

Create a volume or qtree storage container ONTAP 9

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Create a volume

You can create a volume and specify its junction point and other properties by using the volume create command.

About this task

A volume must include a *junction path* for its data to be made available to clients. You can specify the junction path when you create a new volume. If you create a volume without specifying a junction path, you must *mount* the volume in the SVM namespace using the volume mount command.

Before you begin

- SMB should be set up and running.
- The SVM security style must be NTFS.
- Beginning in ONTAP 9.13.1, you can create volumes with capacity analytics and Activity Tracking enabled. To enable capacity or Activity Tracking, issue the volume create command with -analytics-state or -activity-tracking-state set to on.

To learn more about capacity analytics and Activity Tracking, see Enable File System Analytics.

Steps

1. Create the volume with a junction point: volume create -vserver svm_name -volume volume_name -aggregate aggregate_name -size {integer[KB|MB|GB|TB|PB]} -security-style ntfs -junction-path junction_path]

The choices for -junction-path are the following:

° Directly under root, for example, /new vol

You can create a new volume and specify that it be mounted directly to the SVM root volume.

• Under an existing directory, for example, /existing_dir/new_vol

You can create a new volume and specify that it be mounted to an existing volume (in an existing hierarchy), expressed as a directory.

If you want to create a volume in a new directory (in a new hierarchy under a new volume), for example, /new_dir/new_vol, then you must first create a new parent volume that is junctioned to the SVM root volume. You would then create the new child volume in the junction path of the new parent volume (new directory).

2. Verify that the volume was created with the desired junction point: volume show -vserver *svm_name* -volume *volume_name* -junction

Examples

The following command creates a new volume named users1 on the SVM vs1.example.com and the aggregate aggr1. The new volume is made available at /users. The volume is 750 GB in size, and its volume guarantee is of type volume (by default).

The following command creates a new volume named "home4" on the SVM"`vs1.example.com`" and the aggregate "aggr1". The directory /eng/ already exists in the namespace for the vs1 SVM, and the new volume is made available at /eng/home, which becomes the home directory for the /eng/ namespace. The volume is 750 GB in size, and its volume guarantee is of type volume (by default).

Create a qtree

You can create a qtree to contain your data and specify its properties by using the volume qtree create command.

Before you begin

- The SVM and the volume that will contain the new qtree must already exist.
- The SVM security style must be NTFS, and SMB should be set up and running.

Steps

1. Create the qtree: volume qtree create -vserver vserver_name { -volume volume_name -qtree qtree_name | -qtree-path qtree path } -security-style ntfs

You can specify the volume and qtree as separate arguments or specify the qtree path argument in the format /vol/volume_name/_qtree_name.

2. Verify that the qtree was created with the desired junction path: volume qtree show -vserver vserver_name { -volume volume_name -qtree qtree_name | -qtree-path qtree path }

Example

The following example creates a qtree named qt01 located on SVM vs1.example.com that has a junction path /vol/data1:

```
cluster1::> volume qtree create -vserver vs1.example.com -qtree-path
/vol/data1/qt01 -security-style ntfs
[Job 1642] Job succeeded: Successful
cluster1::> volume qtree show -vserver vs1.example.com -qtree-path
/vol/data1/qt01
                      Vserver Name: vsl.example.com
                       Volume Name: data1
                        Qtree Name: qt01
 Actual (Non-Junction) Qtree Path: /vol/data1/qt01
                    Security Style: ntfs
                       Oplock Mode: enable
                  Unix Permissions: ---rwxr-xr-x
                          Qtree Id: 2
                      Qtree Status: normal
                     Export Policy: default
        Is Export Policy Inherited: true
```

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