

[Cloud VPN](https://cloud.google.com/vpn/) (<https://cloud.google.com/vpn/>)

[Documentation](https://cloud.google.com/vpn/docs/) (<https://cloud.google.com/vpn/docs/>) [Guides](#)

How-to Guides

Before you begin

Choosing a VPN option

Choose a Cloud VPN routing option and high-availability option.

(<https://cloud.google.com/vpn/docs/how-to/choosing-a-vpn>)

Generating strong pre-shared keys

Generate strong, preshared keys (shared secrets) for your VPN.

(<https://cloud.google.com/vpn/docs/how-to/generating-pre-shared-key>)

VPN interoperability guides

Connect Cloud VPN with third-party VPN solutions.

(<https://cloud.google.com/vpn/docs/how-to/interop-guides>)

Moving to HA VPN from Classic VPN

Learn how to move from a Classic VPN to a HA VPN configuration.

(<https://cloud.google.com/vpn/docs/how-to/moving-to-ha-vpn>)

Creating Highly-available VPNs

Creating an HA VPN gateway to a peer VPN gateway

Create an HA VPN gateway, tunnel, and Cloud Router to a Peer VPN.

(<https://cloud.google.com/vpn/docs/how-to/creating-ha-vpn>)

Creating Google Cloud to Google Cloud HA VPN gateways

Create an HA VPN gateway, tunnel, and Cloud Router to another HA VPN gateway.

(<https://cloud.google.com/vpn/docs/how-to/creating-ha-vpn2>)

Creating Classic VPNs

Creating a Classic VPN using dynamic routing

Learn how to create a Classic VPN gateway that uses the BGP routing protocol.

(<https://cloud.google.com/vpn/docs/how-to/creating-vpn-dynamic-routes>)

Creating a Classic VPN using static routing

Learn how to create a Classic VPN gateway that uses static routes.

(<https://cloud.google.com/vpn/docs/how-to/creating-static-vpns>)

Completing a VPN configuration

Configuring firewall rules

Configure firewall rules for Cloud VPN and Peer VPN gateways.

(<https://cloud.google.com/vpn/docs/how-to/configuring-firewall-rules>)

Configuring the Peer VPN gateway

Configure your Peer VPN gateway.

(<https://cloud.google.com/vpn/docs/how-to/configuring-peer-gateway>)

Checking VPN status

Check VPN tunnel and gateway status, and ensure that your HA VPN configuration meets the requirements for the 99.99% availability SLA.

(<https://cloud.google.com/vpn/docs/how-to/checking-vpn-status>)

Maintaining VPNs

Maintenance overview

Learn about adding a VPN tunnel, deleting VPN tunnels and gateways, and viewing VPN logs.

(<https://cloud.google.com/vpn/docs/how-to/maintaining-vpns>)

Viewing VPN logs and metrics

View monitoring logs and metrics for VPN tunnels.

(<https://cloud.google.com/vpn/docs/how-to/viewing-logs-metrics>)

Adding a VPN tunnel

Add a VPN tunnel to a Cloud VPN gateway.

(<https://cloud.google.com/vpn/docs/how-to/adding-a-tunnel>)

Deleting a VPN tunnel

Remove a VPN tunnel from a Cloud VPN gateway.

(<https://cloud.google.com/vpn/docs/how-to/deleting-a-tunnel>)

Deleting a VPN gateway

Delete a Cloud VPN gateway.

(<https://cloud.google.com/vpn/docs/how-to/deleting-a-gateway>)

Deleting a peer VPN gateway

Delete an external peer vpn gateway resource (HA VPN only).

(<https://cloud.google.com/vpn/docs/how-to/deleting-a-peer-gateway>)

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