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There are other several Google Professional-Cloud-Network-Engineer certification exam benefits that you can gain after passing the Google Professional-Cloud-Network-Engineer certification exam. However, you should keep in mind that passing the Google Cloud Certified - Professional Cloud Network Engineer certification exam is not a simple and easiest task. It is a challenging job that you can make simple and successful with the complete Professional-Cloud-Network-Engineer Exam Preparation.

What is the duration, language, and format of Google Professional Cloud Network Engineer Exam

- Language: English
- Passing score: 80%
- Format: Multiple choices, multiple select
- Length of Examination: 120 minutes
- Number of Questions: 50-60

The Google Cloud Certified - Professional Cloud Network Engineer certification exam is a valuable credential that can help individuals advance their careers in the cloud computing industry. By earning this certification, candidates can demonstrate their expertise in designing, implementing, and managing complex network solutions on Google Cloud, which is an increasingly important skill in today's cloud computing landscape.

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Google Cloud Certified - Professional Cloud Network Engineer Sample Questions (Q120-Q125):

NEW QUESTION # 120

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

Answer: D

NEW QUESTION # 121

(You need to migrate multiple PostgreSQL databases from your on-premises data center to Google Cloud.

You want to significantly improve the performance of your databases while minimizing changes to your data schema and application code. You expect to exceed 150 TB of data per geographical region. You want to follow Google-recommended practices and minimize your operational costs. What should you do?)

- **A. Migrate your data to AlloyDB.**
- B. Migrate your data to Firebase.
- C. Migrate your data to Spanner.
- D. Migrate your data to Bigtable.

Answer: A

Explanation:

Comprehensive and Detailed In Depth Explanation:

Let's analyze each option based on the requirements: PostgreSQL compatibility, significant performance improvement, minimal schema/code changes, handling large data volumes, Google-recommended practices, and cost minimization:

A). Migrate your data to AlloyDB: AlloyDB for PostgreSQL is a fully managed, PostgreSQL-compatible database service that offers significant performance improvements over standard PostgreSQL due to its architectural optimizations. It is designed to handle large data volumes and minimizes the need for schema and application code changes as it's wire-compatible with PostgreSQL. This aligns well with the requirements for performance improvement, minimal changes, large data, and being a Google-recommended option for PostgreSQL workloads.

B). Migrate your data to Spanner: Spanner is a globally distributed, horizontally scalable database with strong consistency. While it offers excellent scalability and performance, it's not directly PostgreSQL-compatible.

Migrating to Spanner would likely require significant schema and application code changes due to differences in data modeling and SQL dialect.

C). Migrate your data to Firebase: Firebase is a suite of mobile and web development tools, with its primary database offering being Firestore (a NoSQL document database) and Realtime Database. These are not PostgreSQL-compatible and would require substantial changes to the data model and application code.

D). Migrate your data to Bigtable: Bigtable is a highly scalable NoSQL wide-column store. It's not compatible with PostgreSQL and requires a completely different data model and application logic.

Therefore, AlloyDB is the most suitable option as it provides PostgreSQL compatibility for minimal migration effort, significant performance improvements, scalability for large data volumes, and is a recommended Google Cloud database service for PostgreSQL workloads.

Google Cloud Documentation References:

AlloyDB for PostgreSQL Overview: <https://cloud.google.com/alloydb/docs/overview> - This document highlights AlloyDB's PostgreSQL compatibility, performance benefits, scalability, and suitability for migrating existing PostgreSQL workloads.

Spanner Overview: <https://cloud.google.com/spanner/docs/overview> - This emphasizes Spanner's unique features and differences from traditional relational databases like PostgreSQL.

Firebase Documentation: <https://firebase.google.com/docs> - This outlines the features of Firebase, including Firestore and Realtime Database, highlighting their NoSQL nature and incompatibility with PostgreSQL.

Cloud Bigtable Overview: <https://cloud.google.com/bigtable/docs/overview> - This describes Bigtable as a NoSQL database, emphasizing its differences from relational databases like PostgreSQL.

NEW QUESTION # 122

You are creating a new application and require access to Cloud SQL from VPC instances without public IP addresses.

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

- A. Create a custom static route to allow the traffic to reach the Cloud SQL API.
- B. Activate the Cloud Datastore API in your project.
- **C. Activate the Service Networking API in your project.**
- **D. Create a private connection to a service producer.**
- E. Enable Private Google Access.

Answer: C,D

Explanation:

Explanation/Reference: <https://cloud.google.com/sql/docs/mysql/private-ip>

NEW QUESTION # 123

Your team is developing an application that will be used by consumers all over the world. Currently, the application sits behind a global external application load balancer. You need to protect the application from potential application-level attacks. What should you do?

- A. Enable Cloud CDN on the backend service.
- B. Create multiple firewall deny rules to block malicious users, and apply them to the global external application load balancer.
- **C. Create a Google Cloud Armor security policy with web application firewall rules, and apply the security policy to the backend service.**
- D. Create a VPC Service Controls perimeter with the global external application load balancer as the protected service, and apply it to the backend service.

Answer: C

Explanation:

The correct answer is C because it meets the requirement of protecting the application from potential application-level attacks.

Google Cloud Armor security policies are sets of rules that match on attributes from Layer 3 to Layer 7 to protect externally facing applications¹. Web application firewall (WAF) rules are predefined rules that detect and mitigate common web attacks such as cross-site scripting (XSS), SQL injection, remote file inclusion, and more². By applying a Google Cloud Armor security policy with WAF rules to the backend service, you can filter out malicious requests before they reach your application.

Option A is incorrect because Cloud CDN is a content delivery network that caches static content at the edge of Google's network, but it does not provide any protection against application-level attacks³. Option B is incorrect because firewall rules are applied at the VPC network level, not at the load balancer level⁴. Firewall rules also only match on Layer 3 and 4 attributes, not on Layer 7 attributes that are relevant for application-level attacks⁴. Option D is incorrect because VPC Service Controls perimeter is a feature that helps you secure your data from unauthorized access by users outside your organization, but it does not protect your application from external attacks.

NEW QUESTION # 124

(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 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.
- **B. 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).**
- C. 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.
- 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 24 hours.

Answer: B

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 # 125

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