Auto-Update and Auto-Configuration

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boot host auto-config

Use the **boot host auto-config** Global Configuration mode command to enable auto configuration via DHCP. Use the **no** form of this command to disable DHCP auto configuration.

Syntax

boot host auto-config [**tftp** | **scp** | **auto** [*extension*]]

no boot host auto-config

Parameters

- **tftp**—Only the TFTP protocol is used by auto-configuration.
- **scp**—Only the SCP protocol is used by auto-configuration.
- **auto**—(Default) Auto-configuration uses the TFTP or SCP protocol depending on the configuration file's extension. If this option is selected, the extension parameter may be specified or, if not, the default extension is used.
- ***extension***—The SCP file extension. When no value is specified, 'scp' is used. (Range: 1-16 characters)

Default Configuration

Enabled by default with the **auto** option.

Command Mode

Global Configuration mode

User Guidelines

The TFTP or SCP protocol is used to download/upload a configuration file.

Example 1. The following example specifies the auto mode and specifies "scon" as the SCP extension:

```
switchxxxxxx(config)# boot host auto-config auto scon
```

Example 2. The following example specifies the auto mode and does not provide an SCP extension.

In this case "scp" is used.

```
switchxxxxxx(config)# boot host auto-config auto
```

Example 3. The following example specifies that only the SCP protocol will be used:

```
switchxxxxxx(config)# boot host auto-config scp
```

boot host auto-update

Use the **boot host auto-update** Global Configuration mode command to enable the support of auto update via DHCP. Use the **no** form of this command to disable DHCP auto configuration.

Syntax

boot host auto-update [**tftp** | **scp** | **auto** [*extension*]]

no boot host auto-update

Parameters

- **tftp**—Only the TFTP protocol is used by auto-update.
- **scp**—Only the SCP protocol is used by auto-update.
- **auto** (Default)—Auto-update uses the TFTP or SCP protocol depending on the Indirect image file's extension. If this option is selected, the extension parameter may be specified or, if not, the default extension is used.
- ***extension***—The SCP file extension. When no value is specified, 'scp' is used. (Range: 1-16 characters)

Default Configuration

Enabled by default with the **auto** option.

Command Mode

Global Configuration mode

User Guidelines

The TFTP or SCP protocol is used to download/upload an image file.

Example 1—The following example specifies the auto mode and specifies "scon" as the SCP extension:

```
switchxxxxxx(config)# boot host auto-update auto scon
```

Example 2—The following example specifies the auto mode and does not provide an SCP extension. In this case "scp" is used.

```
switchxxxxxx(config)# boot host auto-update auto
```

Example 3—The following example specifies that only the SCP protocol will be used:

```
switchxxxxxx(config)# boot host auto-update scp
```

show boot

Use the **show boot** Privilege EXEC mode command to show the status of the IP DHCP Auto Config process.

Syntax

show boot

Command Mode

Privileged EXEC mode

Examples

```
switchxxxxxx# show boot
Auto Config
------------
Config Download via DHCP: enabled
Download Protocol: auto
SCP protocol will be used for files with extension: scp
Configuration file auto-save: enabled
Auto Config State: Finished successfully
Server IP address: 1.2.20.2
Configuration filename: /config/configfile1.cfg
      Auto Update
      -----------
Image Download via DHCP: enabled
switchxxxxxx# show boot
Auto Config
------------
Config Download via DHCP: enabled
Download Protocol: scp
Configuration file auto-save: enabled
Auto Config State: Opening <hostname>-config file
      Auto Update
      -----------
Image Download via DHCP: enabled
switchxxxxxx# show boot
Auto Config
------------
Config Download via DHCP: enabled
"Download Protocol: scp
Configuration file auto-save: enabled
Auto Config State: Downloading configuration file
      Auto Update
      -----------
Image Download via DHCP: enabled
switchxxxxxx# show boot
Auto Config
------------
Config Download via DHCP: enabled
Download Protocol: tftp
Configuration file auto-save: enabled
Auto Config State: Searching device hostname in indirect file
      Auto Update
      -----------
Image Download via DHCP: enabled
switchxxxxxx# show boot
Auto Config
```

```
------------
Config Download via DHCP: enabled
Download Protocol: tftp
Configuration file auto-save: enabled
      Auto Update
      -----------
Image Download via DHCP: enabled
Auto Update State: Downloaded indirect image file
Indirect Image filename: /image/indirectimage.txt
```

ip dhcp tftp-server ip address

Use the **ip dhcp tftp-server ip address** Global Configuration mode command to set the backup server's IP address. This address server as the default address used by a switch when it has not been received from the DHCP server. Use the **no** form of the command to return to default.

Syntax

ip dhcp tftp-server ip address *ip-addr*

no ip dhcp tftp-server ip address

Parameters

- ***ip-addr***—IPv4 Address, or IPv6 Address or DNS name of TFTP or SCP server.

Default Configuration

No IP address

Command Mode

Global Configuration mode

User Guidelines

The backup server can be a TFTP server or a SCP server.

Examples

Example 1. The example specifies the IPv4 address of TFTP server:

```
switchxxxxxx(config)# ip dhcp tftp-server ip address 10.5.234.232
```

Example 2. The example specifies the IPv6 address of TFTP server:

```
switchxxxxxx(config)# ip dhcp tftp-server ip address 3000:1::12
```

Example 3. The example specifies the IPv6 address of TFTP server:

```
switchxxxxxx(config)# ip dhcp tftp-server ip address tftp-server.company.com
```

ip dhcp tftp-server file

Use the **ip dhcp tftp-server file** Global Configuration mode command to set the full file name of the configuration file to be downloaded from the backup server when it has not been received from the DHCP server. Use the **no** form of this command to remove the name.

Syntax

ip dhcp tftp-server file *file-path*

no ip dhcp tftp-server file

Parameters

- ***file-path***—Full file path and name of the configuration file on the server.

Default Configuration

No file name

Command Mode

Global Configuration mode

User Guidelines

The backup server can be a TFTP server or an SCP server.

Examples

```
switchxxxxxx(config)# ip dhcp tftp-server file conf/conf-file
```

ip dhcp tftp-server image file

Use the **ip dhcp tftp-server image file** Global Configuration mode command to set the indirect file name of the image file to be downloaded from the backup server when it has not been received from the DHCP server. Use the **no** form of this command to remove the file name.

Syntax

ip dhcp tftp-server image file *file-path*

no ip dhcp tftp-server image file

Parameters

- ***file-path***—Full indirect file path and name of the configuration file on the server.

Default Configuration

No file name

Command Mode

Global Configuration mode

User Guidelines

The backup server can be a TFTP server or a SCP server.

Examples

```
switchxxxxxx(config)# ip dhcp tftp-server image file imag/imag-file
```

show ip dhcp tftp-server

Use the **show ip dhcp tftp-server** EXEC mode command to display information about the backup server.

Syntax

show ip dhcp tftp-server

Command Mode

User EXEC mode

User Guidelines

The backup server can be a TFTP server or a SCP server.

Example

```
show ip dhcp tftp-server
server address
active 1.1.1.1 from sname
manual 2.2.2.2
file path on server
active conf/conf-file from option 67
manual conf/conf-file1
```