CISCO DESIGNED RV340

Cisco RV340 VPN Router User Manual

Model: RV340
Brand: CISCO DESIGNED

Introduction

This manual provides essential instructions for the setup, operation, maintenance, and troubleshooting of your Cisco RV340 VPN Router. The RV340 is designed to provide secure and reliable network connectivity for small to medium-sized businesses, featuring 4 Gigabit Ethernet ports and Dual WAN capabilities.

Package Contents

Before proceeding with the installation, verify that your package contains the following items:

- Cisco RV340 VPN Router
- Power Adapter
- Ethernet Cable
- Quick Start Guide
- Rack Mount Brackets (for optional installation)

Setup

1. Physical Installation

The Cisco RV340 router can be placed on a desktop or mounted in a rack using the included brackets.

- **Desktop Placement:** Ensure adequate ventilation around the device.
- **Rack Mounting:** Secure the provided brackets to the router and then to a standard equipment rack.

Connect the power adapter to the router and an electrical outlet. Connect your internet service provider's modem to one of the WAN ports (WAN1 or WAN2) on the router using an Ethernet cable. Connect your local network devices (computers, switches) to the LAN ports (1-4).



Figure 1: Front view of the Cisco RV340 VPN Router, showing the status indicators, LAN ports, WAN ports, and USB ports.

2. Initial Configuration

1. Connect a computer directly to one of the LAN ports (1-4) on the RV340 using an Ethernet cable.
2. Open a web browser and navigate to the router's default IP address (typically192.168.1.1). Refer to the Quick Start Guide for the exact default IP and login credentials.
3. Log in using the default username and password. You will be prompted to change the default password for security.
4. Follow the on-screen setup wizard to configure your basic internet connection settings (WAN).

3. Firmware Update

It is highly recommended to update the router's firmware to the latest version immediately after initial setup to ensure optimal performance, security, and access to the newest features. Navigate to the System or Administration section in the web interface to check for and apply firmware updates.

Operating the Router

Network Connectivity

- **Integrated 4-Port Gigabit Ethernet Switch:** Connect your wired devices such as computers, printers, or network-attached storage (NAS) to the LAN ports for high-speed local network access.
- **Dual WAN Ethernet:** The RV340 supports two WAN connections, allowing for load balancing to distribute network traffic across both connections or failover to provide redundancy in case one internet connection goes down. Configure these settings in the WAN section of the web interface.

Security Features

- **VPN Functionality:** The router offers robust VPN capabilities for secure remote access and site-to-site connectivity. This includes support for standard IPsec, Layer 2 Tunneling Protocol (L2TP) over IPsec, and Cisco IPsec.
- **Cisco AnyConnect Secure Mobility Client:** The RV340 supports the Cisco AnyConnect client, which is ideal for secure remote access by mobile devices and laptops.
- **Guest Wi-Fi (VLANs):** Utilize Virtual Local Area Networks (VLANs) to create separate, highly secure wireless guest access networks, isolating guest traffic from your main business network.

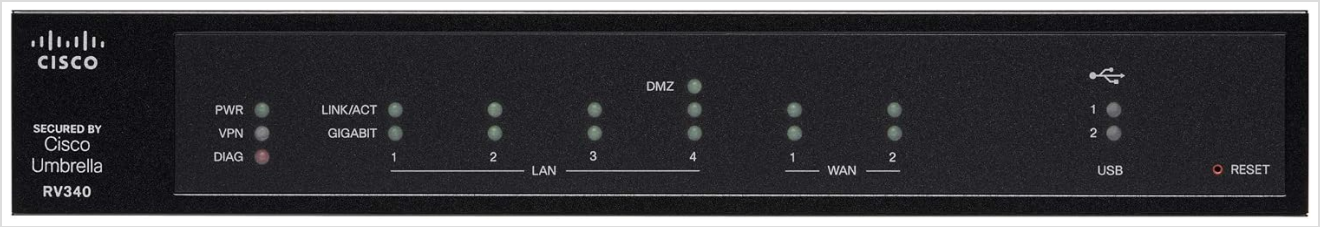


Figure 2: Close-up of the RV340 front panel, detailing the PWR, VPN, DIAG, LINK/ACT, GIGABIT, LAN, WAN, USB, and RESET indicators and ports.

Maintenance

Firmware Updates

Regularly check for and apply firmware updates to ensure your router operates with the latest security patches and features. Cisco frequently releases updates that improve stability and address known issues.

Resetting to Factory Defaults

If you encounter persistent issues or wish to reconfigure the router from scratch, you can perform a factory reset. Locate the recessed RESET button on the front panel. With the router powered on, use a paperclip or similar pointed object to press and hold the RESET button for more than 10 seconds. The router will reboot with factory default settings.

Troubleshooting

This section addresses common issues you might encounter with your RV340 router.

- **No Internet Connection:**
  - Verify that your modem is working correctly and providing an internet signal.
  - Check the WAN port LED indicators on the RV340 to ensure a link is established.
  - Ensure the correct WAN settings (DHCP, Static IP, PPPoE) are configured in the router's web interface.
- **Slow Network Performance:**
  - Confirm that your devices are connected to Gigabit Ethernet ports and using appropriate cables.
  - Check for any active security features (e.g., IPS, DPI) that might be impacting throughput.
  - Ensure the router's firmware is up to date.
- **Web Interface Unresponsive After Firmware Update:**
  - If the web GUI becomes unresponsive after a firmware update, try clearing your browser's cache or using a different browser.
  - If the issue persists, a factory reset may be necessary. Ensure you back up your configuration before performing a reset.
- **IPv6 Configuration Issues:**
  - Ensure the WAN port is connected to the ISP and has a valid IPv6 prefix before configuring LAN-side IPv6 settings.
  - Verify that your ISP supports IPv6 and provides the necessary delegation.

Specifications

Feature	Detail
Model Name	RV340
Brand	CISCO DESIGNED

Feature	Detail
Connectivity Technology	Wired
Ethernet Ports	4 Gigabit LAN, 2 Gigabit WAN
USB Ports	2 (USB 2.0)
RAM	1024 MB
Flash Memory Size	256 MB
Operating System	Cisco IOS
Item Weight	2.6 pounds
Product Dimensions	6.75 x 11 x 1.75 inches
Voltage	12 Volts (DC)
Special Feature	WPS (Wi-Fi Protected Setup) -*Note: This feature is typically for wireless devices. For a wired router, its presence might relate to USB wireless adapter support or general system utilities.*

Warranty and Support

The Cisco RV340 VPN Router comes with a limited lifetime warranty. Additionally, it includes one year of technical support and free software fixes for the duration of the warranty term. For advanced features or specific licensing requirements, refer to your Cisco Smart Account or contact Cisco support.

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For further assistance, visit the official Cisco website.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question