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qos settings commands

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qos settings commands

qos settings throughput-floors-v2

Enable/Disable throughput floors v2 on AFF

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

Description

The qos settings throughput-floors-v2 command is used to enable or disable floors v2 on AFF. The default is enabled. With floors v2 enabled, throughput floors can be met when controllers are heavily utilized at the expense of higher latency on other workloads. Floors v2 applies to both QoS and Adaptive QoS.

Parameters

-enable {true|false} - enable or disable throughput floors v2 on AFF (privilege: advanced)

This specifies if floors v2 is enabled or disabled. If this parameter is specified with false floors v2 will be disabled.

Examples

The following example disables floors v2 on AFF.

cluster1::*> qos settings throughput-floors-v2 -enable false

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

		Num Workloads	Default
 all			false
all-random_w	rite		
	preset	0	false
all_read	preset	0	false
all_read-ran	dom_write		
	preset	0	false
all_read_ran	dom_write		
	preset	0	false
all_read_ran	dom_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-rando	m_write		
	preset	0	false
random_read	preset	25	false
random_read_	write		
	preset	0	false
random_read_	write-rand	om_write	
	preset	28	true

Shows QoS settings for the caching policies.

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