

[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](#)

# Moving to HA VPN

This page describes the strategy to move from Classic VPN to HA VPN.

## Before you begin

Consider the following as you plan a migration to HA VPN:

- Your peer (<https://cloud.google.com/vpn/docs/concepts/overview#peer-definition>) VPN device or service *must* support the Border Gateway routing Protocol (BGP). (<https://cloud.google.com/vpn/docs/concepts/overview#bgp-definition>). If it does not, you *cannot* use HA VPN.
- The public IP address of your Cloud VPN gateway(s) *cannot* be preserved. Two new public IP addresses are created when you create an HA VPN gateway. Google Cloud selects these IP from two different pools as part of the HA design.
- You cannot migrate an existing Cloud VPN tunnel or tunnels on a Classic VPN gateway to an HA VPN gateway. Instead, you need to create new tunnels and delete the old ones.
- Migrating to HA VPN means that you can only use features supported on HA VPN connections (<https://cloud.google.com/vpn/docs/concepts/overview#connection>). For example, you *cannot* connect a Classic VPN gateway to a HA VPN gateway.

## Migration procedure

To move from Classic VPN to HA VPN gateways and tunnels, perform the following steps:

1. Create a new HA VPN gateway, Cloud Router, and VPN tunnels to connect your Virtual Private Cloud network to your peer network. Follow the directions in [Creating an HA VPN gateway to a Peer VPN gateway](https://cloud.google.com/vpn/docs/how-to/creating-ha-vpn) (<https://cloud.google.com/vpn/docs/how-to/creating-ha-vpn>). The new HA VPN gateway you create will have two new external IP addresses.
2. [Verify](https://cloud.google.com/vpn/docs/how-to/checking-vpn-status) (<https://cloud.google.com/vpn/docs/how-to/checking-vpn-status>) that the new tunnels are working and check the configuration of your HA VPN gateway for high availability
3. [Delete](https://cloud.google.com/vpn/docs/how-to/deleting-a-tunnel) (<https://cloud.google.com/vpn/docs/how-to/deleting-a-tunnel>) the tunnel or tunnels connected to the Classic VPN gateway. if the previous VPN tunnel or tunnels were policy based or route based, [remove any leftover custom static routes](https://cloud.google.com/vpc/docs/using-routes#deletingaroute) (<https://cloud.google.com/vpc/docs/using-routes#deletingaroute>).
4. [Delete the Classic VPN gateway](https://cloud.google.com/vpn/docs/how-to/deleting-a-gateway#delete-classic-gw) (<https://cloud.google.com/vpn/docs/how-to/deleting-a-gateway#delete-classic-gw>) and [release any static external IP addresses it used](https://cloud.google.com/compute/docs/ip-addresses/reserve-static-external-ip-address#release_ip) ([https://cloud.google.com/compute/docs/ip-addresses/reserve-static-external-ip-address#release\\_ip](https://cloud.google.com/compute/docs/ip-addresses/reserve-static-external-ip-address#release_ip))

## What's next

- [Learn about the basic concepts of Cloud VPN](https://cloud.google.com/vpn/docs/concepts/overview) (<https://cloud.google.com/vpn/docs/concepts/overview>)
- See [Advanced Configurations](https://cloud.google.com/vpn/docs/concepts/advanced) (<https://cloud.google.com/vpn/docs/concepts/advanced>) for information on high-availability, high-throughput scenarios, or multiple subnet scenarios.
- [Create a custom Virtual Private Cloud network](https://cloud.google.com/vpc/docs/using-vpc#create-custom-network) (<https://cloud.google.com/vpc/docs/using-vpc#create-custom-network>)
- [Set up different types of Cloud VPN](https://cloud.google.com/vpn/docs/how-to/choosing-a-vpn) (<https://cloud.google.com/vpn/docs/how-to/choosing-a-vpn>)
- [View logs and monitoring metrics](https://cloud.google.com/vpn/docs/how-to/viewing-logs-metrics) (<https://cloud.google.com/vpn/docs/how-to/viewing-logs-metrics>)
- [Get troubleshooting help](https://cloud.google.com/vpn/docs/support/troubleshooting) (<https://cloud.google.com/vpn/docs/support/troubleshooting>)

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