<u>Networking Products</u> (https://cloud.google.com/products/networking/) <u>Virtual Private Cloud</u> (https://cloud.google.com/vpc/) <u>Documentation</u> (https://cloud.google.com/vpc/docs/) <u>Guides</u>

How-to guides

Using core Virtual Private Cloud (VPC) functionality

Using VPC networks Create networks and subnets, and modify existing ones. (https://cloud.google.com/vpc/docs/using-vpc)

Using firewall rules Create and modify firewall rules. View firewall rule examples. (https://cloud.google.com/vpc/docs/using-firewalls)

Using routes Create, modify, and work with network routes. (https://cloud.google.com/vpc/docs/using-routes)

Adding and removing network tags Add and remove instance tags used by firewall rules and routes. (https://cloud.google.com/vpc/docs/add-remove-network-tags)

Using legacy networks Create and use legacy (non-VPC) networks. (https://cloud.google.com/vpc/docs/using-legacy)

VPC network sharing and peering

Provisioning Shared VPC

Set up a Shared VPC host project, assign service projects, and set up permissions for sharing a network with other projects.

(https://cloud.google.com/vpc/docs/provisioning-shared-vpc)

Deprovisioning Shared VPC Disassociate Shared VPC service projects from a host project. Disable a project as a host project. (https://cloud.google.com/vpc/docs/deprovisioning-shared-vpc)

Using VPC Network Peering

Configure two networks as peers or disconnect existing peers.

(https://cloud.google.com/vpc/docs/using-vpc-peering)

Configuring VM IP addresses and interfaces

Reserving static internal IP addresses

Reserve a static internal IP address. Assign a particular internal IP address to a Google Cloud resource. (Docs are hosted in the Compute Engine documentation.)

(https://cloud.google.com/compute/docs/ip-addresses/reserve-static-internal-ip-address)

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(https://cloud.google.com/compute/docs/ip-addresses/reserve-static-external-ip-address)

Configuring alias IP ranges

Assign a range of IP addresses to a Compute Engine virtual machine (VM) instance for use by containers or other services running on the VM.

(https://cloud.google.com/vpc/docs/configure-alias-ip-ranges)

Creating instances with multiple network interfaces

Configure a Compute Engine VM instance with more than one network interface so that it can be used as a virtual appliance that links VPC networks.

(https://cloud.google.com/vpc/docs/create-use-multiple-interfaces)

Packet Mirroring

Using Packet Mirroring

Configure a packet mirroring policy to specify mirrored sources and a collector destination. (https://cloud.google.com/vpc/docs/using-packet-mirroring)

Monitoring Packet Mirroring

View metrics for a packet mirroring policy to confirm that traffic is being properly mirrored. (https://cloud.google.com/vpc/docs/monitoring-packet-mirroring)

Logging and monitoring

Using VPC Flow Logs View traffic flow logs and metrics. (https://cloud.google.com/vpc/docs/using-flow-logs) Using Firewall Rules Logging See which firewall rules affected your traffic. (https://cloud.google.com/vpc/docs/using-firewall-rules-logging)

Using Serverless VPC Access audit logging View the audit logs created by Serverless VPC Access as part of Cloud Audit Logs. (https://cloud.google.com/vpc/docs/using-firewall-rules-logging)

Special configurations

Configuring Private Google Access

Allow VM instances in your VPC network subnet to reach Google APIs even if the VMs don't have external IP addresses.

(https://cloud.google.com/vpc/docs/configure-private-google-access)

Configuring Private Google Access for on-premises hosts Enable your on-premises hosts to reach Google APIs and services through a Cloud VPN tunnel or Cloud Interconnect connection. Hosts don't need an external IP address.

(https://cloud.google.com/vpc/docs/configure-private-google-access-hybrid)

Configuring private services access Establish a private connection to services made available to your VPC network on internal IP addresses. (https://cloud.google.com/vpc/docs/configure-private-services-access)

Configuring Serverless VPC Access Connect from the App Engine standard environment and Cloud Functions directly to your VPC network. (https://cloud.google.com/vpc/docs/special-configurations) Configuring VMs for networking use cases

Set up a Compute Engine VM instance as a Cloud NAT or Cloud VPN gateway. Configure reusable static internal IP addresses.

(https://cloud.google.com/vpc/docs/special-configurations)

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