



qos settings commands

ONTAP 9.6 commands

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Table of Contents

- qos settings commands 1
- qos settings cache modify 1
- qos settings cache show 1

qos settings commands

qos settings cache modify

Modify the cache policy

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

Description

The `qos settings cache modify` command modifies the existing default caching-policy. The list of caching policies can be obtained from the `qos setting cache show -fields cache-setting` command.

Parameters

-cache-setting <text> - Cache Policy Name

Valid inputs to this parameter include any one of the listed caching-policies. This command is to be used together with the default parameter. If you use this parameter, the command modifies the specified caching-policy based on the default parameter.

[-default {true|false}] - Is Default?

Valid inputs to this parameter are true and false. Together with cache-setting, this parameter helps set or unset a caching-policy as default.

Examples

```
cluster1::> qos settings cache modify -default true -cache-setting
random_read_write-random_write
```

Sets caching-policy `random_read_write-random_write` as default.

qos settings cache show

Display list of cache policies

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

Description

The `qos settings cache show` shows the current caching-policies, class to which they belong, the number of workloads associated with each of the policies, and whether or not they are set to default. The following external-cache policies are available:

- none - Does not cache any user data or metadata blocks.
- auto - Read caches all metadata and randomly read user data blocks, and write caches all randomly overwritten user data blocks.

- all - Read caches all data blocks read and written. It does not do any write caching.
- all-random_write - Read caches all data blocks read and written. It also write caches randomly overwritten user data blocks.
- all_read - Read caches all metadata, randomly read, and sequentially read user data blocks.
- all_read-random_write - Read caches all metadata, randomly read, and sequentially read user data blocks. It also write caches randomly overwritten user data blocks.
- all_read_random_write - Read caches all metadata, randomly read, sequentially read and randomly written user data.
- all_read_random_write-random_write - Read caches all metadata, randomly read, sequentially read, and randomly written user data blocks. It also write caches randomly overwritten user data blocks.
- meta - Read caches only metadata blocks.
- meta-random_write - Read caches all metadata and write caches randomly overwritten user data blocks.
- noread-random_write - Write caches all randomly overwritten user data blocks. It does not do any read caching.
- random_read - Read caches all metadata and randomly read user data blocks.
- random_read_write - Read caches all metadata, randomly read and randomly written user data blocks.
- random_read_write-random_write - Read caches all metadata, randomly read, and randomly written user data blocks. It also write caches randomly overwritten user data blocks.



Note that in a caching-policy name, a hyphen (-) separates read and write caching policies.

Parameters

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

The input to this parameter is one of the following: {cache-setting|class|default|num-workloads}. If you use this parameter, the command displays information related to the specified input field.

| [-instance] }

If you use this parameter, the command displays information about the caching-policies in a list format.

[-cache-setting <text>] - Cache Policy Name

The input to this parameter is any one of the above listed caching-policies. If you use this parameter, the command displays information corresponding to the specified caching-policy.

[-class <QoS Configuration Class>] - Cache Policy Class

The input to this parameter is one of the following: {undefined|preset|user-defined|system-defined|autovolume}. If you use this parameter, the command displays information corresponding to the specified policy-group class.

[-default {true|false}] - Is Default?

The input to this parameter is true and false. If you use this parameter, the command displays information corresponding to entries that have the specified default value.

[-num-workloads <integer>] - Number Of Workloads With This Policy

The input to this parameter is an integer. If you use this parameter, the command displays information about policy-groups matching the specified number of workloads.

Examples

```
cluster1::> qos settings cache show
Policy Name  Class          Num Workloads  Default
-----
all          preset         0              false
all-random_write
             preset         0              false
all_read     preset         0              false
all_read-random_write
             preset         0              false
all_read_random_write
             preset         0              false
all_read_random_write-random_write
             preset         0              false
auto         preset         2              false
meta        preset         0              false
meta-random_write
             preset         0              false
none        preset         0              false
noread-random_write
             preset         0              false
random_read  preset         25             false
random_read_write
             preset         0              false
random_read_write-random_write
             preset         28             true
14 entries were displayed.
```

Shows QoS settings for the caching policies.

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