



Configure peer relationships (ONTAP 9.2 and earlier)

ONTAP 9

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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 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::> vservers 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:

```
vservers peer show
```

For complete command syntax, see the man page.

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

```
cluster02::> vservers peer show
```

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

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

```
vservers peer accept -vservers local_SVM -peer-vservers 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::> vservers peer accept -vservers vs1 -peer-vservers pvs1
```

5. Verify the SVM peer relationship:

```
vservers peer show
```

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

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

pvs1	vs1	peered	cluster02	snapmirror
vs1				

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