

# What is Tailscale?

Tailscale is a mesh VPN (Virtual Private Network) service that streamlines connecting devices and services securely across different networks. It enables encrypted point-to-point connections using the open source [WireGuard](#) protocol, which means only devices on your private network can communicate with each other.

Unlike traditional VPNs, which tunnel all network traffic through a central gateway server, Tailscale creates a peer-to-peer mesh network (known as a tailnet). However, you can still use Tailscale like a traditional VPN by routing all traffic through an [exit node](#).

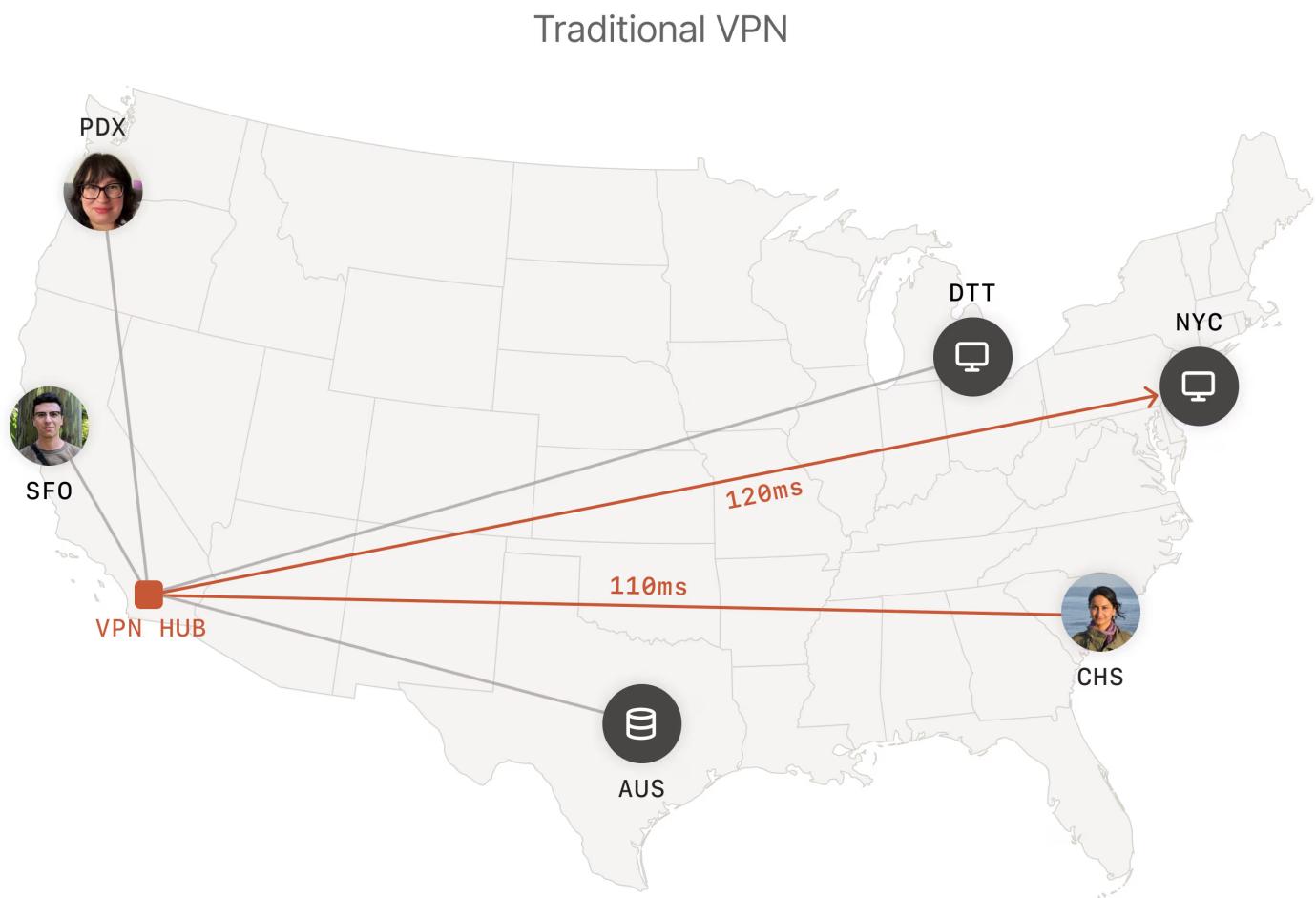


Figure 1(a). The central gateway may or may not be close to users, thus resulting in higher latency. Because traffic is centralized, it can also act as a bottleneck, slowing down connections further.

## Tailscale

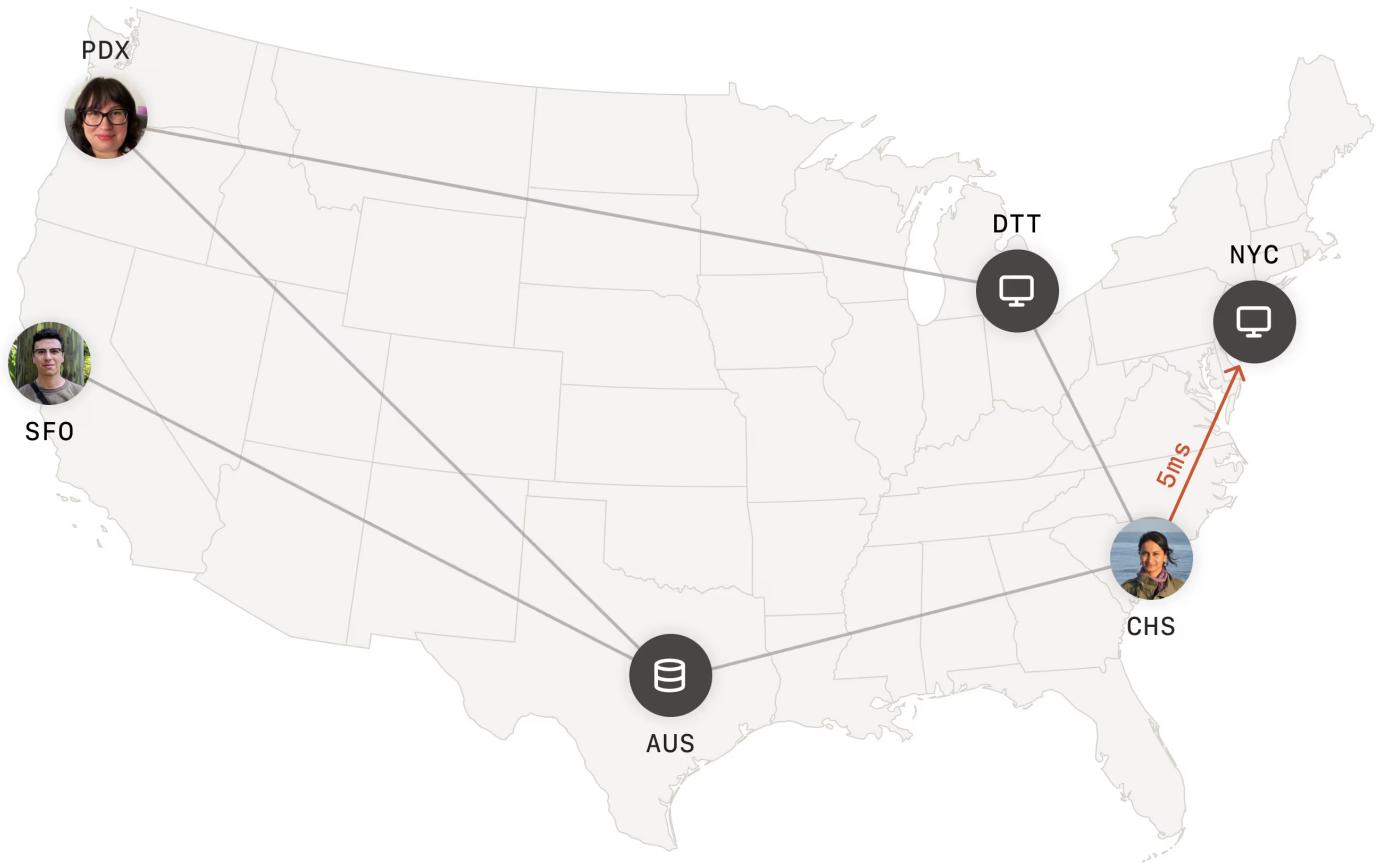


Figure 1(b). With Tailscale, each device is connected to the other directly, resulting in lower latency.

The Tailscale approach avoids centralization where possible, resulting in both [higher throughput](#) and lower latency as network traffic can flow directly between devices. Additionally, decentralization improves stability and reliability by reducing single points of failure.

## The benefits

Some [key advantages of Tailscale](#) include secure and private connections between devices, a flexible network topology, and a streamlined setup. Tailscale is also cross-platform, infrastructure agnostic, highly configurable, and has a collection of [features](#) and [integrations](#).

## Streamlined setup

Although Tailscale is highly configurable, it's easy to get started. Unlike traditional VPNs that require extensive configuration, server setup, and networking expertise, you can deploy a Tailscale network (known as a tailnet) in minutes. After you create an account, authenticating two or more devices automatically creates a tailnet with a sensible set of [default access policies](#).

Connections between tailnet devices work seamlessly across firewalls and [Network Address Translation \(NAT\)](#) without requiring port forwarding or complex firewall rules. This "zero config" approach dramatically reduces the technical barriers to implementing secure networking, making it accessible to technical and non-technical users.

# Security and privacy

The [Tailscale security model](#) is built on modern, proven technologies and best practices such as end-to-end [encryption](#) and a [zero-trust architecture](#). At its core, Tailscale uses WireGuard, a state-of-the-art VPN protocol known for its security and performance. This foundation is enhanced by Tailscale's commitment to [compliance](#), [security policies](#), and [security features](#) such as [access control policies](#) and [Tailnet Lock](#).

## Scalability and adaptability

Tailscale's [flexible](#) architecture is designed to grow seamlessly with your organization's needs. Whether you're scaling from a small team to a large enterprise or expanding across multiple geographic locations, Tailscale maintains its [performance](#) and security characteristics at scale. The distributed nature of its architecture means that adding new devices or users doesn't create bottlenecks that typically plague traditional VPN solutions.

## Who's it for?

With its low barrier to getting started, versatility, and powerful capabilities, Tailscale seamlessly scales from personal use to [enterprise](#) deployments. Developers can use it to share work-in-progress features with their team, home lab enthusiasts can use it to [access their media servers remotely](#), and businesses can use it to [secure their distributed workforce](#)—all without the hassle and overhead of traditional VPN setup and maintenance.

To learn more, take a deep-dive into [how Tailscale works](#), learn about [Tailscale use cases](#), or check out [what people say about Tailscale](#).

## Get started

Getting started is as simple as creating an account, installing the Tailscale client, and logging into two or more devices. Visit the [quickstart guide](#) to learn more.

To stay in touch, [sign up for our newsletter](#). You can also follow us on [Twitter](#), [Hachyderm](#), or [YouTube](#).

Last updated Sep 30, 2025