

Sharing Networks Across Projects



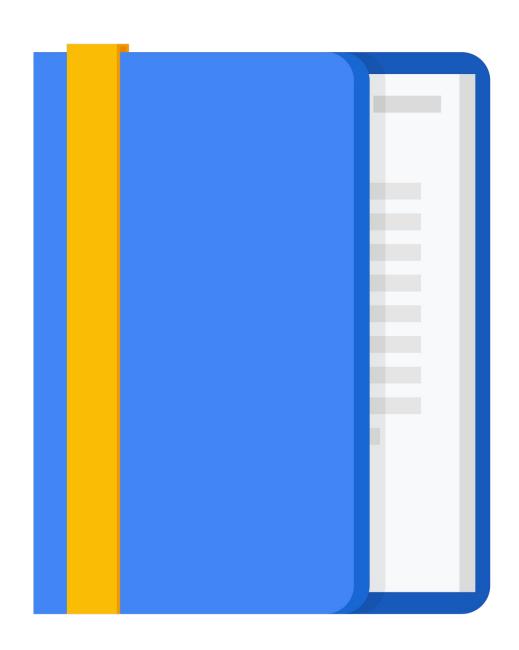
Agenda

Shared VPC

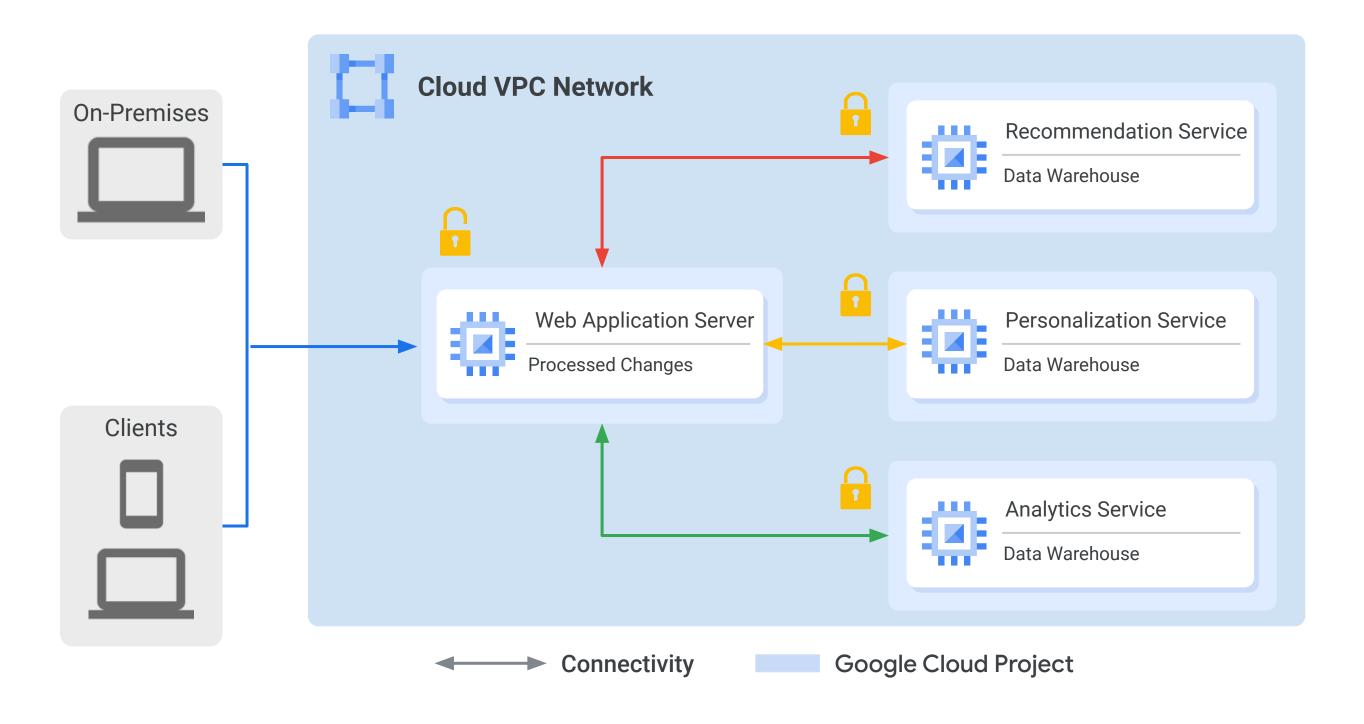
VPC Peering

Lab: Configuring VPC
Network Peering

Quiz



Shared VPC





Provisioning shared VPC

Organization Admin

- Organization is the root node.
- Workplace or Cloud Identity super administrators assign Organization Admins.
- Nominates Shared VPC Admin (compute.xpnAdmin).

Shared VPC Admin

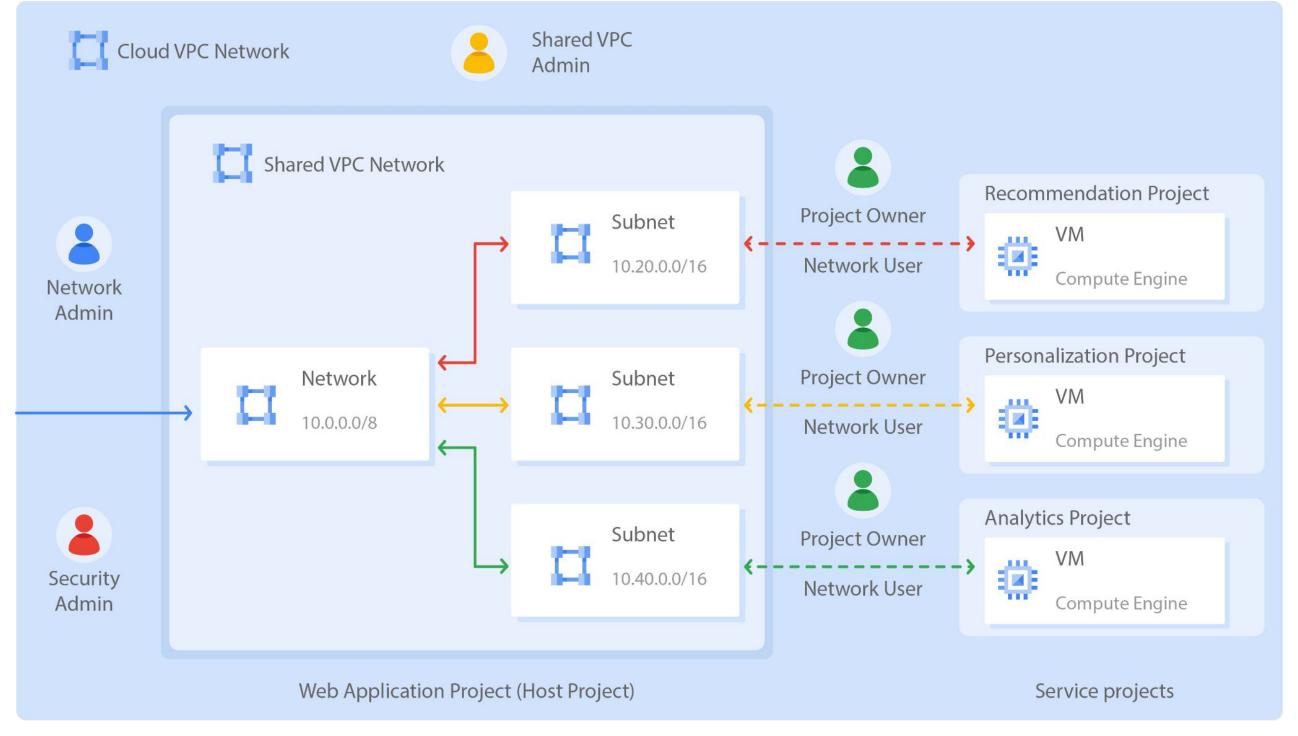
- Enables shared VPC for host project.
- Attaches service projects.
- Delegates access to some or all subnets in shared VPC network (compute.networkUser).

Service Project Admin

- Network User
- Control over service project resources:
 - Compute Instance Admin
 - Project Owner
- Create resources in shared VPC:
 - VM instances
 - Instance templates and groups
 - Static internal IP
 - Load balancers



Shared VPC





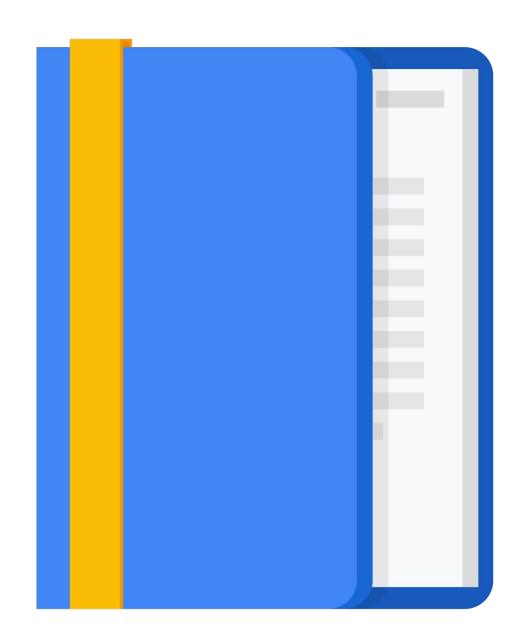
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Shared VPC

VPC Peering

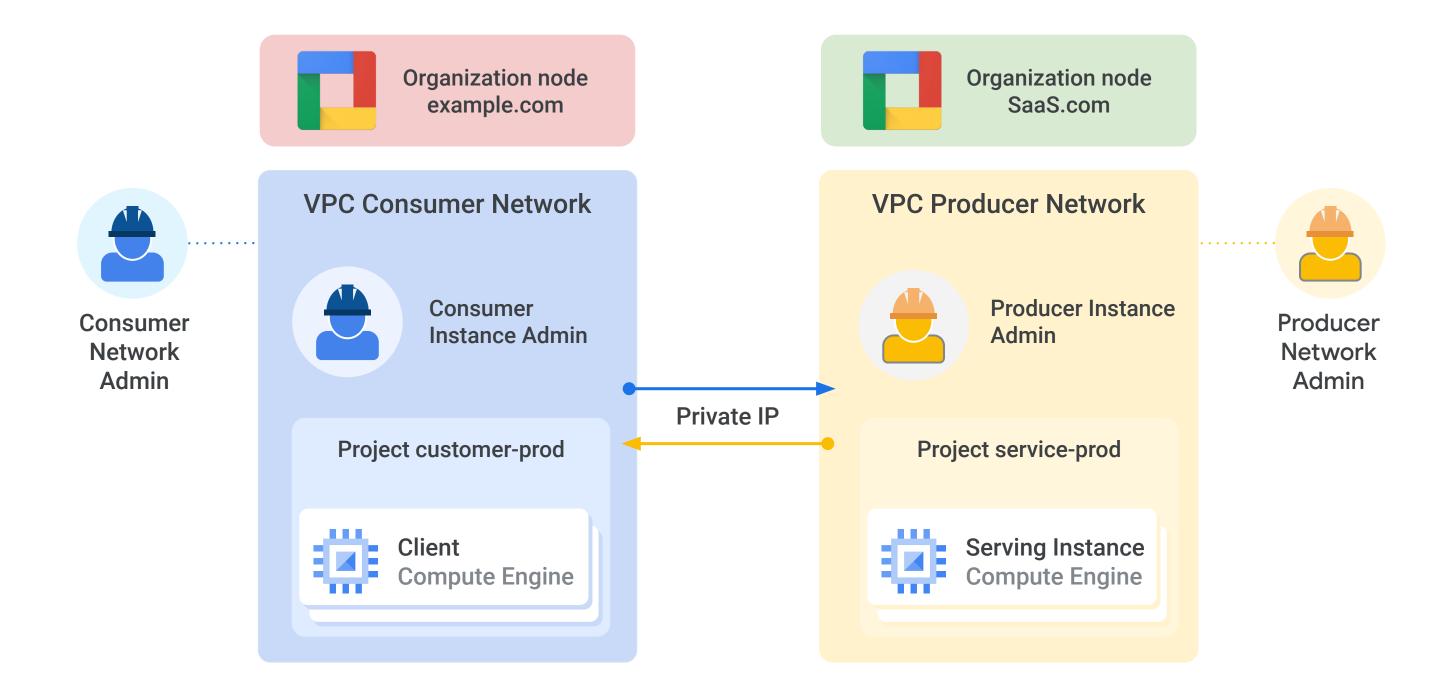
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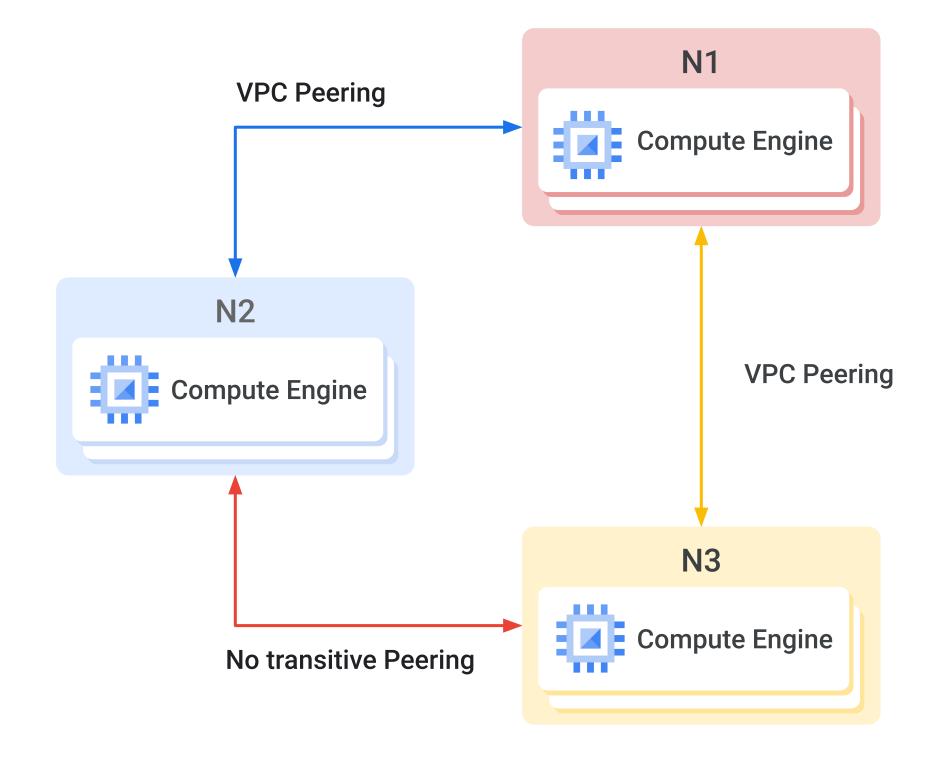
VPC peering





Remember when using VPC peering

- Works with Compute Engine,
 Kubernetes Engine, and App Engine
 flexible environments
- Peered VPC networks remain administratively separate
- Each side of a peering association is set up independently
- No subnet IP range overlap across peered VPC networks
- Transitive peering is not supported





Shared VPC vs. VPC peering

Consideration	Shared VPC
Across Organizations	No
Within Project	No
Network Administration	Centralized

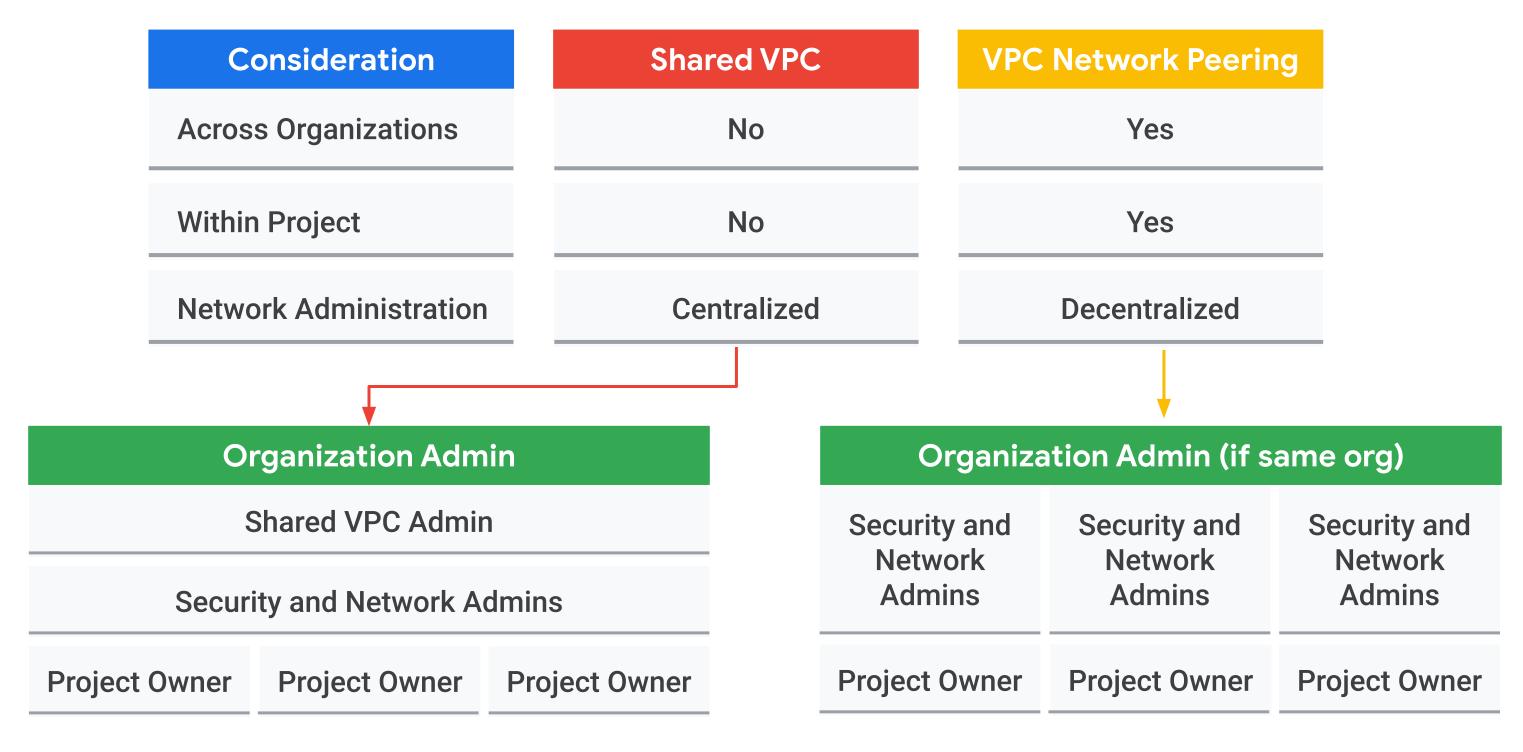
Yes

Yes

Decentralized

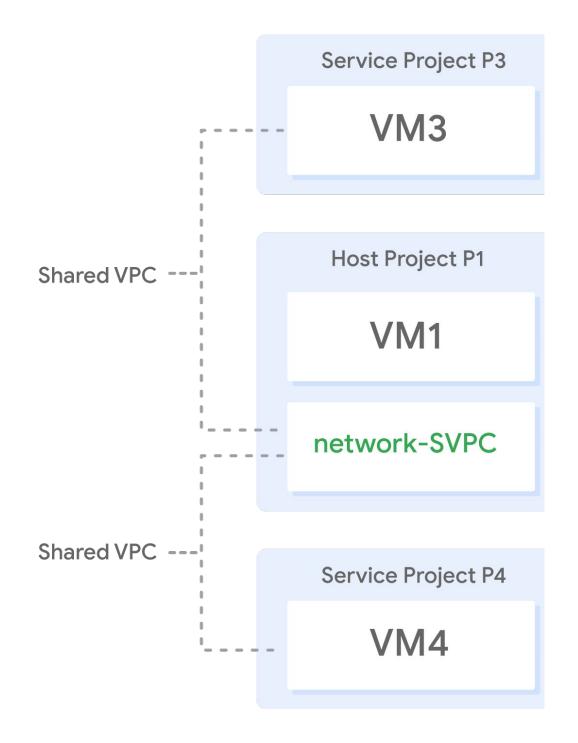


Shared VPC vs. VPC peering



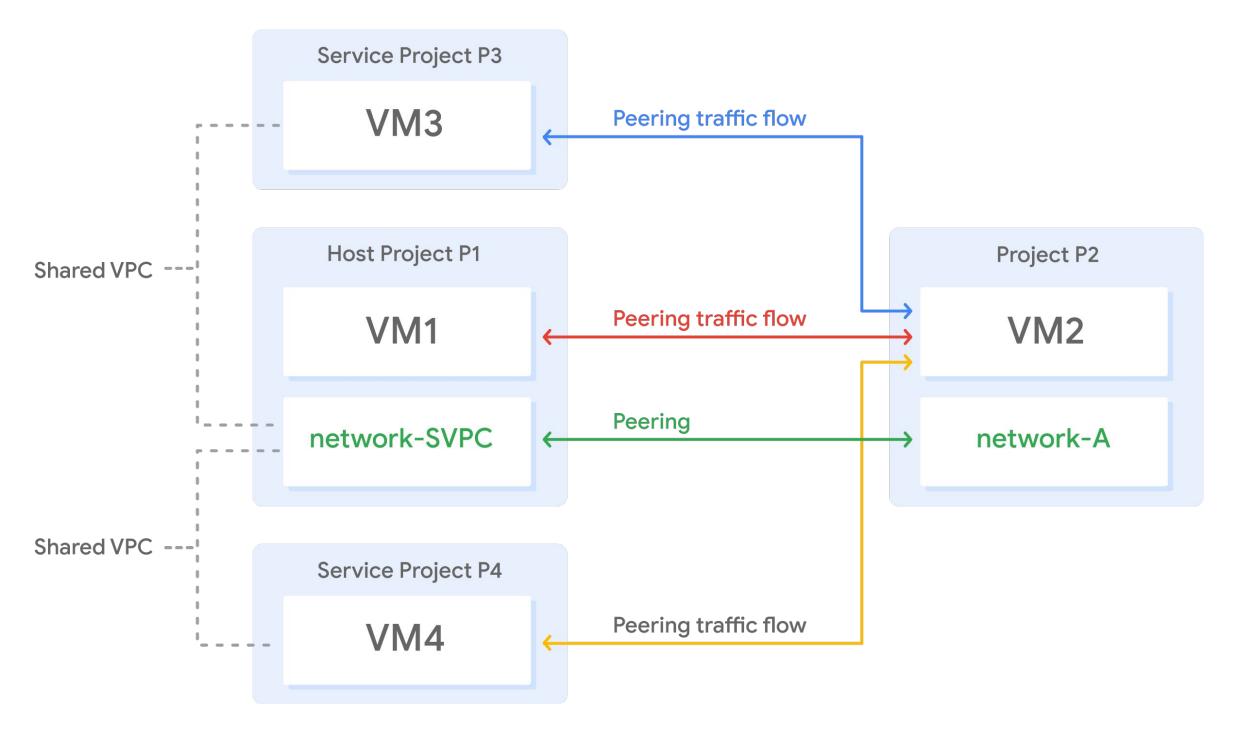


Peering with a shared VPC





Peering with a shared VPC





Agenda

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Lab

Configuring VPC Network Peering

Duration: 30 minutes





Lab objectives

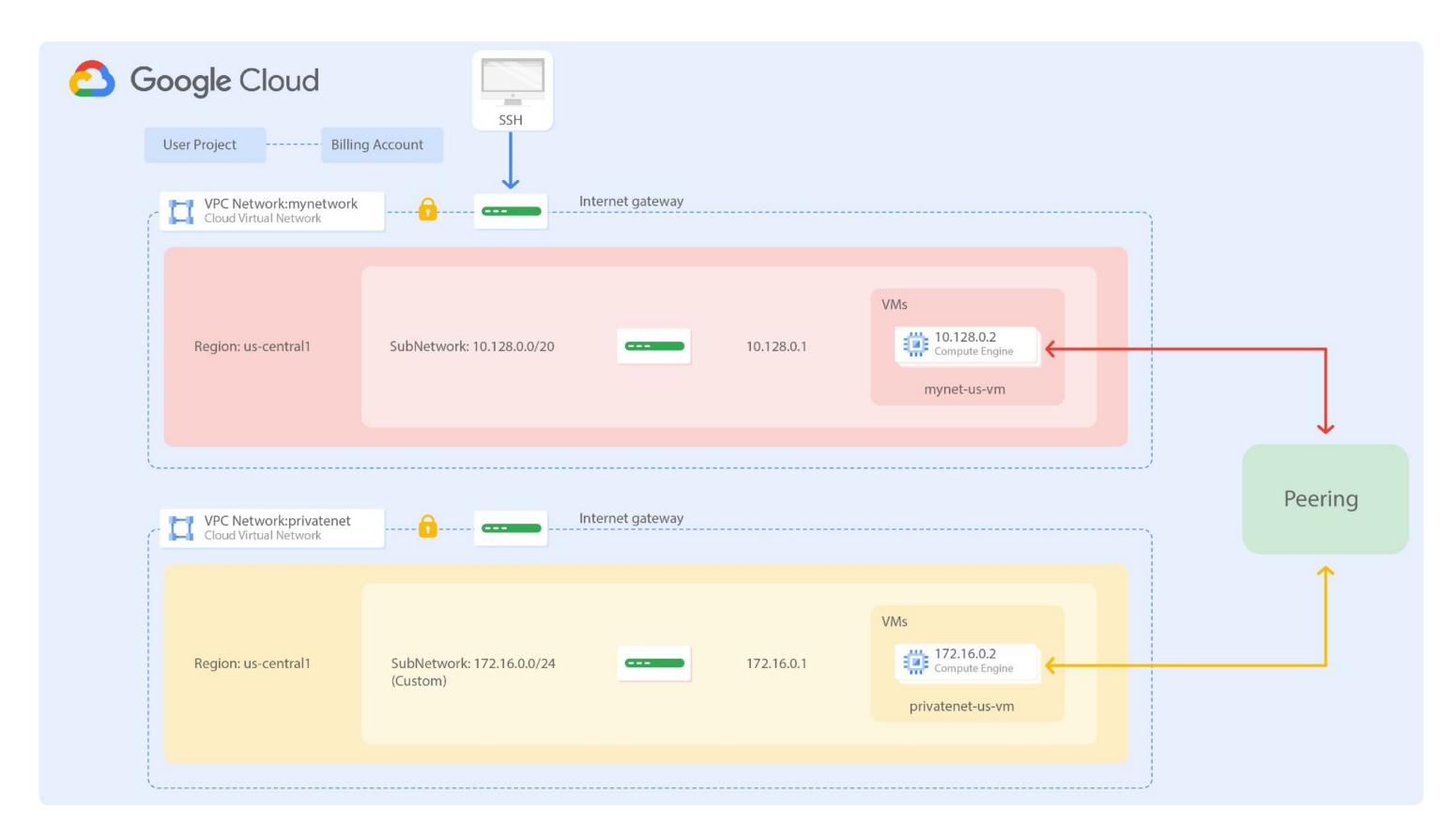
Explore connectivity between non-peered VPC networks

Configure VPC network peering

Verify private communication between peered VPC networks

Delete VPC network peering







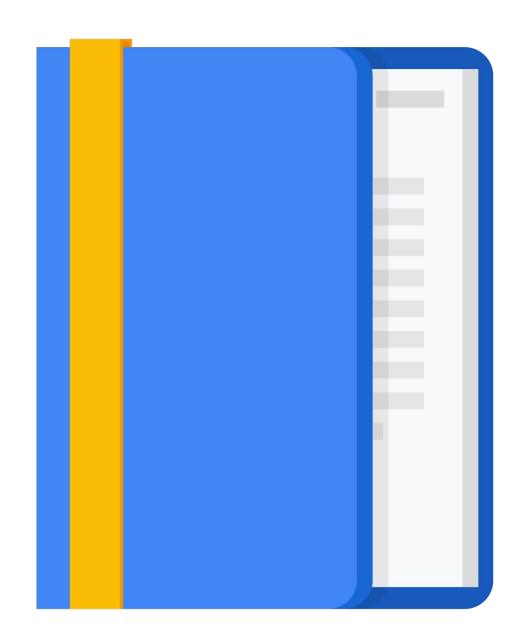
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Shared VPC

VPC Peering

Lab: Configuring VPC
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Quiz





Question

Sort the following steps for provisioning Shared VPC in Google Cloud:

- A. A Shared VPC Admin enables shared VPC for the host project.
- B. An Organization Admin nominates a Shared VPC Admin.
- C. A Shared VPC Admin delegates access to some or all subnets of a shared VPC network by granting the Network User role.
- D. A Network User creates resources in his/her Service Project.



Answer

Sort the following steps for provisioning Shared VPC in Google Cloud:

- B. An Organization Admin nominates a Shared VPC Admin.
- A. A Shared VPC Admin enables shared VPC for the host project.
- C. A Shared VPC Admin delegates access to some or all subnets of a shared VPC network by granting the Network User role.
- D. A Network User creates resources in his/her Service Project.



Question

In regards to VPC Network Peering, which of the following statements is correct?

- A. Transitive peering is not supported
- B. Peered VPC networks do not remain administratively separate
- C. Subnet IP ranges can overlap across peered VPC networks
- D. Both sides of a peering association are set up in one single step



Answer

In regards to VPC Network Peering, which of the following statements is correct?

- A. Transitive peering is not supported
- B. Peered VPC networks do not remain administratively separate
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Question

Which of the following approaches to multi-project networking, uses a centralized network administration model?

- A. VPC Network Peering
- B. Shared VPC
- C. Cloud VPN

Answer

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Google Cloud