

최신Professional-Cloud-DevOps-Engineer퍼펙트덤프최신데모인증시험인기덤프문제

Google Professional-Cloud-Security - Google Cloud Certified - Professional Cloud Security Engineer Exam

2

project, all members of that department should automatically have read-only access to all new project resources. Members of any other department should not have access to the project. You need to configure this behavior.

What should you do to meet these requirements?

- A. Create a Folder per department under the Organization. For each department's Folder, assign the Project Browser role to the Google Group related to that department.
- B. Create a Project per department under the Organization. For each department's Project, assign the Project Browser role to the Google Group related to that department.
- C. Create a Project per department under the Organization. For each department's Project, assign the Project Viewer role to the Google Group related to that department.
- D. Create a Folder per department under the Organization. For each department's Folder, assign the Project Viewer role to the Google Group related to that department.

정답:C,D

질문 # 17

You work for a large organization where each business unit has thousands of users. You need to delegate management of access control permissions to each business unit. You have the following requirements:

Each business unit manages access controls for their own projects.
Each business unit manages access control permissions at scale.
Business units cannot access other business units' projects.
Users lose their access if they move to a different business unit or leave the company.
Users and access control permissions are managed by the on-premises directory service.
What should you do? (Choose two.)

- A. Use VPC Service Controls to create perimeters around each business unit's project.
- B. Create a project naming convention, and use Google's IAM Conditions to manage access based on the prefix of project names.
- C. Use Google Cloud Directory Sync to synchronize users and group memberships in Cloud Identity.
- D. Organize projects in folders, and assign permissions to Google groups at the folder level.
- E. Group business units based on Organization Units (OUs) and manage permissions based on OUs.

정답:C,D

질문 # 18

A customer wants to move their sensitive workloads to a Compute Engine-based cluster using Managed Instance Groups (MIGs). The jobs are bursty and must be completed quickly. They have a requirement to be able to manage and rotate the encryption keys.

Which boot disk encryption solution should you use on the cluster to meet this customer's requirements?

- A. Customer-managed encryption keys (CMEK) using Cloud Key Management Service (KMS)
- B. Encryption by default
- C. Pre-encrypting files before transferring to Google Cloud Platform (GCP) for analysis

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최신 Cloud DevOps Engineer Professional-Cloud-DevOps-Engineer 무료샘 풀문제 (Q167-Q172):

질문 # 167

You are managing the production deployment to a set of Google Kubernetes Engine (GKE) clusters. You want to make sure only images which are successfully built by your trusted CI/CD pipeline are deployed to production. What should you do?

- A. Enable Cloud Security Scanner on the clusters.
- B. Enable Vulnerability Analysis on the Container Registry.
- C. Set up the Kubernetes Engine clusters as private clusters.**
- D. Set up the Kubernetes Engine clusters with Binary Authorization.

정답: C

질문 # 168

You are implementing a CI/CD pipeline for your application in your company's multi-cloud environment. Your application is deployed by using custom Compute Engine images and the equivalent in other cloud providers. You need to implement a solution that will enable you to build and deploy the images to your current environment and is adaptable to future changes. Which solution stack should you use?

- A. Google Kubernetes Engine with Google Cloud Deploy
- B. Cloud Build with Google Cloud Deploy**
- C. Cloud Build with kpt
- D. Cloud Build with Packer

정답: B

설명:

Explanation

Cloud Build is a fully managed continuous integration and continuous delivery (CI/CD) service that helps you automate your builds, tests, and deployments. Google Cloud Deploy is a service that automates the deployment of your applications to Google Kubernetes Engine (GKE).

Together, Cloud Build and Google Cloud Deploy can be used to build and deploy your application's custom Compute Engine images to your current environment and to other cloud providers in the future.

Here are the steps involved in using Cloud Build and Google Cloud Deploy to implement a CI/CD pipeline for your application: Create a Cloud Build trigger that fires whenever a change is made to your application's code.

In the Cloud Build trigger, configure Cloud Build to build your application's Docker image.

Create a Google Cloud Deploy configuration file that specifies how to deploy your application's Docker image to GKE.

In Google Cloud Deploy, create a deployment that uses your configuration file.

Once you have created the Cloud Build trigger and Google Cloud Deploy configuration file, any changes made to your application's code will trigger Cloud Build to build a new Docker image. Google Cloud Deploy will then deploy the new Docker image to GKE. This solution stack is adaptable to future changes because it uses a cloud-agnostic approach. Cloud Build can be used to build Docker images for any cloud provider, and Google Cloud Deploy can be used to deploy Docker images to any Kubernetes cluster. The other solution stacks are not as adaptable to future changes. For example, solution stack A (Cloud Build with Packer) is limited to building Docker images for Compute Engine. Solution stack C (Google Kubernetes Engine with Google Cloud Deploy) is limited to deploying Docker images to GKE. Solution stack D (Cloud Build with kpt) is a newer solution that is not yet as mature as Cloud Build and Google Cloud Deploy.

Overall, the best solution stack for implementing a CI/CD pipeline for your application in a multi-cloud environment is Cloud Build with Google Cloud Deploy. This solution stack is fully managed, cloud-agnostic, and adaptable to future changes.

질문 # 169

Your organization recently adopted a container-based workflow for application development. Your team develops numerous applications that are deployed continuously through an automated build pipeline to a Kubernetes cluster in the production environment. The security auditor is concerned that developers or operators could circumvent automated testing and push code changes to production without approval. What should you do to enforce approvals?

- A. Use an Admission Controller to verify that incoming requests originate from approved sources.
- B. **Enable binary authorization inside the Kubernetes cluster and configure the build pipeline as an attester.**
- C. Configure the build system with protected branches that require pull request approval.
- D. Leverage Kubernetes Role-Based Access Control (RBAC) to restrict access to only approved users.

정답: B

설명:

Explanation

The keywords here is "developers or operators". Option A the operators could push images to production without approval (operators could touch the cluster directly and the cluster cannot do any action against them).

Rest same as francisco_guerra.

질문 # 170

You are analyzing Java applications in production. All applications have Cloud Profiler and Cloud Trace installed and configured by default. You want to determine which applications need performance tuning. What should you do?

Choose 2 answers

- A. 17 Examine the wall-clock time and the CPU time of the application. If the difference is substantial, increase the local disk storage allocation.
- B. Examine the heap usage Of the application. If the usage is low, mark the application for optimization.
- C. **Examine the wall-clock time and the CPU time Of the application. If the difference is substantial, increase the CPU resource allocation.**
- D. **O Examine the latency time, the wall-clock time, and the CPU time of the application. If the latency time is slowly burning down the error budget, and the difference between wall-clock time and CPU time is minimal, mark the application for optimization.**
- E. Examine the wall-clock time and the CPU time of the application. If the difference is substantial, increase the memory resource allocation.

정답: C,D

설명:

The correct answers are A and D.

Examine the wall-clock time and the CPU time of the application. If the difference is substantial, increase the CPU resource allocation. This is a good way to determine if the application is CPU-bound, meaning that it spends more time waiting for the CPU than performing actual computation. Increasing the CPU resource allocation can improve the performance of CPU-bound applications1.

Examine the latency time, the wall-clock time, and the CPU time of the application. If the latency time is slowly burning down the error budget, and the difference between wall-clock time and CPU time is minimal, mark the application for optimization. This is a good way to determine if the application is I/O-bound, meaning that it spends more time waiting for input/output operations than performing actual computation.

Increasing the CPU resource allocation will not help I/O-bound applications, and they may need optimization to reduce the number or duration of I/O operations2.

Answer B is incorrect because increasing the memory resource allocation will not help if the application is CPU-bound or I/O-bound. Memory allocation affects how much data the application can store and access in memory, but it does not affect how fast the application can process that data.

Answer C is incorrect because increasing the local disk storage allocation will not help if the application is CPU-bound or I/O-bound. Disk storage affects how much data the application can store and access on disk, but it does not affect how fast the application can process that data.

Answer E is incorrect because examining the heap usage of the application will not help to determine if the application needs performance tuning. Heap usage affects how much memory the application allocates for dynamic objects, but it does not affect how fast the application can process those objects. Moreover, low heap usage does not necessarily mean that the application is inefficient or unoptimized.

질문 # 171

You manage a critical, user-facing application and have configured a service level objective (SLO) in Cloud Monitoring to track 99% availability over a 30-day rolling window. Recently, a series of minor issues have increased latency, causing the error budget to be consumed at an accelerated rate. You need to be proactively notified when the service is at risk of violating its SLO before the error budget is fully depleted. What should you do?

- A. In Cloud Monitoring, create an alerting policy based on the SLO's error budget burn rate. Configure the alert to trigger when the current consumption rate is projected to exhaust the budget before the end of the 30-day compliance period.
- B. Configure a log-based metric in Cloud Monitoring that tracks the rate of application error logs. Create an alerting policy on this metric that triggers when the error rate shows a significant anomalous deviation from its historical baseline.
- C. In Metrics Explorer, create an alerting policy based on the average request latency for the application's load balancer. Configure the alert to trigger if latency exceeds a predefined threshold.
- D. Create a custom dashboard in Cloud Monitoring that visualizes the SLO compliance percentage and the remaining error budget. Configure the dashboard to send a scheduled daily report through email.

정답: A

설명:

Comprehensive and Detailed 150 to 200 words of Explanation From Google Cloud DevOps guides documents:

In Site Reliability Engineering (SRE), the most effective way to manage an SLO is through Burn Rate Alerting. According to Google Cloud's SRE documentation, a burn rate is the speed at which the error budget is being consumed relative to the SLO's compliance period. Relying on simple threshold alerts (Option D) or manual dashboard checks (Option B) often leads to "alert fatigue" or missed signals because they do not account for the rate of depletion over time.

By creating an alerting policy in Cloud Monitoring specifically based on the burn rate, you can identify "fast burns" (sudden outages) and "slow burns" (gradual regressions like increased latency). The system calculates the projection; if the current rate of error budget consumption is high enough to exhaust the remaining budget before the end of the 30-day window, it triggers a proactive notification. This allows the team to intervene while they still have a portion of the error budget remaining, effectively preventing an SLO violation rather than merely reacting to one after the fact. This approach aligns perfectly with Google Cloud's recommended practices for automated, data-driven incident prevention.

질문 # 172

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