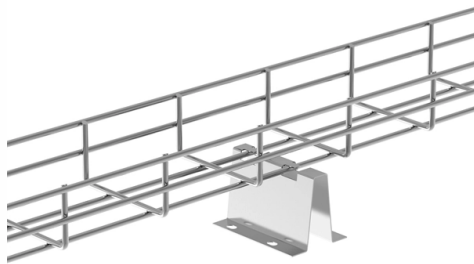


Will changing your router while using fiber optic internet change your IP address



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

Changing your router can change your public IP address if your ISP assigns dynamic IPs, but static IPs remain unchanged regardless of router replacement.

Understanding IP Addresses

Your internet connection involves two types of IP addresses: private (LAN) IPs for devices within your home network and a public (WAN) IP assigned by your Internet Service Provider (ISP) for external communication . The public IP is what websites and online services see, while private IPs are used internally to manage devices on your network .

Dynamic vs. Static IPs

- Dynamic IPs: Most residential fiber optic connections use dynamic IPs, which can change when you restart or replace your router, or when the ISP reallocates addresses for maintenance or load balancing . In this case, changing your router may result in a new public IP.



- **Static IPs:** Some business or leased-line fiber connections come with a static IP, which does not change even if you replace your router . Static IPs are necessary for services that require a fixed address, such as hosting servers or remote access setups.

Practical Implications

- **Home Users:** If your ISP provides a dynamic IP, replacing your router or restarting it may assign a new public IP. This can affect remote access, VPN connections, or geo-restricted services temporarily .
- **Business Users:** If you have a static IP, changing your router will not affect your public IP, but you may need to configure the new router with the same network settings to maintain connectivity .
- **Private IPs:** Changing your router will usually assign new private IPs to devices on your network, but this does not affect your public IP unless your ISP uses dynamic allocation .

How to Manage IP Changes

- **Dynamic IPs:** You can force a new IP by restarting the router or using MAC address cloning, or use Dynamic DNS (DDNS) to maintain consistent access to your network .
- **Static IPs:** Ensure the new router is configured with the same static IP settings provided by your ISP to avoid connectivity issues .

In summary, whether your IP changes depends on your ISP's IP assignment type. For dynamic IPs, changing your router usually results in a new public IP, while static IPs remain fixed regardless of router replacement.

Article Content

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