

Cisco MDS 9000 Series Fibre Channel Zone Driver - OpenStack Configuration Guide, Release 9.x

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Preface

Audience

This publication is for network administrators who install, configure, and maintain Cisco MDS 9000 Series Switches.

Document Conventions

Command descriptions use these conventions:

Convention	Description
bold	Bold text indicates the commands and keywords that you enter literally as shown.
Italic	Italic text indicates arguments for which the user supplies the values.
[x]	Square brackets enclose an optional element (keyword or argument).
[x | y]	Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.
{x | y}	Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.
[x {y | z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
`variable`	Indicates a variable for which you supply values, in context where italics cannot be used.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Examples use these conventions:

Convention	Description
`screen font`	Terminal sessions and information the switch displays are in screen font.

Convention	Description
boldface screen font	Information you must enter is in boldface screen font.
italic screen font	Arguments for which you supply values are in italic screen font.
< >	Nonprinting characters, such as passwords, are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

This document uses the following conventions:

Note Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

Caution Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

Warning IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

SAVE THESE INSTRUCTIONS

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to mds-docfeedback@cisco.com. We appreciate your feedback.

Related Documentation

The entire Cisco MDS 9000 Series switches documentation set is available at the following URL:

https://www.cisco.com/c/en/us/support/storage-networking/mds-9000-nx-os-san-os-software/series.html

Documentation Roadmap

https://www.cisco.com/c/en/us/td/docs/storage/san_switches/mds9000/roadmaps/rel90.html

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
- To get the business results you're looking for with the technologies that matter, visit Cisco Services.
- To submit a service request, visit Cisco Support.
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit Cisco DevNet.
- To obtain general networking, training, and certification titles, visit Cisco Press.
- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

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Cisco Fibre Channel Zone Driver

Cisco Fibre Channel (FC) zone driver performs zoning operations through Secure Shell (SSH).

System Requirement:

- Cisco MDS 9000 Series Switches
- Cisco MDS NX-OS Release 7.3(0)D1(1) or later

You can configure the Cisco FC zone driver and lookup service by specifying the following parameters:

Table 1: Configuration Options for zoning_manager

Configuration Option = Default Value	Description
[fc-zone-manager]	
cisco_sb_connector= cinder.zonemanager.drivers.cisco.cisco_fc_zone_client_cli.CiscoFCZoneClientCLI	(StrOpt) The Southbound connector for zoning operation.
fc_san_lookup_service= cinder.zonemanager.drivers.cisco.cisco_fc_san_lookup_service.CiscoFCSanLookupService	(StrOpt) The FC San Lookup service.
zone_driver= cinder.zonemanager.drivers.cisco.cisco_fc_zone_driver.CiscoFCZoneDriver	(StrOpt) The FC zone driver that is responsible for zone management.
fc_fabric_names= CISCO_FABRIC_EXAMPLE	(StrOpt) The Cisco fabric name that you define in a fabric group for each fabric.

Cisco recommends that you configure the storage area network (SAN) fabric parameters as fabric groups, shown in the following example:

Table 2: Configuration Options for zoning_fabric

Configuration Option = Default Value	Description
[CISCO_FABRIC_EXAMPLE]	
cisco_fc_fabric_address=	(StrOpt) Management IP of the fabric
cisco_fc_fabric_user=	(StrOpt) Username for login
cisco_fc_fabric_password=	(StrOpt) Password for the user
cisco_fc_fabric_port=	(IntOpt) Connecting port
cisco_zoning_policy=	(StrOpt) Overridden zoning policy
cisco_zone_activate=	(BoolOpt) Overridden zoning activation state
cisco_zone_name_prefix=	(StrOpt) Overridden zone name prefix
cisco_zoning_vsan=	(StrOpt) VSAN for OpenStack zone



Note The Cisco Fibre Channel Zone Driver supports basic and enhanced zoning modes. The zoning VSAN must exist with an active zone set name which is same as the fc_fabric_names parameter.

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