

Set up Servers Behind a Cisco Small Business VOIP Router

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Introduction

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

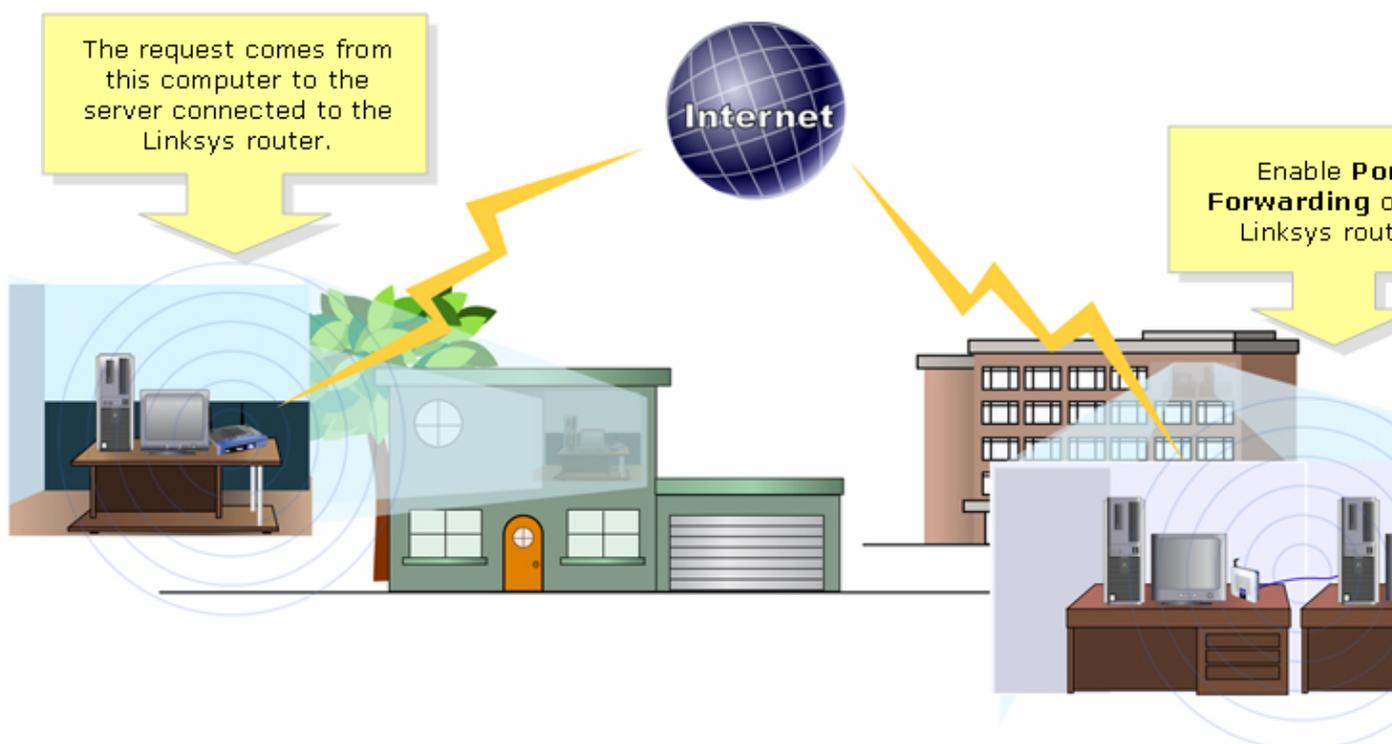
Q. How do I set up Servers Behind a Cisco Small Business VOIP Router?

A.

Port Forwarding is a method that allows you to run a server behind the router. Port Forwarding opens a specific port to a computer behind the router, allowing all incoming traffic on that port to be sent directly to that server. It is used to set up servers behind the router.

In setting-up Port Forwarding on the Linksys router, you will need to go through two steps:

1. Assigning Static IP Address on the Server PC
2. Setting-up Port Forwarding on the Router?



Below is an example of how to set up Port Forwarding.? In the example below, we will be setting–up an FTP Server. FTP uses ports 20 and 21.

Note: It is important that you know the service ports the server is using. If you do not know which port/s your server is using, consult the user guide or contact the developer.

It is strongly recommended that the server is wired to the router for a stable connection.?

Most common ports:?

Web Server: 80

FTP Server: 20 and 21

POP3: 110

SMTP: 25?

Assigning Static IP Address on the Server PC?

This is done to prevent the server from changing or obtaining a new IP address from the router. This article assumes that the LAN IP address of the router is 192.168.15.1.

After assigning a static IP address on the server PC, set–up port forwarding on the router. For instructions, follow the steps below.??

Setting–up Port Forwarding on the Router

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, click ***Applications & Gaming.***?



Step 3:

Click ***Port Range Forward.*** Under ***Application,*** enter the name of the server you'll be setting up. Then for the ***Start*** and ***End*** fields, enter the range of ports your server will be using.?????

Applications & Gaming

Setup | Wireless | Security | Access Restrictions | **Applications & Gaming** | Administrator

Port Range Forward | Port Triggering | DMZ | QoS

Port Range Forward

| Port Range | | | | | |
|-------------|-------|-------|----------|--------------|-------------------------------------|
| Application | Start | End | Protocol | IP Address | Enable |
| FTP | 20 | to 21 | Both | 192.168.1.50 | <input checked="" type="checkbox"/> |
| | | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |
| | | | | 192.168.1.0 | <input type="checkbox"/> |
| | | | | 192.168.1.0 | <input type="checkbox"/> |
| | 0 | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |
| | 0 | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |
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| | 0 | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |

Save Settings | Cancel Changes

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Step 4:

Select either protocol **TCP** or protocol **UDP** or if you're not sure which protocol your server is using, select **Both**.

Step 5:

Look for the **IP Address** field, enter the IP address that you assigned your server then check **Enable**.

Applications & Gaming

Setup | Wireless | Security | Access Restrictions | Applications & Gaming | Administration

Port Range Forward | Port Triggering | DMZ | QoS

Port Range Forward

Select either TCP, UDP or Both for Protocol.

| Application | Start | End | Protocol | IP Address | Enable |
|-------------|-------|-------|----------|--------------|-------------------------------------|
| FTP | 20 | to 21 | Both | 192.168.1.50 | <input checked="" type="checkbox"/> |
| | 0 | to 0 | Both | 192.168.1. | <input type="checkbox"/> |
| | 0 | to 0 | Both | 192.168.1. | <input type="checkbox"/> |
| | 0 | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |
| | 0 | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |
| | 0 | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |
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| | 0 | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |
| | 0 | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |
| | 0 | to 0 | Both | 192.168.1.0 | <input type="checkbox"/> |

Type the IP Address of your server then check **Enable**.

Save Settings | Cancel Changes

Port Range Forward
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 More..

Step 6:

Click? [Save Settings](#).

Related Information

- [Technical Support & Documentation – Cisco Systems](#)