

IPv4 Static Routing Configuration on RV016, RV042, RV042G, and RV082 VPN Routers

Objective

Static Routing is a manually configured pathway a packet must travel on to reach a destination. If there is an absence of communication between routers regarding the current topology of the network, static routes can be configured to establish direct communication between the routers. Static Routes use less network resources than dynamic routing because it does not have to constantly calculate the next route to take. A static route creates a fixed path a packet must travel on between routers. This article explains how to configure static routing settings on the RV016, RV042, RV042G, and RV082 VPN Routers.

Applicable Devices

- RV016
- RV042
- RV042G
- RV082

Software Version

- v4.2.1.02

Static Routing Configuration

Step 1. Log in to the Router configuration utility and choose **Setup > Advanced Routing** . The *Advanced Routing* page opens:

Advanced Routing

IPv4

IPv6

Dynamic Routing

Working Mode :

Gateway

Router

RIP :

Enabled

Disabled

Receive RIP versions :

Transmit RIP versions :

Static Routing

Destination IP :

Subnet Mask :

Default Gateway :

Hop Count (Metric, max. is 15) :

Interface :

Add to list

Delete

Add New

View

Save

Cancel

Static Routing

Destination IP : 192.4.19.89

Subnet Mask : 255.255.255.0

Default Gateway : 192.168.1.28

Hop Count (Metric, max. is 15) : 5

Interface : LAN

Add to list

192.51.51.24

Delete Add New

View Save Cancel

[Step 2.](#) Enter the destination address in the *Destination IP* field. The destination IP address is the address to which you want to assign a static route to.

Step 3. Enter the subnet mask of the destination address in the *Subnet Mask* field. The subnet mask specifies which portion of an IP address is the network address and which portion is the host address.

Step 4. Enter the IP address of the gateway in the *Default Gateway* field. The gateway allows for contact between the wired router and the specified network. A gateway is bridge between two different networks that allows communication with each other.

Step 5. Enter the number of hops in the *Hop Count* field. Every time a data packet passes through a node of network device, it has made one hop towards its destination. The hop count refers to the number of hops a data packet has made from its source to its destination.

Step 6. Choose the interface to use for this static route from the *Interface* drop-down list.

- WAN1, WAN2 - If router provides Internet connectivity for your network.
- LAN - If router gets Internet connectivity from a gateway router on your LAN.

Step 7. Click **Add to List** to add the configured static route to the list. You can enter up to 30.

Static Routing

Destination IP : 192.4.19.89

Subnet Mask : 255.255.255.0

Default Gateway : 192.168.1.28

Hop Count (Metric, max. is 15) : 5

Interface : LAN

Update

192.51.51.24
192.4.19.89

Delete Add New

View Save Cancel

Step 8. (Optional) If you want to update the static route, then choose the route from the route list, update the desired fields, and click **Update**.

Step 9. (Optional) If you want to delete a static route from the static route list, choose the route from the list and click **Delete**.

Step 10. (Optional) To add another new static route to the list click **Add New**. If you want to add a new static route, follow [Steps 2 through 6](#).

Step 11. Click **Save** to save your configuration.

You have now successfully configured static routing settings on the RV016, RV042, RV042G, and RV082 VPN routers.