Advanced Dynamic Host Configuration Protocol (DHCP) Configuration on RV180 and RV180W VPN Routers

Objective

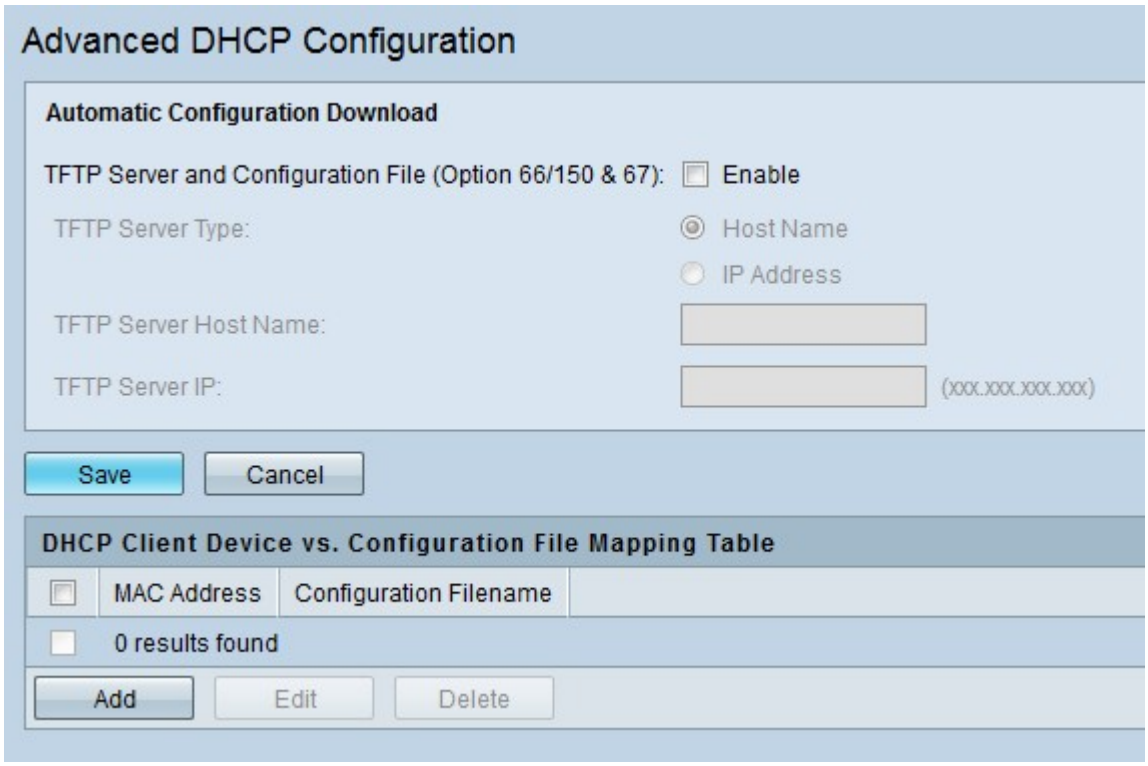
Dynamic Host Configuration Protocol (DHCP) is a network configuration protocol that automatically configures the IP address of devices on a network so that they can connect to one another. This article explains how to configure advanced DHCP settings on the RV180 and RV180W VPN Routers.

Applicable Devices

- RV180
- RV180W

Steps of Procedure

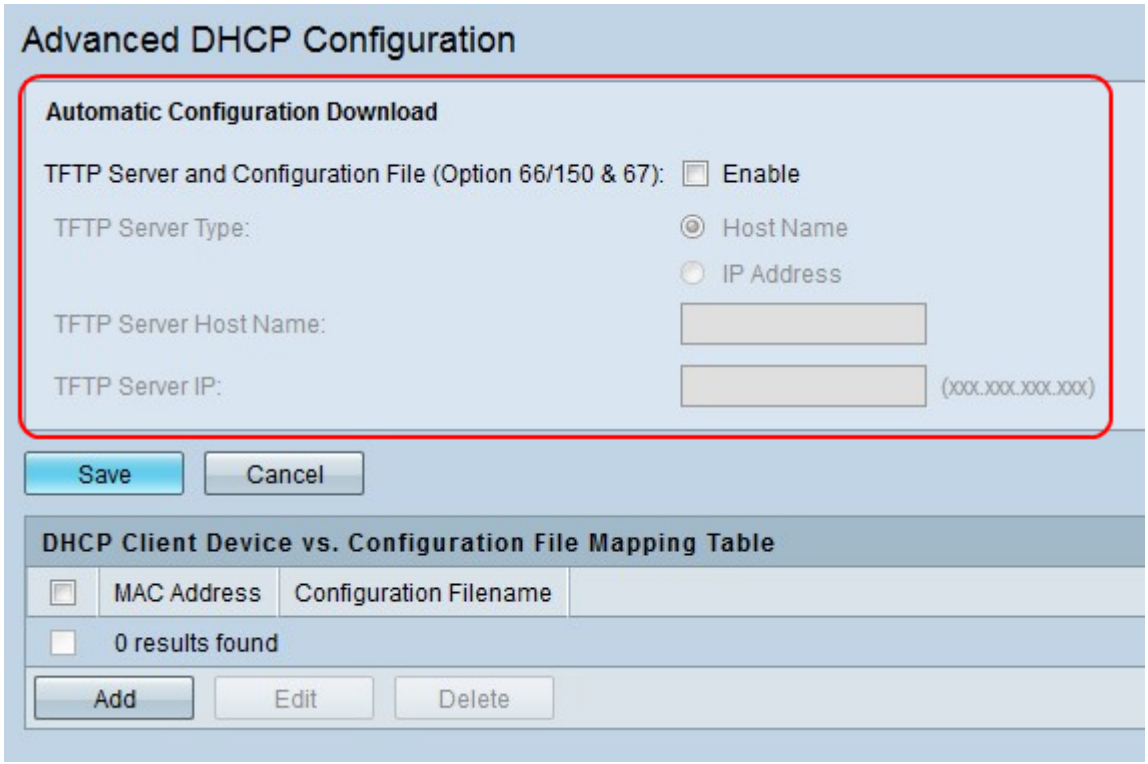
Step 1. Use Router Configuration Utility to choose **Networking > LAN (Local Network) > Advanced DHCP Configuration** from the menu on the left.



Automatic Configuration Download

Trivial File Transfer Protocol (TFTP) is a simple protocol used to download and move configuration and boot-up files on a network. The use of a TFTP server allows an administrator to quickly apply a single configuration to multiple devices at once. This procedure shows how to set the router to automatically download configuration files from a

TFTP server.



Step 1. Check the **Enable** checkbox to the right of TFTP Server and Configuration File to allow files to be automatically downloaded from a TFTP server.

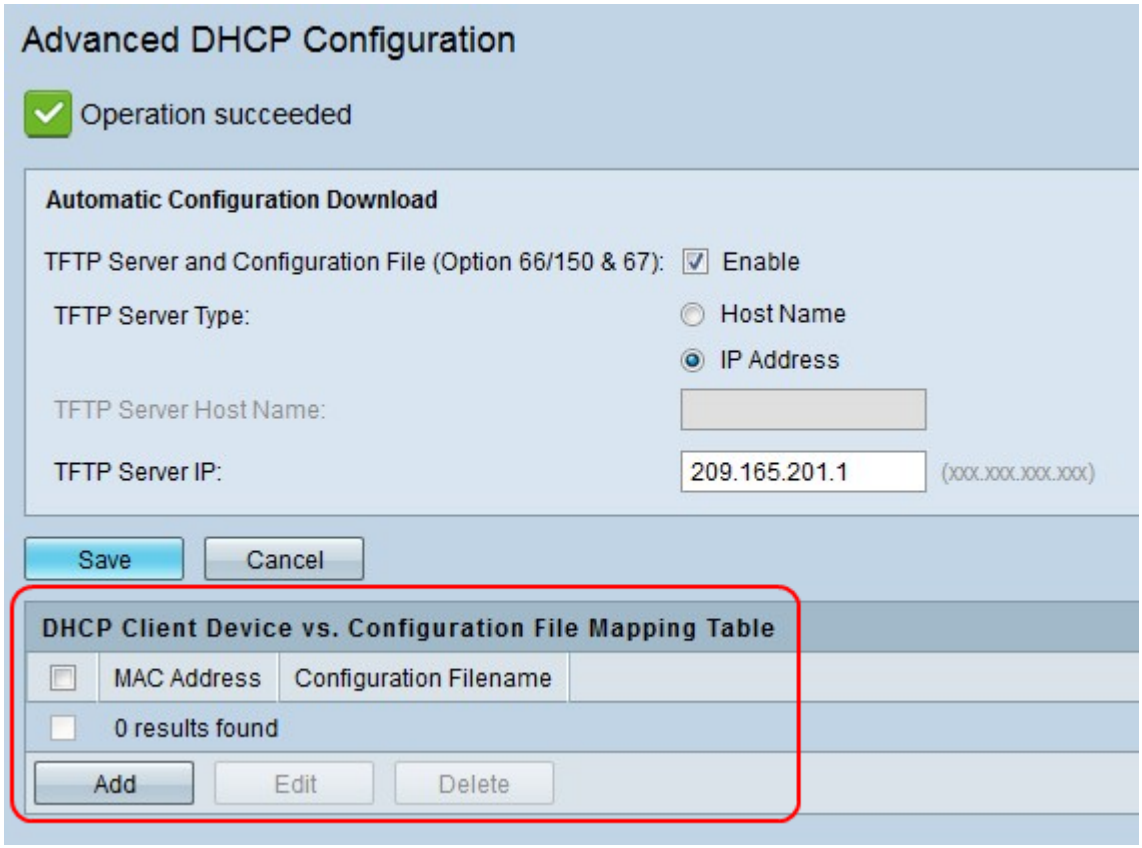
Step 2. To the right of TRTP Server Type, click one of the following radio buttons:

- Host Name — This option allows you to identify the TFTP server by it's host name. Enter the host name in the TFTP Server Host Name field.
- IP Address — This option allows you to identify the TFTP server by it's IP address. Enter the TFTP server IP address in the TFTP Server IP field.

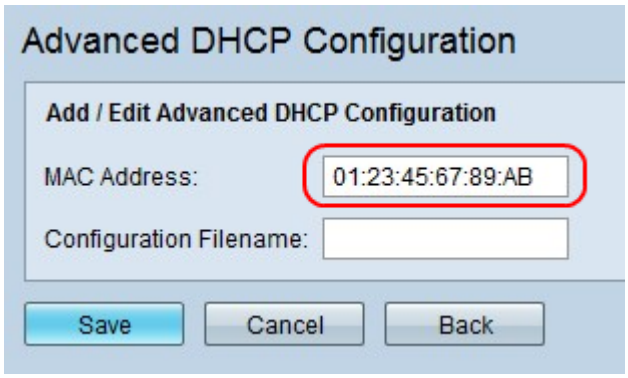
Step 3. Click **Save** to save changes, of click **Cancel** to discard them.

Download Configuration Files for Devices

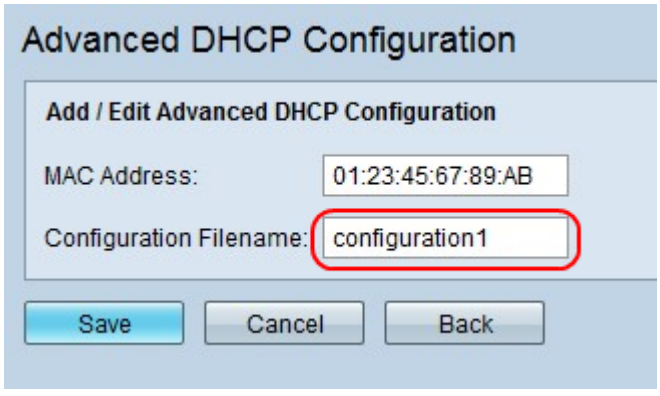
Once the TFTP has been set up on the router, an administrator needs to configure the router so that the router applies the correct configuration files to the correct devices. This process shows how to set the router to apply downloaded configuration files to connected devices.



Step 1. In the DHCP Client Device vs. Configuration File Mapping Table, click **Add**. A new page appears.



Step 2. In the MAC Address field, enter the MAC address of the device on the network to which the configuration file is being applied.



Step 3. In the Configuration Filename field, enter the name of the configuration file to be applied.

Step 4. Click **Save** to save changes or click **Cancel** to discard them.