How to set up a dual-WAN fiber optic router



Overview

For example, you can configure your game console connected to your local network to use the primary WAN and the smart phone to use the secondary WAN.

Key Takeaways

To set up a dual-WAN fiber optic router, connect each ISP's fiber line via an ONT to separate WAN ports, then configure the router for failover or load balancing through its web interface. Step 1: Prepare Your EquipmentFiber optic modem/ONT: Each fiber connection requires an Optical Network Terminal (ONT) provided by your ISP. Dual-WAN router: Ensure your router supports dual-WAN functionality and fiber input (SFP or WAN port labeled for fiber),.

Cables: Use fiber optic cables (SC/APC or SC/UPC) to connect the wall outlet to the ONT, and Ethernet cables to connect the ONT to the router. Firmware: Update your router to the latest firmware to ensure dual-WAN features are available. Step 2: Connect Fiber Optic LinesPlug the fiber optic cable from the wall outlet into the ONT.

Power on the ONT and wait for the status lights to stabilize (usually 2–5 minutes),. Connect an Ethernet cable from the ONT's LAN/Ethernet port to the router's WAN port. Repeat for the second fiber connection using the secondary WAN port.

Step 3: Configure Dual-WAN on the RouterAccess the router's web interface by entering its LAN IP or URL (e.g.,) in a browser. Log in with your router credentials. If forgotten, reset the router to factory defaults.

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Navigate to WA

N > Dual WAN and enable the feature. Select your primary WAN and secondary WAN. You can choose between Failover mode (secondary WAN acts as backup) or Load Balancing mode (traffic is distributed across both WANs),.

Assign the correct WAN type for each connection (e.g., PPPoE, automatic IP). Do not select the same WAN type for both ports simultaneously. Save the settings and check the Network Map to verify the status of both WANs.

The secondary WAN should show as Hot-Standby or Cold-Standby if failover is configured correctly. Step 4: Test the SetupDisconnect the primary WAN to ensure the router automatically switches to the secondary WAN. Reconnect the primary WAN to confirm failback occurs if enabled.

For load balancing, monitor traffic distribution to ensure both WANs are utilized efficiently.

Additional Tips

If using a 3G/4G backup connection, ensure your router supports USB modems and configure it as a secondary WAN. Keep your router firmware updated to maintain compatibility with your ISP's fiber service and dual-WAN features. Document your WAN IPs and credentials for troubleshooting.

By following these steps, you can achieve a reliable dual-WAN setup with fiber optic connections, providing either uninterrupted internet via failover or improved bandwidth through load balancing.

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