



## **Multiple subnet configuration**

Snapdrive for Unix

NetApp  
June 20, 2025

This PDF was generated from [https://docs.netapp.com/us-en/snapdrive-unix/aix/task\\_configuring\\_management\\_and\\_data\\_interfaces\\_for\\_a\\_storage\\_system.html](https://docs.netapp.com/us-en/snapdrive-unix/aix/task_configuring_management_and_data_interfaces_for_a_storage_system.html) on June 20, 2025. Always check [docs.netapp.com](https://docs.netapp.com) for the latest.

# Table of Contents

Multiple subnet configuration .....	1
Configuring management and data interfaces for a storage system .....	1
Viewing all the data interfaces for a management interface .....	2
Deleting a data interface entry for a management interface .....	2
LUN names in SAN environment .....	2
config list output in a SAN multiple subnet environment .....	2
Pure NFS environment .....	3
Mixed SAN and NFS environments .....	3

# Multiple subnet configuration

Multiple subnets are useful in an environment where you want to separate management traffic and data traffic. This separation creates a more secure environment for managing network traffic. SnapDrive 4.1.1 for UNIX and later versions running on servers in such environments supports all the SnapDrive operations available in stand-alone environments and host and HA pair environments.

Data related to the management of storage systems is transmitted through the management interface. DataFabric Manager, Protection Manager, and SnapDrive for UNIX can be part of the management interface. The data interface is used for data traffic between storage systems.

To configure multiple subnets in your environment, you should use the `mgmtipath` option with the `snapdrive config set` command.

SnapDrive for UNIX does not support operations in a SAN environment where the host name of the storage system is different from the public name, but both names resolve to the same IP address. To work around this situation, you can do one of the following:

- Assign a different IP address for the system name.
- Configure the system so that it does not reply when you try to connect to it.

## Configuring management and data interfaces for a storage system

You can configure multiple data interfaces for a single management interface in an NFS environment, so that you can separate management traffic from data traffic on your storage system.

### Steps

1. Set the configuration for the new management interface:

```
snapdrive config set root
```

```
# snapdrive config set root f3050-197-91
Password for root:
Retype password:
```

2. Configure the data interface for the new management interface:

```
snapdrive config set
```

```
# snapdrive config set -mgmtipath f3050-197-91 f3050-220-91#
```

In the preceding command, `f3050-197-91` is the management interface and `f3050-220-91` is the data interface.

## Viewing all the data interfaces for a management interface

You can view all the data interfaces for a management interface by using the `snapdrive config list` command in an NFS environment.

1. At the CLI, enter the following command:

```
snapdrive config list -mgmtpath
```

```
#snapdrive config list -mgmtpath
system name      management interface    datapath interface
-----
-----
f3050-197-91      10.72.197.91          10.72.220.91|10.72.168.91
```

## Deleting a data interface entry for a management interface

You can delete a data interface entry that is associated with a specific management interface in an NFS environment by using the `snapdrive config delete -mgmtpath` command.

1. At the CLI, enter the following command:

```
snapdrive config delete -mgmtpath data_interface
```

```
#snapdrive config delete -mgmtpath f3050-197-91
Deleted configuration for appliance: f3050-197-91
```

## LUN names in SAN environment

In all the SAN operations, the format of LUN names should always be of the host name, irrespective of whether it resolves to an IP address. In a pure SAN environment, there is no concept of data path. The management interface mapping must be the same as the data path interface.

### config list output in a SAN multiple subnet environment

```
#snapdrive config set -mgmtpath f3050-197-91 f3050-197-91

#snapdrive config list -mgmtpath
system name      management interface      datapath interface
-----
bart            10.72.197.91                  10.72.197.91
```

## Pure NFS environment

If you configure a system for multiple subnets and one or more NFS volumes are mounted through the management interface, then you should always configure the first data interface as the management interface.

In the following example, the management interface is 10.72.221.19, and the data interface is 10.72.220.45.

```
# snapdrive config list
username      appliance name      appliance type
-----
root          10.72.221.19          StorageSystem

# snapdrive config list -mgmtpath
system name      management interface      datapath interface
-----
f2040-221-19  10.72.221.19                  10.72.220.45
```

## Mixed SAN and NFS environments

In mixed SAN and NFS environments, the management and data interface must be mapped so that the first data interface is the same as the management interface.

In the following example, the management interface is 10.72.197.91, and the data interface is 10.72.220.91.

```
#snapdrive config set -mgmtpath f3050-197-91 f3050-197-91 f3050-197-91
f3050-220-91

#snapdrive config list -mgmtpath
system name      management interface      datapath interface
-----
bart            10.72.197.91                  10.72.197.91|10.72.220.91
```

## 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.