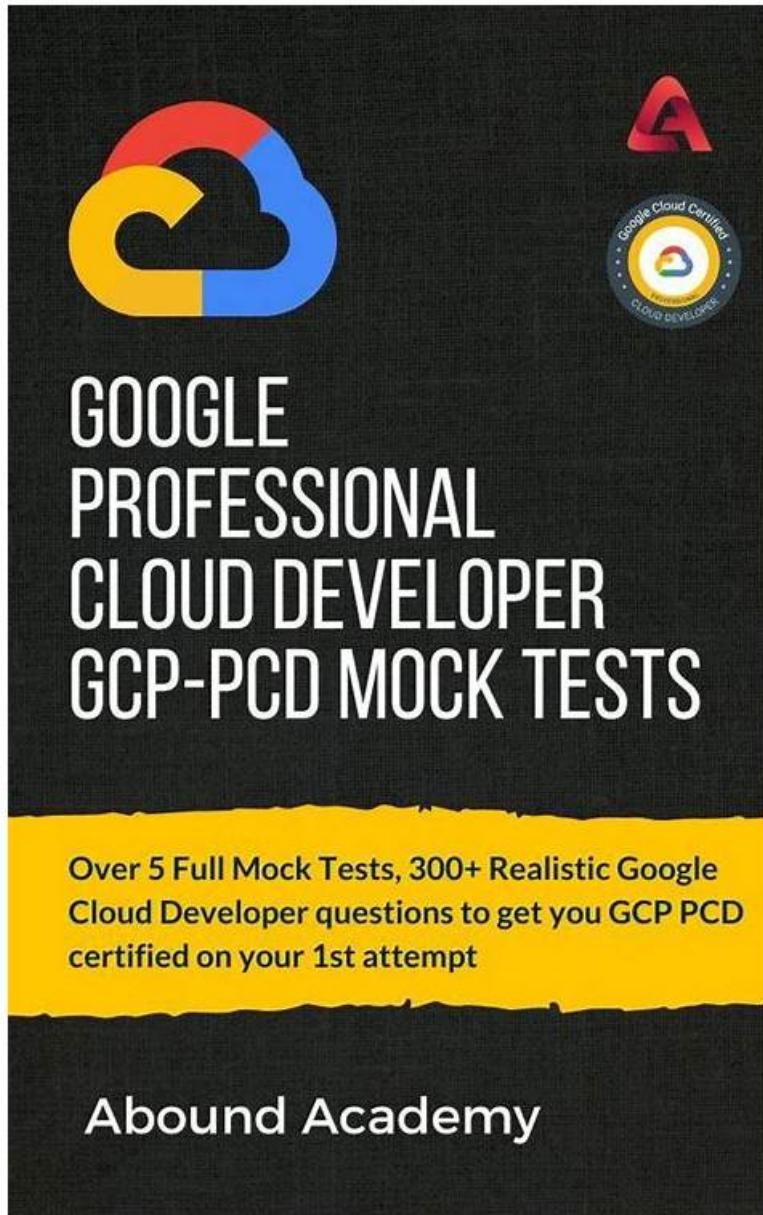


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Google Certified Professional - Cloud Developer Sample Questions (Q350-Q355):

NEW QUESTION # 350

You recently migrated an on-premises monolithic application to a microservices application on Google Kubernetes Engine (GKE). The application has dependencies on backend services on-premises, including a CRM system and a MySQL database that contains personally identifiable information (PII). The backend services must remain on-premises to meet regulatory requirements.

You established a Cloud VPN connection between your on-premises data center and Google Cloud. You notice that some requests from your microservices application on GKE to the backend services are failing due to latency issues caused by fluctuating bandwidth, which is causing the application to crash. How should you address the latency issues?

- A. Use Memorystore to cache frequently accessed PII data from the on-premises MySQL database
- B. Decrease the network layer packet size by decreasing the Maximum Transmission Unit (MTU) value from its default value on Cloud VPN
- C. Increase the number of Cloud VPN tunnels for the connection between Google Cloud and the on-premises services
- D. Use Istio to create a service mesh that includes the microservices on GKE and the on-premises services

Answer: C

Explanation:

<https://cloud.google.com/network-connectivity/docs/vpn/concepts/topologies#more-bandwidth> To increase the bandwidth of your HA VPN gateways, add more HA VPN tunnels.

NEW QUESTION # 351

You are deploying a Python application to Cloud Run using Cloud Source Repositories and Cloud Build. The Cloud Build pipeline is shown below:

□ You want to optimize deployment times and avoid unnecessary steps. What should you do?

- A. Add the --cache-from argument to the Docker build step in your build config file.
- B. Remove the step that pushes the container to Artifact Registry.
- C. Deploy a new Docker registry in a VPC, and use Cloud Build worker pools inside the VPC to run the build pipeline.
- D. Store image artifacts in a Cloud Storage bucket in the same region as the Cloud Run instance.

Answer: A

Explanation:

https://cloud.google.com/build/docs/optimize-builds/speeding-up-builds#using_a_cached_docker_image

NEW QUESTION # 352

You are deploying a microservices application to Google Kubernetes Engine (GKE) that will broadcast livestreams. You expect unpredictable traffic patterns and large variations in the number of concurrent users. Your application must meet the following requirements:

- Scales automatically during popular events and maintains high availability
- Is resilient in the event of hardware failures

How should you configure the deployment parameters? (Choose two.)

- A. Create alerting policies in Cloud Monitoring based on GKE CPU and memory utilization. Ask an on-duty engineer to scale the workload by executing a script when CPU and memory usage exceed predefined thresholds.
- B. Use cluster autoscaler to resize the number of nodes in the node pool, and use a Horizontal Pod Autoscaler to scale the workload.
- C. Distribute your workload evenly using multiple zonal node pools.
- D. Create a managed instance group for Compute Engine with the cluster nodes. Configure autoscaling rules for the managed instance group.
- E. Distribute your workload evenly using a multi-zonal node pool.

Answer: B,E

Explanation:

https://cloud.google.com/kubernetes-engine/docs/concepts/planning-scalability#choosing_multi-zonal_or_single-zone_node_pools

NEW QUESTION # 353

Your application is deployed on hundreds of Compute Engine instances in a managed instance group (MIG) in multiple zones. You need to deploy a new instance template to fix a critical vulnerability immediately but must avoid impact to your service. What setting should be made to the MIG after updating the instance template?

- A. Set the Update mode to Opportunistic.
- B. Set the Maximum Unavailable to 100%.
- C. Set the Max Surge to 100%.
- D. Set the Minimum Wait time to 0 seconds.

Answer: A

Explanation:

<https://cloud.google.com/compute/docs/instance-groups/rolling-out-updates-to-managed-instance-groups#type> Alternatively, if an automated update is potentially too disruptive, you can choose to perform an opportunistic update. The MIG applies an opportunistic update only when you manually initiate the update on selected instances or when new instances are created. New instances can be created when you or another service, such as an autoscaler, resizes the MIG. Compute Engine does not actively initiate requests to apply opportunistic updates on existing instances.

NEW QUESTION # 354

Your infrastructure team uses Terraform Cloud and manages Google Cloud resources by using Terraform configuration files. You want to configure an infrastructure as code pipeline that authenticates to Google Cloud APIs. You want to use the most secure approach and minimize changes to the configuration. How should you configure the authentication?

- A. Use Terraform on GKE. Create a Kubernetes service account to execute the Terraform code. Use workload identity federation to authenticate as the Google service account.
- B. Create a service account that has the required permissions to manage the Google Cloud resources, and import the service account key to Terraform Cloud. Use this service account to authenticate to the Google Cloud APIs.
- C. Install Terraform on a Compute Engine VM. Configure the VM by using a service account that has the required permissions to manage the Google Cloud resources.
- D. Configure Terraform Cloud to use Workload Identity Federation to authenticate to the Google Cloud APIs.

Answer: D

Explanation:

Workload identity federation is the most secure and recommended approach for authenticating to Google Cloud APIs without the

need to manage long-lived service account keys. By configuring Terraform Cloud to use workload identity federation, you can securely authenticate to Google Cloud APIs without having to export and manage service account keys. This approach minimizes the risk associated with key management and adheres to best practices for secure, short-lived, token-based authentication.

NEW QUESTION # 355

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