



Qtrees

System Manager Classic

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Qtrees

You can use System Manager create, edit, and delete Qtrees.

Related information

[ONTAP concepts](#)

[Logical storage management](#)

[NFS management](#)

[SMB/CIFS management](#)

Create qtrees

Qtrees enable you to manage and partition your data within a volume. You can use the Create Qtree dialog box in System Manager to add a new qtree to a volume on your storage system.

Steps

1. Click **Storage > Qtrees**.
2. From the drop-down menu in the **SVM** field, select the storage virtual machine (SVM) on which you want to create a qtree.
3. Click **Create**.
4. In the **Details** tab of the **Create Qtree** dialog box, type a name for the qtree.
5. Select the volume to which you want to add the qtree.

The Volume browse list includes only the volumes that are online.

6. If you want to disable opportunistic locks (oplocks) for the qtree, clear the **Enable Oplocks for files and directories in this Qtree** check box.

By default, oplocks are enabled for each qtree.

7. If you want to change the default inherited security style, select a new security style.

The default security style of the qtree is the security style of the volume that contains the qtree.

8. If you want to change the default inherited export policy, either select an existing export policy or create an export policy.

The default export policy of the qtree is the export policy that is assigned to the volume that contains the qtree.

9. If you want to restrict the disk space usage, click the **Quotas** tab.
 - a. If you want to apply quotas on the qtree, click **Qtree quota**, and then specify the disk space limit.
 - b. If you want to apply quotas for all the users on the qtree, click **User quota**, and then specify the disk space limit.

10. Click **Create**.

11. Verify that the qtree that you created is included in the list of qtrees in the **Qtrees** window.

Related information

[Qtrees window](#)

Deleting qtrees

You can delete a qtree and reclaim the disk space that the qtree uses within a volume by using System Manager. When you delete a qtree, all of the quotas that are applicable to that qtree are no longer applied by ONTAP.

Before you begin

- The qtree status must be normal.
- The qtree must not contain any LUN.

Steps

1. Click **Storage > Qtrees**.
2. In the **Qtrees** window, select one or more qtrees that you want to delete, and then click **Delete**.
3. Select the confirmation check box, and then click **Delete**.
4. Verify that the qtree that you deleted is no longer included in the list of qtrees in the **Qtrees** window.

Related information

[Qtrees window](#)

Editing qtrees

You can use System Manager to modify the properties of a qtree such as the security style, enable or disable opportunistic locks (oplocks), and assign a new or existing export policy.

Steps

1. Click **Storage > Qtrees**.
2. Select the qtree that you want to edit, and then click **Edit**.
3. In the **Edit Qtree** dialog box, edit the following properties as required:
 - Oplocks
 - Security style
 - Export policy
4. Click **Save**.
5. Verify the changes that you made to the selected qtree in the **Qtrees** window.

Related information

[Qtrees window](#)

Assigning export policies to qtrees

Instead of exporting an entire volume, you can export a specific qtree on a volume to make it directly accessible to clients. You can use System Manager to export a qtree by assigning an export policy to the qtree. You can assign an export policy to one or more qtrees from the Qtrees window.

Steps

1. Click **Storage > Qtrees**.
2. From the drop-down menu in the SVM field, select the storage virtual machine (SVM) on which the qtrees that you want to export reside.
3. Select one or more qtrees for which you want to assign an export policy, and then click **Change Export Policy**.
4. In the **Export Policy** dialog box, either create an export policy or select an existing export policy.

[Creating an export policy](#)

5. Click **Save**.
6. Verify that the export policy and its related export rules that you assigned to the qtrees are displayed in the **Details** tab of the appropriate qtrees.

Viewing qtree information

You can use the Qtrees window in System Manager to view the volume that contains the qtree, the name, security style, and status of the qtree, and the oplocks status.

Steps

1. Click **Storage > Qtrees**.
2. From the drop-down menu in the **SVM** field, select the storage virtual machine (SVM) on which the qtree about which you want to view information resides.
3. Select the qtree from the displayed list of qtrees.
4. Review the qtree details in the **Qtrees** window.

Qtree options

A qtree is a logically defined file system that can exist as a special subdirectory of the root directory within a FlexVol volume. Qtrees are used to manage and partition data within the volume.

If you create qtrees on a FlexVol that contains volumes, the qtrees appear as directories. Therefore, you need to be careful to not delete the qtrees accidentally when deleting volumes.

You can specify the following options when creating a qtree:

- Name of the qtree
- Volume in which you want the qtree to reside

- Oplocks

By default, oplocks are enabled for the qtree. If you disable oplocks for the entire storage system, oplocks are not set even if you enable oplocks for each qtree.

- Security style

The security style can be UNIX, NTFS, or Mixed (UNIX and NTFS). By default, the security style of the qtree is the same as that of the selected volume.

- Export policy

You can create a new export policy or select an existing policy. By default, the export policy of the qtree is same as that of the selected volume.

- Space usage limits for qtree and user quotas

Qtrees window

You can use the Qtrees window to create, display, and manage information about qtrees.

Command buttons

- **Create**

Opens the Create Qtree dialog box, which enables you to create a new qtree.

- **Edit**

Opens the Edit Qtree dialog box, which enables you to change the security style and to enable or disable oplocks (opportunistic locks) on a qtree.

- **Change Export Policy**

Opens the Export Policy dialog box, which enables you to assign one or more qtrees to new or existing export policies.

- **Delete**

Deletes the selected qtree.

This button is disabled unless the status of the selected qtree is normal.

- **Refresh**

Updates the information in the window.

Qtree list

The qtree list displays the volume in which the qtree resides and the qtree name.

- **Name**

Displays the name of the qtree.

- **Volume**

Displays the name of the volume in which the qtree resides.

- **Security Style**

Specifies the security style of the qtree.

- **Status**

Specifies the current status of the qtree.

- **Oplocks**

Specifies whether the oplocks setting is enabled or disabled for the qtree.

- **Export Policy**

Displays the name of the export policy to which the qtree is assigned.

Details area

- **Details tab**

Displays detailed information about the selected qtree, such as the mount path of the volume containing the qtree, details about the export policy, and the export policy rules.

Related information

[Creating qtrees](#)

[Deleting qtrees](#)

[Editing qtrees](#)

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