

Virtual Private Networks (VPN)

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- You can physically connect to your network remotely through virtual private networks.

VPN	Virtual Private Network	A secure tunnel so a remote machine can be part of a local area network.
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With VPNs, you still use the internet to connect to a server or LAN, except your connection is private.

VPN servers tunnel your network packets with whatever IP address the server gave out.

Situation:

You are in a remote area with internet access, and you want to connect to your LAN at home. To achieve this, you would need to have two private IP addresses. The private IP given to you by the internet access currently, and the private at your LAN. For this to happen, in a network packet, your source and destination private IP are tunneled into source and destination WAN IP addresses.

- A VPN tunnel connects a remote computer to an end point, usually a router.

VPN Concentrator	A dedicated VPN box on your network that traffics VPN connections; Not a router.
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- VPNs usually go through sites to get to a remote router.

Site-To-Site VPN	Connects remote networks into a single network.
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