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### QUESTION 1

Your team has some new functionality that they want to roll out slowly so they can monitor for errors. The change contains some significant changes to the user interface. You've chosen to use traffic splitting to perform a canary deployment. You're going to start by rolling out the code to 15% of your users. How should you go about setting up traffic splitting?

- A. Deploy the new version. Split the traffic using an IP or cookie based distribution.
- B. Use the gcloud app deploy command with the distribution flag to deploy and split the traffic in one command.
- C. Deploy the new version using the no-promote flag. Split the traffic using a random distribution.
- D. Deploy the new version using the no-promote flag. Split the traffic using distribution.

Correct Answer: D

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### QUESTION 2

You are operating a Google Kubernetes Engine (GKE) cluster for your company where different teams can run non-production workloads. Your Machine Learning (ML) team needs access to Nvidia Tesla P100 GPUs to train their models. You want to minimize effort and cost. What should you do?

- A. Ask your ML team to add the "accelerator: gpu" annotation to their pod specification.
- B. Recreate all the nodes of the GKE cluster to enable GPUs on all of them.
- C. Create your own Kubernetes cluster on top of Compute Engine with nodes that have GPUs. Dedicate this cluster to your ML team.
- D. Add a new, GPU-enabled, node pool to the GKE cluster. Ask your ML team to add the cloud.google.com/gke-accelerator: nvidia-tesla-p100 nodeSelector to their pod specification.

Correct Answer: B

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### QUESTION 3

You are deploying an application to App Engine. You want the number of instances to scale based on request rate. You need at least 3 unoccupied instances at all times. Which scaling type should you use?

- A. Manual Scaling with 3 instances.
- B. Basic Scaling with min\_instances set to 3.
- C. Basic Scaling with max\_instances set to 3.
- D. Automatic Scaling with min\_idle\_instances set to 3.

Correct Answer: D

Reference: <https://cloud.google.com/appengine/docs/standard/python/how-instances-are-managed>

#### QUESTION 4

You have a website hosted on App Engine standard environment. You want 1% of your users to see a new test version of the website. You want to minimize complexity. What should you do?

- A. Deploy the new version in the same application and use the --migrate option.
- B. Deploy the new version in the same application and use the --splits option to give a weight of 99 to the current version and a weight of 1 to the new version.
- C. Create a new App Engine application in the same project. Deploy the new version in that application. Use the App Engine library to proxy 1% of the requests to the new version.
- D. Create a new App Engine application in the same project. Deploy the new version in that application. Configure your network load balancer to send 1% of the traffic to that new application.

Correct Answer: B

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#### QUESTION 5

Your company has an existing GCP organization with hundreds of projects and a billing account. Your company recently acquired another company that also has hundreds of projects and its own billing account. You would like to consolidate all GCP costs of both GCP organizations onto a single invoice. You would like to consolidate all costs as of tomorrow. What should you do?

- A. Link the acquired company's projects to your company's billing account.
- B. Configure the acquired company's billing account and your company's billing account to export the billing data into the same BigQuery dataset.
- C. Migrate the acquired company's projects into your company's GCP organization. Link the migrated projects to your company's billing account.
- D. Create a new GCP organization and a new billing account. Migrate the acquired company's projects and your company's projects into the new GCP organization and link the projects to the new billing account.

Correct Answer: D

Reference: <https://cloud.google.com/resource-manager/docs/migrating-projects-billing>

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#### QUESTION 6

You have created an application that is packaged into a Docker image. You want to deploy the Docker image as a workload on Google Kubernetes Engine. What should you do?

- A. Upload the image to Cloud Storage and create a Kubernetes Service referencing the image.
- B. Upload the image to Cloud Storage and create a Kubernetes Deployment referencing the image.
- C. Upload the image to Container Registry and create a Kubernetes Service referencing the image.

D. Upload the image to Container Registry and create a Kubernetes Deployment referencing the image.

Correct Answer: B

Reference: <https://cloud.google.com/kubernetes-engine/docs/tutorials/hello-app>

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#### QUESTION 7

You need to deploy an application, which is packaged in a container image, in a new project. The application exposes an HTTP endpoint and receives very few requests per day. You want to minimize costs. What should you do?

- A. Deploy the container on Cloud Run.
- B. Deploy the container on Cloud Run on GKE.
- C. Deploy the container on App Engine Flexible.
- D. Deploy the container on Google Kubernetes Engine, with cluster autoscaling and horizontal pod autoscaling enabled.

Correct Answer: B

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#### QUESTION 8

You are setting up a Windows VM on Compute Engine and want to make sure you can log in to the VM via RDP. What should you do?

- A. After the VM has been created, use your Google Account credentials to log in to the VM.
- B. After the VM has been created, use `gcloud compute reset-windows-password` to retrieve the login credentials for the VM.
- C. When creating the VM, add metadata to the instance using ``windows-password`` as the key and a password as the value.
- D. After the VM has been created, download the JSON private key for the default Compute Engine service account. Use the credentials in the JSON file to log in to the VM.

Correct Answer: D

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#### QUESTION 9

Your team has been working towards using desired state configuration for your entire infrastructure, which is why they're excited to store the Kubernetes Deployments in YAML. You created a Kubernetes Deployment with the `kubectl apply` command and passed on a YAML file. You need to edit the number of replicas. What steps should you take to update the Deployment?

- A. Edit the number of replicas in the YAML file and rerun the `kubectl apply`.
- B. Edit the YAML and push it to Github so that the git triggers deploy the change.

- C. Disregard the YAML file. Use the kubectl scale command.
- D. Edit the number of replicas in the YAML file and run the kubectl set image command.

Correct Answer: A

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#### QUESTION 10

Your company uses a large number of Google Cloud services centralized in a single project. All teams have specific projects for testing and development. The DevOps team needs access to all of the production services in order to perform their job. You want to prevent Google Cloud product changes from broadening their permissions in the future. You want to follow Google-recommended practices. What should you do?

- A. Grant all members of the DevOps team the role of Project Editor on the organization level.
- B. Grant all members of the DevOps team the role of Project Editor on the production project.
- C. Create a custom role that combines the required permissions. Grant the DevOps team the custom role on the production project.
- D. Create a custom role that combines the required permissions. Grant the DevOps team the custom role on the organization level.

Correct Answer: B

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#### QUESTION 11

Your company implemented BigQuery as an enterprise data warehouse. Users from multiple business units run queries on this data warehouse. However, you notice that query costs for BigQuery are very high, and you need to control costs. Which two methods should you use? (Choose two.)

- A. Split the users from business units to multiple projects.
- B. Apply a user- or project-level custom query quota for BigQuery data warehouse.
- C. Create separate copies of your BigQuery data warehouse for each business unit.
- D. Split your BigQuery data warehouse into multiple data warehouses for each business unit.
- E. Change your BigQuery query model from on-demand to flat rate. Apply the appropriate number of slots to each Project.

Correct Answer: BE

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#### QUESTION 12

Your company runs one batch process in an on-premises server that takes around 30 hours to complete. The task runs monthly, can be performed offline, and must be restarted if interrupted. You want to migrate this workload to the cloud while minimizing cost. What should you do?

- A. Migrate the workload to a Compute Engine Preemptible VM.

- B. Migrate the workload to a Google Kubernetes Engine cluster with Preemptible nodes.
- C. Migrate the workload to a Compute Engine VM. Start and stop the instance as needed.
- D. Create an Instance Template with Preemptible VMs On. Create a Managed Instance Group from the template and adjust Target CPU Utilization. Migrate the workload.

Correct Answer: B

Reference: <https://cloud.google.com/kubernetes-engine/docs/tutorials/migrating-node-pool>

### QUESTION 13

You want to deploy an application on Cloud Run that processes messages from a Cloud Pub/Sub topic. You want to follow Google-recommended practices. What should you do?

- A. 1. Create a Cloud Function that uses a Cloud Pub/Sub trigger on that topic.  
2. Call your application on Cloud Run from the Cloud Function for every message.
- B. 1. Grant the Pub/Sub Subscriber role to the service account used by Cloud Run.  
2.  
Create a Cloud Pub/Sub subscription for that topic.  
3.  
Make your application pull messages from that subscription.
- C. 1. Create a service account.  
2.  
Give the Cloud Run Invoker role to that service account for your Cloud Run application.  
3.  
Create a Cloud Pub/Sub subscription that uses that service account and uses your Cloud Run application as the push endpoint.
- D. 1. Deploy your application on Cloud Run on GKE with the connectivity set to Internal.  
2.  
Create a Cloud Pub/Sub subscription for that topic.  
3.  
In the same Google Kubernetes Engine cluster as your application, deploy a container that takes the messages and sends them to your application.

Correct Answer: D

#### QUESTION 14

Your data team is working on some new machine learning models. They're generating several files per day that they want to store in a regional bucket. They mostly focus on the files from the last week. However, they want to keep all the files just to base safe. With the fewest steps possible, what's the best way to lower the storage costs?

- A. Create a Cloud Function triggered when objects are added to a bucket. Look at the date on all the files and move it to nearline storage if it's older than a week.
- B. Create a Cloud Function triggered when objects are added to a bucket. Look at the date on all the files and move it to coldline storage if it's older than a week.
- C. Create a lifecycle policy to switch the objects older than a week to coldline storage.
- D. Create a lifecycle policy to switch the objects older than a week to nearline storage.

Correct Answer: D

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#### QUESTION 15

You're trying to provide temporary access to some files in a Cloud Storage bucket. You want to limit the time that the files are available to 10 minutes. With the fewest steps possible, what is the best way to generate a signed URL?

- A. In the UI select the objects and click the Generate Signed URL button.
- B. Create a service account and JSON key. Use the gsutil signurl -t 10m command and pass in the JSON key and bucket.
- C. In the UI select the objects and click the "Sign With Key" button.
- D. Create a service account and JSON key. Use the gsutil signurl -d 10m command and pass in the JSON key and bucket.

Correct Answer: D

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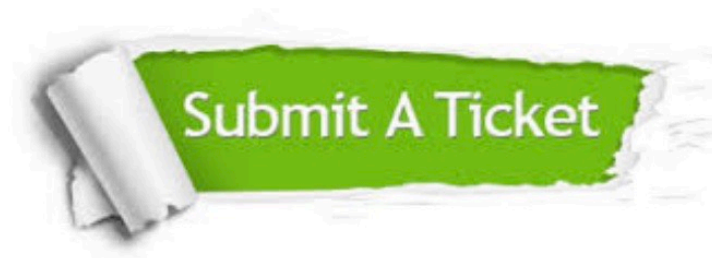
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