



Connecting to a single filespec in a LUN

Snapdrive for Unix

Ivana Devine
January 21, 2021

Table of Contents

Connecting to a single filespec in a LUN 1

Connecting to a single filespec in a LUN

You can connect to a single filespec which resides in a LUN. The following example describes how you can complete this operation.



Filespec can be any one of file system, host volume, disk group, or a LUN.

For creating restricted FlexClone, you need to set the option `san-clone-method =optimal` in `snapdrive.conf` file or give `-clone optimal` before you can connect the filespec. This example displays the results when you want to connect a filespec `/mnt/fs1` which resides in a LUN `homer:/vol/vol1/lun1`

The layout of the source file system `/mnt/fs1` is given below:

```
# snapdrive storage show -fs /mnt/fs_1 -capabilities
raw device: /dev/sdc1 mount point: /mnt/fs_1 (persistent) fstype ext3

allowed operations: all

device filename adapter path size proto state clone lun path backing
snapshot
-----
/dev/sdc - P 100m iscsi online No homer:/vol/vol1/lun1 -
```

```
# snapdrive snap connect -fs /mnt/fs_1 -snapname homer:/vol/vol1:snap1
-autorename

connecting /mnt/fs_1:
    creating restricted volume clone
homer:/vol/Snapdrive_vol1_volume_clone_from_snap1_snapshot ... success

    mapping new lun(s) ... done
    discovering new lun(s) ... done
Successfully connected to snapshot homer:/vol/vol1:snap1
    file system: /mnt/fs_1_0
```

Here, SnapDrive for UNIX automatically chose to create a restricted FlexClone `Snapdrive_vol1_0_volume_clone_from_snap1_snapshot` from snapshot `snap1` and connected it to the LUN `testlun1` in this FlexClone to create a cloned host file system `/mnt/fs_1_0`.

```
# snapdrive storage show -fs /mnt/fs_1_0 -capabilities

raw device: /dev/sde1    mount point: /mnt/fs_1_0 (persistent) fstype ext3
allowed operations: snap disconnect; snap list; snap show; storage show;
storage list

device filename adapter path size  proto  state  clone  lun path backing
snapshot
-----
-----
/dev/sde  -  P  100m iscsi online flex-clone
homer:/vol/Snapdrive_voll_volume_clone_from_snap1_snapshot/lun1 voll:snap1
```

SnapDrive for UNIX names the destination FlexClone with the prefix mentioned in the CLI.

If the generated FlexClone name (with prefix) is already in use, SnapDrive for UNIX gives an error message. In this case, you can use `-autorename` option along with `-prefixfv` to auto generate clone volume names.

`-prefixfv` CLI option is applicable only for SAN based filespecs. The `-destfv` CLI option is ignored by SnapDrive for UNIX for SAN based filespecs during FlexClone operation.



SnapDrive for UNIX displays a warning when a Snapshot copy is locked due to LUN clones. However, SnapDrive for UNIX proceeds with the `snap connect` operation.

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.