13. Save and Tools

Save Configuration
Firmware Upgrade & Backup
Configuration Restore & Backup
Log Backup
Ping
Reboot System

Save Configuration

This window is used to save the running configuration to the start-up configuration or the file system of the Switch. This is to prevent the loss of configuration in the event of a power failure.

To view the following window, click **Save > Save Configuration**, as shown below:

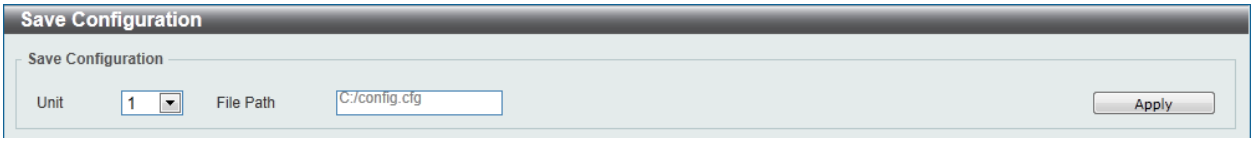

Figure 13-1 Save Configuration window

The fields that can be configured are described below:

Parameter	Description
Unit	Select the switch unit that will be used for this configuration here.
File Path	Enter the filename and path in the space provided.

Click the **Apply** button to save the configuration.

Firmware Upgrade & Backup

Firmware Upgrade from HTTP

This window is used to initiate a firmware upgrade from a local PC using HTTP.

To view the following window, click **Tools > Firmware Upgrade & Backup > Firmware Upgrade from HTTP**, as shown below:

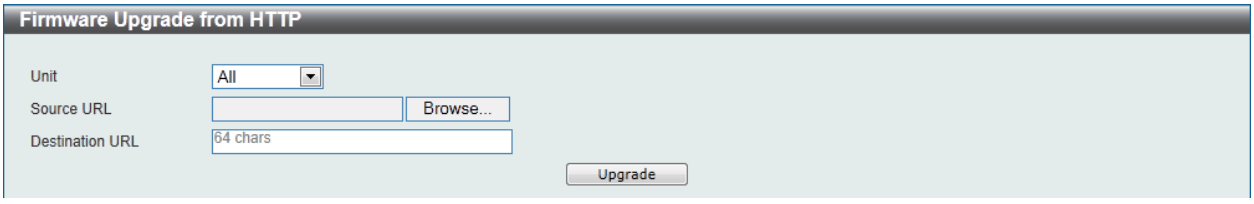

Figure 13-2 Firmware Upgrade from HTTP window

The fields that can be configured are described below:

Parameter	Description
Unit	Select the switch unit that will be used for this configuration here.

Source URL	Enter the source filename and path of the firmware file located on the local PC. This field can be up to 64 characters long. Alternatively click the **Browse** button to navigate to the location of the firmware file located on the local PC.
Destination URL	Enter the destination path and location where the new firmware should be stored on the Switch. This field can be up to 64 characters long.

Click the **Upgrade** button to initiate the firmware upgrade.

Firmware Upgrade from TFTP

This window is used to initiate a firmware upgrade from a TFTP server.

To view the following window, click **Tools > Firmware Upgrade & Backup > firmware Upgrade from TFTP**, as shown below:

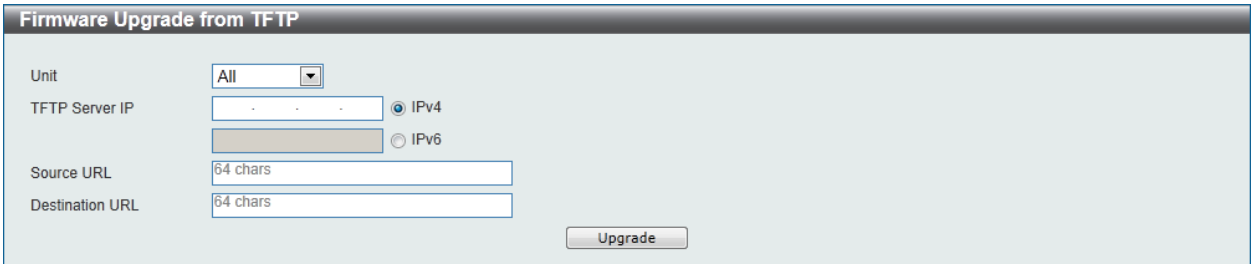

Figure 13-3 Firmware Upgrade from TFTP window

The fields that can be configured are described below:

Parameter	Description
Unit	Select the switch unit that will be used for this configuration here.
TFTP Server IP	Enter the TFTP server's IP address here. When select the **IPv4** option, enter the IPv4 address of the TFTP server in the space provided. When the **IPv6** option is selected, enter the IPv6 address of the TFTP server in the space provided.
Source URL	Enter the source filename and path of the firmware file located on the TFTP server here. This field can be up to 64 characters long.
Destination URL	Enter the destination path and location where the new firmware should be stored on the Switch. This field can be up to 64 characters long.

Click the **Upgrade** button to initiate the firmware upgrade.

Firmware Backup to HTTP

This window is used to initiate a firmware backup to a local PC using HTTP.

To view the following window, click **Tools > Firmware Upgrade & Backup > Firmware Backup to HTTP**, as shown below:

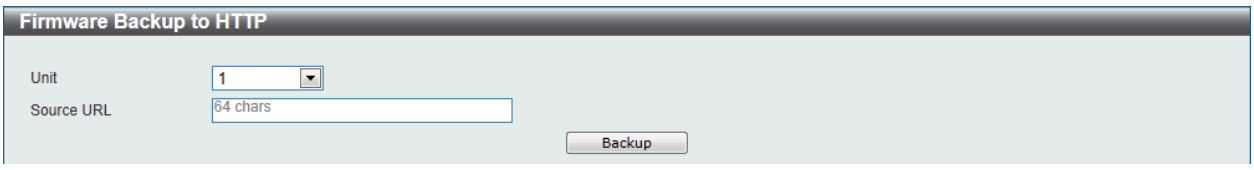

Figure 13-4 Firmware Backup to HTTP window

The fields that can be configured are described below:

Parameter	Description
Unit	Select the switch unit that will be used for this configuration here.
Source URL	Enter the source filename and path of the firmware file located on the Switch here. This field can be up to 64 characters long.

Click the **Backup** button to initiate the firmware backup.

Firmware Backup to TFTP

This window is used to initiate a firmware backup to a TFTP server.

To view the following window, click **Tools > Firmware Upgrade & Backup > Firmware Backup to TFTP**, as shown below:

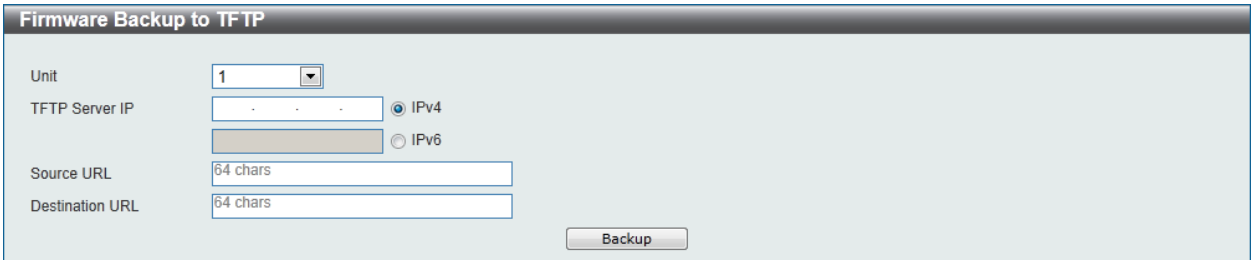

Figure 13-5 Firmware Backup to TFTP window

The fields that can be configured are described below:

Parameter	Description
Unit	Select the switch unit that will be used for this configuration here.
TFTP Server IP	Enter the TFTP server's IP address here. When select the **IPv4** option, enter the IPv4 address of the TFTP server in the space provided. When the **IPv6** option is selected, enter the IPv6 address of the TFTP server in the space provided.
Source URL	Enter the source filename and path of the firmware file located on the Switch here. This field can be up to 64 characters long.

Click the **Backup** button to initiate the firmware backup.

Configuration Restore & Backup

Configuration Restore from HTTP

This window is used to initiate a configuration restore from a local PC using HTTP.

To view the following window, click **Tools > Configuration Restore & Backup > Configuration Restore from HTTP**, as shown below:

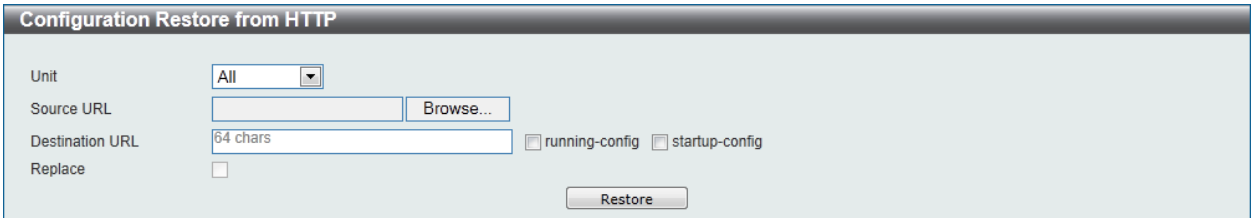

Figure 13-6 Configuration Restore from HTTP window

The fields that can be configured are described below:

Parameter	Description
Unit	Select the switch unit that will be used for this configuration here.
Source URL	Enter the source filename and path of the configuration file located on the local PC. This field can be up to 64 characters long. Alternatively click the **Browse** button to navigate to the location of the configuration file located on the local PC.
Destination URL	Enter the destination path and location where the configuration file should be stored on the Switch. This field can be up to 64 characters long. Select the **running-config** option to restore and overwrite the running configuration file on the Switch. Select the **startup-config** option to restore and overwrite the start-up configuration file on the Switch.
Replace	Select this option to replace the current running configuration.

Click the **Restore** button to initiate the configuration restore.

Configuration Restore from TFTP

This window is used to initiate a configuration restore from a TFTP server.

To view the following window, click **Tools > Configuration Restore & Backup > Configuration Restore from TFTP**, as shown below:

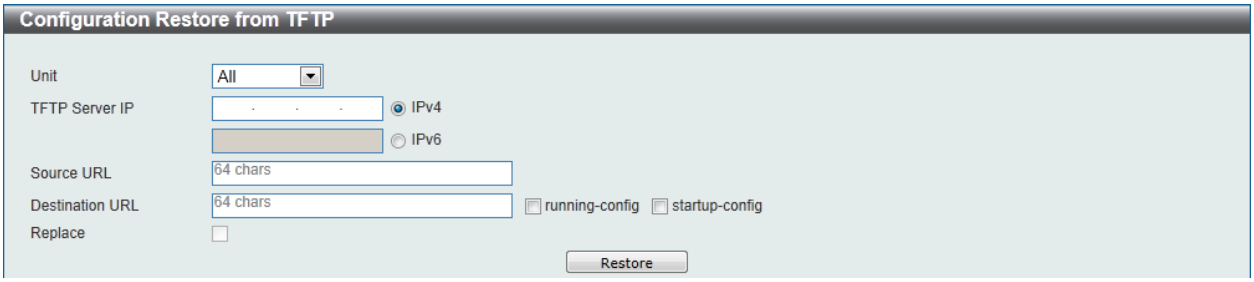

Figure 13-7 Configuration Restore from TFTP window

The fields that can be configured are described below:

Parameter	Description
Unit	Select the switch unit that will be used for this configuration here.
TFTP Server IP	Enter the TFTP server's IP address here. When select the **IPv4** option, enter the IPv4 address of the TFTP server in the space provided. When the **IPv6** option is selected, enter the IPv6 address of the TFTP server in the space provided.
Source URL	Enter the source filename and path of the configuration file located on

	the TFTP server here. This field can be up to 64 characters long.
Destination URL	Enter the destination path and location where the configuration file should be stored on the Switch. This field can be up to 64 characters long. Select the **running-config** option to restore and overwrite the running configuration file on the Switch. Select the **startup-config** option to restore and overwrite the start-up configuration file on the Switch.
Replace	Select this option to replace the current running configuration.

Click the **Restore** button to initiate the configuration restore.

Configuration Backup to HTTP

This window is used to initiate a configuration file backup to a local PC using HTTP.

To view the following window, click **Tools > Configuration Restore & Backup > Configuration Backup to HTTP**, as shown below:

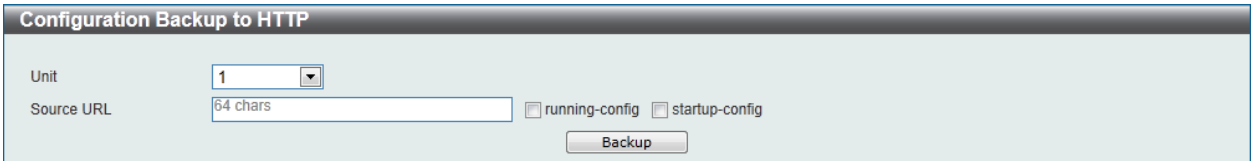

Figure 13-8 Configuration Backup to HTTP window

The fields that can be configured are described below:

Parameter	Description
Unit	Select the switch unit that will be used for this configuration here.
Source URL	Enter the source filename and path of the configuration file located on the Switch here. This field can be up to 64 characters long. Select the **running-config** option to back up the running configuration file from the Switch. Select the **startup-config** option to back up the start-up configuration file from the Switch.

Click the **Backup** button to initiate the configuration file backup.

Configuration Backup to TFTP

This window is used to initiate a configuration file backup to a TFTP server.

To view the following window, click **Tools > Configuration Restore & Backup > Configuration Backup to TFTP**, as shown below:

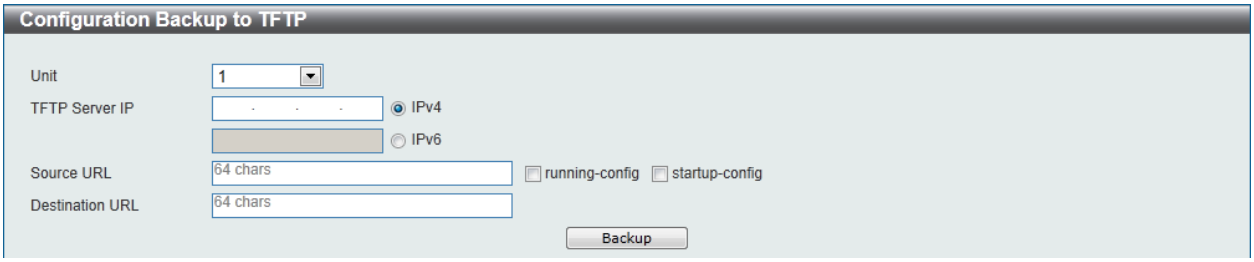

Figure 13-9 Configuration Backup to TFTP window

The fields that can be configured are described below:

Parameter	Description
Unit	Select the switch unit that will be used for this configuration here.
TFTP Server IP	Enter the TFTP server's IP address here. When select the **IPv4** option, enter the IPv4 address of the TFTP server in the space provided. When the **IPv6** option is selected, enter the IPv6 address of the TFTP server in the space provided.
Source URL	Enter the source filename and path of the configuration file located on the switch here. This field can be up to 64 characters long. Select the **running-config** option to back up the running configuration file from the Switch. Select the **startup-config** option to back up the start-up configuration file from the Switch.
Destination URL	Enter the destination path and location where the configuration file should be stored on the TFTP server. This field can be up to 64 characters long.

Click the **Backup** button to initiate the configuration file backup.

Log Backup

Log Backup to HTTP

This window is used to initiate a system log backup to a local PC using HTTP.

To view the following window, click **Tools > Log Backup > Log Backup to HTTP**, as shown below:

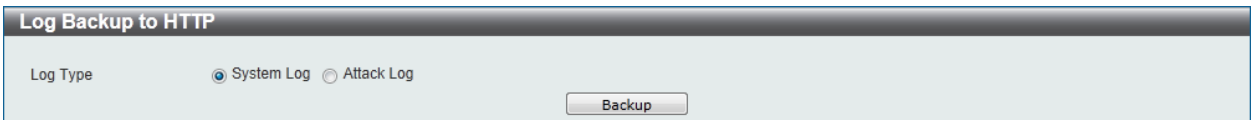

Figure 13-10 Log Backup to HTTP window

The fields that can be configured are described below:

Parameter	Description
Log Type	Select the log type that will be backed up to the local PC using HTTP. When the **System Log** option is selected, the system log will be backed up. When the **Attack Log** is selected, the attack log will be backed up.

Click the **Backup** button to initiate the system log backup.

Log Backup to TFTP

This window is used to initiate a system log backup to a TFTP server.

To view the following window, click **Tools > Log Backup > Log Backup to TFTP**, as shown below:

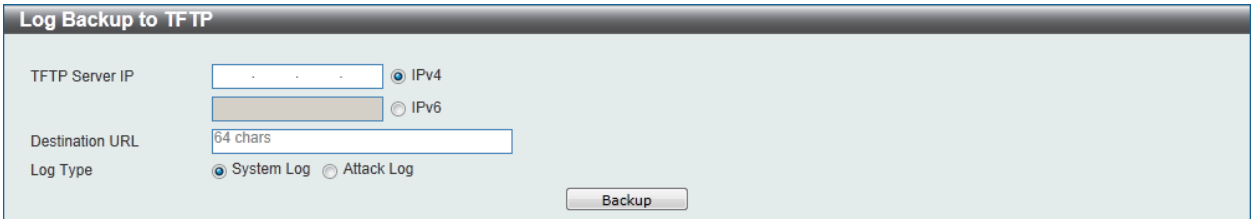

Figure 13-11 Log Backup to TFTP window

The fields that can be configured are described below:

Parameter	Description
TFTP Server IP	Enter the TFTP server's IP address here. When select the **IPv4** option, enter the IPv4 address of the TFTP server in the space provided. When the **IPv6** option is selected, enter the IPv6 address of the TFTP server in the space provided.
Destination URL	Enter the destination path and location where the log file should be stored on the TFTP server. This field can be up to 64 characters long.
Log Type	Select the log type that will be backed up to the TFTP server. When the **System Log** option is selected, the system log will be backed up. When the **Attack Log** is selected, the attack log will be backed up.

Click the **Backup** button to initiate the system log backup.

Ping

Ping is a small program that sends ICMP Echo packets to the IP address you specify. The destination node then responds to or "echoes" the packets sent from the Switch. This is very useful to verify connectivity between the Switch and other nodes on the network.

To view the following window, click **Tools > Ping**, as shown below:

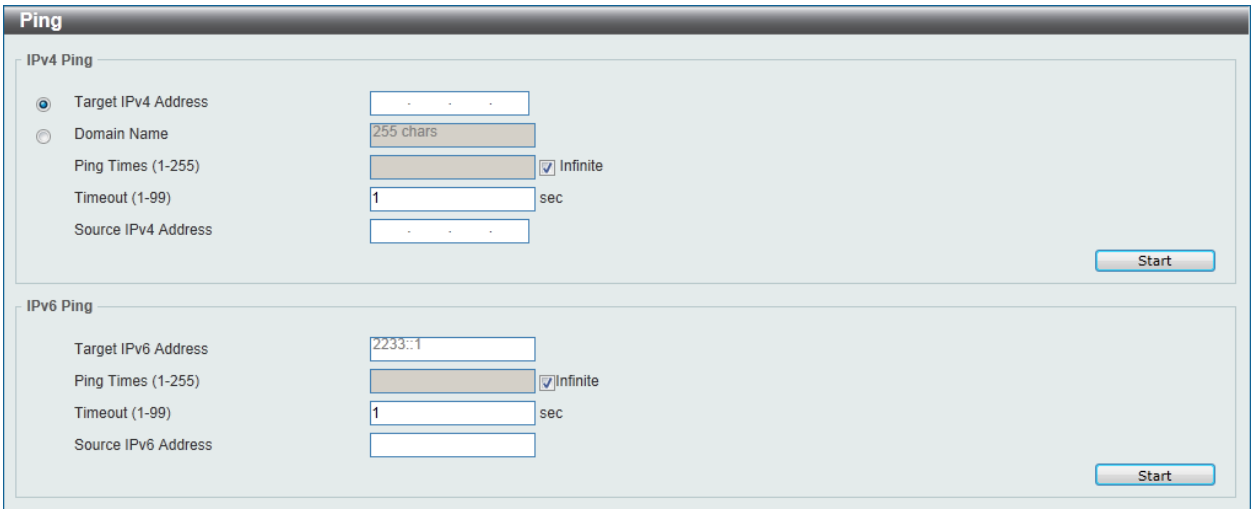

Figure 13-12 Ping window

The fields that can be configured for **IPv4 Ping** are described below:

Parameter	Description
Target IPv4 Address	Select and enter an IP address to be pinged.
Domain Name	Select and enter the domain name of the system to discover.
Ping Times	Enter the number of times desired to attempt to Ping the IPv4 address configured in this window. Users may enter a number of times between 1 and 255. Tick the **Infinite** check box to keep sending ICMP Echo packets to the specified IP address until the program is stopped.

Timeout	Select a timeout period between 1 and 99 seconds for this Ping message to reach its destination. If the packet fails to find the IP address in this specified time, the Ping packet will be dropped.
Source IPv4 Address	Enter the source IPv4 address. If the current switch has more than one IP address, you can enter one of them to this field. When entered, this IPv4 address will be used as the packets' source IP address sent to the remote host, or as primary IP address.

The fields that can be configured for **IPv4 Ping** are described below:

Parameter	Description
Target IPv6 Address	Enter an IPv6 address to be pinged.
Ping Times	Enter the number of times desired to attempt to Ping the IPv6 address configured in this window. Users may enter a number of times between 1 and 255. Tick the **Infinite** check box to keep sending ICMP Echo packets to the specified IPv6 address until the program is stopped.
Timeout	Select a timeout period between 1 and 99 seconds for this Ping message to reach its destination. If the packet fails to find the IP address in this specified time, the Ping packet will be dropped.
Source IPv6 Address	Enter the source IPv6 address. If the current switch has more than one IPv6 address, you can enter one of them to this field. When entered, this IPv6 address will be used as the packets' source IP address sent to the remote host, or as primary IP address.

Click the **Start** button to initiate the Ping Test for each individual section.

After clicking the **Start** button in **IPv4 Ping** section, the following **IPv4 Ping Result** section will appear:

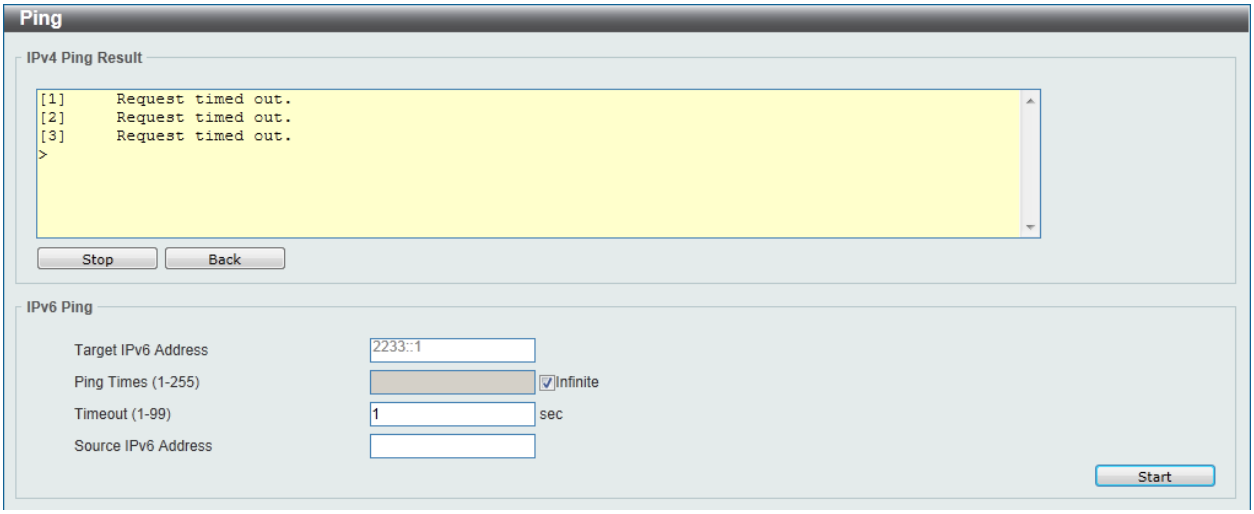

Figure 13-13 Ping - IPv4 Ping Result window

Click the **Stop** button to halt the Ping Test.

Click the **Back** button to return to the IPv4 Ping section.

After clicking the **Start** button in **IPv6 Ping** section, the following **IPv6 Ping Result** section will appear:

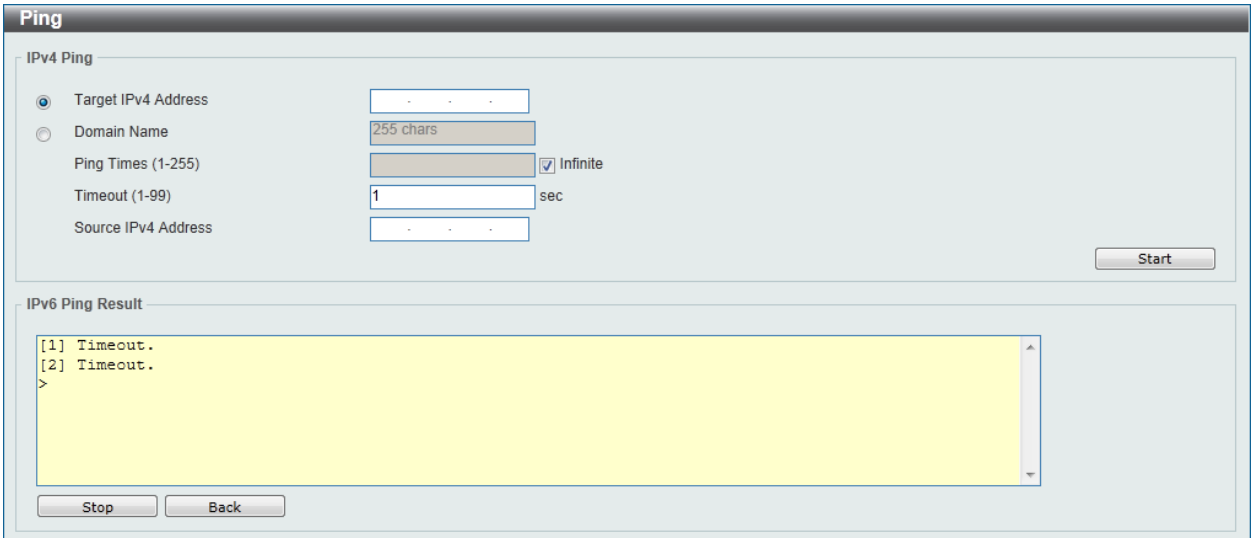

Figure 13-14 Ping – IPv6 Ping Result window

Click the **Stop** button to halt the Ping Test.

Click the **Back** button to return to the IPv4 Ping section.

Language Management

This window is used to install the language file to the Switch.

To view the following window, click **Tools > Language Management**, as shown below:

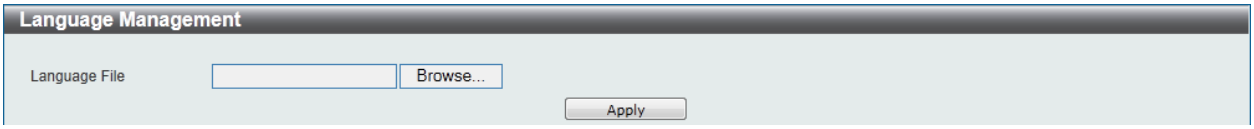

Figure 13-15 Language Management window

The fields that can be configured are described below:

Parameter	Description
Language File	Click the **Browse** button to navigate to the location of the firmware file located on the local PC.

Click the **Apply** button to initiate the language pack installation.

Reset

This window is used to reset the Switch's configuration to the factory default settings.

To view the following window, click **Tools > Reset**, as shown below:

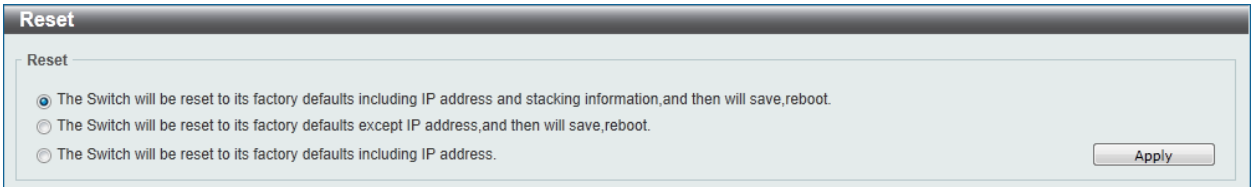

Figure 13-16 Reset window

Select the **The Switch will be reset to its factory defaults including IP address and stacking information, and the will save, reboot** option to reset the Switch's configuration to its factory default settings.

Select the **The Switch will be reset to its factory default except IP address, and then will save, reboot** option to reset the Switch's configuration to its factory default settings. This option will exclude the IP address from being changed.

Select the **The Switch will be reset to its factory defaults including IP address** option to reset the Switch's configuration to its factory default settings.

Click the **Apply** button to initiate the factory default reset and reboot the Switch.

Reboot System

This window is used to reboot the Switch and alternatively save the configuration before doing so. To view the following window, click **Tools > Reboot System**, as shown below:

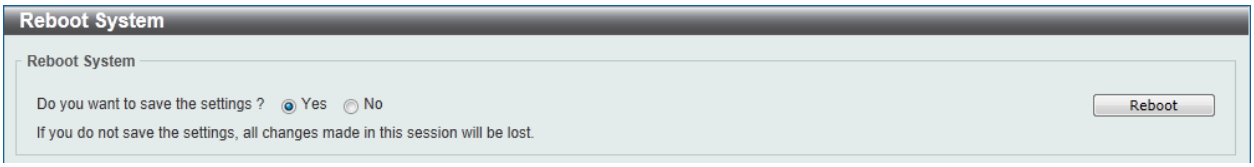

Figure 13-17 Reboot System window

When rebooting the Switch, any configuration changes that was made during this session, will be lost unless the **Yes** option is selected when asked to save the settings.

Click the **Reboot** button to alternatively save the settings and reboot the Switch.

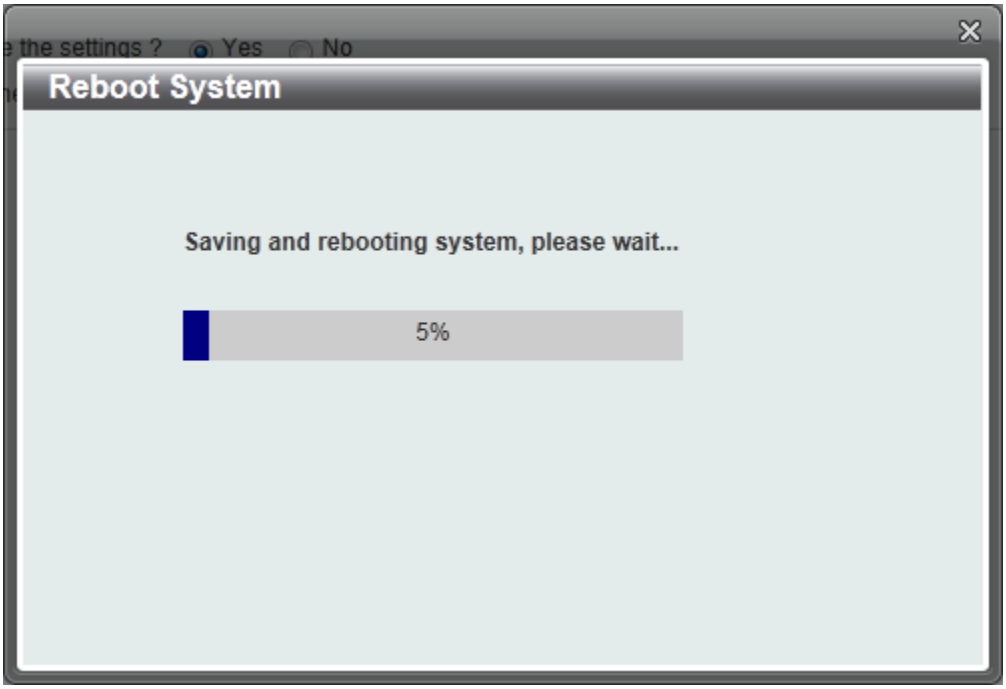

Figure 13-18 Reboot System - Rebooting window