



## **qos settings commands**

ONTAP 9.6 commands

NetApp  
February 11, 2024

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# 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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