

Creating-a-text-file-to-adjust-IP-settings-on-a-switch

Objective

The objective of this document is to show you how to create a text file to adjust the IP settings on a switch.

Introduction

Is your switch not allowing you to convert a dynamically assigned IP address to a static IP address? If you are having difficulty assigning a static IP address to a switch, due to a bug or another issue, this document can help. This document introduces an alternative to performing interaction in the Graphical User Interface (GUI). It is possible to load commands using the file operations through a text file that can help automate some of the steps required.

In this document, you will be provided the steps to create a text file with some commands that will help change your dynamic IP address to a static IP address of your choice. Then you will learn how to upload the text file using the file operations of the switch.

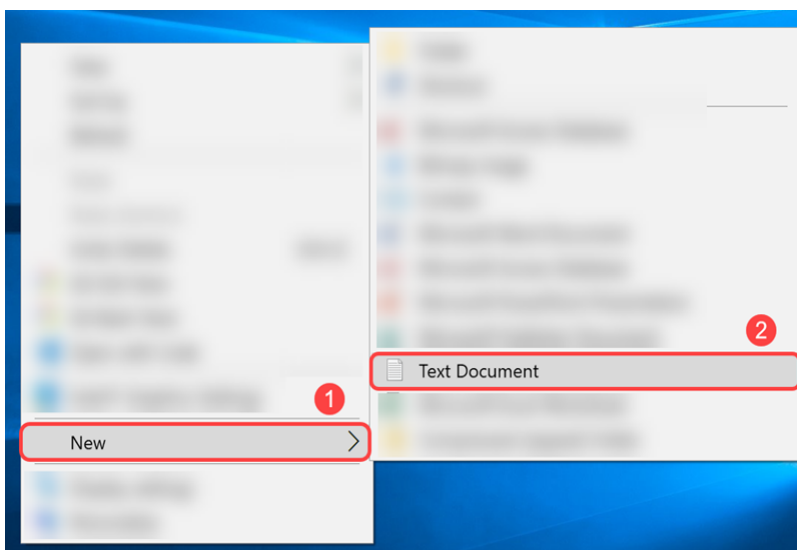
Applicable Devices

- Cisco Small Business Switches (Ensure CLI commands are supported on those models)

Creating a text file

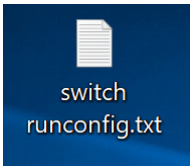
Step 1. Right-click on your desktop and navigate to **New > Text Document**. This will allow you to create a new text file.

Note: In this document, we will be using a Windows operating system to demonstrate creating a text file and uploading it onto the switch.



Step 2. **Name** the text file. The naming conventions will not matter for the text file. Then **double-click** the file to edit it.

In this example, we will use **switch runconfig** as our file name.



Step 3. Below are the commands that are required to populate the text file.

Note: These IPs included may be replaced with applicable IP, subnet, and gateway IP respectively.

[Cisco 300 Series Managed Switches Command Reference Guide.](#)

[Cisco 350 Series Managed Switches Command Reference Guide.](#)

[Cisco 350X Series Stackable Managed Switches Command Reference Guide.](#)

[Cisco 500 Series Stackable Managed Switches Command Reference Guide.](#)

[Cisco SG550X Series Stackable Managed Switches Command Reference Guide.](#)

The file should contain something similar to this:

conf t – Enter the global configuration mode.

int vlan 1 – Enter the interface configuration (VLAN) mode for a specific VLAN.

no ip address dhcp – use the no form of this command to release an acquired IP address.

no ip address – use the no form of this command to remove an IP address definition.

ip address 192.168.1.99 255.255.255.0 – use this command to define an IP address for an interface.

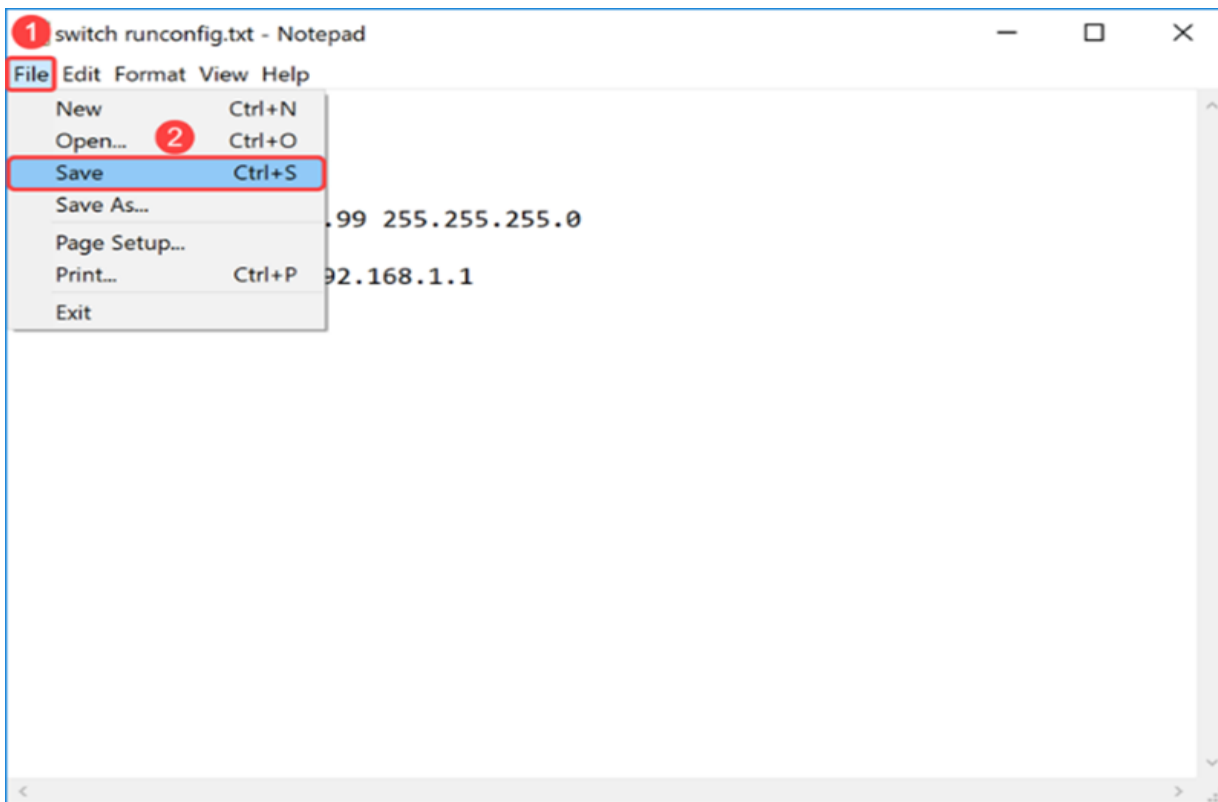
exit – To exit any mode and bring the user to the next higher mode in the CLI mode hierarchy.

ip default-gateway 192.168.1.1 – Use this command to define a default gateway (device).

A screenshot of a Notepad window titled 'switch runconfig.txt - Notepad'. The window contains the following text:

```
conf t
int vlan 1
no ip address dhcp
no ip address
ip address 192.168.1.99 255.255.255.0
exit
ip default-gateway 192.168.1.1
```

Step 4. Save the file by navigating to **File > Save** or holding down **Ctrl** key and then pressing the **s** key.

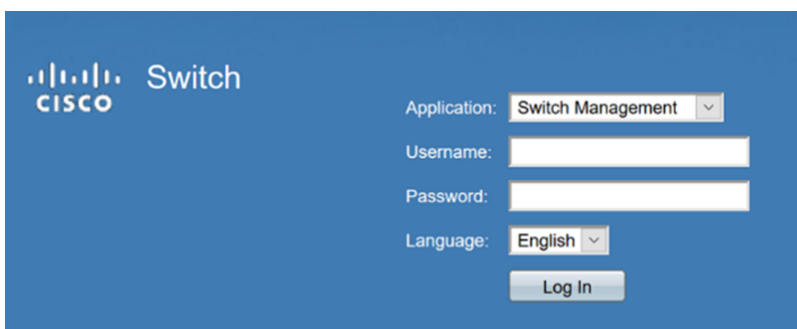


Once you have saved your text file, you will upload the file onto the switch.

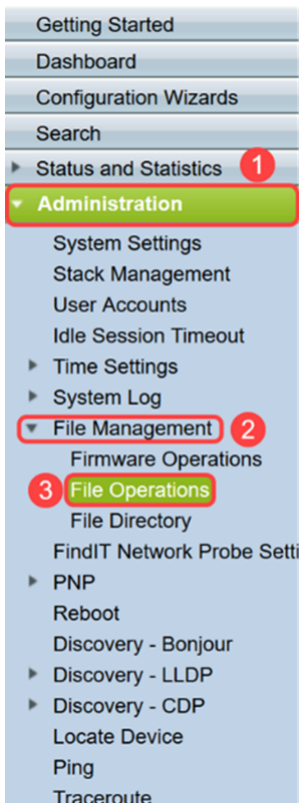
Uploading the file onto the switch

Step 1. Log in to the web configuration page of your switch.

Note: In this example, we will be using an SG550X-24 switch.



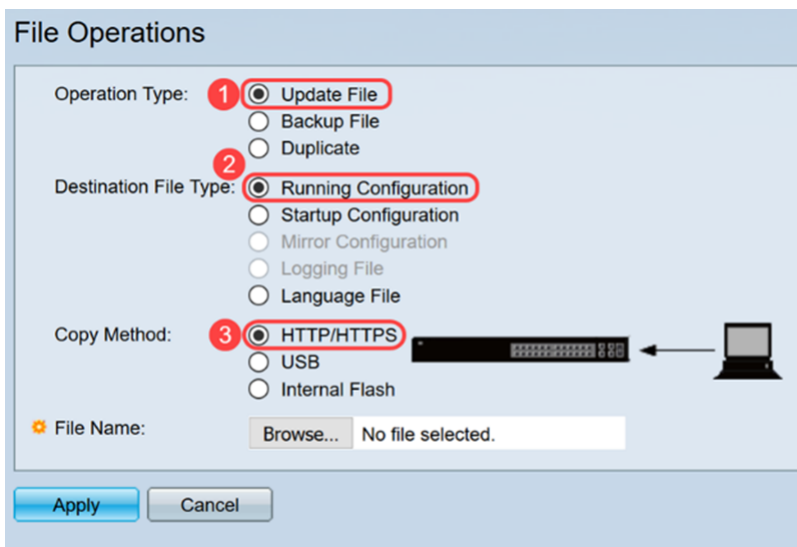
Step 2. Navigate to **Administration > File Management > File Operations**.



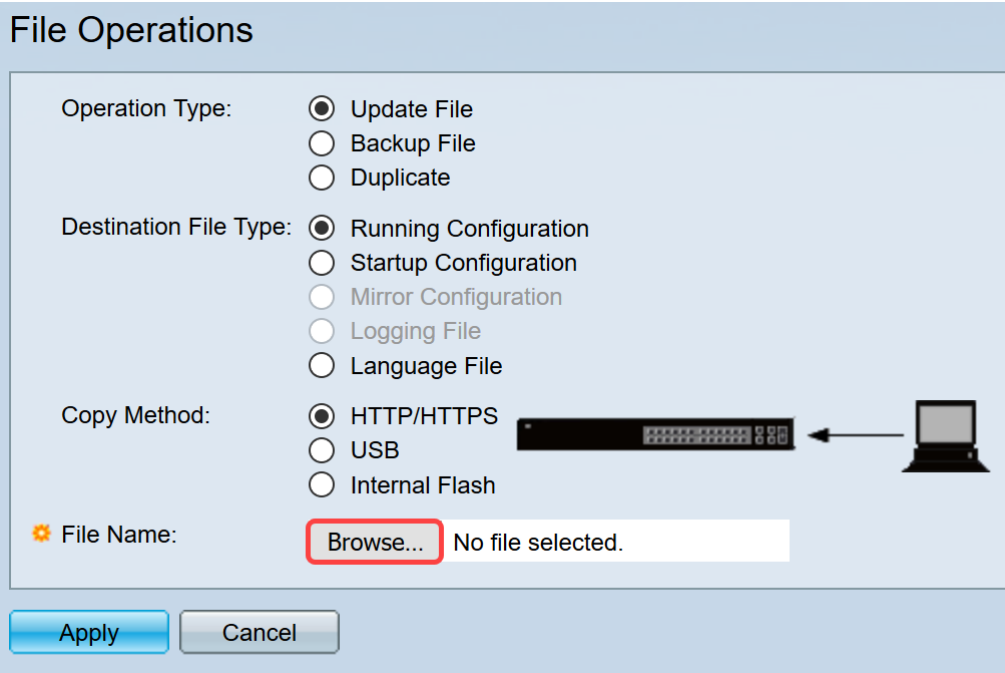
Step 3. In the *File Operations* page, select the following operations.

- **Update File** – *Operation Type* field.
- **Running Configuration** – *Destination File Type* field.
- **HTTP/HTTPS** – *Copy Method* field.

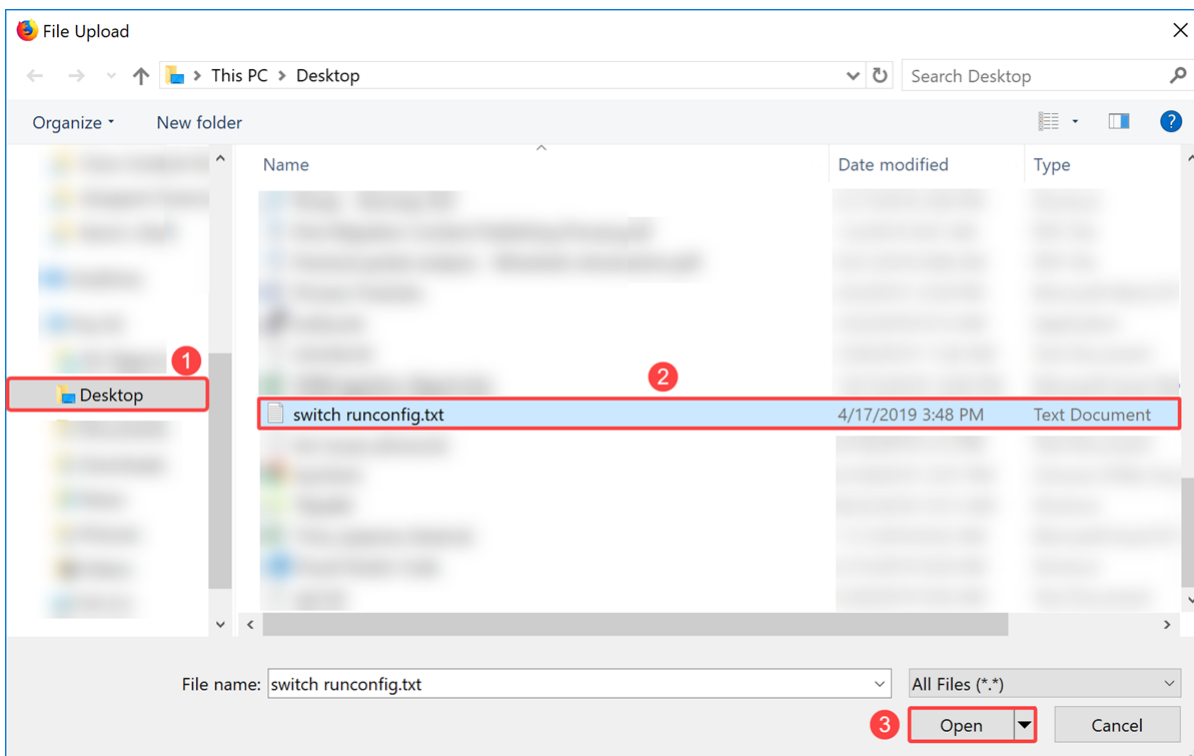
Note: Any configurations that are in the Running Configuration file is volatile which means that it is not retained between reboots. To retain the configuration between the device reboots, copy the Running Configuration file to the Startup Configuration file after you have completed all your changes.



Step 4. In the *File Name*, click **Browse...** to select a file that you want to upload.



Step 5. A *File Upload* window will appear. Navigate to where your text file is located and select the file. Click **Open**.




Step 6. Click **Apply** to update the file to the running configuration.

File Operations

Operation Type: Update File
 Backup File
 Duplicate

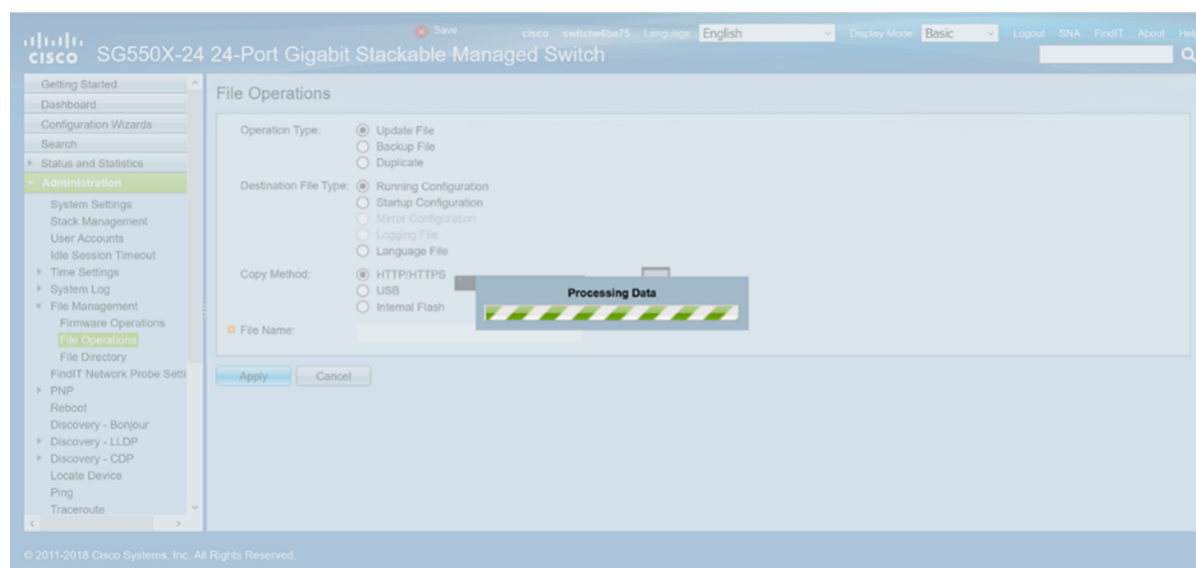
Destination File Type: Running Configuration
 Startup Configuration
 Mirror Configuration
 Logging File
 Language File

Copy Method: HTTP/HTTPS 
 USB
 Internal Flash

File Name: switch runconfig.txt

Step 7. A *Processing Data* bar will appear. This occurs when the switch uploads the text file to the running configuration. Please wait a few minutes before proceeding onto step 8.

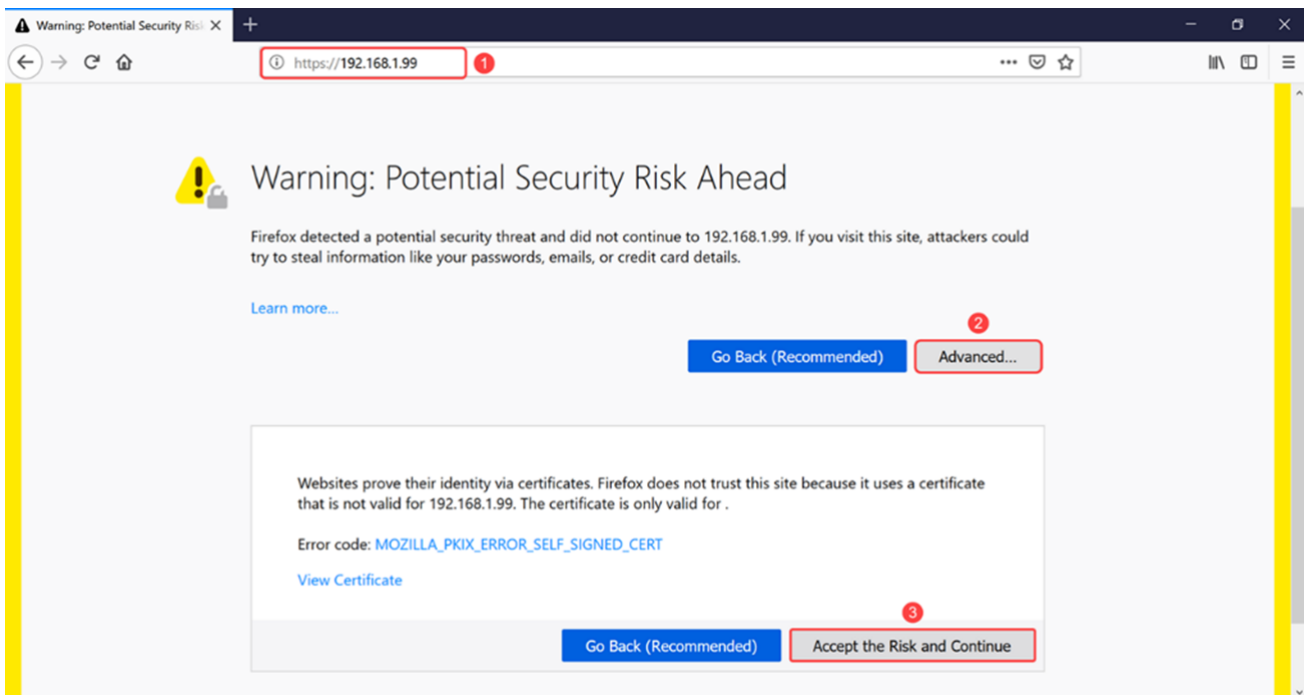
Note: There won't be any indication that tells you that the file is uploaded.



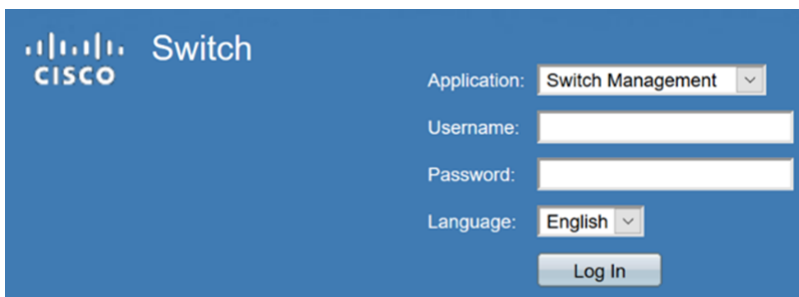
Step 8. After waiting a couple of minutes, the switch should have loaded the new configuration file to the running configuration of the switch. Open a new browser and enter the IP address of the switch in the URL to which it was assigned in your text file.

In this example, **192.168.1.99** was used. You may need to include **https://** in front of the IP address. If it is successful, your page will load into a *Warning: Potential Security Risk Ahead* page. Click **Advanced...** and then **Accept the Risk and Continue**. This will bring you to the web configuration page of the switch.

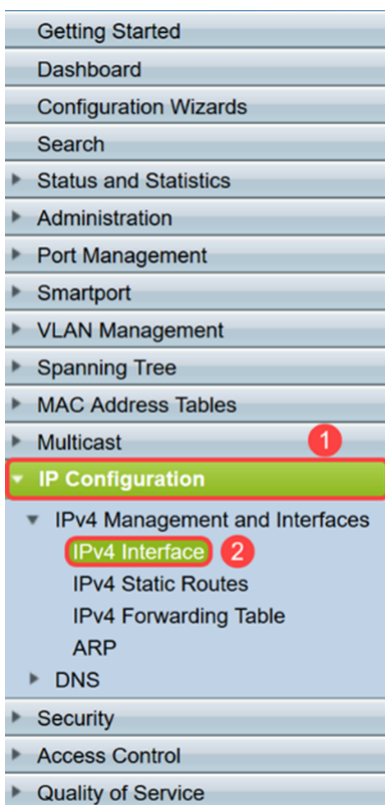
Note: The screenshot that was taken was used in a Firefox browser, you should get a similar page if you are using a different browser.



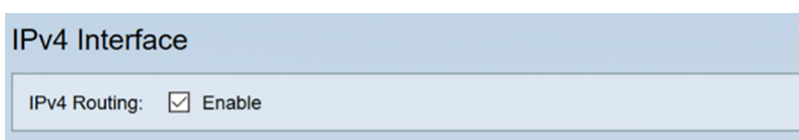
Step 9. Log in to the web configuration page of the switch.



Step 10. Navigate to **IP Configuration > IPv4 Interface**.



Step 11. The *IPv4 Interface Table* will display the new static IP address assigned to the switch. In this example, we can see that our IP address is **192.168.1.99** with the *IP Address Type* of *Static*.



Conclusion

You should now have successfully assigned a static IPv4 address on the VLAN interface through the web-based utility of the switch using a text file.