

Section 19: Networking

* Key Concepts

Virtual Private Clouds

- private
- global
- vpc network

Cloud Router

- Gateway Protocol
 - ↳ Dynamic Border (BGP)
- Non google networks

Virtual private Network

- securely connect networks
- IPsec Protocol

Vpc peering

- share resources between vpc's
- shared VPC
- share VPC across projects
 - within organisation

Cloud inter connect

- dedicated
- partner company

Firewalls

- control traffic

Virtual Private Clouds

- create subnets across Regions
- Firewall
 - ↳ setup with 4 rules
- shared vpc need to be in one organization

VPC

- Hybrid connectivity option

2 Types

* Classic

* High availability

Tunnels

- share data between vpc's

Create

Gateway = access point

Tunnel

↳ Re-ote peer

↳ Set key

↳ Define Router + Set

↳ ASN #

↳ BGP session

↳ ASN at other end

↳ BGP ip address

Best practice = Dynamic

Cloud and on-premise

Connect on-prem + Cloud

↳ VPN

↳ Peering

↳ Cloud Interconnect