NetApp

Set up the cluster

System Manager Classic

NetApp
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Setting up the cluster

Setting up the cluster involves gathering the configuration information, creating cluster-management and node-management interfaces, adding licenses, setting up the cluster time, and monitoring HA pairs.

Updating the cluster name

You can use System Manager to modify the name of a cluster when required.

Steps

1. Click **Configuration** > **Cluster** > **Configuration Updates**.

2. In the **Cluster Details** pane, click **Update Cluster Name**.

3. In the **Update Cluster Name** dialog box, specify a new name for the cluster, and then click **Submit**.

Changing the cluster password

You can use System Manager to reset the password of a cluster.

Steps

1. Click **Configuration** > **Cluster** > **Configuration Updates**.

2. In the **Cluster Details** pane, click **Change Password**.

3. In the **Change Password** dialog box, specify a new password, confirm the new password, and then click **Change**.

Editing DNS configurations

You can use System Manager to add host information to centrally manage DNS configurations. You can modify the DNS details when you want to change the domain names or IP addresses.

Steps

1. Click **Configuration** > **Cluster** > **Configuration Updates**.

2. In the **Cluster Details** pane, click **Edit DNS Configuration**.

3. In the **DNS Domains** area, add or modify the DNS domain names.

4. In the **Name Servers** area, add or modify the IP addresses.

5. Click **OK**.

Create a cluster management logical interface

You can use System Manager to create a cluster management logical interface (LIF) to provide a single management interface for a cluster. You can use this LIF to manage all of the activities of the cluster.

Steps

1. Click **Configuration** > **Cluster** > **Configuration Updates**.
2. In the **Cluster Details** pane, click **Create Cluster-management LIF**.
3. In the **Create Cluster-Management LIF** dialog box, specify a name for the cluster management LIF.
4. Assign an IP address to the cluster management LIF:

If you want to…	Then…
Specify the IP address by using a subnet	a. Select **Using a subnet**. b. In the Add Details dialog box, select the subnet from which the IP address should be assigned. For an intercluster LIF, only the subnets that are associated with the selected IPspace are displayed. c. If you want to assign a specific IP address to the LIF, select **Use a specific IP address**, and then type the IP address. The IP address that you specify is added to the subnet if the IP address is not already present in the subnet range. d. Click **OK**.

Specify the IP address manually without using a subnet	a. Select **Without a subnet**.
	
	b. In the Add Details dialog box, perform the following steps:
	
	   i. Specify the IP address and the network mask or prefix.
	
	   ii. Optional: Specify the gateway.
	
	   iii. If you do not want to use the default value for the Destination field, specify a new destination value.
	
	   If you do not specify a value, the Destination field is populated with the default value based on the family of the IP address.
	
	   If a route does not exist, a new route is automatically created based on the gateway and destination.
	
	c. Click **OK**.

5. Select the required ports from the **Port details** area.
6. Click **Create**.

Editing the node name

You can use System Manager to modify the name of a node when required.

Steps

1. Click **Configuration** > **Cluster** > **Configuration Updates**.

2. In the **Nodes** tab, select the node that you want to rename, and then click **Edit Node Name**.

3. In the **Edit Node Name** dialog box, type the new name for the node, and then click **Submit**.

Create a node management logical interface

You can use System Manager to create a dedicated node management logical interface (LIF) for managing a particular node in a cluster. You can use this LIF to manage the system maintenance activities of the node.

Steps

1. Click **Configuration** > **Cluster** > **Configuration Updates**.

2. In the **Nodes** tab, select the node for which you want to create a node management LIF, and then click **Create Node-Management LIF**.

3. In the **Create Node-Management LIF** dialog box, specify a name for the node management LIF.

4. Assign the IP address to the node management LIF:

If you want to…	Then…

Specify the IP address by using a subnet	a. Select **Using a subnet**.
	
	b. In the Add Details dialog box, select the subnet from which the IP address should be assigned.
	
	   For an intercluster LIF, only the subnets that are associated with the selected IPspace are displayed.
	
	c. If you want to assign a specific IP address to the LIF, select **Use a specific IP address**, and then type the IP address.
	
	   The IP address that you specify is added to the subnet if the IP address is not already present in the subnet range.
	
	d. Click **OK**.

If you want to…	Then…

Specify the IP address manually without using a subnet	a. Select **Without a subnet**.
	
	b. In the Add Details dialog box, perform the following steps:
	
	   i. Specify the IP address and the network mask or prefix.
	
	   ii. Optional: Specify the gateway.
	
	   iii. If you do not want to use the default value for the Destination field, specify a new destination value.
	
	     If you do not specify a value, the Destination field is populated with the default value based on the family of the IP address.
	
	     If a route does not exist, a new route is automatically created based on the gateway and destination.
	
	c. Click **OK**.

5. Select the required ports from the **Ports details** area.

6. Click **Create**.

What to do next

If you want to delete an existing node management LIF, you must use the command-line interface (CLI).

Editing AutoSupport settings

You can use System Manager to modify your AutoSupport settings to specify an email address from which email notifications are sent and to add multiple email host names.

Steps

1. Click ⚙ > **AutoSupport**.

2. Select the node for which you want to modify AutoSupport settings, and then click **Edit**.

3. In the **Email Recipient** tab, type the email address from which email notifications are sent, specify the email recipients and the message content for each email recipient, and then add the mail hosts.

   You can add up to five email addresses for each host.

4. In the **Others** tab, select a transport protocol for delivering the email messages, and then specify the HTTP or HTTPS proxy server details.

5. Click **OK**.

Add licenses

If your storage system software was installed at the factory, System Manager automatically adds the software to its list of licenses. If the software was not installed at the factory or if you want to add additional software licenses, you can add the software license by using System Manager.

Before you begin

The software license code for the specific ONTAP service must be available.

About this task

- When you add a new license in a MetroCluster configuration, it is a best practice to add the license on the surviving site cluster as well.

- You cannot use System Manager to add the Cloud Volumes ONTAP license.

  The Cloud Volumes ONTAP license is not listed in the license page. System Manager does not raise any alert about the entitlement risk status of the Cloud Volumes ONTAP license.

- You can upload only capacity-based licenses.

  The capacity-based licenses are of "json" type.

Steps

1. Click **Configuration** > **Cluster** > **Licenses**.
2. Click **Add**.
3. In the **Add License** dialog box, perform the appropriate steps:

If you want to…	Do this…
Add a license for a specific ONTAP service	a. Enter the software license key. You can add multiple licenses by entering the software license keys separated by commas. b. Click **Add**.
Add a capacity based license	a. Click Browse, and then select the capacity based license file. b. Click **Add**.
Add a license for a specific ONTAP service and add a capacity-based license	a. Enter the software license key. You can add multiple licenses by entering the software license keys separated by commas. b. Click Browse, and then select the capacity based license file. c. Click **Add**.

The new license is added.

The Add License Status dialog box displays the list of licenses that were added successfully. The dialog box also displays the license keys of the licenses that were not added and the reason why the licenses were not added.

4. Click **Close**.

Results

The software license is added to your storage system and is displayed in the list of licenses in the Licenses window.

Related information

Licenses window

Setting the time zone for a cluster

You can manually set or modify the time zone for a cluster by using the Edit Date and Time dialog box in System Manager. You can also add time servers to the cluster.

About this task

Network Time Protocol (NTP) is always enabled on a cluster. You can disable NTP by contacting technical support. However, disabling NTP is not recommended.

You can add the IP addresses of the NTP server at your site. This server is used to synchronize the time across the cluster.

You can specify either an IPv4 address or an IPv6 address for the time server.

Steps
1. Click ⚙.
2. In the **Setup** panel, click **Date and Time**.
3. Click **Edit**.
4. In the **Edit Date and Time** dialog box, select the time zone.
5. Specify the IP address of the time servers, and then click **Add**.
6. Click **OK**.
7. Verify the changes that you made to the time settings in the **Date and Time** window.

Related information

Date and Time window

Creating a Kerberos realm configuration

Monitoring HA pairs

You can use System Manager to monitor the node status and interconnect status of all of the high-availability (HA) pairs in a cluster. You can also verify whether takeover or

giveback is enabled or has occurred, and view the reasons why takeover or giveback is not currently possible.

Steps

1. Click **Configuration** > **Cluster** > **High Availability**.

2. In the **High Availability** window, click the HA pair image to view details such as the cluster HA status, node status, interconnect status, and hardware model of each node.

   If the cluster management LIF or the data LIFs of a node are not in their home node, a warning message is displayed indicating that the node has some LIFs that are not in the home node.

Related information

High Availability window