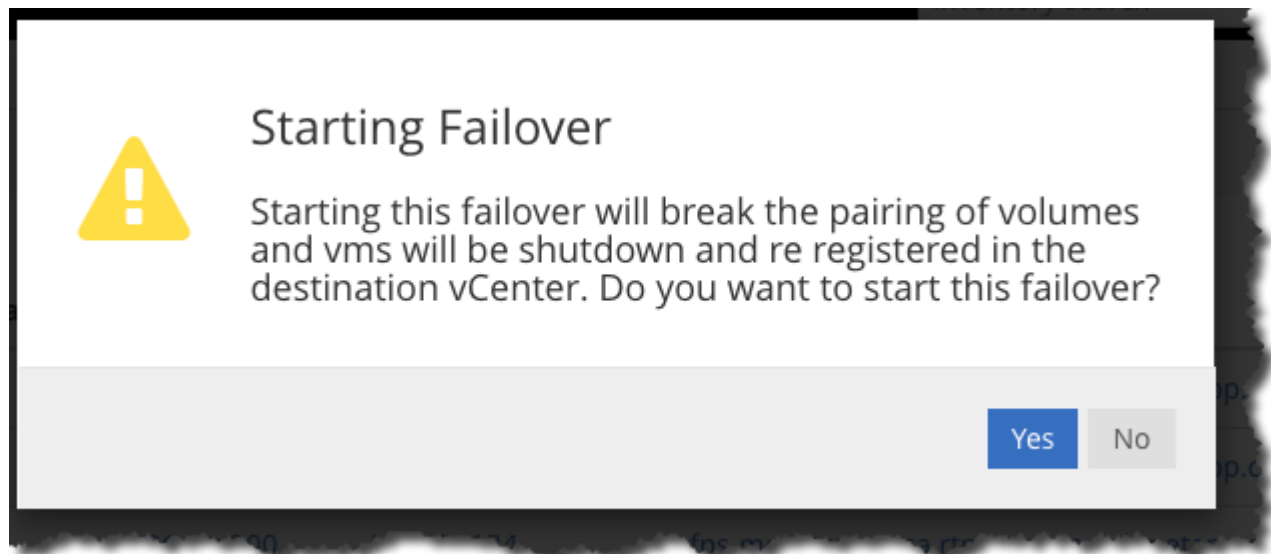
Running Failover

At first, the failover is the same as the test failover. But the procedure changes when you arrive at the point shown here:

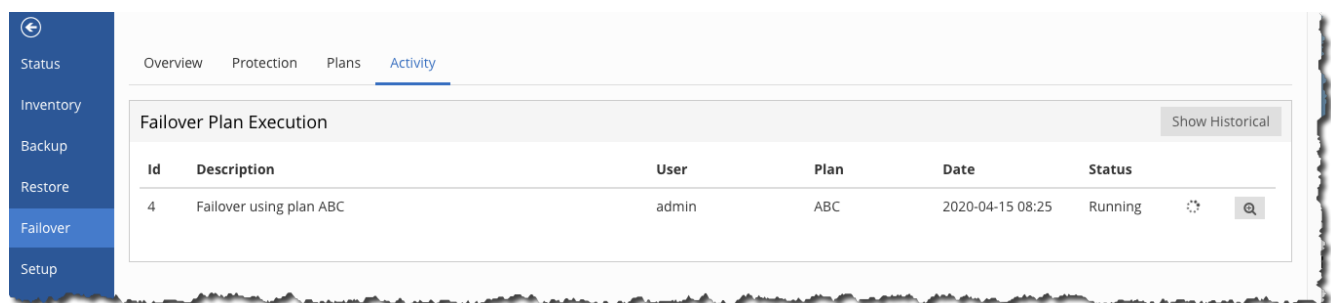
- Instead of selecting the Failover to Sandbox option, select Start.



2. Select Yes.

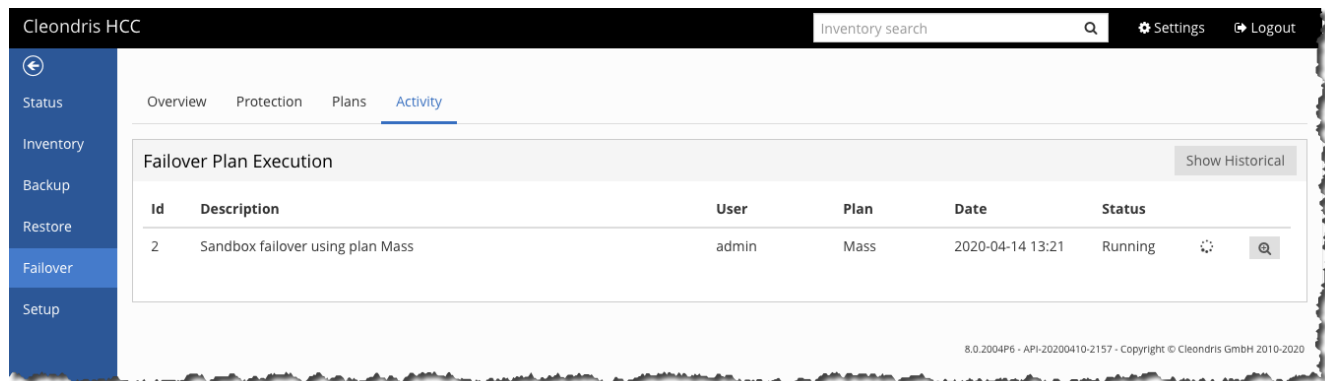


3. The screen shows that this is a failover, and it is running. For more information, use the magnifying glass (discussed in the “Monitoring” section).

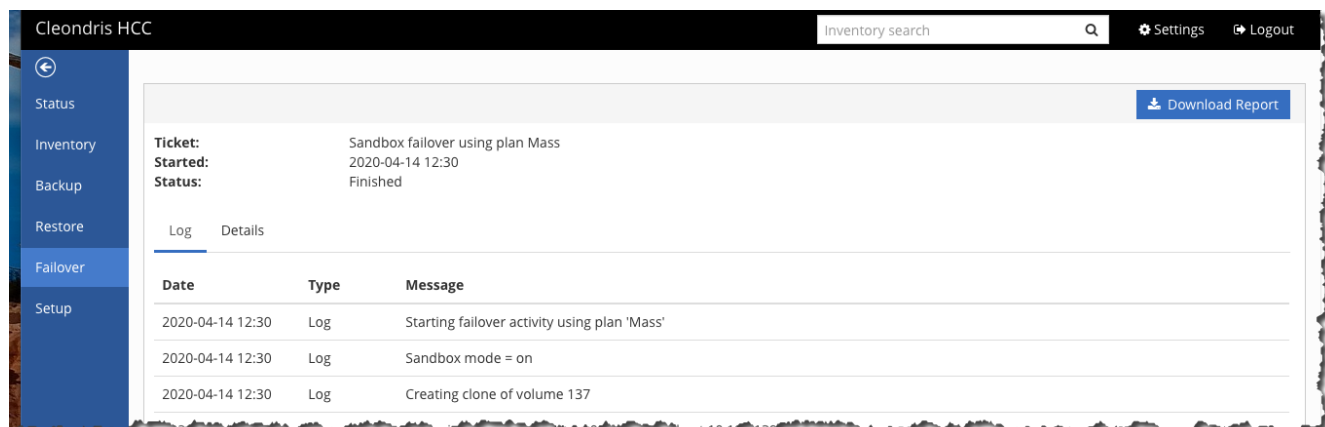


Monitoring During a Failover

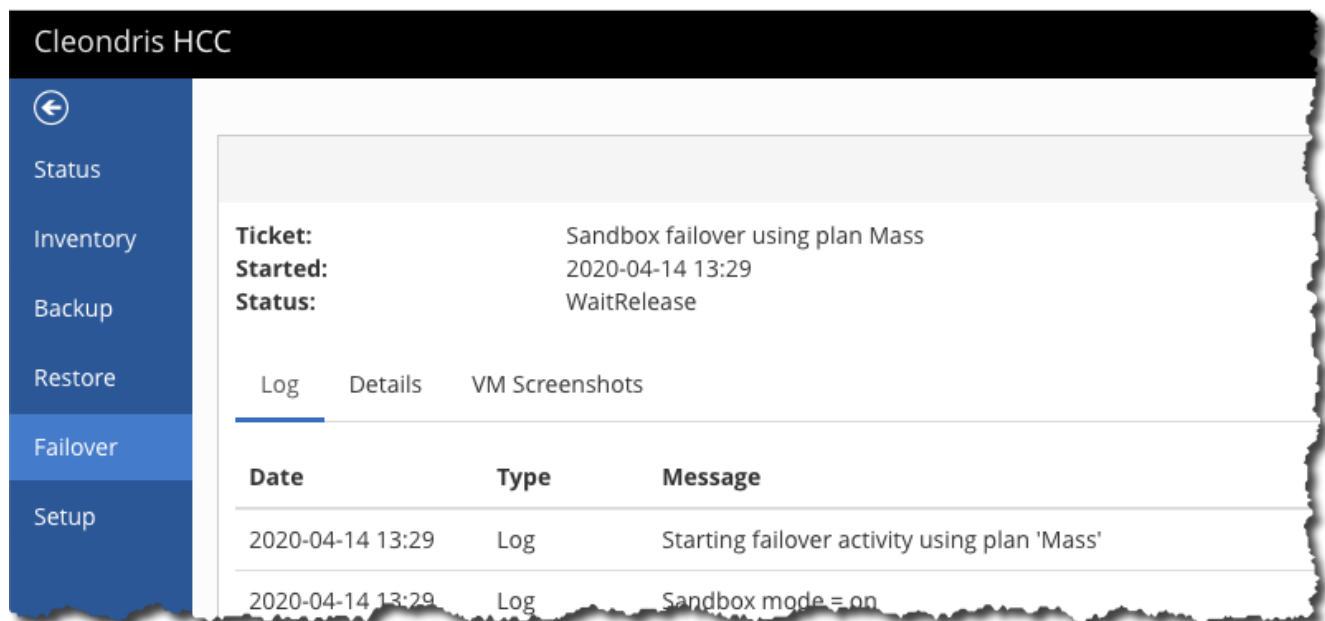
1. When a failover or a test failover is running, you can monitor it by using the magnifying glass at the far right.



2. Click the magnifying glass to see much more detail.



3. As the failover or test failover progresses, a VM Screenshots option appears.



Sometimes it is useful to see the screenshots to confirm that the VM is running. It is not logged in, so you cannot tell if the applications are running, but at least you know that the VM is.

Looking at History When No Failover Is Running

To view past tests or failovers, click the Show Historical button on the Activity tab. Use the magnifying glass for more detail.

The screenshot shows the Cleondris HCC interface. The top navigation bar includes 'Inventory search', 'Settings', and 'Logout'. The left sidebar lists 'Status', 'Inventory', 'Backup', 'Restore', 'Failover', and 'Setup'. The 'Activity' tab is selected, showing 'Overview', 'Protection', 'Plans', and 'Activity'. The 'Failover Plan Execution' section has a 'Show Historical' button. A table displays one entry:

Id	Description	User	Plan	Date	Status
2	Sandbox failover using plan Mass	admin	Mass	2020-04-14 13:21	Running

At the bottom right, there is a small text: '8.0.2004P6 - API-20200410-2157 - Copyright © Cleondris GmbH 2010-2020'.

The screenshot shows the Cleondris HCC interface. The top navigation bar includes 'Inventory search', 'Settings', and 'Logout'. The left sidebar lists 'Status', 'Inventory', 'Backup', 'Restore', 'Failover', and 'Setup'. The 'Activity' tab is selected, showing 'Overview', 'Protection', 'Plans', and 'Activity'. The 'Failover Plan Execution' section has a 'Hide Historical' button. A table displays two entries:

Id	Description	User	Plan	Date	Status
2	Sandbox failover using plan Mass	admin	Mass	2020-04-14 13:21	Running
1	Sandbox failover using plan Mass	admin	Mass	2020-04-14 12:30	Finished

At the bottom right, there is a small text: '8.0.2004P6 - API-20200410-2157 - Copyright © Cleondris GmbH 2010-2020'.

You can also download a report with the details.

The screenshot shows the Cleondris HCC interface. The top navigation bar includes 'Inventory search', 'Settings', and 'Logout'. The left sidebar lists 'Status', 'Inventory', 'Backup', 'Restore', 'Failover', and 'Setup'. The 'Activity' tab is selected, showing 'Overview', 'Protection', 'Plans', and 'Activity'. The 'Failover Plan Execution' section has a 'Download Report' button. The 'Ticket' section shows 'Sandbox failover using plan Mass'. The 'Started' section shows '2020-04-14 12:30'. The 'Status' section shows 'Finished'. The 'Log' section is selected, showing a table with three entries:

Date	Type	Message
2020-04-14 12:30	Log	Starting failover activity using plan 'Mass'
2020-04-14 12:30	Log	Sandbox mode = on
2020-04-14 12:30	Log	Creating clone of volume 137

These reports have various uses: for example, to prove to an application owner that you tested the failover of that application. Also, the report can provide details that might help you troubleshoot a failed failover.

You can add text to a report by adding the text to the plan in the comment field.

Failover Plan Editor

Plan Name:

ABC

Comment (Added to the report)

App expert is Joe Smith.

Create temporary network when running in sandbox mode:

☐

Network to use for sandbox mode

TestNetwork

Copyright Information

Copyright © 2020 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, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.