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Google Professional-Cloud-DevOps-Engineer Exam is a performance-based exam that evaluates the candidate's practical skills in the real-world scenario. Professional-Cloud-DevOps-Engineer exam is conducted online, and the candidates are required to complete a set of tasks within a given time frame. Professional-Cloud-DevOps-Engineer exam is divided into two parts - a scenario-based section and a hands-on section. The scenario-based section tests the candidate's ability to analyze and solve complex problems, while the hands-on section evaluates the candidate's skills in implementing and managing GCP solutions.

Google Professional-Cloud-DevOps-Engineer Exam Syllabus Topics:

Topic	Details
Topic 1	Applying site reliability engineering practices to a service: It deals with velocity, and reliability of the service, service lifecycle, healthy communication, and collaboration for operations. The topic also discusses mitigation of incident impact on users and conducting a postmortem.
Topic 2	- Bootstrapping a Google Cloud organization for DevOps: It discusses the overall resource hierarchy for an organization, infrastructure as code, CI - CD architecture stack in Google Cloud, hybrid, and multi-cloud environments. Moreover, the topic focuses on multiple environments including staging and production.
Topic 3	Optimizing the service performance: It delves into the identification of service performance issues, implementation of debugging tools in Google Cloud, and optimization of resource utilization and costs.
Topic 4	Implementing service monitoring strategies: This topic covers structured and unstructured logs from Compute Engine, GKE, and serverless platforms using Cloud Logging. Its sub-topics include coverage of metrics with Cloud Monitoring, dashboards and alerts in Cloud Monitoring, Cloud Logging platform, and logging and monitoring access controls.

Topic 5	• Building and implementing CI • CD pipelines for a service: Management and designing of CI • CD pipelines, implementation of CI • CD pipelines, management of CI • CD configuration, and secrets are discussed in this paper. Moreover, it focuses on storage methods and key rotation services, and finally securing the CI • CD deployment pipeline.
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The Professional-Cloud-DevOps-Engineer certification exam is one of the most sought-after certifications in the cloud computing industry. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification exam validates the candidate's skills in designing, building, and managing cloud solutions that are scalable, reliable, and secure. Professional-Cloud-DevOps-Engineer Exam covers a wide range of topics, including infrastructure automation, continuous integration and delivery, monitoring and logging, security, and compliance.

Google Cloud Certified - Professional Cloud DevOps Engineer Exam Sample Questions (Q15-Q20):

NEW QUESTION # 15

You are leading a DevOps project for your organization. The DevOps team is responsible for managing the service infrastructure and being on-call for incidents. The Software Development team is responsible for writing, submitting, and reviewing code. Neither team has any published SLOs. You want to design a new joint-ownership model for a service between the DevOps team and the Software Development team. Which responsibilities should be assigned to each team in the new joint-ownership model?

A. ☐

DevOps team responsibilities	Software Development team responsibilities
• Manage the service infrastructure • Be on-call for incidents • Perform code reviews	• Submit code to be reviewed by the DevOps team • Publish the SLOs that the DevOps team must meet

B. ☐

DevOps team responsibilities	Software Development team responsibilities
• Manage the service infrastructure • Perform code reviews	• Submit code to be reviewed by the DevOps team • Be on-call for incidents • Publish the SLOs that the DevOps team must meet

C. ☒

DevOps team responsibilities	Shared responsibilities	Software Development team responsibilities
• Manage the service infrastructure	• Perform code reviews • Be on-call for incidents on a rotation basis • Adopt and publish SLOs for the service	• Submit code to be reviewed

D. ☐

DevOps team responsibilities	Shared responsibilities	Software Development team responsibilities
• Manage the service infrastructure • Be on-call for incidents	• Adopt and publish SLOs for the service	• Submit code to be reviewed • Perform code reviews

- A. Option A
- **B. Option D**
- C. Option C
- D. Option B

Answer: B

Explanation:

The correct answer is D. Option D)

According to the DevOps best practices, a joint-ownership model for a service between the DevOps team and the Software Development team should follow these principles¹²:

The DevOps team and the Software Development team should share the responsibility and collaboration for managing the service infrastructure, performing code reviews, and adopting and sharing SLOs for the service.

The DevOps team and the Software Development team should have end-to-end ownership of the service, from design to development to deployment to operation to maintenance.

The DevOps team and the Software Development team should use common tools and processes to facilitate communication, coordination, and feedback.

The DevOps team and the Software Development team should align their goals and incentives with the business outcomes and customer satisfaction.

Option D is the only option that reflects these principles. Option D assigns both teams the responsibilities of managing the service infrastructure, performing code reviews, and adopting and sharing SLOs for the service. Option D also implies that both teams have end-to-end ownership of the service, as they are involved in every stage of the service lifecycle. Option D also encourages both teams to use common tools and processes, such as GitLab3, to collaborate and communicate effectively. Option D also aligns both teams with the business outcomes and customer satisfaction, as they use SLOs to measure and improve the service quality.

The other options are incorrect because they do not follow the DevOps best practices. Option A is incorrect because it assigns only the DevOps team the responsibility of managing the service infrastructure, which creates a silo between the two teams and reduces their collaboration. Option A also does not assign any responsibility for adopting and sharing SLOs for the service, which means that

both teams lack a common metric for measuring and improving the service quality. Option B is incorrect because it assigns only the Software Development team the responsibility of performing code reviews, which creates a gap between the two teams and reduces their feedback. Option B also does not assign any responsibility for adopting and sharing SLOs for the service, which means that both teams lack a common metric for measuring and improving the service quality. Option C is incorrect because it assigns both teams the same responsibilities as option A and option B, which combines their drawbacks.

Reference:

5 key organizational models for DevOps teams | GitLab, 5 key organizational models for DevOps teams | GitLab. Building a Culture of Full-Service Ownership - DevOps.com, Building a Culture of Full-Service Ownership - DevOps.com. GitLab, GitLab.

NEW QUESTION # 16

You are configuring a CI pipeline. The build step for your CI pipeline integration testing requires access to APIs inside your private VPC network. Your security team requires that you do not expose API traffic publicly. You need to implement a solution that minimizes management overhead. What should you do?

- A. Use Cloud Build as a pipeline runner. Configure Internal HTTP(S) Load Balancing for API access.
- **B. Use Cloud Build private pools to connect to the private VPC.**
- C. Use Spinnaker for Google Cloud to connect to the private VPC.
- D. Use Cloud Build as a pipeline runner. Configure External HTTP(S) Load Balancing with a Google Cloud Armor policy for API access.

Answer: B

Explanation:

Explanation

Cloud Build is a service that executes your builds on Google Cloud Platform infrastructure¹. Cloud Build can be used as a pipeline runner for your CI pipeline, which is a process that automates the integration and testing of your code². Cloud Build private pools are private, dedicated pools of workers that offer greater customization over the build environment, including the ability to access resources in a private VPC network³.

A VPC network is a virtual network that provides connectivity for your Google Cloud resources and services. By using Cloud Build private pools, you can implement a solution that minimizes management overhead, as Cloud Build private pools are hosted and fully-managed by Cloud Build and scale up and down to zero, with no infrastructure to set up, upgrade, or scale³. You can also implement a solution that meets your security requirement, as Cloud Build private pools use network peering to connect into your private VPC network and do not expose API traffic publicly.

NEW QUESTION # 17

Your company runs services by using multiple globally distributed Google Kubernetes Engine (GKE) clusters. Your operations team has set up workload monitoring that uses Prometheus-based tooling for metrics alerts: and generating dashboards. This setup does not provide a method to view metrics globally across all clusters. You need to implement a scalable solution to support global Prometheus querying and minimize management overhead. What should you do?

- A. Configure Prometheus hierarchical federation for centralized data access.
- **B. Configure Google Cloud Managed Service for Prometheus.**
- C. Configure workload metrics within Cloud Operations for GKE.
- D. Configure Prometheus cross-service federation for centralized data access.

Answer: B

Explanation:

The best option for implementing a scalable solution to support global Prometheus querying and minimize management overhead is to use Google Cloud Managed Service for Prometheus. Google Cloud Managed Service for Prometheus is a fully managed service that allows you to collect, query, and visualize metrics from your GKE clusters using Prometheus-based tooling. You can use Google Cloud Managed Service for Prometheus to query metrics across multiple clusters and regions using a global view. You can also use Google Cloud Managed Service for Prometheus to integrate with other Google Cloud services, such as Cloud Monitoring, Cloud Logging, and BigQuery. By using Google Cloud Managed Service for Prometheus, you can avoid managing and scaling your own Prometheus servers and focus on your application performance.

NEW QUESTION # 18

As a Site Reliability Engineer, you support an application written in GO that runs on Google Kubernetes Engine (GKE) in production. After releasing a new version of the application, you notice the application runs for about 15 minutes and then restarts. You decide to add Cloud Profiler to your application and now notice that the heap usage grows constantly until the application restarts. What should you do?

- A. Add high memory compute nodes to the cluster.
- B. Increase the CPU limit in the application deployment.
- **C. Increase the memory limit in the application deployment.**
- D. Add Cloud Trace to the application, and redeploy.

Answer: C

Explanation:

The correct answer is B. Increase the memory limit in the application deployment.

The application is experiencing a memory leak, which means that it is allocating memory that is not freed or reused. This causes the heap usage to grow constantly until it reaches the memory limit of the pod, which triggers a restart by Kubernetes. Increasing the memory limit in the application deployment can help mitigate the problem by allowing the application to run longer before reaching the limit. However, this is not a permanent solution, as the memory leak will still occur and eventually exhaust the available memory. The best solution is to identify and fix the source of the memory leak in the application code, using tools like Cloud Profiler and pprof2.

NEW QUESTION # 19

Your team uses Cloud Build for all CI/CO pipelines. You want to use the kubectl builder for Cloud Build to deploy new images to Google Kubernetes Engine (GKE). You need to authenticate to GKE while minimizing development effort. What should you do?

- A. Create a separate step in Cloud Build to retrieve service account credentials and pass these to kubectl.
- B. Specify the Container Developer role for Cloud Build in the cloudbuild.yaml file.
- C. Create a new service account with the Container Developer role and use it to run Cloud Build.
- **D. Assign the Container Developer role to the Cloud Build service account.**

Answer: D

Explanation:

Explanation

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

<https://cloud.google.com/build/docs/securing-builds/configure-user-specified-service-accounts>

NEW QUESTION # 20

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