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QUESTION 1

You need to create a new VPC network that allows instances to have IP addresses in both the 10.1.1.0/24 network and the 172.16.45.0/24 network.

What should you do?

- A. Configure global load balancing to point 172.16.45.0/24 to the correct instance.
- B. Create unique DNS records for each service that sends traffic to the desired IP address.
- C. Configure an alias-IP range of 172.16.45.0/24 on the virtual instances within the VPC subnet of 10.1.1.0/24.
- D. Use VPC peering to allow traffic to route between the 10.1.0.0/24 network and the 172.16.45.0/24 network.

Correct Answer: B

QUESTION 2

You have configured a Compute Engine virtual machine instance as a NAT gateway. You execute the following command:

```
gcloud compute routes create no-ip-internet-route \--network custom-network1 \--destination-range 0.0.0.0/0 \--next-hop instance nat-gateway \--next-hop instance-zone us-central1-a \--tags no-ip --priority 800
```

You want existing instances to use the new NAT gateway.

Which command should you execute?

- A. `sudo sysctl -w net.ipv4.ip_forward=1`
- B. `gcloud compute instances add-tags [existing-instance] --tags no-ip`
- C. `gcloud builds submit --config=cloudbuild.waml --substitutions=TAG_NAME=no-ip`
- D. `gcloud compute instances create example-instance --network custom-network1 \--subnet subnet-us-central \--no-address \--zone us-central1-a \--image-family debian-9 \--image-project debian-cloud \--tags no-ip`

- A. Option A
- B. Option B
- C. Option C
- D. Option D



Correct Answer: D

Reference: <https://cloud.google.com/vpc/docs/special-configurations>

QUESTION 3

You need to create a GKE cluster in an existing VPC that is accessible from on-premises. You must meet the following requirements:

1.

IP ranges for pods and services must be as small as possible.

2.

The nodes and the master must not be reachable from the internet.

3.

You must be able to use kubectl commands from on-premises subnets to manage the cluster.

How should you create the GKE cluster?

A. Create a private cluster that uses VPC advanced routes. Set the pod and service ranges as /24. Set up a network proxy to access the master.

B. Create a VPC-native GKE cluster using GKE-managed IP ranges. Set the pod IP range as /21 and service IP range as /24. Set up a network proxy to access the master.

C. Create a VPC-native GKE cluster using user-managed IP ranges. Enable a GKE cluster network policy, set the pod and service ranges as /24. Set up a network proxy to access the master. Enable master authorized networks.

D. Create a VPC-native GKE cluster using user-managed IP ranges. Enable privateEndpoint on the cluster master. Set the pod and service ranges as /24. Set up a network proxy to access the master. Enable master authorized networks.

Correct Answer: C

Reference: <https://cloud.google.com/kubernetes-engine/docs/how-to/alias-ips>

QUESTION 4

You are designing a shared VPC architecture. Your network and security team has strict controls over which routes are exposed between departments. Your Production and Staging departments can communicate with each other, but only via specific networks. You want to follow Google-recommended practices.

How should you design this topology?

A. Create 2 shared VPCs within the shared VPC Host Project, and enable VPC peering between them. Use firewall rules to filter access between the specific networks.

B. Create 2 shared VPCs within the shared VPC Host Project, and create a Cloud VPN/Cloud Router between them. Use Flexible Route Advertisement (FRA) to filter access between the specific networks.



C. Create 2 shared VPCs within the shared VPC Service Project, and create a Cloud VPN/Cloud Router between them. Use Flexible Route Advertisement (FRA) to filter access between the specific networks.

D. Create 1 VPC within the shared VPC Host Project, and share individual subnets with the Service Projects to filter access between the specific networks.

Correct Answer: D

Reference: <https://cloud.google.com/vpc/docs/shared-vpc>

QUESTION 5

In order to provide subnet level isolation, you want to force instance-A in one subnet to route through a security appliance, called instance-B, in another subnet.

What should you do?

A. Create a more specific route than the system-generated subnet route, pointing the next hop to instance-B with no tag.

B. Create a more specific route than the system-generated subnet route, pointing the next hop to instance-B with a tag applied to instance-A.

C. Delete the system-generated subnet route and create a specific route to instance-B with a tag applied to instance-A.

D. Move instance-B to another VPC and, using multi-NIC, connect instance-B's interface to instance-A's network. Configure the appropriate routes to force traffic through to instance-A.

Correct Answer: B

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