

Week 3

① → Topics covered → Virtual Private Cloud (VPC) Network.

→ Compute Engine

→ Imp VPC capabilities

→ Demonstration & Lab Activities.

↳ first you should have this before starting anything.

② → VPC are built with a region using subnets.

↳ here multiple Availability zones, which have VMs.
(This is in AWS)

Google AWS have more span in every area than AWS.

VPC → Global, AWS VPC → regional.

Subnets → Regional, AWS VPC → Availability zones.

③ Compute Engine [Like Amazon EC2].

→ This helps in creating & running VMs in your console.
RAM, CPU, etc provided.

→ Even GPUs are available if using ML (or) data processing.

→ Data can be stored in SSD (or) Standard.

→ Boot Image → Windows & Linux, available.

→ Preemptible Instances → Permission given to VM to terminate if its resources if needed elsewhere.
(VMs)

→ Has auto-scaling feature.

for
a load balancing

↓
called (spot instances).
in AWS

(cost-effective)

④ Important VPC capabilities

- Routing tables given.
- Firewall instance given.
- VPC Peering & Shared VPC also there, if interaction b/n VPC is necessary.

Note → Cloud load balancing, Global IP, front-end &
Backend selected based on load.

Many types → HTTP, SSL, TCP, etc.

→ Google Cloud CDN.

→ Interconnect option b/n
VPC & your workloads
on VPC & your servers
etc.

→ Similarities b/n Google & AWS Load Balancers.

End of week 3