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Google Professional-Cloud-Developer Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Integrating applications with Google Cloud services	21%	- Consuming Google Cloud APIs and services • 1. Integrating with AI/ML and generative AI services • 2. Enabling and managing APIs • 3. Using client libraries, REST, and gRPC - Integrating with data and storage services • 1. Implementing messaging and event streaming • 2. Using object storage and file storage solutions • 3. Working with relational, NoSQL, and in-memory databases - Implementing application performance monitoring • 1. Instrumenting code for metrics and traces • 2. Using operations suite tools

Topic 2: Configuring cloud-native applications for deployment	24%	- Deploying applications to Google Kubernetes Engine • 1. Configuring scaling, auto-scaling, and updates • 2. Creating and managing workloads and services • 3. Managing configurations and secrets - Deploying to App Engine or Cloud Functions • 1. Configuring serverless deployments • 2. Managing versions and traffic splitting - Deploying applications to Cloud Run • 1. Integrating with event-driven services • 2. Configuring scaling, networking, and security • 3. Deploying from source code or containers
Topic 3: Building and testing applications	23%	- Setting up development environments • 1. Emulating Google Cloud services locally • 2. Using Cloud SDK, Cloud Code, Cloud Shell, and Cloud Workstations - Testing applications • 1. Writing unit, integration, and end-to-end tests • 2. Using AI-assisted development tools • 3. Automating testing in CI/CD workflows - Building applications and containers • 1. Configuring build pipelines and provenance • 2. Using Cloud Build and Artifact Registry • 3. Implementing containerization best practices
Topic 4: Designing highly scalable, secure, and reliable cloud-native applications	32%	- Designing high-performing applications and APIs • 1. Designing for high availability and fault tolerance • 2. Optimizing for latency and throughput • 3. Selecting appropriate compute and deployment platforms - Designing secure applications • 1. Implementing authentication and authorization mechanisms • 2. Applying security best practices and compliance requirements • 3. Securing data in transit and at rest - Designing for observability and monitoring • 1. Designing for debugging and troubleshooting • 2. Planning logging, metrics, and tracing strategies

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Exam Professional-Cloud-Developer Material - Professional-Cloud-Developer Latest Exam Duration

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Google Certified Professional - Cloud Developer Sample Questions (Q50-Q55):

NEW QUESTION # 50

Your web application is deployed to the corporate intranet. You need to migrate the web application to Google Cloud. The web application must be available only to company employees and accessible to employees as they travel. You need to ensure the security and accessibility of the web application while minimizing application changes. What should you do?

- A. Configure a Compute Engine instance that requests users to log in to their corporate account. Change the web application DNS to point to the proxy Compute Engine instance. After authenticating, the Compute Engine issues an HTTP redirect to a public IP address hosting the web application.
- B. Configure the application to check authentication credentials for each HTTP(S) request to the application.
- C. Configure a Compute Engine instance that requests users to log in to their corporate account. Change the web application DNS to point to the proxy Compute Engine instance. After authenticating, the Compute Engine instance forwards requests to and from the web application.
- **D. Configure Identity-Aware Proxy to allow employees to access the application through its public IP address.**

Answer: D

NEW QUESTION # 51

You are developing a container build pipeline for an application hosted on GKE. You have the following requirements:

- Only images that are created using your build pipeline should be deployed on your GKE cluster.
 - All code and build artifacts should remain within your environment and protected from data exfiltration.
- How should you build the pipeline?

- **A. 1. Create a build pipeline by using Cloud Build with a private worker pool.
2. Use VPC Service Controls to place all components and services in your CI/CD pipeline inside a security perimeter.
3. Configure your GKE cluster to only allow container images signed by Binary Authorization.**
- B. 1. Create a build pipeline by using Cloud Build with the default worker pool.
2. Configure the CI/CD pipeline to build container images and store them in Artifact Registry.
3. Configure your GKE cluster to only allow container images signed by Binary Authorization.
- C. 1. Create a build pipeline by using Cloud Build with a private worker pool.
2. Configure the CI/CD pipeline to build container images and store them in Artifact Registry.
3. Configure Artifact Registry to encrypt container images by using customer-managed encryption keys (CMEK).
- D. 1. Create a build pipeline by using Cloud Build with the default worker pool.
2. Deploy container images to a private container registry in your VPC.
3. Create a VPC firewall policy in your project that denies all egress and ingress traffic to public networks.

Answer: A

Explanation:

<https://cloud.google.com/build/docs/deploying-builds/deploy-gke>

NEW QUESTION # 52

Which of the following types of data are backed up to iCloud? (Choose two.)

- A. iCloud Music Library
- **B. Messages**
- C. Touch ID Settings
- **D. Device Settings**

- E. Apple Pay information and settings

Answer: B,D

NEW QUESTION # 53

Your team develops services that run on Google Kubernetes Engine. Your team's code is stored in Cloud Source Repositories. You need to quickly identify bugs in the code before it is deployed to production. You want to invest in automation to improve developer feedback and make the process as efficient as possible.

What should you do?

- A. Use Spinnaker to automate building container images from code based on Git tags.
- B. Use Cloud Build to automate building container images from code based on forked versions.
- C. Use Cloud Build to automate building container images from code based on Git tags.
- D. Use Spinnaker to automate deploying container images to the production environment.

Answer: A

Explanation:

Reference: <https://spinnaker.io/docs/guides/tutorials/codelabs/kubernetes-v2-source-to-prod/>

NEW QUESTION # 54

Your team is writing a backend application to implement the business logic for an interactive voice response (IVR) system that will support a payroll application. The IVR system has the following technical characteristics:

- * Each customer phone call is associated with a unique IVR session.
- * The IVR system creates a separate persistent gRPC connection to the backend for each session.
- * If the connection is interrupted, the IVR system establishes a new connection, causing a slight latency for that call.

You need to determine which compute environment should be used to deploy the backend application. Using current call data, you determine that:

- * Call duration ranges from 1 to 30 minutes.
- * Calls are typically made during business hours.
- * There are significant spikes of calls around certain known dates (e.g., pay days), or when large payroll changes occur.

You want to minimize cost, effort, and operational overhead. Where should you deploy the backend application?

- A. Cloud Run
- B. Cloud Functions
- C. Google Kubernetes Engine cluster in Standard mode
- D. Compute Engine

Answer: A

Explanation:

This page shows Cloud Run-specific details for developers who want to use gRPC to connect a Cloud Run service with other services, for example, to provide simple, high performance communication between internal microservices. You can use all gRPC types, streaming or unary, with Cloud Run.

Possible use cases include:

Communication between internal microservices.

High loads of data (gRPC uses protocol buffers, which are up to seven times faster than REST calls).

Only a simple service definition is needed, you don't want to write a full client library.

Use streaming gRPCs in your gRPC server to build more responsive applications and APIs.

[https://cloud.google.com/run/docs/tutorials/secure-](https://cloud.google.com/run/docs/tutorials/secure-services#:~:text=The%20backend%20service%20is%20private,Google%20Cloud%20except%20where%20necessary.)

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NEW QUESTION # 55

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