

Google

Exam Questions Professional-Cloud-Network-Engineer

Google Cloud Certified - Professional Cloud Network Engineer



NEW QUESTION 1

You are trying to update firewall rules in a shared VPC for which you have been assigned only Network Admin permissions. You cannot modify the firewall rules. Your organization requires using the least privilege necessary. Which level of permissions should you request?

- A. Security Admin privileges from the Shared VPC Admin.
- B. Service Project Admin privileges from the Shared VPC Admin.
- C. Shared VPC Admin privileges from the Organization Admin.
- D. Organization Admin privileges from the Organization Admin.

Answer: A

Explanation:

A Shared VPC Admin can define a Security Admin by granting an IAM member the Security Admin (compute.securityAdmin) role to the host project. Security Admins manage firewall rules and SSL certificates.

NEW QUESTION 2

You are configuring a new application that will be exposed behind an external load balancer with both IPv4 and IPv6 addresses and support TCP pass-through on port 443. You will have backends in two regions: us-west1 and us-east1. You want to serve the content with the lowest possible latency while ensuring high availability and autoscaling. Which configuration should you use?

- A. Use global SSL Proxy Load Balancing with backends in both regions.
- B. Use global TCP Proxy Load Balancing with backends in both regions.
- C. Use global external HTTP(S) Load Balancing with backends in both regions.
- D. Use Network Load Balancing in both regions, and use DNS-based load balancing to direct traffic to the closest region.

Answer: D

NEW QUESTION 3

Your company just completed the acquisition of Altostrat (a current GCP customer). Each company has a separate organization in GCP and has implemented a custom DNS solution. Each organization will retain its current domain and host names until after a full transition and architectural review is done in one year. These are the assumptions for both GCP environments.

- Each organization has enabled full connectivity between all of its projects by using Shared VPC.
- Both organizations strictly use the 10.0.0.0/8 address space for their instances, except for bastion hosts (for accessing the instances) and load balancers for serving web traffic.
- There are no prefix overlaps between the two organizations.
- Both organizations already have firewall rules that allow all inbound and outbound traffic from the 10.0.0.0/8 address space.
- Neither organization has Interconnects to their on-premises environment.

You want to integrate networking and DNS infrastructure of both organizations as quickly as possible and with minimal downtime.

Which two steps should you take? (Choose two.)

- A. Provision Cloud Interconnect to connect both organizations together.
- B. Set up some variant of DNS forwarding and zone transfers in each organization.
- C. Connect VPCs in both organizations using Cloud VPN together with Cloud Router.
- D. Use Cloud DNS to create A records of all VMs and resources across all projects in both organizations.
- E. Create a third organization with a new host project, and attach all projects from your company and Altostrat to it using shared VPC.

Answer: BC

Explanation:

<https://cloud.google.com/dns/docs/best-practices>

NEW QUESTION 4

You are designing a new application that has backends internally exposed on port 800. The application will be exposed externally using both IPv4 and IPv6 via TCP on port 700. You want to ensure high availability for this application. What should you do?

- A. Create a network load balancer that used backend services containing one instance group with two instances.
- B. Create a network load balancer that uses a target pool backend with two instances.
- C. Create a TCP proxy that uses a zonal network endpoint group containing one instance.
- D. Create a TCP proxy that uses backend services containing an instance group with two instances.

Answer: D

NEW QUESTION 5

You have an application that is running in a managed instance group. Your development team has released an updated instance template which contains a new feature which was not heavily tested. You want to minimize impact to users if there is a bug in the new template.

How should you update your instances?

- A. Manually patch some of the instances, and then perform a rolling restart on the instance group.
- B. Using the new instance template, perform a rolling update across all instances in the instance group. Verify the new feature once the rollout completes.
- C. Deploy a new instance group and canary the updated template in that group
- D. Verify the new feature in the new canary instance group, and then update the original instance group.
- E. Perform a canary update by starting a rolling update and specifying a target size for your instances to receive the new template
- F. Verify the new feature on the canary instances, and then roll forward to the rest of the instances.

Answer: D

Explanation:

<https://cloud.google.com/compute/docs/instance-groups/rolling-out-updates-to-managed-instance-groups#startin> <https://cloud.google.com/compute/docs/instance-groups/rolling-out-updates-to-managed-instance-groups>

NEW QUESTION 6

You need to define an address plan for a future new Google Kubernetes Engine (GKE) cluster in your Virtual Private Cloud (VPC). This will be a VPC-native cluster, and the default Pod IP range allocation will be used. You must pre-provision all the needed VPC subnets and their respective IP address ranges before cluster creation. The cluster will initially have a single node, but it will be scaled to a maximum of three nodes if necessary. You want to allocate the minimum number of Pod IP addresses. Which subnet mask should you use for the Pod IP address range?

- A. /21
- B. /22
- C. /23
- D. /25

Answer: A

NEW QUESTION 7

You have just deployed your infrastructure on Google Cloud. You now need to configure the DNS to meet the following requirements:
Your on-premises resources should resolve your Google Cloud zones. Your Google Cloud resources should resolve your on-premises zones.
You need the ability to resolve “.internal” zones provisioned by Google Cloud. What should you do?

- A. Configure an outbound server policy, and set your alternative name server to be your on-premises DNS resolve
- B. Configure your on-premises DNS resolver to forward Google Cloud zone queries to Google's public DNS 8.8.8.8.
- C. Configure both an inbound server policy and outbound DNS forwarding zones with the target as the on-premises DNS resolve
- D. Configure your on-premises DNS resolver to forward Google Cloud zone queries to Google Cloud's DNS resolver.
- E. Configure an outbound DNS server policy, and set your alternative name server to be your on-premises DNS resolve
- F. Configure your on-premises DNS resolver to forward Google Cloud zone queries to Google Cloud's DNS resolver.
- G. Configure Cloud DNS to DNS peer with your on-premises DNS resolve
- H. Configure your on-premises DNS resolver to forward Google Cloud zone queries to Google's public DNS 8.8.8.8.

Answer: A

NEW QUESTION 8

You are responsible for configuring firewall policies for your company in Google Cloud. Your security team has a strict set of requirements that must be met to configure firewall rules.

Always allow Secure Shell (SSH) from your corporate IP address. Restrict SSH access from all other IP addresses.

There are multiple projects and VPCs in your Google Cloud organization. You need to ensure that other VPC firewall rules cannot bypass the security team's requirements. What should you do?

- A. Configure a hierarchical firewall policy to the organization node to allow TCP port 22 for your corporate IP address with priority 0. Configure a hierarchical firewall policy to the organization node to deny TCP port 22 for all IP addresses with priority 1.
- B. Configure a VPC firewall rule to allow TCP port 22 for your corporate IP address with priority 0. Configure a VPC firewall rule to deny TCP port 22 for all IP addresses with priority 1.
- C. Configure a VPC firewall rule to allow TCP port 22 for your corporate IP address with priority 1. Configure a VPC firewall rule to deny TCP port 22 for all IP addresses with priority 0.
- D. Configure a hierarchical firewall policy to the organization node to allow TCP port 22 for your corporate IP address with priority 1. Configure a hierarchical firewall policy to the organization node to deny TCP port 22 for all IP addresses with priority 0.

Answer: A

NEW QUESTION 9

You created a new VPC network named Dev with a single subnet. You added a firewall rule for the network Dev to allow HTTP traffic only and enabled logging. When you try to log in to an instance in the subnet via Remote Desktop Protocol, the login fails. You look for the Firewall rules logs in Stackdriver Logging, but you do not see any entries for blocked traffic. You want to see the logs for blocked traffic. What should you do?

- A. Check the VPC flow logs for the instance.
- B. Try connecting to the instance via SSH, and check the logs.
- C. Create a new firewall rule to allow traffic from port 22, and enable logs.
- D. Create a new firewall rule with priority 65500 to deny all traffic, and enable logs.

Answer: D

Explanation:

Ingress packets in VPC Flow Logs are sampled after ingress firewall rules. If an ingress firewall rule denies inbound packets, those packets are not sampled by VPC Flow Logs. We want to see the logs for blocked traffic so we have to look for them in firewall logs.

https://cloud.google.com/vpc/docs/flow-logs#key_properties

NEW QUESTION 10

Your organization has Compute Engine instances in us-east1, us-west2, and us-central1. Your organization also has an existing Cloud Interconnect physical connection in the East Coast of the United States with a single VLAN attachment and Cloud Router in us-east1. You need to provide a design with high availability and ensure that if a region goes down, you still have access to all your other Virtual Private Cloud (VPC) subnets. You need to accomplish this in the most cost-effective manner possible. What should you do?

- A. Configure your VPC routing in regional mode. Add an additional Cloud Interconnect VLAN attachment in the us-east1 region, and configure a Cloud Router in us-east1.
- B. Configure your VPC routing in global mode. Add an additional Cloud Interconnect VLAN attachment in the us-east1 region, and configure a Cloud Router in us-

east1.

C. Configure your VPC routing in global mode. Add an additional Cloud Interconnect VLAN attachment in the us-west2 region, and configure a Cloud Router in us-west2.

D. Configure your VPC routing in regional mode. Add additional Cloud Interconnect VLAN attachments in the us-west2 and us-central1 regions, and configure Cloud Routers in us-west2 and us-central1.

Answer: B

NEW QUESTION 10

You need to centralize the Identity and Access Management permissions and email distribution for the WebServices Team as efficiently as possible. What should you do?

- A. Create a Google Group for the WebServices Team.
- B. Create a G Suite Domain for the WebServices Team.
- C. Create a new Cloud Identity Domain for the WebServices Team.
- D. Create a new Custom Role for all members of the WebServices Team.

Answer: A

NEW QUESTION 12

You are deploying a global external TCP load balancing solution and want to preserve the source IP address of the original layer 3 payload. Which type of load balancer should you use?

- A. HTTP(S) load balancer
- B. Network load balancer
- C. Internal load balancer
- D. TCP/SSL proxy load balancer

Answer: D

Explanation:

By default TCP/SSL proxy load balancer original client IP address and port information is not preserved, but it can be preserved using the PROXY protocol:

<https://cloud.google.com/load-balancing/docs/tcp#target-proxies>

<https://medium.com/google-cloud/preserving-client-ips-through-google-clouds-global-tcp-and-ssl-proxy-load-ba>

NEW QUESTION 16

You want to use Partner Interconnect to connect your on-premises network with your VPC. You already have an Interconnect partner. What should you first?

- A. Log in to your partner's portal and request the VLAN attachment there.
- B. Ask your Interconnect partner to provision a physical connection to Google.
- C. Create a Partner Interconnect type VLAN attachment in the GCP Console and retrieve the pairing key.
- D. Run `gcloud compute interconnect attachments partner update <attachment> / -- region <region>--admin-enabled`.

Answer: B

Explanation:

<https://cloud.google.com/network-connectivity/docs/interconnect/concepts/partner-overview?hl=En#provisionin> "To provision a Partner Interconnect connection with a service provider, you start by connecting your on-premises network to a supported service provider. Work with the service provider to establish connectivity.

NEW QUESTION 20

You recently noticed a recurring daily spike in network usage in your Google Cloud project. You need to identify the virtual machine (VM) instances and type of traffic causing the spike in traffic utilization while minimizing the cost and management overhead required. What should you do?

- A. Enable VPC Flow Logs and send the output to BigQuery for analysis.
- B. Enable Firewall Rules Logging for all allowed traffic and send the output to BigQuery for analysis.
- C. Configure Packet Mirroring to send all traffic to a V
- D. Use Wireshark on the VM to identify traffic utilization for each VM in the VPC.
- E. Deploy a third-party network appliance and configure it as the default gateway
- F. Use the third-party network appliance to identify users with high network traffic.

Answer: C

NEW QUESTION 23

You want to use Cloud Interconnect to connect your on-premises network to a GCP VPC. You cannot meet Google at one of its point-of-presence (POP) locations, and your on-premises router cannot run a Border Gateway Protocol (BGP) configuration. Which connectivity model should you use?

- A. Direct Peering
- B. Dedicated Interconnect
- C. Partner Interconnect with a layer 2 partner
- D. Partner Interconnect with a layer 3 partner

Answer: D

Explanation:

<https://cloud.google.com/network-connectivity/docs/interconnect/concepts/partner-overview>

For Layer 3 connections, your service provider establishes a BGP session between your Cloud Routers and their edge routers for each VLAN attachment. You don't need to configure BGP on your on-premises router. Google and your service provider automatically set the correct configurations.

<https://cloud.google.com/network-connectivity/docs/interconnect/concepts/partner-overview#connectivity-type>

NEW QUESTION 28

You have created a firewall with rules that only allow traffic over HTTP, HTTPS, and SSH ports. While testing, you specifically try to reach the server over multiple ports and protocols; however, you do not see any denied connections in the firewall logs. You want to resolve the issue. What should you do?

- A. Enable logging on the default Deny Any Firewall Rule.
- B. Enable logging on the VM Instances that receive traffic.
- C. Create a logging sink forwarding all firewall logs with no filters.
- D. Create an explicit Deny Any rule and enable logging on the new rule.

Answer: D

Explanation:

https://cloud.google.com/vpc/docs/firewall-rules-logging#egress_deny_example

You can only enable Firewall Rules Logging for rules in a Virtual Private Cloud (VPC) network. Legacy networks are not supported. Firewall Rules Logging only records TCP and UDP connections. Although you can create a firewall rule applicable to other protocols, you cannot log their connections. You cannot enable Firewall Rules Logging for the implied deny ingress and implied allow egress rules. Log entries are written from the perspective of virtual machine (VM) instances. Log entries are only created if a firewall rule has logging enabled and if the rule applies to traffic sent to or from the VM. Entries are created according to the connection logging limits on a best effort basis. The number of connections that can be logged in a given interval is based on the machine type. Changes to firewall rules can be viewed in VPC audit logs. <https://cloud.google.com/vpc/docs/firewall-rules-logging#specifications>

NEW QUESTION 32

Your company has a security team that manages firewalls and SSL certificates. It also has a networking team that manages the networking resources. The networking team needs to be able to read firewall rules, but should not be able to create, modify, or delete them.

How should you set up permissions for the networking team?

- A. Assign members of the networking team the compute.networkUser role.
- B. Assign members of the networking team the compute.networkAdmin role.
- C. Assign members of the networking team a custom role with only the compute.networks.* and the compute.firewalls.list permissions.
- D. Assign members of the networking team the compute.networkViewer role, and add the compute.networks.use permission.

Answer: B

NEW QUESTION 35

You created a VPC network named Retail in auto mode. You want to create a VPC network named Distribution and peer it with the Retail VPC.

How should you configure the Distribution VPC?

- A. Create the Distribution VPC in auto mod
- B. Peer both the VPCs via network peering.
- C. Create the Distribution VPC in custom mod
- D. Use the CIDR range 10.0.0.0/9. Create the necessary subnets, and then peer them via network peering.
- E. Create the Distribution VPC in custom mod
- F. Use the CIDR range 10.128.0.0/9. Create the necessary subnets, and then peer them via network peering.
- G. Rename the default VPC as "Distribution" and peer it via network peering.

Answer: B

Explanation:

<https://cloud.google.com/vpc/docs/vpc#ip-ranges>

NEW QUESTION 37

You have provisioned a Partner Interconnect connection to extend connectivity from your on-premises data center to Google Cloud. You need to configure a Cloud Router and create a VLAN attachment to connect to resources inside your VPC. You need to configure an Autonomous System number (ASN) to use with the associated Cloud Router and create the VLAN attachment.

What should you do?

- A. Use a 4-byte private ASN 4200000000-4294967294.
- B. Use a 2-byte private ASN 64512-65535.
- C. Use a public Google ASN 15169.
- D. Use a public Google ASN 16550.

Answer: B

NEW QUESTION 39

You are configuring a new HTTP application that will be exposed externally behind both IPv4 and IPv6 virtual IP addresses, using ports 80, 8080, and 443. You will have backends in two regions: us-west1 and us-east1. You want to serve the content with the lowest-possible latency while ensuring high availability and autoscaling, and create native content-based rules using the HTTP hostname and request path. The IP addresses of the clients that connect to the load balancer need to be visible to the backends. Which configuration should you use?

- A. Use Network Load Balancing
- B. Use TCP Proxy Load Balancing with PROXY protocol enabled
- C. Use External HTTP(S) Load Balancing with URL Maps and custom headers

D. Use External HTTP(S) Load Balancing with URL Maps and an X-Forwarded-For header

Answer: D

NEW QUESTION 41

You are responsible for designing a new connectivity solution for your organization's enterprise network to access and use Google Workspace. You have an existing Shared VPC with Compute Engine instances in us-west1. Currently, you access Google Workspace via your service provider's internet access. You want to set up a direct connection between your network and Google. What should you do?

- A. Order a Dedicated Interconnect connection in the same metropolitan area
- B. Create a VLAN attachment, a Cloud Router in us-west1, and a Border Gateway Protocol (BGP) session between your Cloud Router and your router.
- C. Order a Direct Peering connection in the same metropolitan area
- D. Configure a Border Gateway Protocol (BGP) session between Google and your router.
- E. Configure HA VPN in us-west1. Configure a Border Gateway Protocol (BGP) session between your Cloud Router and your on-premises data center.
- F. Order a Carrier Peering connection in the same metropolitan area
- G. Configure a Border Gateway Protocol (BGP) session between Google and your router.

Answer: B

NEW QUESTION 42

Your organization is deploying a single project for 3 separate departments. Two of these departments require network connectivity between each other, but the third department should remain in isolation. Your design should create separate network administrative domains between these departments. You want to minimize operational overhead.

How should you design the topology?

- A. Create a Shared VPC Host Project and the respective Service Projects for each of the 3 separate departments.
- B. Create 3 separate VPCs, and use Cloud VPN to establish connectivity between the two appropriate VPCs.
- C. Create 3 separate VPCs, and use VPC peering to establish connectivity between the two appropriate VPCs.
- D. Create a single project, and deploy specific firewall rule
- E. Use network tags to isolate access between the departments.

Answer: C

Explanation:

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

NEW QUESTION 46

Your company is working with a partner to provide a solution for a customer. Both your company and the partner organization are using GCP. There are applications in the partner's network that need access to some resources in your company's VPC. There is no CIDR overlap between the VPCs.

Which two solutions can you implement to achieve the desired results without compromising the security? (Choose two.)

- A. VPC peering
- B. Shared VPC
- C. Cloud VPN
- D. Dedicated Interconnect
- E. Cloud NAT

Answer: AC

Explanation:

Google Cloud VPC Network Peering allows internal IP address connectivity across two Virtual Private Cloud (VPC) networks regardless of whether they belong to the same project or the same organization.

NEW QUESTION 49

Your end users are located in close proximity to us-east1 and europe-west1. Their workloads need to communicate with each other. You want to minimize cost and increase network efficiency.

How should you design this topology?

- A. Create 2 VPCs, each with their own regions and individual subnet
- B. Create 2 VPN gateways to establish connectivity between these regions.
- C. Create 2 VPCs, each with their own region and individual subnet
- D. Use external IP addresses on the instances to establish connectivity between these regions.
- E. Create 1 VPC with 2 regional subnet
- F. Create a global load balancer to establish connectivity between the regions.
- G. Create 1 VPC with 2 regional subnet
- H. Deploy workloads in these subnets and have them communicate using private RFC1918 IP addresses.

Answer: D

Explanation:

<https://cloud.google.com/vpc/docs/using-vpc#create-auto-network>

We create one VPC network in auto mode that creates one subnet in each Google Cloud region automatically. So, region us-east1 and europe-west1 are in the same network and they can communicate using their internal IP address even though they are in different Regions. They take advantage of Google's global fiber network.

NEW QUESTION 50

Your company has a single Virtual Private Cloud (VPC) network deployed in Google Cloud with access from your on-premises network using Cloud Interconnect. You must configure access only to Google APIs and services that are supported by VPC Service Controls through hybrid connectivity with a service level

agreement (SLA) in place. What should you do?

- A. Configure the existing Cloud Routers to advertise the Google API's public virtual IP addresses.
- B. Use Private Google Access for on-premises hosts with restricted.googleapis.com virtual IP addresses.
- C. Configure the existing Cloud Routers to advertise a default route, and use Cloud NAT to translate traffic from your on-premises network.
- D. Add Direct Peering links, and use them for connectivity to Google APIs that use public virtual IP addresses.

Answer: B

NEW QUESTION 54

Your company offers a popular gaming service. Your instances are deployed with private IP addresses, and external access is granted through a global load balancer. You have recently engaged a traffic-scrubbing service and want to restrict your origin to allow connections only from the traffic-scrubbing service. What should you do?

- A. Create a Cloud Armor Security Policy that blocks all traffic except for the traffic-scrubbing service.
- B. Create a VPC Firewall rule that blocks all traffic except for the traffic-scrubbing service.
- C. Create a VPC Service Control Perimeter that blocks all traffic except for the traffic-scrubbing service.
- D. Create IPTables firewall rules that block all traffic except for the traffic-scrubbing service.

Answer: A

Explanation:

Global load balancer will proxy the connection . thus no trace of session origin IP. you should use Cloud Armor to geofence your service.
<https://cloud.google.com/load-balancing/docs/https>

NEW QUESTION 57

Your company has a single Virtual Private Cloud (VPC) network deployed in Google Cloud with on-premises connectivity already in place. You are deploying a new application using Google Kubernetes Engine (GKE), which must be accessible only from the same VPC network and on-premises locations. You must ensure that the GKE control plane is exposed to a predefined list of on-premises subnets through private connectivity only. What should you do?

- A. Create a GKE private cluster with a private endpoint for the control plan
- B. Configure VPC Networking Peering export/import routes and custom route advertisements on the Cloud Router
- C. Configure authorized networks to specify the desired on-premises subnets.
- D. Create a GKE private cluster with a public endpoint for the control plan
- E. Configure VPC Networking Peering export/import routes and custom route advertisements on the Cloud Routers.
- F. Create a GKE private cluster with a private endpoint for the control plan
- G. Configure authorized networks to specify the desired on-premises subnets.
- H. Create a GKE public cluste
- I. Configure authorized networks to specify the desired on-premises subnets.

Answer: C

NEW QUESTION 59

You have the following private Google Kubernetes Engine (GKE) cluster deployment:

```
gcloud container clusters describe customer-1-cluster --zone us-central1-c
```

```
...
```

```
clusterIpv4Cidr: 192.168.36.0/24
endpoint: 192.168.38.2
ipAllocationPolicy:
  clusterIpv4Cidr: 192.168.36.0/24
  clusterIpv4CidrBlock: 192.168.36.0/24
  clusterSecondaryRangeName: customer-1-pods
  servicesIpv4Cidr: 192.168.37.0/24
  servicesIp4CidrBlock: 192.168.37.0/24
  servicesSecondaryRangeName: customer-1-svc
  useIpAliases: true
```

```
...
```

```
masterAuthorizedNetworksConfig:
```

```
...
```

```
privateClusterConfig:
  enablePrivateEndpoint: true
  enablePrivateNodes: true
  masterIpv4CidrBlock: 192.168.38.0/28
  privateEndpoint: 192.168.38.2
  publicEndpoint: 35.224.37.17
```

```
...
```

```
servicesIpv4Cidr: 192.162.37.0/24
```

```
...
```

```
subnetwork: customer-1-nodes
zone: us-central1-c
```

You have a virtual machine (VM) deployed in the same VPC in the subnetwork kubernetes-management with internal IP address 192.168.40 2/24 and no external IP address assigned. You need to communicate with the cluster master using kubectl. What should you do?

- A. Add the network 192.168.40.0/24 to the masterAuthorizedNetworksConfi
- B. Configure kubectl to communicate with the endpoint 192.168.38.2.
- C. Add the network 192.168.38.0/28 to the masterAuthorizedNetworksConfi
- D. Configure kubectl to communicate with the endpoint 192.168.38.2
- E. Add the network 192.168.36.0/24 to the masterAuthorizedNetworksConfi
- F. Configure kubectl to communicate with the endpoint 192.168.38.2
- G. Add an external IP address to the VM, and add this IP address in the masterAuthorizedNetworksConfig. Configure kubectl to communicate with the endpoint 35.224.37.17.

Answer: A

NEW QUESTION 64

You decide to set up Cloud NAT. After completing the configuration, you find that one of your instances is not using the Cloud NAT for outbound NAT. What is the most likely cause of this problem?

- A. The instance has been configured with multiple interfaces.
- B. An external IP address has been configured on the instance.
- C. You have created static routes that use RFC1918 ranges.
- D. The instance is accessible by a load balancer external IP address.

Answer: B

NEW QUESTION 68

You work for a multinational enterprise that is moving to GCP. These are the cloud requirements:

- An on-premises data center located in the United States in Oregon and New York with Dedicated Interconnects connected to Cloud regions us-west1 (primary HQ) and us-east4 (backup)
- Multiple regional offices in Europe and APAC
- Regional data processing is required in europe-west1 and australia-southeast1

- Centralized Network Administration Team

Your security and compliance team requires a virtual inline security appliance to perform L7 inspection for URL filtering. You want to deploy the appliance in us-west1.

What should you do?

- A. • Create 2 VPCs in a Shared VPC Host Project. • Configure a 2-NIC instance in zone us-west1-a in the Host Project. • Attach NIC0 in VPC #1 us-west1 subnet of the Host Project. • Attach NIC1 in VPC #2 us-west1 subnet of the Host Project. • Deploy the instance. • Configure the necessary routes and firewall rules to pass traffic through the instance.
- B. • Create 2 VPCs in a Shared VPC Host Project. • Configure a 2-NIC instance in zone us-west1-a in the Service Project. • Attach NIC0 in VPC #1 us-west1 subnet of the Host Project. • Attach NIC1 in VPC #2 us-west1 subnet of the Host Project. • Deploy the instance. • Configure the necessary routes and firewall rules to pass traffic through the instance.
- C. • Create 1 VPC in a Shared VPC Host Project. • Configure a 2-NIC instance in zone us-west1-a in the Host Project. • Attach NIC0 in us-west1 subnet of the Host Project. • Attach NIC1 in us-west1 subnet of the Host Project. • Deploy the instance. • Configure the necessary routes and firewall rules to pass traffic through the instance.
- D. • Create 1 VPC in a Shared VPC Service Project. • Configure a 2-NIC instance in zone us-west1-a in the Service Project. • Attach NIC0 in us-west1 subnet of the Service Project. • Attach NIC1 in us-west1 subnet of the Service Project. • Deploy the instance. • Configure the necessary routes and firewall rules to pass traffic through the instance.

Answer: B

Explanation:

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

NEW QUESTION 69

You want to apply a new Cloud Armor policy to an application that is deployed in Google Kubernetes Engine (GKE). You want to find out which target to use for your Cloud Armor policy.

Which GKE resource should you use?

- A. GKE Node
- B. GKE Pod
- C. GKE Cluster
- D. GKE Ingress

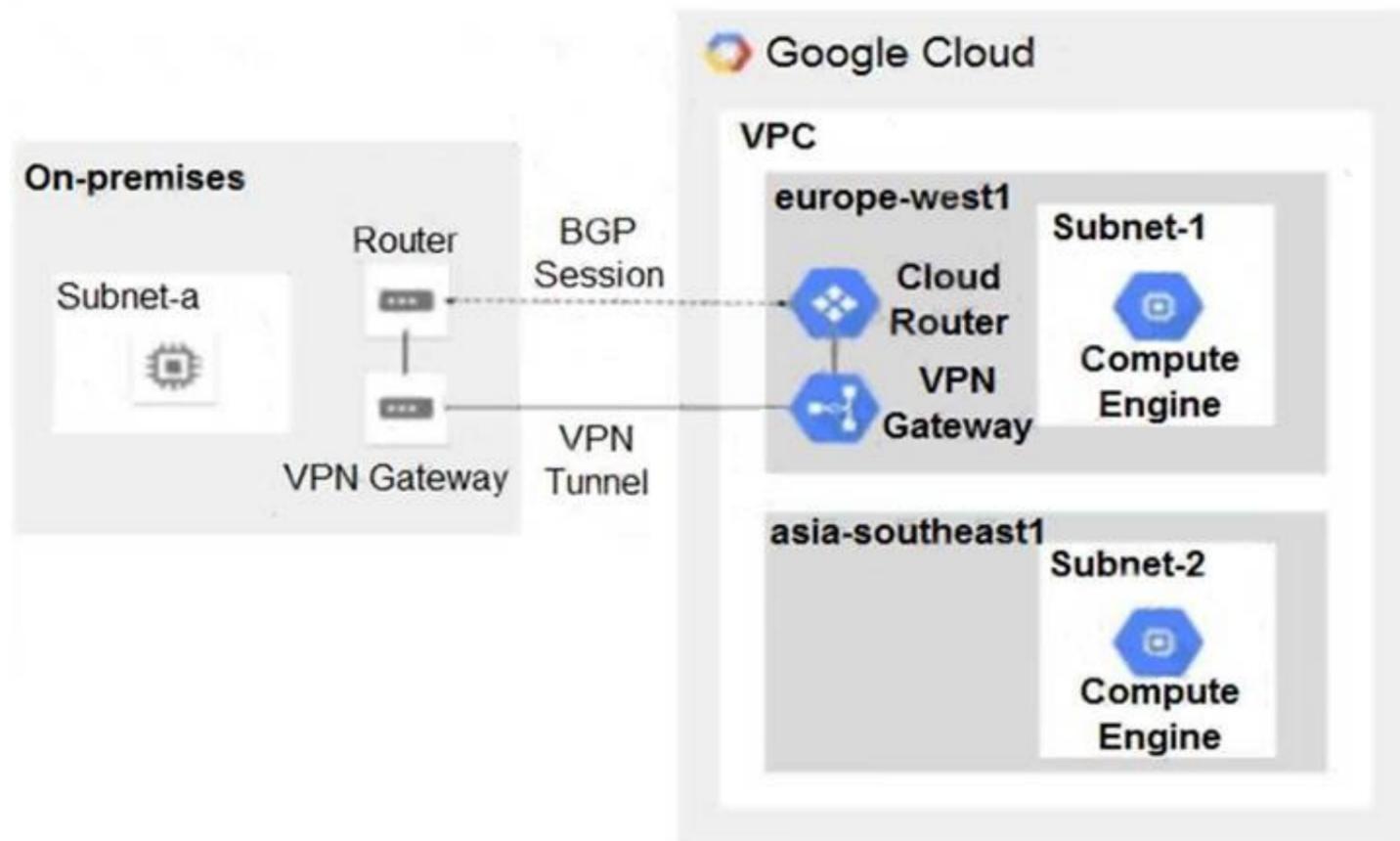
Answer: D

Explanation:

Cloud Armour is applied at load balancers Configuring Google Cloud Armor through Ingress. <https://cloud.google.com/kubernetes-engine/docs/how-to/ingress-features> Security policy features Google Cloud Armor security policies have the following core features: You can optionally use the QUIC protocol with load balancers that use Google Cloud Armor. You can use Google Cloud Armor with external HTTP(S) load balancers that are in either Premium Tier or Standard Tier. You can use security policies with GKE and the default Ingress controller.

NEW QUESTION 73

You have the following routing design. You discover that Compute Engine instances in Subnet-2 in the asia-southeast1 region cannot communicate with compute resources on-premises. What should you do?



- A. Configure a custom route advertisement on the Cloud Router.
- B. Enable IP forwarding in the asia-southeast1 region.
- C. Change the VPC dynamic routing mode to Global.
- D. Add a second Border Gateway Protocol (BGP) session to the Cloud Router.

Answer: C

NEW QUESTION 75

One instance in your VPC is configured to run with a private IP address only. You want to ensure that even if this instance is deleted, its current private IP address will not be automatically assigned to a different instance.

In the GCP Console, what should you do?

- A. Assign a public IP address to the instance.
- B. Assign a new reserved internal IP address to the instance.
- C. Change the instance's current internal IP address to static.
- D. Add custom metadata to the instance with key internal-address and value reserved.

Answer: C

Explanation:

<https://cloud.google.com/compute/docs/ip-addresses/reserve-static-internal-ip-address#reservenewip> Since here <https://cloud.google.com/compute/docs/ip-addresses/reserve-static-internal-ip-address#reservenewip> it is written that "automatically allocated or an unused address from an existing subnet".

NEW QUESTION 80

You configured Cloud VPN with dynamic routing via Border Gateway Protocol (BGP). You added a custom route to advertise a network that is reachable over the VPN tunnel. However, the on-premises clients still cannot reach the network over the VPN tunnel. You need to examine the logs in Cloud Logging to confirm that the appropriate routers are being advertised over the VPN tunnel. Which filter should you use in Cloud Logging to examine the logs?

- A. resource.type= "gce_router"
- B. resource.type= "gce_network_region"
- C. resource.type= "vpn_tunnel"
- D. resource.type= "vpn_gateway"

Answer: C

NEW QUESTION 85

You are planning a large application deployment in Google Cloud that includes on-premises connectivity. The application requires direct connectivity between workloads in all regions and on-premises locations without address translation, but all RFC 1918 ranges are already in use in the on-premises locations. What should you do?

- A. Use multiple VPC networks with a transit network using VPC Network Peering.
- B. Use overlapping RFC 1918 ranges with multiple isolated VPC networks.
- C. Use overlapping RFC 1918 ranges with multiple isolated VPC networks and Cloud NAT.
- D. Use non-RFC 1918 ranges with a single global VPC.

Answer: D

NEW QUESTION 89

You need to define an address plan for a future new GKE cluster in your VPC. This will be a VPC native cluster, and the default Pod IP range allocation will be used. You must pre-provision all the needed VPC subnets and their respective IP address ranges before cluster creation. The cluster will initially have a single node, but it will be scaled to a maximum of three nodes if necessary. You want to allocate the minimum number of Pod IP addresses. Which subnet mask should you use for the Pod IP address range?

- A. /21
- B. /22
- C. /23
- D. /25

Answer: B

Explanation:

https://cloud.google.com/kubernetes-engine/docs/how-to/alias-ips#cluster_sizing_secondary_range_pods

NEW QUESTION 90

You successfully provisioned a single Dedicated Interconnect. The physical connection is at a colocation facility closest to us-west2. Seventy-five percent of your workloads are in us-east4, and the remaining twenty-five percent of your workloads are in us-central1. All workloads have the same network traffic profile. You need to minimize data transfer costs when deploying VLAN attachments. What should you do?

- A. Keep the existing Dedicated interconnec
- B. Deploy a VLAN attachment to a Cloud Router in us-west2, and use VPC global routing to access workloads in us-east4 and us-central1.
- C. Keep the existing Dedicated Interconnec
- D. Deploy a VLAN attachment to a Cloud Router in us-east4, and deploy another VLAN attachment to a Cloud Router in us-central1.
- E. Order a new Dedicated Interconnect for a colocation facility closest to us-east4, and use VPC globalrouting to access workloads in us-central1.
- F. Order a new Dedicated Interconnect for a colocation facility closest to us-central1, and use VPC global routing to access workloads in us-east4.

Answer: C

NEW QUESTION 91

You are configuring an HA VPN connection between your Virtual Private Cloud (VPC) and on-premises network. The VPN gateway is named VPN_GATEWAY_1. You need to restrict VPN tunnels created in the project to only connect to your on-premises VPN public IP address: 203.0.113.1/32. What should you do?

- A. Configure a firewall rule accepting 203.0.113.1/32, and set a target tag equal to VPN_GATEWAY_1.
- B. Configure the Resource Manager constraint constraints/compute.restrictVpnPeerIPs to use an allowList consisting of only the 203.0.113.1/32 address.
- C. Configure a Google Cloud Armor security policy, and create a policy rule to allow 203.0.113.1/32.
- D. Configure an access control list on the peer VPN gateway to deny all traffic except 203.0.113.1/32, and attach it to the primary external interface.

Answer: B

NEW QUESTION 93

You are using the gcloud command line tool to create a new custom role in a project by copying a predefined role. You receive this error message: INVALID_ARGUMENT: Permission resourcemanager.projects.list is not valid What should you do?

- A. Add the resourcemanager.projects.get permission, and try again.
- B. Try again with a different role with a new name but the same permissions.
- C. Remove the resourcemanager.projects.list permission, and try again.
- D. Add the resourcemanager.projects.setIamPolicy permission, and try again.

Answer: C

NEW QUESTION 95

You want to implement an IPSec tunnel between your on-premises network and a VPC via Cloud VPN. You need to restrict reachability over the tunnel to specific local subnets, and you do not have a device capable of speaking Border Gateway Protocol (BGP). Which routing option should you choose?

- A. Dynamic routing using Cloud Router
- B. Route-based routing using default traffic selectors
- C. Policy-based routing using a custom local traffic selector
- D. Policy-based routing using the default local traffic selector

Answer: C

NEW QUESTION 96

You are in the early stages of planning a migration to GCP. You want to test the functionality of your hybrid cloud design before you start to implement it in production. The design includes services running on a Compute Engine Virtual Machine instance that need to communicate to on-premises servers using private IP addresses. The on-premises servers have connectivity to the internet, but you have not yet established any Cloud Interconnect connections. You want to choose the lowest cost method of enabling connectivity between your instance and on-premises servers and complete the test in 24 hours. Which connectivity method should you choose?

- A. Cloud VPN
- B. 50-Mbps Partner VLAN attachment
- C. Dedicated Interconnect with a single VLAN attachment
- D. Dedicated Interconnect, but don't provision any VLAN attachments

Answer: A

NEW QUESTION 97

You recently configured Google Cloud Armor security policies to manage traffic to your application. You discover that Google Cloud Armor is incorrectly blocking some traffic to your application. You need to identify the web application firewall (WAF) rule that is incorrectly blocking traffic. What should you do?

- A. Enable firewall logs, and view the logs in Firewall Insights.
- B. Enable HTTP(S) Load Balancing logging with sampling rate equal to 1, and view the logs in Cloud Logging.
- C. Enable VPC Flow Logs, and view the logs in Cloud Logging.
- D. Enable Google Cloud Armor audit logs, and view the logs on the Activity page in the Google Cloud Console.

Answer: A

NEW QUESTION 98

You are the network administrator responsible for hybrid connectivity at your organization. Your developer team wants to use Cloud SQL in the us-west1 region in your Shared VPC. You configured a Dedicated Interconnect connection and a Cloud Router in us-west1, and the connectivity between your Shared VPC and on-premises data center is working as expected. You just created the private services access connection required for Cloud SQL using the reserved IP address range and default settings. However, your developers cannot access the Cloud SQL instance from on-premises. You want to resolve the issue. What should you do?

- A. Modify the VPC Network Peering connection used for Cloud SQL, and enable the import and export of routes. Create a custom route advertisement in your Cloud Router to advertise the Cloud SQL IP address range.
- B. Change the VPC routing mode to global. Create a custom route advertisement in your Cloud Router to advertise the Cloud SQL IP address range.
- C. Create an additional Cloud Router in us-west2. Create a new Border Gateway Protocol (BGP) peering connection to your on-premises data center.
- D. Modify the VPC Network Peering connection used for Cloud SQL, and enable the import and export of routes.
- E. Change the VPC routing mode to global. Modify the VPC Network Peering connection used for Cloud SQL, and enable the import and export of routes.

Answer: A

NEW QUESTION 102

You have several microservices running in a private subnet in an existing Virtual Private Cloud (VPC). You need to create additional serverless services that use Cloud Run and Cloud Functions to access the microservices. The network traffic volume between your serverless services and private microservices is low. However, each serverless service must be able to communicate with any of your microservices. You want to implement a solution that minimizes cost. What should you do?

- A. Deploy your serverless services to the serverless VPC
- B. Peer the serverless service VPC to the existing VPC
- C. Configure firewall rules to allow traffic between the serverless services and your existing microservices.
- D. Create a serverless VPC access connector for each serverless service
- E. Configure the connectors to allow traffic between the serverless services and your existing microservices.
- F. Deploy your serverless services to the existing VPC

- G. Configure firewall rules to allow traffic between the serverless services and your existing microservices.
- H. Create a serverless VPC access connector
- I. Configure the serverless service to use the connector for communication to the microservices.

Answer: D

NEW QUESTION 103

You work for a university that is migrating to GCP. These are the cloud requirements:

- On-premises connectivity with 10 Gbps
- Lowest latency access to the cloud
- Centralized Networking Administration Team

New departments are asking for on-premises connectivity to their projects. You want to deploy the most cost-efficient interconnect solution for connecting the campus to Google Cloud.

What should you do?

- A. Use Shared VPC, and deploy the VLAN attachments and Interconnect in the host project.
- B. Use Shared VPC, and deploy the VLAN attachments in the service project
- C. Connect the VLAN attachment to the Shared VPC's host project.
- D. Use standalone projects, and deploy the VLAN attachments in the individual project
- E. Connect the VLAN attachment to the standalone projects' Interconnects.
- F. Use standalone projects and deploy the VLAN attachments and Interconnects in each of the individual projects.

Answer: A

Explanation:

<https://cloud.google.com/interconnect/docs/how-to/dedicated/using-interconnects-other-projects>

Using Cloud Interconnect with Shared VPC You can use Shared VPC to share your VLAN attachment in a project with other VPC networks. Choosing Shared VPC is preferable if you need to create many projects and would like to prevent individual project owners from managing their connectivity back to your on-premises network. In this scenario, the host project contains a common Shared VPC network usable by VMs in service projects. Because VMs in the service projects use this network, Service Project Admins don't need to create other VLAN attachments or Cloud Routers in the service projects. In this scenario, you must create VLAN attachments and Cloud Routers for a Cloud Interconnect connection only in the Shared VPC host project. The combination of a VLAN attachment and its associated Cloud Router are unique to a given Shared VPC network.

<https://cloud.google.com/network-connectivity/docs/interconnect/how-to/enabling-multiple-networks-access-sa>

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

NEW QUESTION 107

Your company's security team tends to use managed services when possible. You need to build a dashboard to show the number of deny hits that occur against configured firewall rules without increasing operational overhead. What should you do?

- A. Configure Firewall Rules Logging
- B. Use Firewall Insights to display the number of hits.
- C. Configure Firewall Rules Logging
- D. View the logs in Cloud Logging, and create a custom dashboard in Cloud Monitoring to display the number of hits.
- E. Configure a firewall appliance from the Google Cloud Marketplace
- F. Route all traffic through this appliance, and apply the firewall rules at this layer
- G. Use the firewall appliance to display the number of hits.
- H. Configure Packet Mirroring on the VPC
- I. Apply a filter with an IP address list of the Denied Firewall rule
- J. Configure an intrusion detection system (IDS) appliance as the receiver to display the number of hits.

Answer: A

NEW QUESTION 111

Your company has separate Virtual Private Cloud (VPC) networks in a single region for two departments: Sales and Finance. The Sales department's VPC network already has connectivity to on-premises locations using HA VPN, and you have confirmed that the subnet ranges do not overlap. You plan to peer both VPC networks to use the same HA tunnels for on-premises connectivity, while providing internet connectivity for the Google Cloud workloads through Cloud NAT. Internet access from the on-premises locations should not flow through Google Cloud. You need to propagate all routes between the Finance department and on-premises locations. What should you do?

- A. Peer the two VPCs, and use the default configuration for the Cloud Routers.
- B. Peer the two VPCs, and use Cloud Router's custom route advertisements to announce the peered VPC network ranges to the on-premises locations.
- C. Peer the two VPCs
- D. Configure VPC Network Peering to export custom routes from Sales and import custom routes on Finance's VPC network
- E. Use Cloud Router's custom route advertisements to announce a default route to the on-premises locations.
- F. Peer the two VPCs
- G. Configure VPC Network Peering to export custom routes from Sales and import custom routes on Finance's VPC network
- H. Use Cloud Router's custom route advertisements to announce the peered VPC network ranges to the on-premises locations.

Answer: A

NEW QUESTION 113

You have deployed an HTTP(s) load balancer, but health checks to port 80 on the Compute Engine virtual machine instance are failing, and no traffic is sent to your instances. You want to resolve the problem. Which commands should you run?

- A. `gcloud compute instances add-access-config instance-1`
- B. `gcloud compute firewall-rules create allow-lb --network load-balancer --allow tcp --destination-ranges 130.211.0.0/22,35.191.0.0/16 --direction EGRESS`
- C. `gcloud compute firewall-rules create allow-lb --network load-balancer --allow tcp --source-ranges 130.211.0.0/22,35.191.0.0/16 --direction INGRESS`
- D. `gcloud compute health-checks update http health-check --unhealthy-threshold 10`

Answer: A

NEW QUESTION 115

Your company's on-premises network is connected to a VPC using a Cloud VPN tunnel. You have a static route of 0.0.0.0/0 with the VPN tunnel as its next hop defined in the VPC. All internet bound traffic currently passes through the on-premises network. You configured Cloud NAT to translate the primary IP addresses of Compute Engine instances in one region. Traffic from those instances will now reach the internet directly from their VPC and not from the on-premises network. Traffic from the virtual machines (VMs) is not translating addresses as expected. What should you do?

- A. Lower the TCP Established Connection Idle Timeout for the NAT gateway.
- B. Add firewall rules that allow ingress and egress of the external NAT IP address, have a target tag that is on the Compute Engine instances, and have a priority value higher than the priority value of the default route to the VPN gateway.
- C. Add a default static route to the VPC with the default internet gateway as the next hop, the network tag associated with the Compute Engine instances, and a higher priority than the priority of the default route to the VPN tunnel.
- D. Increase the default min-ports-per-vm setting for the Cloud NAT gateway.

Answer: A

NEW QUESTION 116

Your company's Google Cloud-deployed, streaming application supports multiple languages. The application development team has asked you how they should support splitting audio and video traffic to different backend Google Cloud storage buckets. They want to use URL maps and minimize operational overhead. They are currently using the following directory structure:

```
/fr/video
/en/video
/es/video
../video
/fr/audio
/en/audio
/es/audio
../audio
```

Which solution should you recommend?

- A. Rearrange the directory structure, create a URL map and leverage a path rule such as /video/* and /audio/*.
- B. Rearrange the directory structure, create DNS hostname entries for video and audio and leverage a path rule such as /video/* and /audio/*.
- C. Leave the directory structure as-is, create a URL map and leverage a path rule such as \[a-z]{2}\video and \[a-z]{2}\audio.
- D. Leave the directory structure as-is, create a URL map and leverage a path rule such as /*/video and /*/ audio.

Answer: A

Explanation:

https://cloud.google.com/load-balancing/docs/url-map#configuring_url_maps

Path matcher constraints Path matchers and path rules have the following constraints: A path rule can only include a wildcard character (*) after a forward slash character (/). For example, /videos/* and /videos/hd/* are valid for path rules, but /videos* and /videos/hd* are not. Path rules do not use regular expression or substring matching. For example, path rules for either /videos/hd or /videos/hd/* do not apply to a URL with the path /video/hd-abcd. However, a path rule for /video/* does apply to that path. <https://cloud.google.com/load-balancing/docs/url-map-concepts#pm-constraints>

NEW QUESTION 118

Your on-premises data center has 2 routers connected to your Google Cloud environment through a VPN on each router. All applications are working correctly; however, all of the traffic is passing across a single VPN instead of being load-balanced across the 2 connections as desired.

During troubleshooting you find:

- Each on-premises router is configured with a unique ASN.
- Each on-premises router is configured with the same routes and priorities.
- Both on-premises routers are configured with a VPN connected to a single Cloud Router.
- BGP sessions are established between both on-premises routers and the Cloud Router.
- Only 1 of the on-premises router's routes are being added to the routing table. What is the most likely cause of this problem?

- A. The on-premises routers are configured with the same routes.
- B. A firewall is blocking the traffic across the second VPN connection.
- C. You do not have a load balancer to load-balance the network traffic.
- D. The ASNs being used on the on-premises routers are different.

Answer: D

Explanation:

<https://cloud.google.com/network-connectivity/docs/router/support/troubleshooting#ecmp>

NEW QUESTION 123

You need to ensure your personal SSH key works on every instance in your project. You want to accomplish this as efficiently as possible. What should you do?

- A. Upload your public ssh key to the project Metadata.
- B. Upload your public ssh key to each instance Metadata.
- C. Create a custom Google Compute Engine image with your public ssh key embedded.
- D. Use gcloud compute ssh to automatically copy your public ssh key to the instance.

Answer: A

Explanation:

Overview By creating and managing SSH keys, you can let users access a Linux instance through third-party tools. An SSH key consists of the following files: A public SSH key file that is applied to instance-level metadata or project-wide metadata. A private SSH key file that the user stores on their local devices. If a user

presents their private SSH key, they can use a third-party tool to connect to any instance that is configured with the matching public SSH key file, even if they aren't a member of your Google Cloud project. Therefore, you can control which instances a user can access by changing the public SSH key metadata for one or more instances. <https://cloud.google.com/compute/docs/instances/adding-removing-ssh-keys#addkey>

NEW QUESTION 125

You have provisioned a Dedicated Interconnect connection of 20 Gbps with a VLAN attachment of 10 Gbps. You recently noticed a steady increase in ingress traffic on the Interconnect connection from the on-premises data center. You need to ensure that your end users can achieve the full 20 Gbps throughput as quickly as possible. Which two methods can you use to accomplish this? (Choose two.)

- A. Configure an additional VLAN attachment of 10 Gbps in another regio
- B. Configure the on-premises router to advertise routes with the same multi-exit discriminator (MED).
- C. Configure an additional VLAN attachment of 10 Gbps in the same regio
- D. Configure the on-premises router to advertise routes with the same multi-exit discriminator (MED).
- E. From the Google Cloud Console, modify the bandwidth of the VLAN attachment to 20 Gbps.
- F. From the Google Cloud Console, request a new Dedicated Interconnect connection of 20 Gbps, and configure a VLAN attachment of 10 Gbps.
- G. Configure Link Aggregation Control Protocol (LACP) on the on-premises router to use the 20-Gbps Dedicated Interconnect connection.

Answer: CE

NEW QUESTION 128

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