

Routers on the same fiber optic cable but with different IP addresses on different subnets



Overview

To configure more than one IP address on an interface, issue the `ip address` command with the secondary keyword in interface configuration mode. Routers configured with secondary addresses can route between the different subnets attached to the same physical interface. The SFP of R1 is configured as DHCP client to get a public IP address. Connected to each of them is a Belkin RT3200, both running OpenWRT 24. x (and vice versa) The vilfo is special router. When a router is connected to another router, and the two routers are connected to different network segments, in order for the two network segments to communicate, we need to configure static routing. I have a standard landline DSL (Slow transfer speed, decent latency) via a Fritzbox 7490 and a connection via Cable (High transfer speed, horrible latency) via a. Since you have different subnets on each side of the VPN/fiber you might want to keep this setup, that allows you to separate/filter the traffic between locations AND requires the least changes on devices at both sides.



Article Content

Dec 10, 2025

BASIC COMPUTER NETWORKING: Overview and Key Concepts

This document provides a comprehensive overview of computer networking, including definitions, advantages, disadvantages, types of networks, and key components. It discusses various network

May 09, 2026

Router (computing)

A router is connected to two or more data lines from different IP networks. When a data packet comes in on a line, the router reads the network address

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Different subnets in the same LAN

If the destination IP is in the same subnet as the senders IP and subnet mask then it will look locally for the destination MAC address. Otherwise

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I tried different Switches and also reduced my network setup to 1 device + 2 Fritzboxes but I still always experience the same phenomenon. Is there nothing else I can do than to physically

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connect two routers with different subnet

Do those routers have a third interface you can use to physically connect them (assuming they are in the same location to begin with)? Otherwise

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How to use multiple routers with fibre optics cable?

P-T-P links (a /30 mask) are used to route traffic between routers, not to assign addresses to hosts and should be from a completely different subnet than the traffic routed across

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Choosing the Right Network Cable for Your Job

Not all network cables are built for the same job. Choosing the right cable can directly impact speed, stability, distance, and overall network performance. Here's a quick breakdown of common ...

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Physically connecting two OpenWRT routers serving separate subnets

This can be one of the LANs, or a separate small subnet that doesn't overlap anything else in either site. There are advantages and disadvantages to both approaches.

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Fiber-optic cable

Different types of cable are used for fiber-optic communication in different applications, for example long-distance telecommunication or providing a high

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Understanding Routers, Switches, and Network Hardware

Here is the simplest network configuration available: a computer linked directly to a modem which is in turn linked through a phone

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2 separate subnets on 2 different router's ports

If you only wish to have your two networks on individual and separate ports you can remove those ports from the bridge, add IP addresses to the ports, a DHCP server to one of them

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How to Reset Your Router: A Step-By-Step Guide

Before pressing any buttons, it helps to know which option you actually need and what information to save first. With the right preparation, you can reset your router without losing access

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Network vs. Internet: What's the Difference? A Simple Explanation

☐☐ ****TL;DR: Network vs. Internet – Quick Breakdown**** Network = A group of connected devices (e.g., Wi-Fi at home, office LAN). Think of it as a private club where devices share resources. Internet = A

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What is SFP? A Must-Know for Networking

A Must-Know for Networking Professionals SFP (Small Form-factor Pluggable) modules are essential components in modern networking, enabling seamless connectivity between switches, routers, or ...

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Intercommunication between routers on different

When a router is connected to another router, and the two routers are connected to different network segments, in order for the two network segments

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One fibre line into two separate networks? : r/HomeNetworking

Two of the Ethernet ports (E1 and E2) are configured with static IP addresses on different small subnets with private IP spaces, like 192.168.100.0/30 and 192.168.200.0/30, each running a DHCP server

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How to configure multiple IP addresses on an interface

To configure more than one IP address on an interface, issue the ip address command with the secondary keyword in interface configuration mode. Routers configured with secondary

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Direct Fiber between subnets

A fiber connection is really no different than just running an ethernet cable between the two buildings, at least not from a network configuration perspective. If the buildings use different subnets,

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Can I connect two routers to one fiber modem?

Learn if you can connect two routers to one fiber modem for better WiFi coverage. Discover setup methods and potential challenges.

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ASUS RT-BE92U Review: A Solid Just-Right Wi-Fi 7 Router | Dong Knows Tech

Table of Contents ASUS RT-BE92U: A practical Wi-Fi 7 mesh router As mentioned, the RT-BE92U is totally different from

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Optical computing interconnect technology landscape 2026

Optical computing interconnect patents and research 2026: silicon photonics, co-packaged optics, FSO, and fiber switching — mapped across hyperscalers, chipmakers, and academia.

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I upgraded to fiber and my Wi-Fi still lagged: How to ...

Every time a device joins your network, your router's DHCP server automatically hands it a unique IP address, subnet mask, and gateway info so it can communicate without manual

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Optical Module Solutions for Huawei S5700/S5720 Series Switches

When using switches, we may encounter many confusions, such as what types of optical modules are needed for different models of Huawei switches, and how to resolve issues encountered

Contact Us

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