

Professional-Cloud-Network-Engineer Exam Simulator | Relevant Professional-Cloud-Network-Engineer Questions



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Google Professional-Cloud-Network-Engineer exam is a certification exam offered by Google Cloud Platform that validates the skills and knowledge required to design, implement, and manage network solutions on the Google Cloud Platform. Professional-Cloud-Network-Engineer exam is intended for network engineers, network administrators, and other IT professionals who are responsible for designing and implementing network solutions on the Google Cloud Platform. Professional-Cloud-Network-Engineer Exam is designed to test the candidate's knowledge of network design, implementation, and management principles and practices, as well as their ability to use Google Cloud Platform tools and services to build and manage networks.

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The Google Professional-Cloud-Network-Engineer exam consists of multiple-choice and multiple-select questions, as well as scenario-based questions that require you to apply your knowledge and skills to real-world problems. A passing score on the exam validates your ability to design and manage complex networks on the Google Cloud platform, and demonstrates your expertise in cloud networking to your peers and potential employers. As a Google Cloud Certified Professional Cloud Network Engineer, you will be recognized as an expert in your field, and will have access to a global community of professionals who share your passion for cloud networking.

Google Professional-Cloud-Network-Engineer Certification is a valuable credential for IT professionals who work with Google Cloud Platform. Google Cloud Certified - Professional Cloud Network Engineer certification demonstrates a high level of expertise in network design, implementation, and management on the Google Cloud Platform, which can help IT professionals advance their careers and increase their earning potential. Additionally, the certification provides access to a network of other certified

professionals and resources, including training and support, that can help IT professionals stay up-to-date with the latest trends and technologies in cloud networking.

Google Cloud Certified - Professional Cloud Network Engineer Sample Questions (Q124-Q129):

NEW QUESTION # 124

Question:

You need to enable Private Google Access for some subnets within your Virtual Private Cloud (VPC). Your security team set up the VPC to send all internet-bound traffic back to the on-premises data center for inspection before egressing to the internet, and is also implementing VPC Service Controls for API-level security control. You have already enabled the subnets for Private Google Access. What configuration changes should you make to enable Private Google Access while adhering to your security team's requirements?

- A. Create a private DNS zone with a CNAME record for *.googleapis.com to private.googleapis.com, with an A record pointing to Google's private API address range.
Change the custom route that points the default route (0/0) to the default internet gateway as the next hop.
- B. Create a private DNS zone with a CNAME record for *.googleapis.com to private.googleapis.com, with an A record pointing to Google's private API address range.
Create a custom route that points Google's private API address range to the default internet gateway as the next hop.
- C. Create a private DNS zone with a CNAME record for *.googleapis.com to restricted.googleapis.com, with an A record pointing to Google's restricted API address range.
Create a custom route that points Google's restricted API address range to the default internet gateway as the next hop.
- D. Create a private DNS zone with a CNAME record for *.googleapis.com to restricted.googleapis.com, with an A record pointing to Google's restricted API address range. Change the custom route that points the default route (0/0) to the default internet gateway as the next hop.

Answer: D

Explanation:

For environments requiring API security controls, use restricted.googleapis.com as it restricts access to Google APIs and enforces VPC Service Controls. The custom DNS and routing configuration ensures compliance with security policies by directing all API traffic to restricted endpoints while maintaining Private Google Access.

NEW QUESTION # 125

You want to create a service in GCP using IPv6.

What should you do?

- A. Configure a TCP Proxy with the designated IPv6 address.
- B. Configure a global load balancer with the designated IPv6 address.
- C. Configure an internal load balancer with the designated IPv6 address.
- D. Create the instance with the designated IPv6 address.

Answer: B

Explanation:

<https://cloud.google.com/load-balancing/docs/load-balancing-overview> mentions to use global load balancer for IPv6 termination.

NEW QUESTION # 126

(You are deploying an application to Google Kubernetes Engine (GKE). The application needs to make API calls to a private Cloud Storage bucket. You need to configure your application Pods to authenticate to the Cloud Storage API, but your organization policy prevents the usage of service account keys. You want to follow Google-recommended practices. What should you do?)

- A. Create the GKE cluster with Workload Identity Federation. Configure the default node service account to access the bucket. Deploy the application into the cluster so the application can use the node service account permissions. Use Identity and Access Management (IAM) to grant the service account access to the bucket.
- B. Create the GKE cluster and deploy the application. Request a security exception to create a Google service account key. Set the constraints/iam.serviceAccountKeyExpiryHours organization policy to 24 hours.

- C. Create the GKE cluster with Workload Identity Federation. Create a Google service account and a Kubernetes ServiceAccount, and configure both service accounts to use Workload Identity Federation. Attach the Kubernetes ServiceAccount to the application Pods and configure the Google service account to access the bucket with Identity and Access Management (IAM).
- D. Create the GKE cluster and deploy the application. Request a security exception to create a Google service account key. Set the constraints/iam.serviceAccountKeyExpiryHours organization policy to 8 hours.

Answer: C

Explanation:

Create a Google Service Account: You create a dedicated Google service account specifically for your application's interaction with the private Cloud Storage bucket. This allows you to grant precise IAM permissions to this service account on the bucket (e.g., roles/storage.objectViewer or roles/storage.objectCreator).

* Create a Kubernetes ServiceAccount: You create a Kubernetes ServiceAccount within your GKE cluster. This is the identity that your application Pods will assume within the cluster.

* Configure Workload Identity Federation: You establish a trust relationship between the Kubernetes ServiceAccount and the Google service account using Workload Identity Federation. This involves configuring IAM policies that allow the Kubernetes ServiceAccount to impersonate the Google service account.

* Annotate Pods with the Kubernetes ServiceAccount: You associate the created Kubernetes ServiceAccount with your application Pods. When the application in these Pods makes a call to the Cloud Storage API, the Workload Identity agent running on the GKE nodes automatically exchanges the Kubernetes ServiceAccount token for a short-lived Google Cloud access token for the associated Google service account.

This approach offers several security advantages and aligns with Google's recommended practices:

* Principle of Least Privilege: The Google service account is granted only the necessary permissions to access the specific Cloud Storage bucket.

* No Service Account Keys to Manage: You avoid the security risks associated with creating, storing, and rotating service account keys.

* Auditable Authentication: All API calls are attributed to the specific Google service account, providing better auditability.

* Simplified Management: Workload Identity Federation automates the credential management process for your application.

Google Cloud Documentation References:

* Workload Identity: <https://cloud.google.com/kubernetes-engine/docs/how-to/workload-identity> 1 - This is the primary documentation explaining how to use Workload Identity to allow applications in GKE to access Google Cloud services securely without using service account keys.

NEW QUESTION # 127

You have deployed a proof-of-concept application by manually placing instances in a single Compute Engine zone. You are now moving the application to production, so you need to increase your application availability and ensure it can autoscale.

How should you provision your instances?

- A. Create a managed instance group for each region, select Single zone for the location, and manually distribute instances across the zones in that region.
- B. Create an unmanaged instance group in a single zone, and then create an HTTP load balancer for the instance group.
- C. Create an unmanaged instance group for each zone, and manually distribute the instances across the desired zones.
- D. Create a single managed instance group, specify the desired region, and select Multiple zones for the location.

Answer: A

Explanation:

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

NEW QUESTION # 128

You have the following firewall ruleset applied to all instances in your Virtual Private Cloud (VPC):

Direction	Action	Address Range	Port	Priority
egress	deny	192.0.2.0/24	80	100
egress	deny	198.51.100.0/24	80	200
ingress	allow	203.0.113.0/24	80	300

You need to update the firewall rule to add the following rule to the ruleset:

Direction	Action	Address range	Port	Logging
egress	deny	192 0 2 42/32	80	true

You are using a new user account. You must assign the appropriate identity and Access Management (IAM) user roles to this new user account before updating the firewall rule. The new user account must be able to apply the update and view firewall logs. What should you do?

- A. Assign the compute.orgSecurityPolicyAdmin and logging.viewer role to the new user account. Apply the new firewall rule with a priority of 50.
- B. Assign the compute.securityAdmin and logging.bucketWriter role to the new user account. Apply the new firewall rule with a priority of 150.
- C. Assign the compute.securityAdmin and logging.viewer role to the new user account. Apply the new firewall rule with a priority of 50.**
- D. Assign the compute.orgSecurityPolicyAdmin and logging.bucketWriter role to the new user account. Apply the new firewall rule with a priority of 150.

Answer: C

NEW QUESTION # 129

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