



# **SnapDrive commands and capabilities**

## Snapdrive for Unix

Ivana Devine, Aksel Davis  
January 21, 2021

# Table of Contents

SnapDrive commands and capabilities ..... 1

# SnapDrive commands and capabilities

In role-based access control (RBAC), a specific capability is required for each operation to be successful. A user must have the correct set of capabilities assigned to carry out storage operations.

The following table lists the commands and the corresponding capabilities required:

Command	Capability
<code>storage show</code>	SD.Storage.Read on volume
<code>storage list</code>	SD.Storage.Read on volume
<code>storage create</code>	<ul style="list-style-type: none"><li>• For LUNs inside volumes: <code>SD.Storage.Write</code> on Volume</li><li>• For LUNs inside qtrees: <code>SD.Storage.Write</code> on qtree</li></ul>
<code>storage resize</code>	<code>SD.Storage.Write</code> on LUN
<code>storage delete</code>	<code>SD.Storage.Delete</code> on LUN
<code>snap show</code>	<code>SD.SnapShot.Read</code> on volume
<code>snap list</code>	<code>SD.SnapShot.Read</code> on volume
<code>snap delete</code>	<code>SD.Storage.Delete</code> on volume
<code>snap rename</code>	<code>SD.Storage.Write</code> on volume
<code>snap connect</code>	<ul style="list-style-type: none"><li>• For LUN clones in volume: <code>SD.SnapShot.Clone</code> on volume</li><li>• For LUN clones in qtree: <code>SD.SnapShot.Clone</code> on qtree</li><li>• For traditional volume clones: <code>SD.SnapShot.Clone</code> on storage system</li><li>• For FlexClone volume: <code>SD.SnapShot.Clone</code> on the parent volume</li><li>• For unrestricted Flexclone volumes: <code>SD.SnapShot.UnrestrictedClone</code> on the parent volume</li></ul>

Command	Capability
<code>snap connect-split</code>	<ul style="list-style-type: none"> <li>• For LUN clones (LUN cloned and split in volume): <code>SD.SnapShot.Clone</code> on volume and <code>SD.Storage.Write</code> on volume</li> <li>• For LUN clones (LUN cloned and split in qtree): <code>SD.SnapShot.Clone</code> on qtree and <code>SD.Storage.Write</code> on qtree</li> <li>• For traditional volume clones which are split: <code>SD.SnapShot.Clone</code> on storage system and <code>SD.Storage.Write</code> on storage system</li> <li>• For Flex volume clones which are split: <code>SD.SnapShot.Clone</code> on the parent volume.</li> </ul>
<code>clone split start</code>	<ul style="list-style-type: none"> <li>• For LUN clones where the LUN resides in volume or qtree: <code>SD.SnapShot.Clone</code> containing volume or qtree</li> <li>• For volume clones: <code>SD.SnapShot.Clone</code> on the parent volume</li> </ul>
<code>snap disconnect</code>	<ul style="list-style-type: none"> <li>• For LUN clones where the LUN resides in volume or qtree: <code>SD.SnapShot.Clone</code> containing volume or qtree</li> <li>• For volume clones: <code>SD.SnapShot.Clone</code> on the parent volume</li> <li>• For deletion of unrestricted volume clones: <code>SD.SnapShot.DestroyUnrestrictedClone</code> on the volume</li> </ul>
<code>snap disconnect-split</code>	<ul style="list-style-type: none"> <li>• For LUN clones where the LUN resides in volume or qtree: <code>SD.SnapShot.Clone</code> on the containing volume or qtree</li> <li>• For volume clones: <code>SD.Storage.Delete</code> on the parent volume</li> <li>• For deletion of unrestricted volume clones: <code>SD.SnapShot.DestroyUnrestrictedClone</code> on the volume</li> </ul>

Command	Capability
<code>snap restore</code>	<ul style="list-style-type: none"> <li>• For LUNs that exist in a volume: <code>SD.SnapShot.Restore</code> on volume and <code>SD.Storage.Write</code> on LUN</li> <li>• For LUNs which exists in a qtree: <code>SD.SnapShot.Restore</code> on qtree and <code>SD.Storage.Write</code> on LUN</li> <li>• For LUNs which are not in the volumes: <code>SD.SnapShot.Restore</code> on volume and <code>SD.Storage.Write</code> on volume</li> <li>• For LUNs which are not in qtree: <code>SD.SnapShot.Restore</code> on qtree and <code>SD.Storage.Write</code> on qtree</li> <li>• For volumes: <code>SD.SnapShot.Restore</code> on storage system for traditional volumes, or <code>SD.SnapShot.Restore</code> on aggregate for flexible volumes</li> <li>• For single-file snap restore in volumes: <code>SD.SnapShot.Restore</code> on the volume</li> <li>• For single-file snap restore in qtree: <code>SD.SnapShot.Restore</code> qtree</li> <li>• For overriding baseline Snapshot copies: <code>SD.SnapShot.DisruptBaseline</code> on the volume</li> </ul>
<code>host connect, host disconnect</code>	<code>SD.Config.Write</code> on the LUN
<code>config access</code>	<code>SD.Config.Read</code> on the storage system
<code>config prepare</code>	<code>SD.Config.Write</code> on at least one storage system
<code>config check</code>	<code>SD.Config.Read</code> on at least one storage system
<code>config show</code>	<code>SD.Config.Read</code> on at least one storage system
<code>config set</code>	<code>SD.Config.Write</code> on storage system
<code>config set -dfm, config set -mgmtpath,</code>	<code>SD.Config.Write</code> on at least one storage system
<code>config delete</code>	<code>SD.Config.Delete</code> on storage system
<code>config delete dfm_appliance, config delete -mgmtpath</code>	<code>SD.Config.Delete</code> on at least one storage system

Command	Capability
<code>config list</code>	<code>SD.Config.Read</code> on at least one storage system
<code>config migrate set</code>	<code>SD.Config.Write</code> on at least one storage system
<code>config migrate delete</code>	<code>SD.Config.Delete</code> on at least one storage system
<code>config migrate list</code>	<code>SD.Config.Read</code> on at least one storage system



SnapDrive for UNIX does not check any capability for administrator (root).

## Copyright Information

Copyright © 2021 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.