



Configure peer relationships (ONTAP 9.2 and earlier)

ONTAP 9

NetApp
February 25, 2022

Table of Contents

- Configure peer relationships (ONTAP 9.2 and earlier) 1
 - Create a cluster peer relationship (ONTAP 9.2 and earlier) 1
 - Create an intercluster SVM peer relationship (ONTAP 9.2 and earlier) 2

Configure peer relationships (ONTAP 9.2 and earlier)

Create a cluster peer relationship (ONTAP 9.2 and earlier)

You can use the `cluster peer create` command to initiate a request for a peering relationship between a local and remote cluster. After the peer relationship has been requested by the local cluster, you can run `cluster peer create` on the remote cluster to accept the relationship.

What you'll need

- You must have created intercluster LIFs on every node in the clusters being peered.
- The cluster administrators must have agreed on the passphrase each cluster will use to authenticate itself to the other.

Steps

1. On the data protection destination cluster, create a peer relationship with the data protection source cluster:

```
cluster peer create -peer-addr peer_LIF_IPs -ip-space ip-space
```

You can ignore the `-ip-space` option if you are not using a custom IPspace. For complete command syntax, see the man page.

The following example creates a cluster peer relationship with the remote cluster at intercluster LIF IP addresses 192.168.2.201 and 192.168.2.202:

```
cluster02::> cluster peer create -peer-addr 192.168.2.201,192.168.2.202
Enter the passphrase:
Please enter the passphrase again:
```

Enter the passphrase for the peer relationship when prompted.

2. On the data protection source cluster, authenticate the source cluster to the destination cluster:

```
cluster peer create -peer-addr peer_LIF_IPs -ip-space ip-space
```

For complete command syntax, see the man page.

The following example authenticates the local cluster to the remote cluster at intercluster LIF IP addresses 192.140.112.203 and 192.140.112.204:

```
cluster01::> cluster peer create -peer-addr 192.168.2.203,192.168.2.204
Please confirm the passphrase:
Please confirm the passphrase again:
```

Enter the passphrase for the peer relationship when prompted.

3. Verify that the cluster peer relationship was created:

```
cluster peer show -instance
```

For complete command syntax, see the man page.

```
cluster01::> cluster peer show -instance
Peer Cluster Name: cluster01
Remote Intercluster Addresses: 192.168.2.201,192.168.2.202
Availability: Available
Remote Cluster Name: cluster02
Active IP Addresses: 192.168.2.201,192.168.2.202
Cluster Serial Number: 1-80-000013
```

4. Check the connectivity and status of the nodes in the peer relationship:

```
cluster peer health show
```

For complete command syntax, see the man page.

```
cluster01::> cluster peer health show
Node          cluster-Name          Node-Name
          Ping-Status          RDB-Health Cluster-Health Avail...
-----
cluster01-01
          cluster02          cluster02-01
          Data: interface_reachable
          ICMP: interface_reachable true          true          true
          cluster02-02
          Data: interface_reachable
          ICMP: interface_reachable true          true          true
cluster01-02
          cluster02          cluster02-01
          Data: interface_reachable
          ICMP: interface_reachable true          true          true
          cluster02-02
          Data: interface_reachable
          ICMP: interface_reachable true          true          true
```

Create an intercluster SVM peer relationship (ONTAP 9.2 and earlier)

You can use the `vserver peer create` command to create a peer relationship

between SVMs on local and remote clusters. After the peer relationship has been created, you can run `vserver peer accept` on the remote cluster to authorize the peer relationship.

What you'll need

The source and destination clusters must be peered.

About this task

You can create a peer relationships between SVMs in the same cluster for local data backup. For more information, see the `vserver peer create` man page.

Administrators occasionally use the `vserver peer reject` command to reject a proposed SVM peer relationship. If the relationship between SVMs is in the `rejected` state, you must delete the relationship before you can create a new one. For more information, see the `vserver peer delete` man page.

Steps

1. On the data protection source cluster, create a peer relationship with an SVM on the data protection destination cluster:

```
vserver peer create -vserver local_SVM -peer-vserver remote_SVM -applications snapmirror|file-copy|lun-copy -peer-cluster remote_cluster
```

The following example creates a peer relationship between the local SVM `pvs1` and the remote SVM `vs1`

```
cluster01::> vserver peer create -vserver pvs1 -peer-vserver vs1  
-applications snapmirror -peer-cluster cluster02
```

If the local and remote SVMs have the same names, you must use a *local name* to create the SVM peer relationship:

```
cluster01::> vserver peer create -vserver vs1 -peer-vserver  
vs1 -applications snapmirror -peer-cluster cluster01  
-local-name cluster1vs1LocallyUniqueName
```

2. On the data protection source cluster, verify that the peer relationship has been initiated:

```
vserver peer show-all
```

For complete command syntax, see the man page.

The following example shows that the peer relationship between SVM `pvs1` and SVM `vs1` has been initiated:

```
cluster01::> vserver peer show-all
```

Vserver Applications	Peer Vserver	Peer State	Peer Cluster	Peering
-----	-----	-----	-----	
pvs1	vs1	initiated	Cluster02	
snapmirror				

3. On the data protection destination cluster, display the pending SVM peer relationship:

```
vserver peer show
```

For complete command syntax, see the man page.

The following example lists the pending peer relationships for `cluster02`:

```
cluster02::> vserver peer show
```

Vserver	Peer Vserver	Peer State
-----	-----	-----
vs1	pvs1	pending

4. On the data protection destination cluster, authorize the pending peer relationship:

```
vserver peer accept -vserver local_SVM -peer-vserver remote_SVM
```

For complete command syntax, see the man page.

The following example authorizes the peer relationship between the local SVM `vs1` and the remote SVM `pvs1`:

```
cluster02::> vserver peer accept -vserver vs1 -peer-vserver pvs1
```

5. Verify the SVM peer relationship:

```
vserver peer show
```

```
cluster01::> vserver peer show
```

	Peer	Peer		Peering
Remote				
Vserver	Vserver	State	Peer Cluster	Applications
Vserver				
-----	-----	-----	-----	-----

pvs1	vs1	peered	cluster02	snapmirror
vs1				

Copyright Information

Copyright © 2022 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.