Professional-Cloud-DevOps-Engineer New Questions | Exam Professional-Cloud-DevOps-Engineer Preview

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Google Professional-Cloud-DevOps-Engineer certification is designed to validate the knowledge and skills of professionals who have experience working with DevOps practices on the Google Cloud Platform. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification exam is intended for individuals who have expertise in developing and deploying applications using Google Cloud technologies and are familiar with the principles of DevOps. Professional-Cloud-DevOps-Engineer Exam is designed to test the candidate's ability to apply DevOps principles to Google Cloud Platform projects.

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Quiz Professional Professional-Cloud-DevOps-Engineer - Google Cloud Certified - Professional Cloud DevOps Engineer Exam New Questions

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Google Cloud Certified - Professional Cloud DevOps Engineer Exam Sample Questions (Q151-Q156):

NEW QUESTION # 151
You are running a real-time gaming application on Compute Engine that has a production and testing environment. Each environment has their own Virtual Private Cloud (VPC) network. The application frontend and backend servers are located on different subnets in the environment's VPC. You suspect there is a malicious process communicating intermittently in your production frontend servers. You want to ensure that network traffic is captured for analysis. What should you do?

- A. Enable VPC Flow Logs on the production VPC network frontend and backend subnets only with a sample volume scale of 0.5.
- B. Enable VPC Flow Logs on the production VPC network frontend and backend subnets only with a sample volume scale of 1.0.
- C. Enable VPC Flow Logs on the testing and production VPC network frontend and backend subnets with a volume scale of

0.5. Apply changes in testing before production.
- D. Enable VPC Flow Logs on the testing and production VPC network frontend and backend subnets with a volume scale of 1.0. Apply changes in testing before production.

Answer: D

NEW QUESTION # 152

You need to define SLOs for a high-traffic web application. Customers are currently happy with the application performance and availability. Based on current measurement, the 90th percentile Of latency is 160 ms and the 95th percentile of latency is 300 ms over a 28-day window. What latency SLO should you publish?

- A. 90th percentile - 150 ms95th percentile - 290 ms
- B. 90th percentile - 300 ms95th percentile - 450 ms
- C. 90th percentile - 190 ms95th percentile - 330 ms
- D. 90th percentile - 160 ms95th percentile - 300 ms

Answer: D

NEW QUESTION # 153

You recently deployed your application in Google Kubernetes Engine (GKE) and now need to release a new version of the application You need the ability to instantly roll back to the previous version of the application in case there are issues with the new version Which deployment model should you use?

- A. Perform a blue/green deployment and test your new application after the deployment is complete
- B. Perform A. B testing, and test your application periodically after the deployment is complete
- C. Perform a canary deployment, and test your new application periodically after the new version is deployed
- D. Perform a rolling deployment and test your new application after the deployment is complete

Answer: A

Explanation:
The best deployment model for releasing a new version of your application in GKE with the ability to instantly roll back to the previous version is to perform a blue/green deployment and test your new application after the deployment is complete. A blue/green deployment is a deployment strategy that involves creating two identical environments, one running the current version of the application (blue) and one running the new version of the application (green). The traffic is switched from blue to green after testing the new version, and if any issues are discovered, the traffic can be switched back to blue instantly. This way, you can minimize downtime and risk during deployment.

NEW QUESTION # 154

You are deploying a Cloud Build job that deploys Terraform code when a Git branch is updated. While testing, you noticed that the job fails. You see the following error in the build logs:
Initializing the backend. ..
Error: Failed to get existing workspaces : querying Cloud Storage failed: googleapi : Error
403
You need to resolve the issue by following Google-recommended practices. What should you do?

- A. Grant the roles/ owner Identity and Access Management (IAM) role to the Cloud Build service account on the project.
- B. Create a storage bucket with the name specified in the Terraform configuration.
- C. Grant the roles/ storage. objectAdmin Identity and Access Management (IAM) role to the Cloud Build service account on the state file bucket.
- D. Change the Terraform code to use local state.

Answer: C

Explanation:
The correct answer is D. Grant the roles/storage.objectAdmin Identity and Access Management (IAM) role to the Cloud Build service account on the state file bucket.
According to the Google Cloud documentation, Cloud Build is a service that executes your builds on Google Cloud Platform

infrastructure1. Cloud Build uses a service account to execute your build steps and access resources, such as Cloud Storage buckets2. Terraform is an open-source tool that allows you to define and provision infrastructure as code3. Terraform uses a state file to store and track the state of your infrastructure4. You can configure Terraform to use a Cloud Storage bucket as a backend to store and share the state file across multiple users or environments5.

The error message indicates that Cloud Build failed to access the Cloud Storage bucket that contains the Terraform state file. This is likely because the Cloud Build service account does not have the necessary permissions to read and write objects in the bucket. To resolve this issue, you need to grant the roles/storage.

objectAdmin IAM role to the Cloud Build service account on the state file bucket. This role allows the service account to create, delete, and manage objects in the bucket6. You can use the gcloud command-line tool or the Google Cloud Console to grant this role.

The other options are incorrect because they do not follow Google-recommended practices. Option A is incorrect because it changes the Terraform code to use local state, which is not recommended for production or collaborative environments, as it can cause conflicts, data loss, or inconsistency. Option B is incorrect because it creates a new storage bucket with the name specified in the Terraform configuration, but it does not grant any permissions to the Cloud Build service account on the new bucket. Option C is incorrect because it grants the roles/owner IAM role to the Cloud Build service account on the project, which is too broad and violates the principle of least privilege. The roles/owner role grants full access to all resources in the project, which can pose a security risk if misused or compromised.

Reference:

Cloud Build Documentation, Overview. Service accounts, Service accounts. Terraform by HashiCorp, Terraform by HashiCorp. State, State. Google Cloud Storage Backend, Google Cloud Storage Backend.

Predefined roles, Predefined roles. [Granting roles to service accounts for specific resources], Granting roles to service accounts for specific resources. [Local Backend], Local Backend. [Understanding roles], Understanding roles.

NEW QUESTION # 155
You are deploying an application to Cloud Run. The application requires a password to start. Your organization requires that all passwords are rotated every 24 hours, and your application must have the latest password. You need to deploy the application with no downtime. What should you do?

- A. Store the password directly in the code. Use Cloud Build to rebuild and deploy the application each time the password changes.
- B. Store the password in Secret Manager and mount the secret as a volume within the application.
- C. Store the password in Secret Manager and send the secret to the application by using environment variables.
- D. Use Cloud Build to add your password into the application container at build time. Ensure that Artifact Registry is secured from public access.

Answer: B

Explanation:
The correct answer is B, Store the password in Secret Manager and mount the secret as a volume within the application.
Secret Manager is a service that allows you to securely store and manage sensitive data such as passwords, API keys, certificates, and tokens. You can use Secret Manager to rotate your secrets automatically or manually, and access them from your Cloud Run applications1.
There are two ways to use secrets from Secret Manager in Cloud Run:
As environment variables: You can set environment variables that point to secrets in Secret Manager. Cloud Run will resolve the secrets at runtime and inject them into the environment of your application. However, this method has some limitations, such as:
The environment variables are cached for up to 10 minutes, so you may not get the latest version of the secret immediately.
The environment variables are visible in plain text in the Cloud Console and the Cloud SDK, which may expose sensitive information.
The environment variables are limited to 4 KB of data, which may not be enough for some secrets.2 As file system volumes: You can mount secrets from Secret Manager as files in a volume within your application. Cloud Run will create a tmpfs volume and write the secrets as files in it. This method has some advantages, such as:
The files are updated every 30 seconds, so you can get the latest version of the secret faster.
The files are not visible in the Cloud Console or the Cloud SDK, which provides better security.
The files can store up to 64 KB of data, which allows for larger secrets.3 Therefore, for your use case, it is better to use the second method and mount the secret as a file system volume within your application. This way, you can ensure that your application has the latest password, and you can deploy it with no downtime.
To mount a secret as a file system volume in Cloud Run, you can use the following command:
gcloud beta run deploy SERVICE --image IMAGE_URL --update-secrets=/path/to/file=secretName:version where:
SERVICE is the name of your Cloud Run service.
IMAGE_URL is the URL of your container image.

/path/to/file is the path where you want to mount the secret file in your application.

secretName is the name of your secret in Secret Manager.

You can also use the Cloud Console to mount secrets as file system volumes. For more details, see Mounting secrets from Secret Manager.

Reference:

1: Overview | Secret Manager Documentation | Google Cloud

2: Using secrets as environment variables | Cloud Run Documentation | Google Cloud

3: Mounting secrets from Secret Manager | Cloud Run Documentation | Google Cloud

NEW QUESTION # 156

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