Answers :

<https://sites.google.com/view/gcpcertificationdream/certificaciones/cloudengineer/examenes-cloudengineer/examen-1?authuser=0>

<https://sites.google.com/view/gcpcertificationdream/certificaciones/cloudengineer/examenes-cloudengineer/examen-2?authuser=0>

Question 1 of 50

You're deploying an application to a Compute Engine instance, and it's going to need to make calls to read from Cloud Storage and Bigtable. You want to make sure you're following the principle of least privilege. This Compute Engine instance is the only instance in this project. What's the easiest way to ensure the code can authenticate to the required Google Cloud APIs?

A. Use the default Compute Engine service account and set its scopes. Let the code find the default service account using "Application Default Credentials".

B. Create a new service account and key with the required limited permissions. Set the instance to use the new service account. Edit the code to use the service account key.

C. Create a new user account with the required roles. Store the credentials in Cloud Key Management Service and download them to the instance in code.

D. Register the application with the Binary Registration Service and apply the required roles.

Question 2 of 50

You've created a new "Custom Role" for a specific new job role inside your company. The role consisted of several permissions; some had a status of "Supported" others a status of "Testing." The role has been working for weeks; however, some permissions recently stopped working. What is the most likely cause for this?

A. The custom role has reached its expiration period.

B. The latest Google applied updates reset all of the custom roles.

C. One or more permissions with a status of "Testing" have changed.

D. Your account has been compromised by hackers.

Question 3 of 50

Which of the following is a valid use case for using a primitive role?

A. When granting permission to a development project or to the development team.

B. When there are more than 10 users.

C. When creating a custom role requires more than 10 permissions.

D. When granting permission to a production project, or to a third-party company.

Question 4 of 50

Your team has chosen to use Deployment Manager to create the Compute Engine infrastructure for your application. You've already run the gcloud deployment-manager deployments create command to create the deployment.

You've updated 2 resources in the template and need to deploy the change. What command should you use?

A. gcloud deployment-manager resources apply

B. gcloud deployment-manager deployments update

C. gcloud deployment-manager resources update

D. gcloud deployment-manager deployments apply

Question 5 of 50

You have 3 Cloud Storage buckets that all store sensitive data. Which grantees should you audit to ensure that these buckets are not public?

A. allUsers

B. allAuthenticatedUsers

C. publicUsers

D. allUsers and allAuthenticatedUsers

Question 6 of 50

You need to create a new development Kubernetes cluster with 4 nodes. The cluster will be named linux-academy-dev-cluster. Which of the following truncated commands will create a cluster?

A. gcloud container clusters create linux-academy-dev-cluster --num-nodes 4

B. kubectl clusters create linux-academy-dev-cluster 4

C. kubectl clusters create linux-academy-dev-cluster --num-nodes 4

D. gcloud container clusters create linux-academy-dev-cluster 4

Question 7 of 50

You've setup and tested several custom roles in your development project. What is the fastest way to create the same roles for your new production project?

A. Recreate them in the new project.

B. Use the gcloud iam copy roles command and set the destination project.

C. In the UI, select the roles and click the Export button.

D. Use the gcloud iam roles copy command and set the destination project.

Question 8 of 50

What's the easiest way to ensure that the nodes in your Kubernetes cluster are always up-to-date with the latest stable version of Kubernetes?

A. Opt into the Kubernetes Node Update program from the quotas page.

B. Run the kubectl nodes update command.

C. Run the kubectl nodes upgrade command.

D. Enable the automatic node upgrades setting.

Question 8 of 50

What's the easiest way to ensure that the nodes in your Kubernetes cluster are always up-to-date with the latest stable version of Kubernetes?

A. Opt into the Kubernetes Node Update program from the quotas page.

B. Run the kubectl nodes update command.

C. Run the kubectl nodes upgrade command.

D. Enable the automatic node upgrades setting.

Question 9 of 50

Your boss has asked you to onboard a new user and provide them with access to their team's project. What set of steps best describes what needs to happen?

A. Add them as a member of the project, grant them the required roles, and sync the user back to G Suite.

B. Add the user inside of G Suite, create a user group inside of GCP IAM settings, and add them to that user group.

C. Add the user inside of G Suite, add them as a member of the project, and grant them the required roles.

D. Add the user inside of G Suite; sync from G Suite to the Active Directory using the Directory Sync util; add them as a member and grant them the required roles.

Question 10 of 50

You’ve found that your Linux server keeps running low on memory. It’s currently using 8 Gigs of memory, and you want to increase it to 16. What is the simplest way to do that?

A. Use the gcloud compute add-memory command to increase the memory.

B. Use the Linux memincr command to increase the memory.

C. Stop the instance and change the machine type.

D. Create a new instance with the correct amount of memory.

Question 11 of 50

You've been hired as a Cloud Engineer for a 2-year-old startup company. Recently they've had a bit of turn over, and several engineers have left the company to pursue different projects. Shortly after one of them leaves, it is found that a core project seems to have been deleted. What is the most likely cause for of the project's deletion?

A. You've been the victim of the latest malware that deletes one project per hour until you pay them to stop.

B. One of the engineers intentionally deleted the project out of spite.

C. The project was created by one of the engineers and not attached to the organization.

D. A failed attempt to pay the bill resulted in Google deleting the project.

Question 12 of 50

You're using Stackdriver to set up some alerts. You want to reuse your existing REST-based notification tools that your ops team has created. You want the setup to be as simple as possible to configure and maintain. Which notification option would be the best option?

A. Use a Slack bot to listen for messages posted by Google.

B. Send it to an email account that is being polled by a custom process that can handle the notification.

C. Send notifications via SMS and use a custom app to forward them to the REST API.

D. Webhooks

Question 13 of 50

Your security team has been reluctant to move to the cloud because they don't have the level of network visibility they're used to. Which feature might help them to gain insights into your Google Cloud network?

A. Routes

B. Subnets

C. Flow logs

D. Firewall rules

Question 14 of 50

You have a 20 GB file that you need to securely share with some contractors. They need it as fast as possible. Which steps would get them the file quickly and securely?

A. Using composite objects and parallel uploads to upload the file to Cloud Storage quickly. Then generate a signed URL and securely share it with the contractors.

B. Set up a VPC with a custom subnet. Create a subnet tunnel. Upload the file to a network share. Grant the contractors temporary access.

C. Upload the file to Bigtable using the bulk data import tool. Then provide the contractors with read access to the database.

D. Upload the file to Cloud Storage. Grant the allAuthenticated users token view permissions.

Question 15 of 50

You've uploaded some PDFs to a public bucket. When users browse to the documents, they're downloaded rather than viewed in the browser. How can we ensure that the PDFs are viewed in the browser?

A. This is a browser setting and not something that can be changed.

B. Use the gsutil set file-type pdfcommand.

C. Set the Content metadata for the object to "application/pdf".

D. Set the Content-Type metadata for the object to "application/pdf".

Question 16 of 50

You recently created a budget with alerts for a new project 2 days ago. The budget is set for $500, and the new project only contains a single low traffic App Engine application. Unlike the other projects which are highly used production environments.

You just received an email informing you that you’ve hit 50% of your budget.

What is the most likely reason for this notification?

A. You’ve experienced a billing glitch.

B. You set the budget to use the billing account rather than the project.

C. You’ve had a massive spike in App Engine traffic.

D. You’ve underestimated the costs associated with App Engine, Datastore, or other used services.

Question 17 of 50

Your team uses a third-party monitoring solution. They've asked you to deploy it to all nodes in your Kubernetes Engine Cluster. What's the best way to do that?

A. Connect to each node via SSH and install the monitoring solution.

B. Deploy the monitoring pod as a Deployment.

C. Deploy the monitoring pod as a DaemonSet.

D. Use Deployment Manager to deploy the monitoring solution.

Question 18 of 50

Regarding audit logs, which of the following is a Google recommended best practice?

A. Export your audit logs to App Engine.

B. Export your audit logs to Pub/Sub.

C. Flush your audit logs monthly so you can more easily notice security events.

D. Export your audit logs to Cloud Storage and store them for a long period of time.

Question 19 of 50

You and your team have been working on a new application over the past couple weeks. While it's still in development, it's becoming a bit costly for your limited budget. The entire team had a meeting on Friday to talk about how to save money until you're able to launch. One of your team members suggested shutting down some services overnight and during the weekend. Though no official decision was made before leaving for the weekend, a junior team member sent out an email saying he found a solution to the problem.

When arriving at the office on Monday, you find that your project is no longer in the drop-down inside the Console. What's the most likely reason for the missing project?

A. The project was moved to another account.

B. Your trial credits expired, and the project was removed.

C. The engineer removed the project and attached all of the resources directly to the Organization.

D. The engineer clicked the "shut down" link thinking it was like a light switch that he could toggle on and off.

Question 20 of 50

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.

Question 21 of 50

The development team needs a regional MySQL database with point-in-time recovery for a new proof-of-concept application. What's the most inexpensive way to enable point-in-time recovery?

A. Replicate to a Cloud Spanner database.

B. Create a read replica in the same region.

C. Enable binary logging.

D. Create hourly back-ups.

Question 22 of 50

You have several users who need access to some very specific Google Cloud functionality. You'd like to follow the principle of least privilege. What's the best way to ensure these users can list Cloud Storage buckets, list BigQuery jobs, and list compute disks?

A. Add the users to the viewer role.

B. Use the Cloud Storage Bucket Viewer, BigQuery Job User, and Compute User predefined roles.

C. Create a custom role for this job role, add the required permissions, and add the users to the role.

D. Add the users to a group, apply the Cloud Storage Bucket Viewer, BigQuery Job User, and Compute User predefined roles.

Question 23 of 50

You have a simple web application that you're trying to deploy in a secure and inexpensive way. The application is running inside a Docker container on port 8080. Once the application is initially deployed, the developers are going to take ownership of future deployments.

What is the best option for running the application?

A. Use an App Engine Standard Environment.

B. Use an App Engine Flexible Environment.

C. Use an on-premises Kubernetes cluster.

D. Use Kubernetes Engine.

Question 24 of 50

Your developers have some application metrics that they're tracking. They'd like to be able to create alerts based on these metrics. What steps need to happen in order to alert based on these metrics?

A. In the UI create a new logging metric with the required filters, edit the application code to set the metric value when needed, and create an alert in Stackdriver based on the new metric.

B. Create a custom monitoring metric in code, edit the application code to set the metric value when needed, create an alert in Stackdriver based on the new metric.

C. Add the Stackdriver monitoring and logging agent to the instances running the code.

D. Create a custom monitoring metric in code, in the UI create a matching logging metric, and create an alert in Stackdriver based on the new metric.

Question 25 of 50

You're working as a Cloud Engineer for a small company. The lead developer needs to create some new projects in order to get started with deploying the codebase. She tried to create a project and received an error. She messaged you on Slack to ask for help, though, she couldn't recall the exact error message.

You checked and found that she does have Project Creator permissions.

Keeping in mind the principle of least privilege, what is the best role to grant her so that she can create billable projects?

A. The "Billing Account Administrator" role.

B. The "Billing Account User" role.

C. The "Project Owner" role.

D. The "Billing Account Viewer" role.

Question 26 of 50

Your security team has asked you to present them some numbers based on the logs that are exported to BigQuery. Due to the team structure, your manager has asked you to determine how much the query will cost.

What's the best way to determine the cost?

A. It's not possible to estimate the cost of a query.

B. Create the query and execute the query in "cost estimation mode"

C. Create the query and use the dry-run option to determine the amount of data read, then use the price calculator to determine the cost.

D. Use the BigQuery index viewer to determine how many records you'll be reading.

Question 27 of 50

You're working on creating a script that can extract the IP address of a Kubernetes Service. Your coworker sent you a code snippet that they had saved. Which one is the best starting point for your code?

A. kubectl get svc -o filtered-json='{.items[\*].status.loadBalancer.ingress[0].ip}'

B. kubectl get svc -o jsonpath='{.items[\*].status.loadBalancer.ingress[0].ip}'

C. kubectl get svc -o html

D. kubectl get svc

Question 28 of 50

You’re working on setting up a cluster of virtual machines with GPUs to perform some 3D rendering for a customer. They’re on a limited budget and are looking for ways to save money. What is the best solution for implementing this?

A. Use an autoscaled managed instance group containing some preemptible instances.

B. Use an unmanaged instance group with preemptible instances.

C. Use App Engine with Flexible Environments.

D. Use App Engine with Standard Environments.

Question 29 of 50

Your coworker has helped you set up several configurations for gcloud. You've noticed that you're running commands against the wrong project. Being new to the company, you haven't yet memorized any of the projects. With the fewest steps possible, what's the fastest way to switch to the correct configuration?

A. Run gcloud configurations list followed by gcloud configurations activate.

B. Run gcloud config list followed by gcloud config activate.

C. Run gcloud config configurations list followed by gcloud config configurations activate.

D. Re-authenticate with the gcloud auth login command and select the correct configurations on login.

Question 30 of 50

Multi-answer: Select 2

You've run a command to start up 2 new instances. However, you do not see the instances in the console. What command(s) would help you to identify the cause of the problem?

A. gcloud debug

B. gcloud config list

C. gcloud auth login

D. gcloud info

Question 31 of 50

Your development team has asked you to set up an external TCP load balancer with SSL offload. Which load balancer should you use?

A. SSL proxy

B. HTTP load balancer

C. TCP proxy

D. HTTPS load balancer

Question 32 of 50

You've been tasked with getting all of your team's public SSH keys onto all of the instances of a particular project. You've collected them all. With the fewest steps possible, what is the simplest way to get the keys deployed?

A. Add all of the keys into a file that's formatted according to the requirements. Use the gcloud compute instances add-metadata command to upload the keys to each instance

B. Add all of the keys into a file that's formatted according to the requirements. Use the gcloud compute project-info add-metadata command to upload the keys.

C. Use the gcloud compute ssh command to upload all the keys

D. Format all of the keys as needed and then, using the user interface, upload each key one at a time.

Question 33 of 50

You're looking for the IP address of a specific instance that is running in your default zone. Which command and flag(s) could you use to return just the IP address?

A. The gcloud compute list along with the filter and format flags.

B. The gcloud compute list along with the o flag and jsonpath value.

C. The gcloud compute instances list along with the o flag and jsonpath value.

D. The gcloud compute instances list along with the filter and format flags.

Question 34 of 50

You're trying to create a new Compute Engine instance with the Cloud SDK using the create command from the compute group and the instances sub-group. You've forgotten some of the flags and want to look them up using the man pages. Which command will display the documentation you need?

A. man compute\_instances\_create

B. man gcloud-compute-instances-create

C. man gcloud\_compute\_instances\_create

D. man gcloud compute instances create

Question 35 of 50

You're attempting to run the following command on your coworker's computer, and it throws an error "Invalid choice 'alpha'":

$ gcloud alpha cloud-shell scp --help

What is the most likely reason for this error?

A. The cloud-shell command was moved from alpha to beta.

B. The user account doesn't have permission to execute alpha commands.

C. The project property is set to the wrong project.

D. The alpha component isn't installed.

Question 36 of 50

Multi-answer: Select 2

Your boss has asked you to set up the CFO as a user inside Google Cloud. Before walking away, she said, "And obviously you know which role to assign him."

Which role was she likely talking about, and why is it obvious? (Select one role and one reason)

A. Reason: This role will ensure the CFO has full access to the project.

B. Role: Billing Account Viewer

C. Reason: This role will ensure the CFO has access to view the spending data.

D. Role: Project Owner

E. Role: Billing Account Admin

F. Reason:: This role will ensure the CFO can perform any billing task that they may need.

Question 37 of 50

Your developers have created an application that needs to be able to make calls to Cloud Storage and BigQuery. The code is going to run inside a container and will run on Kubernetes Engine and on-premises.

What's the best way for them to authenticate to the Google Cloud services?

A. Create a service account, grant it the least viable privileges to the required services, generate and download a key. Use the key to authenticate inside the application.

B. Use the default service account for App Engine which already has the required permissions.

C. Use the default service account for Compute Engine which already has the required permissions.

D. Create a service account, with editor permissions, generate and download a key. Use the key to authenticate inside the application.

Question 38 of 50

Your security team wants to be able to audit network traffic inside of your network. Which feature would you enable/disable to achieve this objective?

A. Disable flow logs.

B. Enable flow logs.

C. Add them to the Subnet Traffic Viewer role.

D. Add a firewall capture filter.

Question 39 of 50

You've seen some errors in the logs for a specific Deployment. You've narrowed the issue down to the Pod named "ad-generator" that is throwing the errors. Your engineers aren't able to reproduce the error in any other environment. They've told you that if they could just "connect into the container" for 5 minutes, they could figure out the root cause. What steps would allow them to run commands against the container?

A. Use the kubectl exec -it ad-generator -- /bin/bash command to run a shell on that container.

B. Use the kubectl exec -it -- /bin/bash command to run a shell on that container.

C. Use the kubectl run command to run a shell on that container.

D. Use the kubectl run ad-generator /bin/bash command to run a shell on that container.

Question 40 of 50

30 minutes ago you created a log sink that exports all of your project audit logs to Cloud Storage. You can see in the log viewer that there are new records. However, you're not seeing them in your Storage Bucket.

What is the most likely cause?

A. Cloud Storage isn't a supported destination.

B. Each log sink destination has its own time window for saving the data.

C. The Cloud Storage Bucket doesn't have the correct permissions.

D. You forgot to enable the sink inside the Cloud Storage UI.

Question 41 of 50

You've been running your App Engine app for a few weeks with Autoscaling, and it's been working well. However, your marketing team is planning on a massive campaign, and they expect a lot of burst traffic. How would you go about ensuring there are always 4 idle instances?

A. Set the min\_instances property in the app.yaml,

B. Switch to manual scaling and use the burst\_traffic\_protection property to True in the app.yaml.

C. Set the min\_idle\_instances property in the app.yaml.

D. Switch to manual scaling and use the idle\_instance\_count property in the app.yaml.

Question 42 of 50

You've been running App Engine applications in a Standard Environment for a few weeks. With several successful deployments, you've just deployed a broken version, and the developers have gone home for the day. What is the fastest way to get the site back into a functioning state?

A. Have the developers fix the issue and deploy.

B. Use the gcloud app rollback command.

C. In the UI, click Traffic Splitting and direct 100% of the traffic to the previous version.

D. In the UI, click the Rollback button on the versions page.

Question 43 of 50

Your developers are trying to select the best cloud service to run a static website. They have a dozen HTML pages, a few Javascript files, and some CSS. They need the site to be highly available for the few weeks it is running. They also have a limited budget.

What is the best service to use to run the site?

A. Kubernetes Engine

B. Compute Engine

C. Cloud Storage

D. App Engine

Question 44 of 50

You've created a new firewall rule to allow incoming traffic on port 22, using a target tag of "dev-ssh". You tried to connect to one of your instances, and you're still unable to connect. What steps do you need to take to resolve the problem?

A. Run the gcloud firewall-rules refresh command.

B. Use source tags in place of the target tags.

C. Reboot the instances for the firewall rule to take effect.

D. Apply a network tag of "dev-ssh" to the instance you're trying to connect into and test again.

Question 45 of 50

You're migrating an on-premises application to Google Cloud. The application uses a component that requires a licensing server. The license server has the IP address 10.28.0.10. You want to deploy the application without making any changes to the code or configuration. How should you go about deploying the application?

A. Create a subnet with a CIDR range of 10.28.0.0/28. Reserve a static internal IP address of 10.28.0.10. Assign the static address to the license server instance.

B. Create a subnet with a CIDR range of 10.28.0.0/28. Reserve a static external IP address of 10.28.0.10. Assign the static address to the license server instance.

C. Create a subnet with a CIDR range of 10.28.0.0/10. Reserve a static external IP address of 10.28.0.10. Assign the static address to the license server instance.

D. Create a subnet with a CIDR range of 10.28.0.0/29. Reserve a static internal IP address of 10.28.0.10. Assign the static address to the license server instance.

Question 46 of 50

You have an App Engine application serving as your front-end. It's going to publish messages to Pub/Sub. The Pub/Sub API hasn't been enabled yet. What is the fastest way to enable the API?

A. Use a service account to auto-enable the API.

B. Enable the API in the Console.

C. Application's in App Engine don't require external APIs to be enabled.

D. The API will be enabled the first time the code attempts to access Pub/Sub.

Question 47 of 50

Your team has created 4 projects, one for each distinct application. You have a single budget for all of these projects. What is the best way to pay for all of these projects?

A. Create a Billing Account for each project.

B. Use an invoiced account, which will pay for all projects inside a Google Cloud account.

C. Use a single Billing Account linked to all 4 projects.

D. Use a single Billing Account linked to the Google Cloud account.

Question 48 of 50

Your team is developing a product catalog that allows end users to search and filter. The full catalog of products consists of about 500 products. The team doesn't have any experience with SQL, or schema migrations, so they're considering a NoSQL option.

Which database service would work best?

A. Cloud SQL

B. Cloud Memorystore

C. Bigtable

D. Cloud Datastore

Question 49 of 50

You're using a Pub/Sub topic to publish disparate messages from an on-premises application. You're looking for a simple way to run some code every time a message is published. What is the simplest, lowest cost, and most CPU friendly solution?

A. Use a scheduled task that starts an App Engine application to poll for changes.

B. Use a scheduled Cloud Function to check the queue every minute.

C. Deploy code to Compute Engine that polls for messages.

D. Have Pub/Sub push messages to a Cloud Function.

Question 50 of 50

Your developers are trying to connect to an Ubuntu server over SSH to diagnose some errors. However, the connection times out. Which command should help solve the problem?

A. gcloud compute firewall-rules create "open-ssh" --network $NETWORK --allow tcp:22

B. gcloud compute firewall-rules create "open-ssh"

C. gcloud compute firewall-rules create "open-ssh" --network $NETWORK --deny tcp:22

D. gcloud compute firewall-rules create "open-ssh" --network $NETWORK --allow tcp:3389

Question 51

Single-answer

Your coworker created a deployment for your application container. You can see the deployment under Workloads in the console. They're out for the rest of the week, and your boss needs you to complete the setup by exposing the workload.

What's the easiest way to do that?

A. Create a new Service that points to the existing deployment.

B. Create a new DaemonSet.

C. Create a Global Load Balancer that points to the pod in the deployment.

D. Create a Static IP Address Resource for the Deployment.

Question 52

Single-answer

You need to connect to one of your Compute Engine instances using SSH. You've already authenticated gcloud, however, you don't have an SSH key deployed yet. In the fewest steps possible, what's the easiest way to connect to the app?

A. Create a key with the ssh-keygen command. Upload the key to the instance. Run gcloud compute instances list to get the IP address of the instance, then use the ssh command.

B. Use the gcloud compute ssh command.

C. Create a key with the ssh-keygen command. Then use the gcloud compute ssh command.

D. Run gcloud compute instances list to get the IP address of the instance, then use the ssh command.

Question 53

Single-answer

You've been trying to deploy a container to Kubernetes; however, kubectl doesn't seem to be able to connect to the cluster. Of the following, what is the most likely cause and how can you fix it?

A. The kubeconfig is missing the credentials. Run the gcloud container clusters get-credentials command.

B. The firewall rules are preventing the connection. Open up the firewall rules to allow traffic to port 1337.

C. The kubeconfig is missing the credentials. Run the gcloud container clusters auth login command.

D. The firewall rules are preventing the connection. Open up the firewall rules to allow traffic to port 3682

Question 54

Single-answer

Your team is working on designing an IoT solution. There are thousands of devices that need to send periodic time series data for processing. Which services should be used to ingest and store the data?

A. Pub/Sub, Datastore

B. Pub/Sub, Dataproc

C. Dataproc, Bigtable

D. Pub/Sub, Bigtable

Question 55

Single-answer

You're attempting to deploy a new instance that uses the centos 7 family. You can't recall the exact name of the family. Which command could you use to determine the family names?

A. gcloud compute instances list

B. gcloud compute images show-families

C. gcloud compute instances show-families

D. gcloud compute images list

Question 56

Single-answer

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 cookie based distribution.

D. Deploy the new version using the no-promote flag. Split the traffic using a random distribution.

Question 57

Single-answer

Your company has hired a third-party analytics company to help find patterns in user data. Your development team has generated a file containing only the data they've requested; which includes personally identifiable information.

What is the best way to share the data with the other company?

A. Create a new user for the company and grant them access to the original data source for them to query.

B. Send the file through email.

C. Put the data on Cloud Storage and generate a signed URL that will expire in one hour, and securely share the URL.

D. Put the data on Cloud Storage in a public bucket and securely share the URL.

Question 58

Single-answer

You have an autoscaled managed instance group that is set to scale based on CPU utilization of 60%. There are currently 3 instances in the instance group. You're connected to one of the instances and notice that the CPU usage is a 70%. However, the instance group isn't starting up another instance. What's the most likely reason?

A. The autoscaler is disabled.

B. The autoscaler takes 60 seconds before creating a new instance.

C. The load balancer doesn't recognize the instance as healthy.

D. The average CPU for the entire instance group is below 60%.

Question 59

Single-answer

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.

Question 60

Single-answer

You're attempting to remove the zone property from the Compute Engine service, that was set with the incorrect value. Which command would accomplish your task?

A. gcloud config unset compute/zone

B. gcloud config unset zone

C. gcloud config configurations unset compute/zone

D. gcloud unset compute/zone

Question 61

Single-answer

You have an App Engine application running in us-east1. You've noticed 90% of your traffic comes from the West Coast. You'd like to change the region. What's the best way to change the App Engine region?

A. Use the gcloud app region set command and supply the name of the new region.

B. Contact Google Cloud Support and request the change.

C. From the console, under the App Engine page, click edit, and change the region drop-down.

D. Create a new project and create an App Engine instance in us-west2.

Question 62

Single-answer

You have a Linux server running on a custom network. There's an allow firewall rule with an IP filter of 0.0.0.0/0 with a protocol/port of tcp:22. The logs on the instance show a constant stream of attempts from different IP addresses, trying to connect via SSH. You suspect this is a brute force attack.

How might you change the firewall rule to stop this from happening and still enable access for legit users?

A. Stop the instance.

B. Deny all traffic to port 22.

C. Change the port that SSH is running on in the instance and change the port number in the firewall rule.

D. Change the IP address range in the filter to only allow known IP addresses

Question 63

Single-answer

You've been asked to help onboard a new member of the big-data team. They need full access to BigQuery. Which type of role would be the most efficient to set up while following the principle of least privilege?

A. Primitive Role

B. Custom Role

C. Managed Role

D. Predefined Role

Question 64

Single-answer

You’ve just enabled an API for the developers. A couple of minutes later, one of the developers pastes a screenshot into Slack.

The screenshot indicates that the API isn't enabled. You can see that the project ID is correct. What is the most likely reason for this error?

A. The API hasn't completed the process to become fully enabled yet.

B. The developer is using the wrong project.

C. The developer didn't run the gcloud refresh api command.

D. The developer is trying to use the wrong API.

Question 65

Single-answer

You keep attempting to execute a command, and while there's no error being thrown, you suspect something is going wrong. You want to check out the gcloud logs. However, you can't recall in which directory they're located. Your script skills are not what they could be, so you can't rely on using those fancy command line skills.

Which command could you run to show you where the log directory is located?

A. google logs

B. gcloud info

C. gcloud logging

D. gcloud

Question 66

Single-answer

A member of the finance team informed you that one of the projects is using the old billing account. What steps should you take to resolve the problem?

A. Go to the Project page; expand the Billing tile; select the Billing Account option; select the correct billing account and save.

B. Go to the Billing page; view the list of projects; find the project in question and select Change billing account; select the correct billing account and save.

C. Delete the project and recreate it with the correct billing account.

D. Submit a support ticket requesting the change.

Question 67

Multi-answer: Select 2

What must you do before you create an instance with a GPU?

A. You must make sure that the appropriate GPU driver is installed.

B. You must select which boot disk image you want to use for the instance.

C. Nothing. GPU drivers are automatically included with the boot disk images.

D. You must only select the GPU driver type. The correct base image is selected automatically.

Question 68

Single-answer

You've installed the Cloud SDK natively on your Mac. You'd like to install the kubectl component. Which command would accomplish this?

A. sudo apt-get install kubectl

B. gcloud components install kubectl

C. pip install kubectl

D. brew install kubectl

Question 69

Single-answer

You need to help a developer install the App Engine Go extensions. However, you've forgotten the exact name of the component. Which command could you run to show all of the available options?

A. gcloud config list

B. gcloud component list

C. gcloud config components list

D. gcloud components list

Question 70

Your engineers need to pass database credentials to a Kubernetes Pod. The YAML they're using looks similar to the following:

apiVersion: "extensions/v1beta1"

kind: "Deployment"

metadata:

name: "products-service"

namespace: "default"

labels:

app: "products-service"

spec:

replicas: 3

selector:

matchLabels:

app: "products-service"

template:

metadata:

labels:

app: "products-service"

spec:

containers:

- name: "products"

image: "gcr.io/find-seller-app-dev/products:latest"

env:

- name: "database\_user"

value: "admin"

- name: "database\_password"

value: "TheB3stP@ssW0rd"

What is Google's recommended best practice for working with sensitive information inside of Kubernetes?

A. Store the credentials in a ConfigMap.

B. Mount the credentials in a volume.

C. Use an environment variable.

D. Store the credentials in a Secret.

Question 71

Single-answer

Your development team has asked for your help. They need a simple, reproducible way to create and terminate a new Compute Engine instance so that they can automate it as a part of their CI/CD process. What is the best option for accomplishing that?

A. Show them how to use the Console to create and terminate instances.

B. Recommend that they use the REST API to develop the functionality in the language of their choosing.

C. Show them how to use the gcloud component of the Cloud SDK.

D. Show them how to use a Docker container. Then they can get rid of the need for the VM.

Question 72

Single-answer

Your development team has asked for your help. They need a simple, reproducible way to create and terminate a new Compute Engine instance so that they can automate it as a part of their CI/CD process. What is the best option for accomplishing that?

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C. Show them how to use the gcloud component of the Cloud SDK.

D. Show them how to use a Docker container. Then they can get rid of the need for the VM.

Question 73

Single-answer

You're attempting to set the default Compute Engine zone with the Cloud SDK. Which of the following commands would work?

A. gcloud set compute/zone us-east1

B. gcloud set compute\zone us-east1

C. gcloud config set compute\zone us-east1

D. gcloud config set compute/zone us-east1-c

Question 74

Single-answer

You've set up an instance inside your new network and subnet. Your firewall rules are set to target all instances in your network. You have the following firewall rules.

NAME:deny-all | NETWORK:devnet | DIRECTION:INGRESS | PRIORITY:1000 | DENY:tcp:0-65535,udp:0-6553 NAME:open-ssh | NETWORK:devnet | DIRECTION:INGRESS | PRIORITY:5000 | ALLOW:tcp:22

However, when you attempt to connect to your instance via SSH, your connection is timing out.

What is the most likely cause?

A. Your instance needs to be rebooted.

B. The SSH key hasn't been uploaded to the instance.

C. The firewall rule needs to be applied to the instance specifically.

D. The deny rule overrides the allow rule.

Question 75

Single-answer

You've been asked to add a new IAM member and grant them access to run some queries on BigQuery. Considering the principle of least privilege, which role should you assign?

A. roles/bigquery.dataViewer and roles/bigquery.jobUser

B. Project Editor

C. roles/bigquery.admin

D. roles/bigquery.dataOwner

Question 76

Single-answer

Your company created an application that just went viral. Based on the current traffic, your team is expecting to need 12 Standard-2 instances to handle the traffic for next month. What’s the easiest way to estimate how much that is going to cost?

A. Use a billing alert.

B. Contact Google Support.

C. Export the billing logs to BigQuery for analysis.

D. Use the price calculator.

Question 77

Single-answer

While looking at your application's source code in your private Github repo, you've noticed that a service account key has been committed to git. What steps should you take next?

A. Revoke the key, remove the key from Git, purge the Git history to remove all traces of the file, ensure the key is added to the .gitignore file.

B. Delete the project and create a new one.

C. Do nothing. Git is fine for keys if the repo is private.

D. Contact Google Cloud Support

Question 78

Single-answer

Your finance team is working with the engineering team to try and determine your spending for each service by day and month across all projects used by the billing account. What is the easiest and most flexible way to aggregate and analyze the data?

A. Export the data for the billing account(s) involved to BigQuery; then use BigQuery to analyze the service data for the desired projects, by day and month.

B. Export the data for the billing account(s) involved to a JSON File; use a Cloud Function to listen for a new file in the Storage bucket; code the function to analyze the service data for the desired projects, by day and month.

C. Export the data for the billing account(s) to File, import the files into a SQL database; then use BigQuery to analyze the service data for the desired projects, by day and month.

D. Use the built-in reports which already show this data.

Question 79

Single-answer

You've just created a new Google Cloud account. You're eager to start working with resources such as App Engine and Cloud Storage. However, you know that resources have requirements.

Which of the following is required by Google Cloud in order to enable and use resources?

A. A Stackdriver account

B. An Organization

C. A Project

D. A Folder

Question 80

Your manager needs you to test out the latest version of MS-SQL on a Windows instance. You've

created the VM and need to connect into the instance. What steps should you follow to connect to the

instance?

**A. Generate a Windows password in the console, then use a client capable of communicating via RDP**

**and provide the credentials.**

B. Generate a Windows password in the console, then use the RDP button to connect in through the

console.

C. Connect in with your own RDP client using your Google Cloud username and password.

D. From the console click the SSH button to automatically connect.

Question 81

Your team has been working on building a web application. The plan is to deploy to Kubernetes. You

currently have a Dockerfile that works locally. How can you get the application deployed to Kubernetes?

A. Use kubectl to push the convert the Dockerfile into a deployment.

B. Use docker to create a container image, save the image to Cloud Storage, deploy the uploaded image

to Kubernetes with kubectl.

C. Use kubectl apply to push the Dockerfile to Kubernetes.

**D. Use docker to create a container image, push it to the Google Container Registry, deploy the**

**uploaded image to Kubernetes with kubectl.**

Question 82

4. You have a Cloud Storage bucket that needs to host static web assets. How do you make the bucket

public?

A. Trick question. Don't ever make a bucket public.

B. Check the "make public" box in the UI.

**C. Set allUsers to have the Storage Object Viewer role.**

D. gsutil make-public gs://bucket-name

Question 83

2. Your coworker has helped you set up several configurations for gcloud. You've noticed that you're

running commands against the wrong project. Being new to the company, you haven't yet memorized any

of the projects. With the fewest steps possible, what's the fastest way to switch to the correct

configuration?

A. Run gcloud configurations list followed by gcloud configurations activate.

B. Run gcloud config list followed by gcloud config activate.

C. Run gcloud config configurations list followed by gcloud config configurations activate.

Question 84

5. You've created a Pod using the kubectl run command. Now you're attempting to remove the Pod, and it

keeps being recreated. Which command might help you as you attempt to remove the pod?

A. gcloud container describe pods

B. kubectl get pods

C. kubectl get secrets

D. kubectl get deployments

Question 85

9. You're attempting to set up a new budget with some alerts. Your team lead asked you to use

last months spending as a reference for the budget amount. What's the best way to configure this

budget?

A. Locate the spending data from the File export; use that as the budget amount.

B. Locate the spending data from the BigQuery export; use that as the budget amount.

C. Look at the spending data and locate the amount; use that as the budget amount.

D. Use the "Last month's spend" option to allow Google Cloud to determine the budget amount.

Question 86

6. You're attempting to set up a File based Billing Export. Which of the following components are required?

A. A Cloud Storage bucket.

B. A BigQuery dataset.

C. A report prefix.

D. A Budget and at least one alert.

Question 87

5. You've been asked to add Martha Jones as a member of the "Production Storefront App" project; Using

the email address *martha.jones@tardis.com* with the App Engine Admin role. You browse to the IAM page in

the console and attempt to add her, however, you get the following error.

*"Email addresses and domains must be associated with an active Google Account or Google Apps account."*

What's the most likely cause for this error?

A. Martha has already been added as a to this project as a different member.

C. Martha hasn't been added as a user inside the Company's G Suite account

D. Martha has an outstanding bill with Google and can't be added until the bill is paid

Ouestion 87

10. You're deploying an application to a Compute Engine instance, and it's going to need to make calls to

read from Cloud Storage and Bigtable. You want to make sure you're following the principle of least

privilege. What's the easiest way to ensure the code can authenticate to the required Google Cloud APIs?

A. Create a new user account with the required roles. Store the credentials in Cloud Key Management

Service and download them to the instance in code.

B. Use the default Compute Engine service account and set its scopes. Let the code find the default

service account using "Application Default Credentials".

C. Create a new service account and key with the required limited permissions. Set the instance to use

the new service account. Edit the code to use the service account key.

D. Register the application with the Binary Registration Service and apply the required roles.