



# **volume qtree commands**

## **Command reference**

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# volume qtree commands

## volume qtree create

Create a new qtree

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

### Description

This command creates a qtree in the Vserver and volume you specify. You can create up to 4,994 qtrees per volume.

You can optionally specify the following attributes when creating a new qtree:

- Security style
- Opportunistic lock mode
- User ID
- Group ID
- UNIX permissions
- Export Policy

### Parameters

**-vserver <vserver name> - Vserver Name**

This specifies the name of the Vserver on which the volume containing the qtree belongs.

**{ -volume <volume name> - Volume Name**

This specifies the name of the volume that will contain the qtree you are creating.

**-qtree <qtree name> - Qtree Name**

This specifies the name of the qtree you are creating.

A qtree name cannot contain a forward slash (/). The qtree name cannot be more than 64 characters long.

**| -qtree-path <qtree path> - Actual (Non-Junction) Qtree Path }**

The qtree path argument in the format /vol/<volume name>/<qtree name> can be specified instead of specifying volume and qtree as separate arguments.

**[-security-style <security style>] - Security Style**

This optionally specifies the security style for the qtree, which determines how access to the qtree is controlled. The supported values are *unix* (for UNIX uid, gid and mode bits), *ntfs* (for CIFS ACLs), and *mixed* (for NFS and CIFS access). If you do not specify a security style for the qtree, it inherits the security style of its containing volume.

**[-oplock-mode {enable|disable}] - Oplock Mode**

This optionally specifies whether oplocks are enabled for the qtree. If you do not specify a value for this parameter, it inherits the oplock mode of its containing volume.

**[`-user <user name>`] - User ID**

This optionally specifies the name or ID of the user that is set as the owner of the qtree.

**[`-group <group name>`] - Group ID**

This optionally specifies the name or ID of the group that is set as the owner of the qtree.

**[`-m, -unix-permissions <unix perm>`] - Unix Permissions**

This optionally specifies the UNIX permissions for the qtree when the `-security-style` is set to `unix` or `mixed`. You can specify UNIX permissions either as a four-digit octal value (for example, 0700) or in the style of the UNIX `ls` command (for example, `-rwxr-x---`). For information on UNIX permissions, see the UNIX or Linux documentation. If you do not specify UNIX permissions for the qtree, it inherits the UNIX permissions of its containing volume.

**[`-export-policy <text>`] - Export Policy**

This optional parameter specifies the name of the export policy associated with the qtree. For information on export policies, see the documentation for the [vserver export-policy create](#) command. If you do not specify a value for this parameter, it inherits the export policy of its containing volume.

**[`-qos-policy-group <text>`] - QoS policy group**

A policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated. If you do not assign a policy group to a qtree, the system does not monitor and control the traffic to it.

## Examples

The following example creates a qtree named `qtree1`. The Vserver name is `vs0` and the volume containing the qtree is named `vol1`. The qtree has a mixed security style. Its other attributes are inherited from volume `vol1`.

```
cluster1::> volume qtree create -vserver vs0 -volume vol1 -qtree qtree1
-security-style mixed
```

The following example uses a 7G-compatible command to create the qtree.

```
cluster1::> vserver context vs0
vs0::> qtree create /vol/vol1/qtree1
```

## Related Links

- [vserver export-policy create](#)

## volume qtree delete

Delete a qtree

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

This command deletes a qtree. The length of time that it takes to delete a qtree depends on the number of directories and files it contains. You can monitor the progress of the delete operation by using the [job show](#) and [job watch-progress](#) commands, respectively.

The automatically created qtree in the volume - qtree0, listed in CLI output as "" - cannot be deleted.

NOTE:

- Quota rules associated with this qtree in all the quota policies will be deleted when you delete this qtree. Qtree deletion will not be allowed if Storage-level Access Guard (SLAG) is configured.

## Parameters

**-vserver <vserver name> - Vserver Name**

This specifies the name of the Vserver on which the volume containing the qtree belongs.

**{ -volume <volume name> - Volume Name**

This specifies the name of the volume containing the qtree to be deleted.

**-qtree <qtree name> - Qtree Name**

This specifies the name of the qtree to be deleted.

**| -qtree-path <qtree path> - Actual (Non-Junction) Qtree Path }**

The qtree path argument in the format /vol/<volume name>/<qtree name> can be specified instead of specifying volume and qtree as separate arguments.

**[-force <true>] - Force Delete (privilege: advanced)**

This optionally forces the qtree delete operation to proceed when the qtree contains files. The default setting is false (that is, the qtree will not be deleted if it contains files). This parameter is available only at the advanced privilege and higher.

**[-foreground <true>] - Foreground Process**

This optionally specifies whether the qtree delete operation runs as a foreground process. The default setting is false (that is, the operation runs in the background).

## Examples

The following example deletes a qtree named qtree4. The Vserver name is vs0 and the volume containing the qtree is named vol1.

```
cluster1::> volume qtree delete -vserver vs0 -volume vol1 -qtree qtree4
WARNING: Are you sure you want to delete qtree qtree4 in volume vol1
vserver vs0? {y|n}: y
[Job 38] Job is queued: Delete qtree qtree4 in volume vol1 vserver vs0.
```

## Related Links

- [job show](#)
- [job watch-progress](#)

# volume qtree modify

## Modify qtree attributes

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

This command allows you to modify the following attributes of an existing qtree in the given Vserver and volume:

- Security style
- Opportunistic lock mode
- User ID
- Group ID
- UNIX permissions
- Export policy

## Parameters

### **-vserver <vserver name> - Vserver Name**

This specifies the name of the Vserver on which the volume containing the qtree belongs.

### **{ -volume <volume name> - Volume Name**

This specifies the name of the volume containing the qtree to be modified.

### **-qtree <qtree name> - Qtree Name**

This specifies the name of the qtree to be modified. You can modify the attributes of qtree0 (represented as "" in the CLI) by omitting the `-qtree` parameter from the command or by specifying the value "" for the `-qtree` parameter.

### **| -qtree-path <qtree path> - Actual (Non-Junction) Qtree Path }**

The qtree path argument in the format `/vol/<volume name>/<qtree name>` can be specified instead of specifying volume and qtree as separate arguments. The automatically created qtree0 can be represented as `/vol/<volume name>`.

### **[-security-style <security style>] - Security Style**

This optionally modifies the security style for the qtree. The supported values are *unix* (for UNIX uid, gid and mode bits), *ntfs* (for CIFS ACLs), and *mixed* (for NFS and CIFS access). Modifying a qtree's security style will not affect any of the files in the other qtrees of this volume.

### **[-oplock-mode {enable|disable}] - Oplock Mode**

This optionally modifies whether oplocks are enabled for the qtree.

Modifying qtree0's oplock mode will not affect any of the files in the other qtrees of this volume.

**[`-user <user name>`] - User ID**

This optionally modifies the name or ID of the user that is set as the owner of the qtree.

**[`-group <group name>`] - Group ID**

This optionally modifies the name or ID of the group that is set as the owner of the qtree.

**[`-unix-permissions <unix perm>`] - Unix Permissions**

This optionally modifies the UNIX permissions for the qtree. You can specify UNIX permissions either as a four-digit octal value (for example, 0700) or in the style of the UNIX `ls` command (for example, ``-rwxr-x----`'). For information on UNIX permissions, see the UNIX or Linux documentation.

The unix permissions can be modified only for qtrees with unix or mixed security style.

**[`-export-policy <text>`] - Export Policy**

This optional parameter modifies the export policy associated with the qtree. If you do not specify an export policy name, the qtree inherits the export policy of the containing volume. For information on export policy, see the documentation for the [vserver export-policy create](#) command.

**[`-qos-policy-group <text>`] - QoS Policy Group**

This optional parameter specifies which QoS policy group to apply to the qtree. This policy group defines measurable service level objectives (SLOs) that apply to the storage objects with which the policy group is associated. If you do not assign a policy group to a qtree, the system does not monitor and control the traffic to it. To remove this qtree from a policy group, enter the reserved keyword "none".

## Examples

The following example modifies a qtree named qtree1. The Vserver name is vs0 and the volume containing the qtree is named vol1. The qtree now has a UNIX security style and oplocks are enabled.

```
cluster1:> volume qtree modify -vserver vs0 -volume vol1 -qtree qtree1  
-security-style unix -oplocks enabled
```

## Related Links

- [vserver export-policy create](#)

# volume qtree oplocks

## Modify qtree oplock mode

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

This command allows you to display or modify the opportunistic lock mode of a qtree.

## Parameters

### **-vserver <vserver name> - Vserver Name**

This specifies the name of the Vserver on which the volume containing the qtree belongs.

### **{ -volume <volume name> - Volume Name**

This specifies the name of the volume containing the qtree.

### **-qtree <qtree name> - Qtree Name**

This specifies the name of the qtree for which the oplock mode is being displayed or modified.

### **| -qtree-path <qtree path> - Actual (Non-Junction) Qtree Path }**

The qtree path argument in the format /vol/<volume name>/<qtree name> can be specified instead of specifying volume and qtree as separate arguments. The automatically created qtree0 can be represented as /vol/<volume name>.

### **[-oplock-mode {enable|disable}] - Oplock Mode**

This specifies the new oplock mode of the qtree. If this parameter is not specified, then the current oplock mode of the qtree is displayed.

Modifying qtree0's oplock mode will not affect any of the files in the other qtrees of this volume.

## Examples

The following example displays the oplock mode of a qtree called qtree1. The Vserver name is vs0 and the volume containing the qtree is named vol1.

```
cluster1::> volume qtree oplocks -vserver vs0 -volume vol1 -qtree qtree1
/vol/vol1/qtree1 has mixed security style and oplocks are disabled.
```

The following example modifies the oplock mode of a qtree called qtree2 to enabled. The Vserver name is vs0 and the volume containing the qtree is named vol1.

```
cluster1::> volume qtree oplocks -vserver vs0 -volume vol1 -qtree qtree2
-oplock-mode enable
```

The following example uses a 7G-compatible command to display and modify the oplock mode of a qtree.

```
cluster1::> vsserver context vs0
vs0::> qtree oplocks /vol/vol1/qtree1
/vol/vol1/qtree1 has mixed security style and oplocks are disabled.
vs0::> qtree oplocks /vol/vol1/qtree2 enable
```



# volume qtree rename

Rename an existing qtree

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

This command allows you to rename an existing qtree.

The automatically created qtree in the volume - qtree0, listed in CLI output as "" - cannot be renamed.

## Parameters

**-vserver <vserver name> - Vserver Name**

This specifies the name of the Vserver on which the volume containing the qtree belongs.

**{ -volume <volume name> - Volume Name**

This specifies the name of the volume containing the qtree to be renamed.

**-qtree <qtree name> - Qtree Name**

This specifies the name of the qtree to be renamed.

**| -qtree-path <qtree path> - Actual (Non-Junction) Qtree Path }**

The qtree path argument in the format /vol/<volume name>/<qtree name> can be specified instead of specifying volume and qtree as separate arguments.

**[-newname <qtree name>] - Qtree New Name**

This specifies the new name of the qtree. The new qtree name cannot contain a forward slash (/) and cannot be more than 64 characters long.

## Examples

The following example renames a qtree named qtree3 to qtree4. The Vserver name is vs0 and the volume containing the qtree is named vol1.

```
cluster1::> volume qtree rename -vserver vs0 -volume vol1 -qtree qtree3  
-newname qtree4
```

# volume qtree security

Modify qtree security style

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

This command allows you to display or modify the security style of a qtree.

## Parameters

### **-vserver <vserver name> - Vserver Name**

This specifies the name of the Vserver on which the volume containing the qtree belongs.

### **{ -volume <volume name> - Volume Name**

This specifies the name of the volume containing the qtree.

### **-qtree <qtree name> - Qtree Name**

This specifies the name of the qtree for which the security style is being displayed or modified.

### **| -qtree-path <qtree path> - Actual (Non-Junction) Qtree Path }**

The qtree path argument in the format `/vol/<volume name>/<qtree name>` can be specified instead of specifying volume and qtree as separate arguments. The automatically created qtree0 can be represented as `/vol/<volume name>`.

### **[-security-style <security style>] - Security Style**

This specifies the new security style of the qtree. If this parameter is not specified, then the current security style of the qtree is displayed. The supported values are *unix* (for UNIX uid, gid and mode bits), *ntfs* (for CIFS ACLs), and *mixed* (for NFS and CIFS access). Modifying a qtree's security style will not affect any of the files in the other qtrees of this volume.

## Examples

The following example displays the security style of a qtree called qtree1. The Vserver name is vs0 and the volume containing the qtree is named vol1.

```
cluster1::> volume qtree security -vserver vs0 -volume vol1 -qtree qtree1
/vol/vol1/qtree1 has mixed security style and oplocks are disabled.
```

The following example modifies the security style of a qtree called qtree2 to unix. The Vserver name is vs0 and the volume containing the qtree is named vol1.

```
cluster1::> volume qtree security -vserver vs0 -volume vol1 -qtree qtree2
-security-style unix
```

The following example uses a 7G-compatible command to display and modify the security style of a qtree.

```
cluster1::> vsenter context vs0
vs0::> qtree security /vol/vol1/qtree1
/vol/vol1/qtree1 has mixed security style and oplocks are disabled.
vs0::> qtree security /vol/vol1/qtree2 unix
```

# volume qtree show

Display a list of qtrees

**Availability:** This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

## Description

This command displays information about qtrees for online volumes. By default, the command displays the following information about all qtrees in the cluster:

- Vserver name
- Volume name
- Qtree name
- Security style (unix, ntfs, mixed or unified)
- Whether oplocks is enabled
- Status (normal or readonly)

The display will also include information about Qtree 0. When you create a volume, a special qtree referred to as "qtree0", also called the default qtree is automatically created for the volume. It represents all of the data stored in a volume that is not contained in a qtree. In the CLI output, qtree0 is denoted by empty quotation marks (") and has the ID zero (0). The qtree called qtree0 cannot be manually created or deleted.

The qtree status indicates readonly for data protection and load sharing volumes.

To display detailed information about a single qtree, run the command with the `-instance` and `-qtree` parameters. The detailed view adds the following information:

- User ID
- Group ID
- UNIX permissions
- Qtree ID
- Export policy
- Is Export Policy Inherited

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-exports ]**

Displays the following information about qtree exports:

- Vserver - The name of the Vserver the qtree belongs to
- Volume - The name of the volume the qtree resides on
- Qtree name - The name of the qtree

- Policy Name - The name of the export policy assigned to the qtree
- Is Export Policy Inherited - Whether the export policy assigned to the qtree is inherited

**| [-id ]**

Displays qtree IDs in addition to the default output.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-vserver <vserver name>] - Vserver Name**

Selects information about the qtrees in the specified Vserver.

**{ [-volume <volume name>] - Volume Name**

Selects information about the qtrees in the specified volume.

**[-qtree <qtree name>] - Qtree Name**

Selects information about the qtrees that have the specified name.

**| [-qtree-path <qtree path>] - Actual (Non-Junction) Qtree Path }**

Selects information about the qtrees that have the specified path.

**[-security-style <security style>] - Security Style**

Selects information about the qtrees that have the specified security style.

**[-oplock-mode {enable|disable}] - Oplock Mode**

Selects information about the qtrees that have the specified oplock mode.

**[-user <user name>] - User ID**

Selects information about the qtrees that have the specified user.

**[-group <group name>] - Group ID**

Selects information about the qtrees that have the specified group.

**[-m, -unix-permissions <unix perm>] - Unix Permissions**

Selects information about the qtrees that have the specified UNIX permissions.

**[-qtree-id <integer>] - Qtree Id**

Selects information about the qtrees that have the specified ID. A valid qtree ID is an integer from 0 to 4994. All qtree0 (automatically created) qtrees have an ID of zero (0).

**[-status {normal|readonly}] - Qtree Status**

Selects information about the qtrees that have the specified status.

**[-export-policy <text>] - Export Policy**

Selects information about the qtrees that use the specified export policy.

**[-is-export-policy-inherited {true|false}] - Is Export Policy Inherited**

Selects information about the qtrees that inherit (true) or not inherit (false) the export policy of containing volume.

## **[-qos-policy-group <text>] - QoS policy group**

Selects information about the qtrees that use the specified QoS policy.

### **Examples**

The following example displays default information about all qtrees along with each qtree ID. Note that on vs0, no qtrees have been manually created, so only the automatically created qtrees referred to as qtree 0 are shown. On vs1, the volume named vs1\_vol1 contains qtree 0 and two manually created qtrees, qtree1 and qtree2.

```
cluster1::> volume qtree show -id
```

Vserver	Volume	Qtree	Style	Oplocks	Status	Id
vs0	vs0_vol1	""	unix	enable	readonly	0
vs0	vs0_vol2	""	unix	enable	normal	0
vs0	vs0_vol3	""	unix	enable	readonly	0
vs0	vs0_vol4	""	unix	enable	readonly	0
vs0	root_vs_vs0	""	unix	enable	normal	0
vs1	vs1_vol1	""	unix	enable	normal	0
vs1	vs1_vol1	qtree1	unix	disable	normal	1
vs1	vs1_vol1	qtree2	unix	enable	normal	2
vs1	root_vs_vs1	""	unix	enable	normal	0

9 entries were displayed.

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