



Command-line options

Snapdrive for Unix

Ivana Devine
January 21, 2021

Table of Contents

Command-line options 1

Command-line options

There are various options that are used with SnapDrive for UNIX commands.

SnapDrive for UNIX enables you to include the following options as appropriate with its commands. In certain cases, you can abbreviate these options. For example, you can use `-h` instead of `-help`.

Option	Description
<code>-addlun</code>	Tells SnapDrive for UNIX to add a new, internally-generated LUN to a storage entity in order to increase its size.
<code>-all</code>	Used with the <code>snapdrive storage {show list}</code> command to display all devices and LVM entities known to the host.
<code>-autoexpand</code>	Used with the <code>snapdrive snap connect</code> command to enable you to request that a disk group be connected when you supply a subset of the logical volumes or file systems in the disk group.
<code>-autorename</code>	Used with the <code>snapdrive snap connect</code> command to enable the command to rename any newly-connected LVM entities for which the default name is already in use.
<code>-clone type</code>	Clone-method to be used during <code>snap connect</code> operation. Here <code>type</code> refers to <code>lunclone</code> (creates lun clone(s)), <code>Optimal</code> (SnapDrive automatically chooses between <code>Restricted FlexClone(s)</code> and <code>LUN clone</code> depending on the storage configuration) and <code>Unrestricted</code> (creates <code>FlexClone(s)</code> which can be used for provisioning and Snapshot operations, just like normal flexible volumes).
<code>-capabilities</code>	used with <code>snapdrive storage show</code> command to know the allowed operations on the host file specs.
<code>-devices</code> or <code>-dev</code>	Used with the <code>storage {show list}</code> command to display all devices known to the host.
<code>-dgsizes</code> or <code>-vgsizes</code>	Used with the <code>snapdrive storage create</code> command to specify the size in bytes of the disk group you want to create.

Option	Description
-force (or -f)	Causes operations to be attempted that SnapDrive for UNIX would not undertake ordinarily. SnapDrive for UNIX prompts you to ask for confirmation before it executes the operation.
-fsopts	<p>The options you want passed to the host operation that creates the new file system. Depending on your host operating system, this host operation might be a command such as the <code>mkfs</code> command.</p> <p>The argument you supply with this option usually needs to be specified as a quoted string and must contain the exact text to be passed to the command.</p> <p>For example, you might enter <code>-o largefiles</code> as the option you want passed to the host operation.</p>
-fstype	<p>The type of file system you want to use for the SnapDrive for UNIX operations. The file system must be a type that SnapDrive for UNIX supports for your operating system. Current values that you can set for this variable is "ext3 or ext4"</p> <p>You can also specify the type of file system that you want to use by using the <code>-fstype</code> configuration variable.</p>
-full	Allows operations on a specified host-side entity to be performed even if the entity is not empty (for example, the entity might be a volume group containing one or more logical volumes).
-growby	The number of bytes you want to add to a LUN or disk group in order to increase its size.
-growto	The target size in bytes for a LUN, disk group, or volume group. SnapDrive for UNIX automatically calculates the number of bytes necessary to reach the target size and increases the size of the object by that number of bytes.
-help	Prints out the usage message for the command and operation. Enter this option by itself without other options. Following are the examples of possible command lines.
-lunsize	The size of the LUN in bytes to be created by a given command.

Option	Description
-mntopts	<p>Specifies options that you want passed to the host mount command (for example, to specify file system logging behavior). Options are also stored in the host file system table file. The options allowed depend on the host file system type.</p> <p>The <code>-mntopts</code> argument that you supply is a file system-type option that is specified using the mount command “-o” flag. Do not include the “-o” flag in the <code>-mntopts</code> argument. For example, the sequence <code>-mntopts tmplog</code> passes the string <code>-o tmplog</code> to the mount command line, and inserts the text “tmplog” on a new command line.</p>
-nofilerfence	<p>Suppresses the use of the Data ONTAP consistency group feature in creating Snapshot copies that span multiple filer volumes.</p> <p>In Data ONTAP 7.2 or above, you can suspend access to an entire filer volume. By using the <code>-nofilerfence</code> option, you can freeze access to an individual LUN.</p>
-nolvm	<p>Connects or creates a file system directly on a LUN without involving the host LVM.</p> <p>All commands that take this option for connecting or creating a file system directly on a LUN will not accept it for host cluster or shared resources. This option is allowed only for local resources.</p>
-nopersist	<p>Connects or creates a file system, or a Snapshot copy that has a file system, without adding an entry in the host’s persistent mount entry file.</p>
-prefixfv	<p>prefix to be used while generating cloned volume name. The format of the name of the new volume would be <code><pre-fix>_<original_volume_name></code>.</p>
-reserve - noreserve	<p>Used with the <code>snapdrive storage create</code>, <code>snapdrive snap connect</code> or <code>snapdrive snap restore</code> commands to specify whether or not SnapDrive for UNIX creates a space reservation. By default, SnapDrive for UNIX creates reservation for storage create, resize, and Snapshot create operations, and does not create reservation for Snapshot connect operation.</p>

Option	Description
-noprompt	<p>Suppresses prompting during command execution. By default, any operation that might have dangerous or non-intuitive side effects prompts you to confirm that SnapDrive for UNIX should be attempted. This option overrides that prompt; when combined with the <code>-force</code> option, SnapDrive for UNIX performs the operation without asking for confirmation.</p>
-quiet (or -q)	<p>Suppresses the reporting of errors and warnings, regardless of whether they are normal or diagnostic. It returns zero (success) or non-zero status. The <code>-quiet</code> option overrides the <code>-verbose</code> option.</p> <p>This option will be ignored for <code>snapdrive storage show</code>, <code>snapdrive snap show</code>, and <code>snapdrive config show</code> commands.</p>
-readonly	<p>Required for configurations with Data ONTAP 7.1 or any configuration that uses traditional volumes. Connects the NFS file or directory with read-only access.</p> <p>Optional for configurations with Data ONTAP 7.0 that use FlexVol volumes. Connects the NFS file or directory tree with read-only access. (Default is read/write).</p>
-split	<p>Enables to split the cloned volumes or LUNs during Snapshot connect and Snapshot disconnect operations.</p> <p>You can also split the cloned volumes or LUNs by using the <code>enable-split-clone</code> configuration variable.</p>
-status	<p>Used with the <code>snapdrive storage show</code> command to know if the volume or LUN is cloned.</p>
-unrelated	<p>Creates a Snapshot copy of <code>file_spec</code> entities that have no dependent writes when the Snapshot copy is taken. Because the entities have no dependent writes, SnapDrive for UNIX creates a crash-consistent Snapshot copy of the individual storage entities, but does not take steps to make the entities consistent with each other.</p>
-verbose (or -v)	<p>Displays detailed output, wherever appropriate. All commands and operations accept this option, although some might ignore it.</p>

Option	Description
-vgsize or -dgsiz	Used with the <code>storage create</code> command to specify the size in bytes of the volume group you want to create.
-vmtype	<p>The type of volume manager you want to use for the SnapDrive for UNIX operations.</p> <p>If the user specifies the <code>-vmtype</code> option in the command line explicitly, SnapDrive for UNIX uses the value specified in the option irrespective of the value specified in the <code>vmtype</code> configuration variable. If the <code>-vmtype</code> option is not specified in the command-line option, SnapDrive for UNIX uses the volume manager that is in the configuration file.</p> <p>The volume manager must be a type that SnapDrive for UNIX supports for your operating system. Current values that you can set for this variable as <code>lvm</code>.</p> <p>You can also specify the type of volume manager that you want to use by using the <code>vmtype</code> configuration variable.</p>
-vbsr {preview execute}	The <code>preview</code> option initiates a volume based SnapRestore preview mechanism for the given host <code>filespec</code> . With the <code>execute</code> option, SnapDrive for UNIX proceeds with volume based SnapRestore for the specified <code>filespec</code> .

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.