Configure peer relationships (Beginning with ONTAP 9.3)

System Manager Classic

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Configure peer relationships (Beginning with ONTAP 9.3)

A peer relationship defines the network connections that enable clusters and SVMs to exchange data securely. Beginning with ONTAP 9.3, until ONTAP 9.7, you can use the ONTAP System Manager *classic* interface to perform a simplified method to configure peer relationships between clusters and between SVMs.

Create intercluster LIFs (Beginning with ONTAP 9.3)

Beginning with ONTAP 9.3, until ONTAP 9.7, you can use the ONTAP System Manager *classic* interface to create intercluster logical interfaces (LIFs), which enable the cluster network to communicate with a node. You must create an intercluster LIF within each IPspace that will be used for peering, on each node in each cluster for which you want to create a peer relationship.

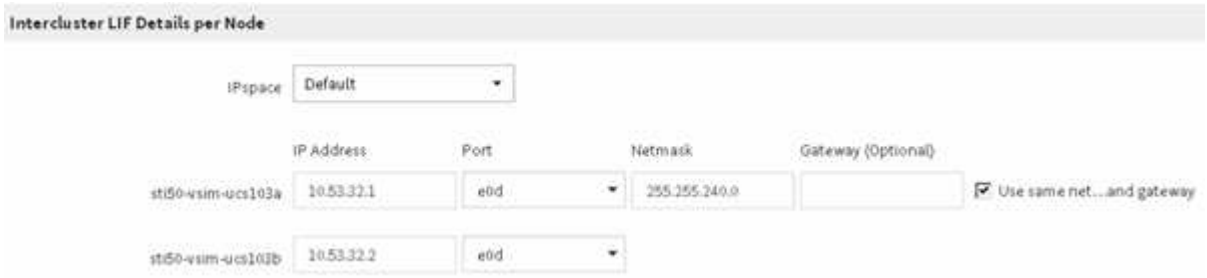
About this task

For example, if you have a four-node cluster that you want to peer with cluster X over IPspace A, and peer with cluster Y over IPspace Y, then you need a total of eight intercluster LIFs; Four on IPspace A (one per node), and four on IPspace Y (one per node).

You must perform this procedure on both clusters for which you want to create a peer relationship.

Steps

1. Click **Configuration** > **Advanced Cluster Setup**.
2. In the **Setup Advanced Cluster Features** window, click **Proceed** next to the **Cluster Peering** option.
3. Select an IPspace from the **IPspace** list.
4. Enter the IP address, port, network mask, and gateway details of each node.



5. Click **Submit and Continue**.

What to do next

You should enter the cluster details in the Cluster Peering window to continue with cluster peering.

Create a cluster peer relationship (Beginning with ONTAP 9.3)

Beginning with ONTAP 9.3, until ONTAP 9.7, you can use the ONTAP System Manager *classic* interface create a cluster peer relationship between two clusters by providing a system-generated passphrase and the IP addresses of the intercluster LIFs of the remote cluster.

About this task

Beginning with ONTAP 9.6, cluster peering encryption is enabled by default on all newly created cluster peering relationships. Cluster peering encryption must be enabled manually for peering relationship created prior to upgrading to ONTAP 9.6. Cluster peering encryption is not available for clusters running ONTAP 9.5 or earlier. Therefore, both clusters in the peering relationship must be running ONTAP 9.6 in order to enable cluster peering encryption.

Cluster peering encryption uses the Transport Security Layer (TLS) to secure cross-cluster peering communications for ONTAP features such as SnapMirror and FlexCache.

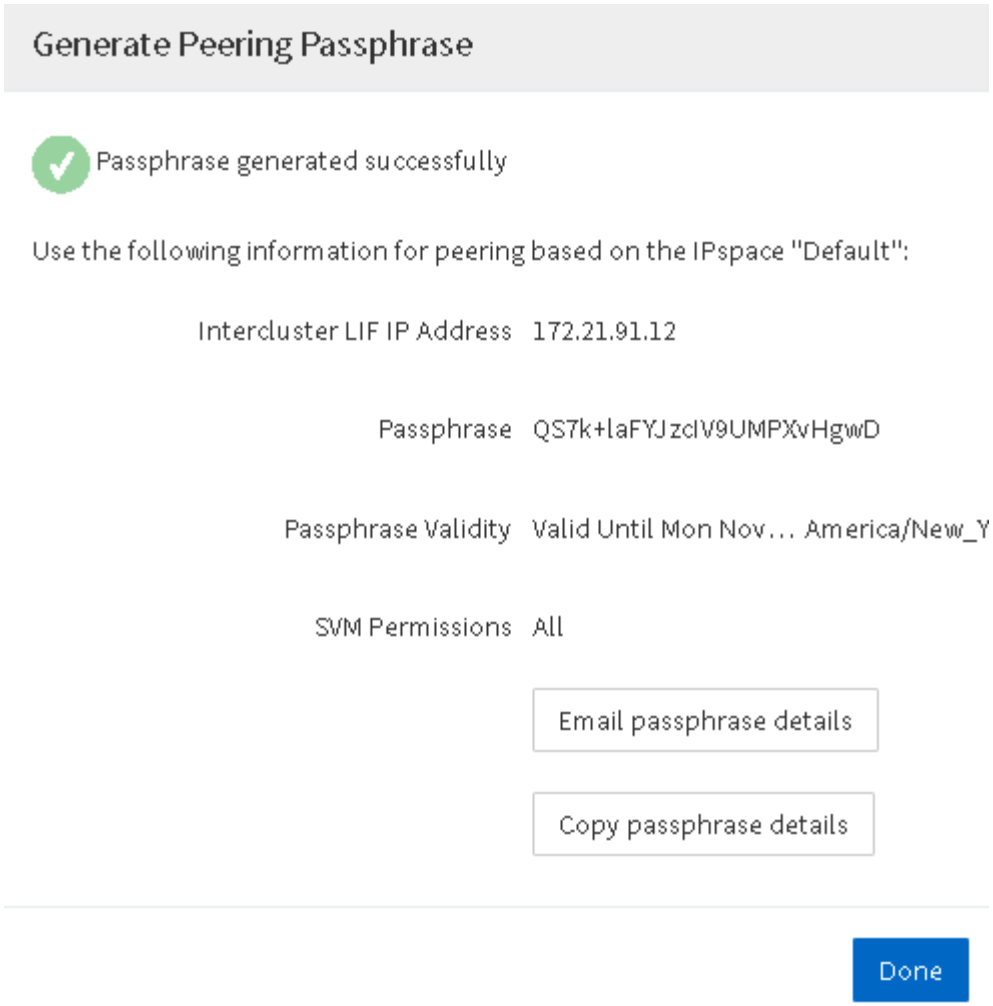
Steps

1. In the **Target Cluster Intercluster LIF IP addresses** field, enter the IP addresses of the intercluster LIFs of the remote cluster.
2. Generate a passphrase from the remote cluster.
   a. Specify the management address of the remote cluster.
   b. Click **Management URL** to launch ONTAP System Manager on the remote cluster.
   c. Log in to the remote cluster.
   d. In the **Cluster Peers** window, click **Generate Peering Passphrase**.
   e. Select the IPspace, validity of the passphrase, and SVM permissions.

      You can allow all of the SVMs or selected SVMs for peering. When a SVM peer request is generated, the permitted SVMs are automatically peered with the source SVMs without requiring you to accept the peer relationship from the remote SVMs.

   f. Click **Generate**.

      The passphrase information is displayed.



g. Click **Copy passphrase details** or **Email passphrase details**.

h. Click **Done**.

3. In the source cluster, enter the generated passphrase that you obtained in Step 2.
4. Click **Initiate Cluster Peering**.

   The cluster peer relationship is successfully created.

5. Click **Continue**.

What to do next

You should specify the SVM details in the SVM Peering window to continue with the peering process.

Create SVM peer relationships

Beginning with ONTAP 9.3, until ONTAP 9.7, you can use the ONTAP System Manager *classic* interface to create SVM peer relationships. The storage virtual machine (SVM) peering enables you to establish a peer relationship between two SVMs for data protection.

Steps

1. Select the initiator SVM.
2. Select the target SVM from the list of permitted SVMs.
3. Click **Initiate SVM Peering**.
4. Click **Continue**.

What to do next

You can view the intercluster LIFs, cluster peer relationship, and SVM peer relationship in the Summary window.

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