

Configuring Session Manager

This chapter contains the following sections:

- Information About Session Manager, on page 1
- Guidelines and Limitations for Session Manager, on page 1
- Configuring Session Manager, on page 2
- Verifying the Session Manager Configuration, on page 4

Information About Session Manager

Session Manager allows you to implement your configuration changes in batch mode. Session Manager works in the following phases:

- Configuration session—Creates a list of commands that you want to implement in session manager mode.
- Validation—Provides a basic semantic check on your configuration. Cisco NX-OS returns an error if the semantic check fails on any part of the configuration.
- Verification—Verifies the configuration as a whole, based on the existing hardware and software configuration and resources. Cisco NX-OS returns an error if the configuration does not pass this verification phase.
- Commit— Cisco NX-OS verifies the complete configuration and implements the changes atomically to the device. If a failure occurs, Cisco NX-OS reverts to the original configuration.
- Abort—Discards the configuration changes before implementation.

You can optionally end a configuration session without committing the changes. You can also save a configuration session.

Guidelines and Limitations for Session Manager

Session Manager has the following configuration guidelines and limitations:

- Session Manager supports only the access control list (ACL) feature.
- You can create up to 32 configuration sessions.
- You can configure a maximum of 20,000 commands across all sessions.

Configuring Session Manager

Creating a Session

You can create up to 32 configuration sessions.

SUMMARY STEPS

1. switch# **configure session** *name*
2. (Optional) switch(config-s)# **show configuration session** [*name*]
3. (Optional) switch(config-s)# **save** *location*

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	switch# **configure session** *name*	Creates a configuration session and enters session configuration mode. The name can be any alphanumeric string. Displays the contents of the session.
Step 2	(Optional) switch(config-s)# **show configuration session** [*name*]	Displays the contents of the session.
Step 3	(Optional) switch(config-s)# **save** *location*	Saves the session to a file. The location can be in bootflash or volatile.

Configuring ACLs in a Session

You can configure ACLs within a configuration session.

SUMMARY STEPS

1. switch# **configure session** *name*
2. switch(config-s)# **ip access-list** *name*
3. (Optional) switch(config-s-acl)# **permit** *protocol source destination*
4. switch(config-s-acl)# **interface** *interface-type number*
5. switch(config-s-if)# **ip port access-group** *name* **in**
6. (Optional) switch# **show configuration session** [*name*]

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	switch# **configure session** *name*	Creates a configuration session and enters session configuration mode. The name can be any alphanumeric string.
Step 2	switch(config-s)# **ip access-list** *name*	Creates an ACL.
Step 3	(Optional) switch(config-s-acl)# **permit** *protocol source destination*	Adds a permit statement to the ACL.
Step 4	switch(config-s-acl)# **interface** *interface-type number*	Enters interface configuration mode.
Step 5	switch(config-s-if)# **ip port access-group** *name* **in**	Adds a port access group to the interface.
Step 6	(Optional) switch# **show configuration session** [*name*]	Displays the contents of the session.

Verifying a Session

To verify a session, use the following command in session mode:

Command	Purpose
switch(config-s)# **verify** [**verbose**]	Verifies the commands in the configuration session.

Committing a Session

To commit a session, use the following command in session mode:

Command	Purpose
switch(config-s)# **commit** [**verbose**]	Commits the commands in the configuration session.

Saving a Session

To save a session, use the following command in session mode:

Command	Purpose
switch(config-s)# **save** *location*	(Optional) Saves the session to a file. The location can be in bootflash or volatile.

Discarding a Session

To discard a session, use the following command in session mode:

Command	Purpose
switch(config-s)# **abort**	Discards the configuration session without applying the commands.

Configuration Example for Session Manager

The following example shows how to create a configuration session for ACLs:

```
switch# configure session name test2
switch(config-s)# ip access-list acl2
switch(config-s-acl)# permit tcp any any
switch(config-s-acl)# exit
switch(config-s)# interface Ethernet 1/4
switch(config-s-ip)# ip port access-group acl2 in
switch(config-s-ip)# exit
switch(config-s)# verify
switch(config-s)# exit
switch# show configuration session test2
```

Verifying the Session Manager Configuration

To verify Session Manager configuration information, perform one of the following tasks:

Command	Purpose
show configuration session [*name*]	Displays the contents of the configuration session.
show configuration session status [*name*]	Displays the status of the configuration session.
show configuration session summary	Displays a summary of all the configuration sessions.