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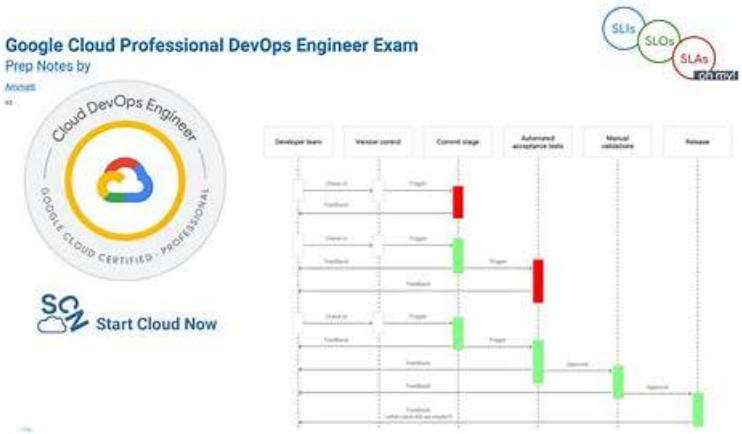

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Google Professional-Cloud-DevOps-Engineer (Google Cloud Certified - Professional Cloud DevOps Engineer) Certification Exam is designed to test the skills and knowledge required for professionals who are working in DevOps roles in the cloud computing environment. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification is specifically designed for professionals who are responsible for designing, building, and managing efficient and scalable cloud-based systems using Google Cloud technologies.

Earning the Google Professional-Cloud-DevOps-Engineer Certification can open up new career opportunities for cloud DevOps professionals, as it is recognized as a valuable credential in the industry. It can also help professionals demonstrate their commitment to ongoing learning and development, and provide them with the skills and knowledge they need to succeed in the rapidly evolving field of cloud DevOps engineering.

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Real Google Professional-Cloud-DevOps-Engineer Exam Questions with Verified Answers

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Google Professional-Cloud-DevOps-Engineer Exam is an essential certification for professionals who want to develop their skills in cloud-based DevOps engineering. Professional-Cloud-DevOps-Engineer exam covers various aspects of infrastructure deployment, automation, monitoring, and optimization, and tests the candidate's ability to design, develop, and manage cloud-based solutions using best practices and industry standards. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification is highly valued in the industry and can lead to better career opportunities and higher salaries.

Google Cloud Certified - Professional Cloud DevOps Engineer Exam Sample

Questions (Q137-Q142):

NEW QUESTION # 137
Your company recently migrated to Google Cloud. You need to design a fast, reliable, and repeatable solution for your company to provision new projects and basic resources in Google Cloud. What should you do?

- A. Use the Google Cloud console to create projects.
- B. Write a script by using the gcloud CLI that passes the appropriate parameters from the request. Save the script in a Git repository.
- C. Write a Terraform module and save it in your source control repository. Copy and run the apply command to create the new project.
- D. Use the Terraform repositories from the Cloud Foundation Toolkit. Apply the code with appropriate parameters to create the Google Cloud project and related resources.

Answer: D

Explanation:
Explanation
Terraform is an open-source tool that allows you to define and provision infrastructure as code1. Terraform can be used to create and manage Google Cloud resources, such as projects, networks, and services2. The Cloud Foundation Toolkit is a set of open-source Terraform modules and tools that provide best practices and guidance for deploying Google Cloud infrastructure3. The Cloud Foundation Toolkit includes Terraform repositories for creating Google Cloud projects and related resources, such as IAM policies, APIs, service accounts, and billing4. By using the Terraform repositories from the Cloud Foundation Toolkit, you can design a fast, reliable, and repeatable solution for your company to provision new projects and basic resources in Google Cloud. You can also customize the Terraform code to suit your specific needs and preferences.

NEW QUESTION # 138
Your application artifacts are being built and deployed via a CI/CD pipeline. You want the CI/CD pipeline to securely access application secrets. You also want to more easily rotate secrets in case of a security breach.
What should you do?

- A. Encrypt the secrets and store them in the source code repository. Store a decryption key in a separate repository and grant your pipeline access to it.
- B. Store secrets in a separate configuration file on Git. Provide select developers with access to the configuration file.
- C. Prompt developers for secrets at build time. Instruct developers to not store secrets at rest.
- D. Store secrets in Cloud Storage encrypted with a key from Cloud KMS. Provide the CI/CD pipeline with access to Cloud KMS via IAM.

Answer: D

NEW QUESTION # 139
Your Cloud Run application writes unstructured logs as text strings to Cloud Logging. You want to convert the unstructured logs to JSON-based structured logs. What should you do?

- A. Install the log agent in the Cloud Run container image, and use the log agent to forward logs to Cloud Logging.
- B. Modify the application to use Cloud Logging software development kit (SDK), and send log entries with a jsonPay10ad field.
- C. Configure the log agent to convert log text payload to JSON payload.
- D. A Install a Fluent Bit sidecar container, and use a JSON parser.

Answer: B

Explanation:
The correct answer is D. Modify the application to use Cloud Logging software development kit (SDK), and send log entries with a jsonPayload field.
Cloud Logging SDKs are libraries that allow you to write structured logs from your Cloud Run application.
You can use the SDKs to create log entries with a jsonPayload field, which contains a JSON object with the properties of your log entry.The jsonPayload field allows you to use advanced features of Cloud Logging, such as filtering, querying, and exporting logs based on the properties of your log entry1.

To use Cloud Logging SDKs, you need to install the SDK for your programming language, and then use the SDK methods to create and send log entries to Cloud Logging.For example, if you are using Node.js, you can use the following code to write a structured log entry with a jsonPayload field2:

```
// Imports the Google Cloud client library
const {Logging} = require('@google-cloud/logging');
// Creates a client
const logging = new Logging();
// Selects the log to write to
const log = logging.log('my-log');
// The data to write to the log
const text = 'Hello, world!';
const metadata = {
// Set the Cloud Run service name and revision as labels
labels: {
service_name: process.env.K_SERVICE || 'unknown',
revision_name: process.env.K_REVISION || 'unknown',
},
// Set the log entry payload type and value
jsonPayload: {
message: text,
timestamp: new Date(),
},
};
// Prepares a log entry
const entry = log.entry(metadata);
// Writes the log entry
await log.write(entry);
console.log(`Logged: ${text}`);
```

Using Cloud Logging SDKs is the best way to convert unstructured logs to structured logs, as it provides more flexibility and control over the format and content of your log entries.
Using a Fluent Bit sidecar container is not a good option, as it adds complexity and overhead to your Cloud Run application.Fluent Bit is a lightweight log processor and forwarder that can be used to collect and parse logs from various sources and send them to different destinations3. However, Cloud Run does not support sidecar containers, so you would need to run Fluent Bit as part of your main container image. This would require modifying your Dockerfile and configuring Fluent Bit to read logs from supported locations and parse them as JSON. This is more cumbersome and less reliable than using Cloud Logging SDKs.
Using the log agent in the Cloud Run container image is not possible, as the log agent is not supported on Cloud Run. The log agent is a service that runs on Compute Engine or Google Kubernetes Engine instances and collects logs from various applications and system components. However, Cloud Run does not allow you to install or run any agents on its underlying infrastructure, as it is a fully managed service that abstracts away the details of the underlying platform.
Storing the password directly in the code is not a good practice, as it exposes sensitive information and makes it hard to change or rotate the password. It also requires rebuilding and redeploying the application each time the password changes, which adds unnecessary work and downtime.
References:
1:Writing structured logs | Cloud Run Documentation | Google Cloud
2:Write structured logs | Cloud Run Documentation | Google Cloud
3: Fluent Bit - Fast and Lightweight Log Processor & Forwarder
4: Logging Best Practices for Serverless Applications - Google Codelabs
5: About the logging agent | Cloud Logging Documentation | Google Cloud
6: Cloud Run FAQ | Google Cloud

NEW QUESTION # 140
You are building the CI/CD pipeline for an application deployed to Google Kubernetes Engine (GKE) The application is deployed by using a Kubernetes Deployment, Service, and Ingress The application team asked you to deploy the application by using the blue'green deployment methodology You need to implement the rollback actions What should you do?

- A. Update the Kubernetes Service to point to the previous Kubernetes Deployment
- B. Delete the new container image, and delete the running Pods
- C. Run the kubectl rollout undo command
- D. Scale the new Kubernetes Deployment to zero

Answer: A

Explanation:
The best option for implementing the rollback actions is to update the Kubernetes Service to point to the previous Kubernetes Deployment. A Kubernetes Service is a resource that defines how to access a set of Pods. A Kubernetes Deployment is a resource that manages the creation and update of Pods. By using the blue
/green deployment methodology, you can create two Deployments, one for the current version (blue) and one for the new version (green), and use a Service to switch traffic between them. If you need to rollback, you can update the Service to point to the previous Deployment (blue) and stop sending traffic to the new Deployment (green).

NEW QUESTION # 141
You are managing an application that runs in Compute Engine The application uses a custom HTTP server to expose an API that is accessed by other applications through an internal TCP/UDP load balancer A firewall rule allows access to the API port from 0.0.0-0/0. You need to configure Cloud Logging to log each IP address that accesses the API by using the fewest number of steps What should you do Bret?

- A. Enable VPC Flow Logs on the subnet
- B. Enable logging on the firewall rule
- C. Enable Packet Mirroring on the VPC
- D. Install the Ops Agent on the Compute Engine instances.

Answer: B

Explanation:
Explanation
The best option for configuring Cloud Logging to log each IP address that accesses the API by using the fewest number of steps is to enable logging on the firewall rule. A firewall rule is a rule that controls the traffic to and from your Compute Engine instances. You can enable logging on a firewall rule to capture information about the traffic that matches the rule, such as source and destination IP addresses, protocols, ports, and actions. You can use Cloud Logging to view and export the firewall logs to other destinations, such as BigQuery, for further analysis.

NEW QUESTION # 142
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