Cascade (Connect) a Cisco Small Business Router to a VoIP Router

Contents

Introduction

This article is one in a series to assist in the setup, troubleshooting, and maintenance of Cisco Small Business products (formerly Linksys Business Series).

Q. How do I connect my Linksys router to a Linksys VOIP router?A.

Note: Before you connect a Linksys router to a Linksys VOIP router, make sure both have different IP addresses. This is mandatory because if both routers have the same IP address, you will experience IP address conflicts. If both routers have the same IP address, you need to change the IP address of the Linksys router to prevent any conflict.

There are two ways to cascade a Linksys router to a Linksys VOIP router:

Connecting one of the Ethernet ports of the Linksys router to one of the Ethernet ports of the Linksys VOIP router.
Connecting one of the Ethernet ports of the Linksys VOIP router to the Internet port of the Linksys router.

By connecting the Linksys router's Ethernet port to the Linksys VOIP router's Ethernet port, the computers connected to both routers will be on the same LAN IP segment. This will allow sharing of network resources within the network. For instructions, click here .

By connecting the Linksys router's Internet port to the Linksys VOIP router's Ethernet port, it will be easier to identify which router the computers are connected to since they will have different LAN IP segments. For instructions, click here .

Note: Before configuring the Linksys router, make sure that it is not connected to the Linksys router, where the broadband modem is connected. Then follow these instructions:

Cascading a Linksys Router to a Linksys VOIP Router (LAN-LAN)

To cascade a Linksys router to a Linksys VOIP router, you need to perform two steps:

Connecting a Computer to the Linksys Router
Configuring the Linksys Router with LAN-to-LAN Connection??

Connecting a Computer to the Linksys Router

Note: This article assumes that you already have the Linksys VOIP router working.

>   **Step 1:**
>   Shutdown the computer and plug it to any of the numbered ports at the back of the Linksys router.
>
>   ?
>
>   **Note:** The router's image may vary depending on the model and version number.
>
>   **Step 2:**
>   Plug the supplied power adapter in the Linksys router.

After connecting a PC to the router, configure the Linksys router for LAN-to-LAN connection. For instructions, refer to the steps below.

Configuring the Linksys Router with LAN-to-LAN Connection

>   **Step 1:**
>   Access the router's web-based setup page. For instructions, click here.
>
>   **Step 2:**
>   When the router's web-based setup page appears, look for **Local IP Address** and change it to "192.168.15.2" so both routers will be on the same IP segment.
>
>   **Step 3:**
>   Look for **Network Access Server Settings (DHCP)** and set **DHCP Server** to **Disable**.
>
>   **Step 4:**
>
>   Click .
>
>   **Step 5:**
>   Click **Advanced Routing** and change **Operating Mode** to **Router.**
>
>   ?
>
>   **Step 6:**
>
>   Click?.
>
>   **Step 7:**
>   Connect a standard Ethernet network cable to one of the numbered Ethernet ports on the Linksys VOIP router, where the broadband modem is connected. Then, connect the other end of the Ethernet cable to the Ethernet port of the Linksys router that you have just configured.

Cascading a Linksys Router to a Linksys VOIP Router with Internet-to-LAN Connection

Connect a standard Ethernet network cable to one of the numbered Ethernet ports on the Linksys VOIP router, where the broadband modem is connected. Then connect the other end of the

Ethernet cable to the Internet port of the Linksys router that you have just configured.

Note: There are no further configurations needed if the **Internet** port of the Linksys router will be connected to one of the **Ethernet** ports of the Linksys VOIP router.

If both router's have the same **Local IP Address**, change the Linksys router's IP address to another IP segment. For instructions, click here.

Related Information

- **Technical Support & Documentation - Cisco Systems**