



Guidelines for connecting Snapshot copies

Snapdrive for Unix

NetApp
June 20, 2025

This PDF was generated from https://docs.netapp.com/us-en/snapdrive-unix/solaris/concept_guidelines_for_connecting_snapshot_copies_in_a_host_cluster_environment.html on June 20, 2025. Always check docs.netapp.com for the latest.

Table of Contents

- Guidelines for connecting Snapshot copies 1
 - Guidelines for connecting Snapshot copies in a host cluster environment 1

Guidelines for connecting Snapshot copies

Follow the guidelines when connecting to Snapshot copies.

- The `snapdrive snap connect` command works only with Snapshot copies created in SnapDrive 4.2 for UNIX.
- On an originating host, SnapDrive for UNIX supports connecting and restoring Snapshot copies that are created by previous versions of SnapDrive for UNIX.
- For read and write access to NFS directory trees, the `snapdrive snap connect` command uses the Data ONTAP FlexVol volume feature, and therefore requires Data ONTAP 7.3 or later. Configurations with Data ONTAP 7.1 can connect NFS files or directory trees, but are provided with read-only access.
- If you set the `enable-split-clone` configuration variable value to “on” or “sync” during the Snapshot connect operation and “off” during the Snapshot disconnect operation, SnapDrive for UNIX does not delete the original volume or LUN that is present in the Snapshot copy.
- You have to set the value of Data ONTAP 7.2.2 configuration option `vfiler.vol_clone_zapi_allow` to “on” to connect to a Snapshot copy of a volume or LUN in a vFiler unit.
- The Snapshot connect operation is not supported on the hosts having different host configurations.
- The `snapdrive snap connect` command used to connect to a root volume of a physical storage system or a vFiler unit fails because Data ONTAP does not allow cloning of a root volume.

Guidelines for connecting Snapshot copies in a host cluster environment

You can connect a Snapshot copy from any node in a host cluster. Follow the guidelines while connecting to a Snapshot copy.

- The `snapdrive snapshot connect` command can be executed from any node in the host cluster. If you initiate the `snapdrive snap connect` command with the `-devicetype shared` option from any nonmaster node in the host cluster, the command is sent to the master node and executed. For this to happen, ensure that the `rsh` or `ssh` access-without-password-prompt is allowed on all the host cluster nodes.
- The multiple file systems and disk groups that are specified in this operation should have the same device type scope; that is, either all should be shared or all should be dedicated.
- The `snapdrive snap connect` command with NFS or storage entities on raw LUNs is not supported.
- The `-igroup` option is supported with the `-devicetype dedicated` option and not with the `-devicetype shared` option in the `snapdrive snap connect` command.
- SnapDrive for UNIX executes the `snapdrive snap connect` command on the master node. Before creating the shared storage entities, it creates and maps the LUN on the master node and then maps the LUNs on all the nonmaster nodes. It also creates and manages the `igroups` for all the nodes in the host cluster. If any error message occurs during this sequence, the Snapshot connect operation fails.
- The `snapdrive snap connect` command can be used to connect the following storage entities:
 - A shared file system or disk group that is already present in a shared or dedicated mode in the host cluster.
 - A dedicated file system or disk group to a single node in the host cluster even if the file system or disk group is already present in a shared mode in the host cluster.

- A Snapshot copy of a file system or disk group that is created on a node outside the host cluster.
- A dedicated file system or disk group that is already present in a nonmaster node cannot be connected again in a shared mode in the host cluster without the `-destdg` option for a disk group and the `-autorename` option for a file system.

That is, if a file system is already present in dedicated mode in one of the nonmaster nodes in the host cluster, you have to specify the `snapdrive snap connect` command with the `-destdg` and `-autorename` options, or explicitly specify the destination file system in the command.

Copyright information

Copyright © 2025 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.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

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.