



Configuring System-Related Policies

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Configuring the Rack Server Discovery Policy

Rack Server Discovery Policy

The rack server discovery policy determines how the system reacts when you add a new rack-mount server. Cisco UCS Manager uses the settings in the rack server discovery policy to determine whether any data on the hard disks are scrubbed and whether server discovery occurs immediately or needs to wait for explicit user acknowledgement.

Cisco UCS Manager cannot discover any rack-mount server that has not been correctly cabled and connected to the fabric interconnects. For information about how to integrate a supported Cisco UCS rack-mount server with Cisco UCS Manager, see the appropriate [rack-mount server integration guide](#).

Configuring the Rack Server Discovery Policy

Procedure

	Command or Action	Purpose
Step 1	UCS-A# <code>scope org /</code>	Enters the root organization mode. Note The rack server discovery policy can be accessed only from the root organization.
Step 2	UCS-A /org # <code>scope rackserver-disc-policy</code>	Enters organization rack server discovery policy mode.

	Command or Action	Purpose
Step 3	UCS-A /org/rackserver-disc-policy # set action { immediate user-acknowledged }	Specifies the way the system reacts when you add a new rack server.
Step 4	UCS-A /org/rackserver-disc-policy # set descr <i>description</i>	(Optional) Provides a description for the rack server discovery policy. Note If your description includes spaces, special characters, or punctuation, you must begin and end your description with quotation marks. The quotation marks will not appear in the description field of any show command output.
Step 5	UCS-A /org/rackserver-disc-policy # set scrub-policy <i>scrub-pol-name</i>	Specifies the scrub policy that should run on a newly discovered rack server.
Step 6	UCS-A /org/rackserver-disc-policy # commit-buffer	Commits the transaction to the system configuration.

The following example scopes to the default rack server discovery policy, sets it to immediately discover new rack servers, provides a description for the policy, specifies a scrub policy called scrubpoll, and commits the transaction:

```
UCS-A# scope org /
UCS-A /org # scope rackserver-disc-policy
UCS-A /org/rackserver-disc-policy* # set action immediate
UCS-A /org/rackserver-disc-policy* # set descr "This is an example rackserver discovery
policy."
UCS-A /org/rackserver-disc-policy* # set scrub-policy scrubpoll
UCS-A /org/rackserver-disc-policy* # commit-buffer
UCS-A /org/rackserver-disc-policy #
```

Configuring the Aging Time for the MAC Address Table

Aging Time for the MAC Address Table

To efficiently switch packets between ports, the fabric interconnect maintains a MAC address table. It dynamically builds the MAC address table by using the MAC source address from the packets received and the associated port on which the packets were learned. The fabric interconnect uses an aging mechanism, defined by a configurable aging timer, to determine how long an entry remains in the MAC address table. If an address remains inactive for a specified number of seconds, it is removed from the MAC address table.

You can configure the amount of time (age) that a MAC address entry (MAC address and associated port) remains in the MAC address table.

Configuring the Aging Time for the MAC Address Table

Procedure

	Command or Action	Purpose
Step 1	UCS-A# scope eth-uplink	Enters Ethernet uplink mode.
Step 2	UCS-A /eth-uplink # set mac-aging { <i>dd hh mm ss</i> mode-default never }	Specifies the aging time for the MAC address table. Use the mode-default keyword to set the aging time to a default value dependent on the configured Ethernet switching mode. Use the never keyword to never remove MAC addresses from the table regardless of how long they have been idle.
Step 3	UCS-A /eth-uplink # commit-buffer	Commits the transaction to the system configuration.

The following example sets the aging time for the MAC address table to one day and 12 hours and commits the transaction:

```
UCS-A# scope eth-uplink
UCS-A /eth-uplink # set mac-aging 01 12 00 00
UCS-A /eth-uplink* # commit-buffer
UCS-A /eth-uplink #
```

