

Google Cloud Networking

Google Cloud Platform is build on top of a Software Defined Network. It is built on a global fiber infrastructure. It is one of the world's largest and fastest networks.

Virtual Private Cloud Network

A project can contain upto 5 VPC networks.

VPC Network Details:

- Subnets:
 - Are the logical isolation partitions for the VPC network.
 - They contain a defined IP range. Instances and other resource draw from this range.
 - Are regional and span zones in the region.
- Projects are provided with a default network:
 - Has preset configurations and firewall rules.
 - Can be customized.
- Can have upto 5 networks per Project.
- Instances connect up to networks using interfaces.
- Multiple Interfaces can connect instances to multiple networks.
- Traffic between networks go out through the Google edge routers.
- Network design is not hierarchical based like in physical networks. Use subnets to group resources such as departments.
- Deleting a custom network requires you to delete subnets first.