



# **SnapDrive commands and capabilities**

## Snapdrive for Unix

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

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

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

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