



How you can view quota information

ONTAP 9

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How you can view quota information

Overview of viewing quota information

You can use quota reports to view details such as the configuration of quota rules and policies, enforced and configured quotas, and errors that have occurred during quota resizing and reinitialization.

Viewing quota information is useful in situations such as the following:

- Configuring quotas, for example to configure quotas and verify the configurations
- Responding to notifications that disk space or file limits will soon be reached or that they have been reached
- Responding to requests for more space

See what quotas are in effect using the quota report

Because of the various ways that quotas interact, more quotas are in effect than just the ones you have explicitly created. To see what quotas are in effect, you can view the quota report.

The following examples show quota reports for different types of quotas applied on a FlexVol volume vol1, and a qtree q1 contained in that volume:

Example with no user quotas specified for the qtree

In this example, there is one qtree, q1, which is contained by the volume vol1. The administrator has created three quotas:

- A default tree quota limit on vol1 of 400MB
- A default user quota limit on vol1 of 100MB
- An explicit user quota limit on vol1 of 200MB for the user jsmith

The quota rules for these quotas look similar to the following example:

```
cluster1::*> volume quota policy rule show -vserver vs1 -volume voll
```

```
Vserver: vs1                Policy: default                Volume: voll
                                Soft                Soft
                                Disk                Files
                                Disk                Files
Type  Target    Qtree  User      Disk      Disk      Files     Files
Threshold
-----  -
tree  ""         ""     -         400MB    -         -         -
-
user  ""         ""     off        100MB    -         -         -
-
user  jsmith    ""     off        200MB    -         -         -
-
```

The quota report for these quotas looks similar to the following example:

```
cluster1::> volume quota report
```

```
Vserver: vs1
                                ----Disk----  ----Files-----  Quota
Volume  Tree    Type  ID      Used  Limit  Used  Limit
Specifier
-----  -
voll   -      tree  *       0B   400MB  0     -    *
voll   -      user  *       0B   100MB  0     -    *
voll   -      user  jsmith  150B 200MB  7     -    jsmith
voll   q1     tree  1       0B   400MB  6     -    q1
voll   q1     user  *       0B   100MB  0     -
voll   q1     user  jsmith  0B   100MB  5     -
voll   -      user  root    0B   0MB   1     -
voll   q1     user  root    0B   0MB   8     -
```

The first three lines of the quota report display the three quotas specified by the administrator. Since two of these quotas are default quotas, ONTAP automatically creates derived quotas.

The fourth line displays the tree quota that is derived from the default tree quota for every qtree in voll (in this example, only q1).

The fifth line displays the default user quota that is created for the qtree as a result of the existence of the default user quota on the volume and the qtree quota.

The sixth line displays the derived user quota that is created for jsmith on the qtree because there is a default user quota for the qtree (line 5) and the user jsmith owns files on that qtree. Note that the limit applied to the user jsmith in the qtree q1 is not determined by the explicit user quota limit (200MB). This is because the

explicit user quota limit is on the volume, so it does not affect limits for the qtree. Instead, the derived user quota limit for the qtree is determined by the default user quota for the qtree (100MB).

The last two lines display more user quotas that are derived from the default user quotas on the volume and on the qtree. A derived user quota was created for the root user on both the volume and the qtree because the root user owned files on both the volume and the qtree. Since the root user gets special treatment in terms of quotas, its derived quotas are tracking quotas only.

Example with user quotas specified for the qtree

This example is similar to the previous one, except that the administrator has added two quotas on the qtree.

There is still one volume, vol1, and one qtree, q1. The administrator has created the following quotas:

- A default tree quota limit on vol1 of 400MB
- A default user quota limit on vol1 of 100MB
- An explicit user quota limit on vol1 for the user jsmith of 200MB
- A default user quota limit on qtree q1 of 50MB
- An explicit user quota limit on qtree q1 for the user jsmith of 75MB

The quota rules for these quotas look like this:

```
cluster1::> volume quota policy rule show -vserver vs1 -volume vol1

Vserver: vs1                Policy: default                Volume: vol1
                               User      Disk      Soft      Files      Soft
                               Mapping   Limit    Disk     Limit     Files     Files
Type  Target  Qtree  Mapping  Limit    Limit    Limit    Limit
-----
tree  ""      ""      -        400MB    -        -        -
-
user  ""      ""      off      100MB    -        -        -
-
user  ""      q1     off      50MB     -        -        -
-
user  jsmith  ""     off      200MB    -        -        -
-
user  jsmith  q1     off      75MB     -        -        -
-
```

The quota report for these quotas looks like this:

```

cluster1::> volume quota report
Vserver: vs1

```

Volume Specifier	Tree	Type	ID	----Disk----		----Files-----		Quota
				Used	Limit	Used	Limit	
vol1	-	tree	*	0B	400MB	0	-	*
vol1	-	user	*	0B	100MB	0	-	*
vol1	-	user	jsmith	2000B	200MB	7	-	jsmith
vol1	q1	user	*	0B	50MB	0	-	*
vol1	q1	user	jsmith	0B	75MB	5	-	jsmith
vol1	q1	tree	1	0B	400MB	6	-	q1
vol1	-	user	root	0B	0MB	2	-	
vol1	q1	user	root	0B	0MB	1	-	

The first five lines of the quota report display the five quotas created by the administrator. Since some of these quotas are default quotas, ONTAP automatically creates derived quotas.

The sixth line displays the tree quota that is derived from the default tree quota for every qtree in vol1 (in this example, only q1).

The last two lines display the user quotas that are derived from the default user quotas on the volume and on the qtree. A derived user quota was created for the root user on both the volume and the qtree because the root user owned files on both the volume and the qtree. Since the root user gets special treatment in terms of quotas, its derived quotas are tracking quotas only.

No other default quotas or derived quotas were created for the following reasons:

- A derived user quota was not created for the jsmith user even though the user owns files on both the volume and the qtree because the user already has explicit quotas at both levels.
- No derived user quotas were created for other users because no other users own files on either the volume or the qtree.
- The default user quota on the volume did not create a default user quota on the qtree because the qtree already had a default user quota.

Why enforced quotas differ from configured quotas

Enforced quotas differ from configured quotas because derived quotas are enforced without being configured but configured quotas are enforced only after they are successfully initialized. Understanding these differences can help you compare the enforced quotas that are shown in quota reports to the quotas that you configured.

Enforced quotas, which appear in quota reports, might differ from the configured quota rules for the following reasons:

- Derived quotas are enforced without being configured as quota rules. ONTAP creates derived quotas automatically in response to default quotas.

- Quotas might not have been reinitialized on a volume after quota rules were configured.
- Errors might have occurred when quotas were initialized on a volume.

Use the quota report to determine which quotas limit writes to a specific file

You can use the volume quota report command with a specific file path to determine which quota limits affect write operations to a file. This can help you understand which quota is preventing a write operation.

Steps

1. Use the volume quota report command with the `-path` parameter.

Example of showing quotas affecting a specific file

The following example shows the command and output to determine what quotas are in effect for writes to the file `file1`, which resides in the qtree `q1` in the FlexVol volume `vol2`:

```
cluster1:> volume quota report -vserver vs0 -volume vol2 -path
/vol/vol2/q1/file1
Virtual Server: vs0
```

Volume	Tree	Type	ID	----Disk----		----Files-----		Quota
				Used	Limit	Used	Limit	
vol2	q1	tree	jsmith	1MB	100MB	2	10000	q1
vol2	q1	group	eng	1MB	700MB	2	70000	
vol2		group	eng	1MB	700MB	6	70000	*
vol2		user	corp\jsmith	1MB	50MB	1	-	*
vol2	q1	user	corp\jsmith	1MB	50MB	1	-	

5 entries were displayed.

Commands for displaying information about quotas in ONTAP

You can use commands to display a quota report containing enforced quotas and resource usage, display information about quota state and errors, or about quota policies and quota rules.



You can run the following commands only on FlexVol volumes.

If you want to...	Use this command...
View information about enforced quotas	<code>volume quota report</code>
View resource usage (disk space and number of files) of quota targets	<code>volume quota report</code>
Determine which quota limits are affected when a write to a file is allowed	<code>volume quota report</code> with the <code>-path</code> parameter
Display the quota state, such as on, off, and initializing	<code>volume quota show</code>
View information about quota message logging	<code>volume quota show</code> with the <code>-logmsg</code> parameter
View errors that occur during quota initialization and resizing	<code>volume quota show</code> with the <code>-instance</code> parameter
View information about quota policies	<code>volume quota policy show</code>
View information about quota rules	<code>volume quota policy rule show</code>
View the name of the quota policy that is assigned to a storage virtual machine (SVM, formerly known as Vserver)	<code>vserver show</code> with the <code>-instance</code> parameter

Learn more about `volume quota` in the [ONTAP command reference](#).

When to use the `volume quota policy rule show` and `volume quota report` commands

Although both commands show information about quotas, the `volume quota policy rule show` quickly displays configured quota rules while the `volume quota report` command, which consumes more time and resources, displays enforced quotas and resource usage.

The `volume quota policy rule show` command is useful for the following purposes:

- Check the configuration of quota rules before activating them

This command displays all configured quota rules regardless of whether the quotas have been initialized or resized.

- Quickly view quota rules without affecting system resources

Because it does not display disk and file usage, this command is not as resource intensive as a quota report.

- Display the quota rules in a quota policy that is not assigned to the SVM.

Learn more about `volume quota policy rule show` in the [ONTAP command reference](#).

The `volume quota report` command is useful for the following purposes:

- View enforced quotas, including derived quotas
- View the disk space and number of files used by every quota in effect, including targets affected by derived quotas

(For default quotas, the usage appears as "0" because the usage is tracked against the resulting derived quota.)

- Determine which quota limits affect when a write to a file will be allowed

Add the `-path` parameter to the `volume quota report` command.



The quota report is resource-intensive operation. If you run it on many FlexVol volumes in the cluster, it might take a long time to complete. A more efficient way would be to view the quota report for a particular volume in an SVM.

Learn more about `volume quota report` in the [ONTAP command reference](#).

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