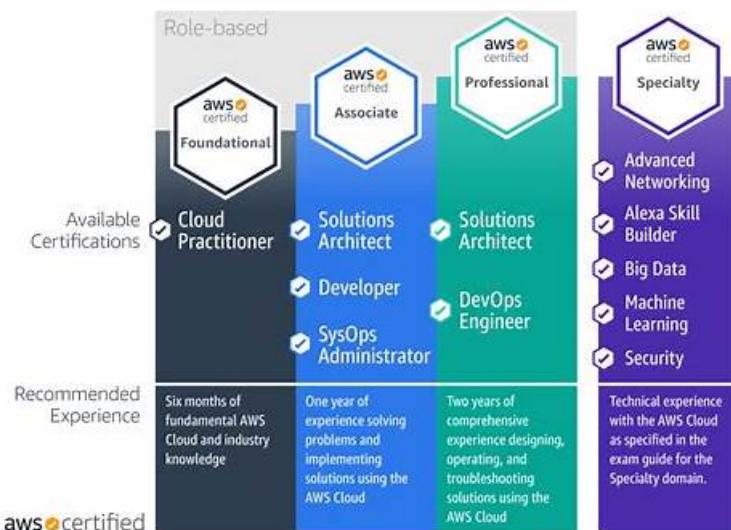


# Professional-Cloud-DevOps-Engineer Related Certifications, Professional-Cloud-DevOps-Engineer Learning Mode



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Google Professional-Cloud-DevOps-Engineer certification exam is designed for professionals who want to demonstrate their expertise in using Google Cloud Platform to build and deploy highly scalable and reliable applications. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification is ideal for DevOps engineers, site reliability engineers, and other IT professionals who are responsible for managing and deploying software applications in the cloud. Professional-Cloud-DevOps-Engineer Exam Tests your knowledge of various cloud technologies, tools, and best practices that are essential for DevOps professionals to master.

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## Google Cloud Certified - Professional Cloud DevOps Engineer Exam Sample Questions (Q190-Q195):

### NEW QUESTION # 190

You are building and deploying a microservice on Cloud Run for your organization. Your service is used by many applications internally. You are deploying a new release, and you need to test the new version extensively in the staging and production

environments. You must minimize user and developer impact. What should you do?

- A. Deploy the new version of the service to the staging environment with a new-release tag without serving traffic. Test the new-release version. If the test passes, gradually roll out this tagged version. Repeat for the production environment.
- B. Deploy the new version of the service to the staging environment. Split the traffic, and allow 50% of traffic through to the latest version. Test the latest version. If the test passes, send all traffic to the latest version. Repeat for the production environment.
- C. Deploy the new version of the service to the staging environment. Split the traffic, and allow 1 % of traffic through to the latest version. Test the latest version. If the test passes, gradually roll out the latest version to the staging and production environments.
- D. Deploy a new environment with the green tag to use as the staging environment. Deploy the new version of the service to the green environment and test the new version. If the tests pass, send all traffic to the green environment and delete the existing staging environment. Repeat for the production environment.

**Answer: A**

#### NEW QUESTION # 191

You support a large service with a well-defined Service Level Objective (SLO). The development team deploys new releases of the service multiple times a week. If a major incident causes the service to miss its SLO, you want the development team to shift its focus from working on features to improving service reliability. What should you do before a major incident occurs?

- A. Add a plugin to your Jenkins pipeline that prevents new releases whenever your service is out of SLO.
- B. Negotiate with the product team to always prioritize service reliability over releasing new features.
- C. Develop an appropriate error budget policy in cooperation with all service stakeholders.
- D. Negotiate with the development team to reduce the release frequency to no more than once a week.

**Answer: C**

Explanation:

Reason : Incident has not occurred yet, even when development team is already pushing new features multiple times a week. The option A says, to define an error budget "policy", not to define error budget (It is already present). Just simple means to bring in all stakeholders, and decide how to consume the error budget effectively that could bring balance between feature deployment and reliability.

The goals of this policy are to: -- Protect customers from repeated SLO misses -- Provide an incentive to balance reliability with other features <https://sre.google/workbook/error-budget-policy/>

#### NEW QUESTION # 192

You are designing a new Google Cloud organization for a client. Your client is concerned with the risks associated with long-lived credentials created in Google Cloud. You need to design a solution to completely eliminate the risks associated with the use of JSON service account keys while minimizing operational overhead. What should you do?

- A. Grant the roles/ iam.serviceAccountKeyAdmin IAM role to organization administrators only.
- B. Use custom versions of predefined roles to exclude all iam.serviceAccountKeys. \* service account role permissions.
- C. Apply the constraints/iam.disableServiceAccountKeyCreation constraint to the organization.
- D. Apply the constraints/iam. disableServiceAccountKeyUp10ad constraint to the organization.

**Answer: C**

Explanation:

The correct answer is B. Apply the constraints/iam.disableServiceAccountKeyCreation constraint to the organization.

According to the Google Cloud documentation, the constraints/iam.disableServiceAccountKeyCreation constraint is an organization policy constraint that prevents the creation of user-managed service account keys<sup>1</sup>. User-managed service account keys are long-lived credentials that can be downloaded as JSON or P12 files and used to authenticate as a service account<sup>2</sup>. These keys pose severe security risks if they are leaked, stolen, or misused by unauthorized entities<sup>34</sup>. By applying this constraint to the organization, you can completely eliminate the risks associated with the use of JSON service account keys and enforce a more secure alternative for authentication, such as Workload Identity or short-lived access tokens<sup>12</sup>. This also minimizes operational overhead by avoiding the need to manage, rotate, or revoke user-managed service account keys.

The other options are incorrect because they do not completely eliminate the risks associated with the use of JSON service account keys. Option A is incorrect because it only restricts the IAM permissions to create, list, get, delete, or sign service account keys, but

it does not prevent existing keys from being used or leaked.

Option C is incorrect because it only disables the upload of user-managed service account keys, but it does not prevent the creation or download of such keys. Option D is incorrect because it only limits the IAM role that can create and manage service account keys, but it does not prevent the keys from being distributed or exposed to unauthorized entities.

Reference:

Disable user-managed service account key creation, Disable user-managed service account key creation.

Service accounts, User-managed service accounts. Help keep your Google Cloud service account keys safe, Help keep your Google Cloud service account keys safe. Stop Downloading Google Cloud ServiceAccount Keys!, Stop Downloading Google Cloud Service Account Keys! [Service Account Keys], Service Account Keys. [Disable user-managed service account key upload], Disable user-managed service account key upload.

[Granting roles to service accounts], Granting roles to service accounts.

### NEW QUESTION # 193

Your application images are built using Cloud Build and pushed to Google Container Registry (GCR). You want to be able to specify a particular version of your application for deployment based on the release version tagged in source control. What should you do when you push the image?

- A. Supply the source control tag as a parameter within the image name.
- B. Use GCR digest versioning to match the image to the tag in source control.
- C. Reference the image digest in the source control tag.
- D. **Use Cloud Build to include the release version tag in the application image.**

**Answer: D**

### NEW QUESTION # 194

You are responsible for creating and modifying the Terraform templates that define your Infrastructure.

Because two new engineers will also be working on the same code, you need to define a process and adopt a tool that will prevent you from overwriting each other's code. You also want to ensure that you capture all updates in the latest version. What should you do?

- A. \* Store your code as text files in Google Drive in a defined folder structure that organizes the files.\* At the end of each day, confirm that all changes have been captured in the files within the folder structure.\* Rename the folder structure with a predefined naming convention that increments the version.
- B. **\* Store your code in a Git-based version control system\* Establish a process that includes code reviews by peers and unit testing to ensure integrity and functionality before integration of code.\* Establish a process where the fully integrated code in the repository becomes the latest master version.**
- C. \* Store your code as text files in Google Drive in a defined folder structure that organizes the files.\* At the end of each day, confirm that all changes have been captured in the files within the folder structure and create a new .zip archive with a predefined naming convention.\* Upload the .zip archive to a versioned Cloud Storage bucket and accept it as the latest version.
- D. \* Store your code in a Git-based version control system\* Establish a process that allows developers to merge their own changes at the end of each day.\* Package and upload code to a versioned Cloud Storage bucket as the latest master version.

**Answer: B**

### NEW QUESTION # 195

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We all realize that how important an Cloud DevOps Engineer certification is, also understand the importance of having a good knowledge of it. Passing the Professional-Cloud-DevOps-Engineer exam means you might get the chance of higher salary, greater social state and satisfying promotion chance. Once your professional ability is acknowledged by authority, you master the rapidly developing information technology. With so many advantages, why don't you choose our reliable Professional-Cloud-DevOps-Engineer Actual Exam guide, for broader future and better life? Our Professional-Cloud-DevOps-Engineer exam questions won't let you down.

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