

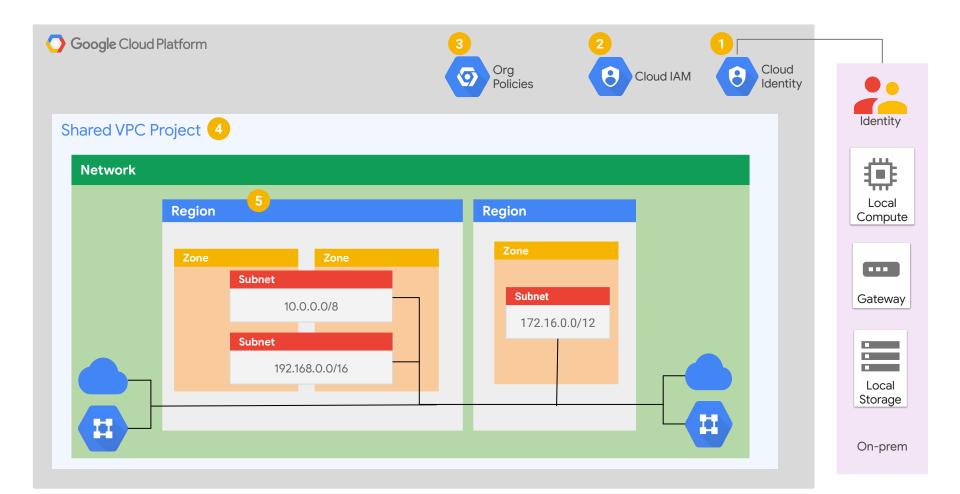
High Level Security Model

Google Cloud



Accounts, Access, and Identification

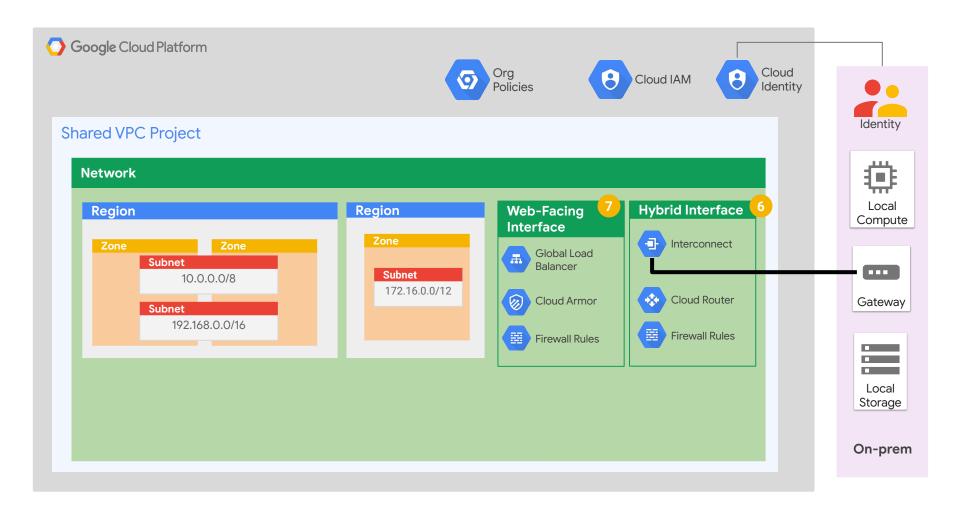
- Use *Google Cloud Identity to establish unified Identity with on-prem
- Create roles with least privilege access through [†]Cloud IAM
- Establish *Org level policies (no external IPs, Domain Restricted Sharing, Trusted Images)
- 4. Leverage *Shared VPC for connectivity and segregated network control
- **5.** Build <u>HA/DR topologies</u> multi-AZ/multi-region with subnets





Network Security

- 6. Use *Cloud Interconnect or *Cloud VPN, along with Cloud Router, to establish a hybrid connectivity to on-prem
- 7. Secure application infrastructure against DDoS and external threats with *Cloud Load Balancer, *Cloud Armor & *Firewalls





Logging, Monitoring and Alerting

- 8. Leverage *Log Sink to collect logs from *Cloud Audit Logs, *VPC Flow Logs, and *Firewall logs
- 9. Monitor environment with Cloud Native tools like *Cloud Operations Suite, Cloud Security Command Center, *Cloud Security Scanner, Forseti, and *BigQuery







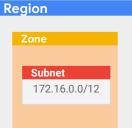




Shared VPC Project

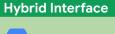
Network























Logs Logs









Security



Center





Cloud Security Scanner



BigQuery



On-prem

Local Storage

Identity

Local

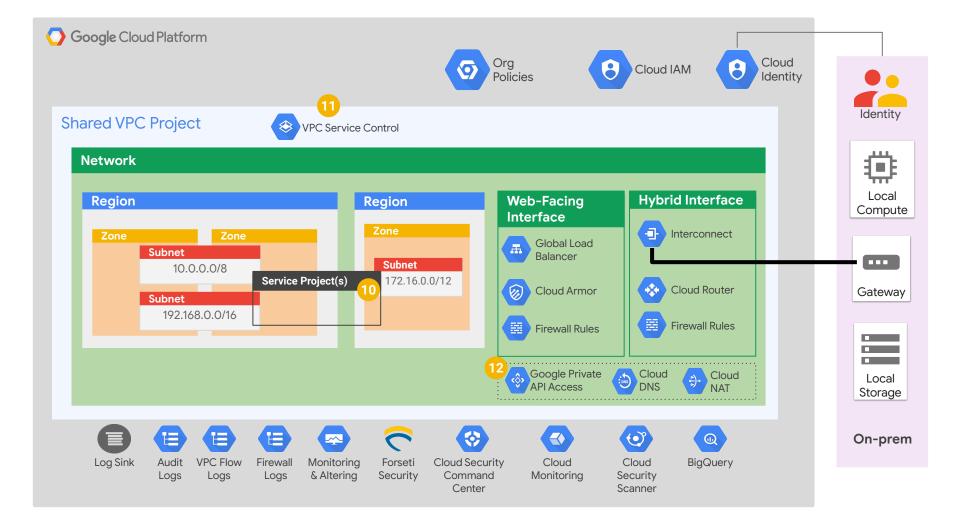
Compute

Gateway



Securing Services

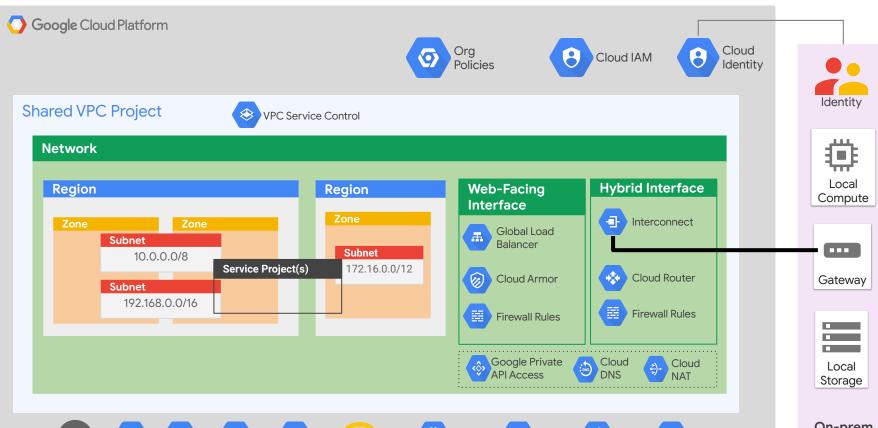
- Create a Shared VPC *<u>Service Project</u> to host workloads
- 11. Create security perimeter with *VPC Service Controls
- 2. Access GCP services and the Internet through *GCP private access, *Cloud DNS, and Cloud NAT





Putting it all together

Google Cloud







VPC Flow Logs



Logs

Monitoring & Altering



Forseti Security



Cloud Security Command Center



Cloud Monitoring



Cloud Security Scanner



BigQuery

