

Google

Exam Questions Associate-Cloud-Engineer

Google Cloud Certified - Associate Cloud Engineer



NEW QUESTION 1

You recently discovered that your developers are using many service account keys during their development process. While you work on a long term improvement, you need to quickly implement a process to enforce short-lived service account credentials in your company. You have the following requirements:

- All service accounts that require a key should be created in a centralized project called pj-sa.
- Service account keys should only be valid for one day.

You need a Google-recommended solution that minimizes cost. What should you do?

- A. Implement a Cloud Run job to rotate all service account keys periodically in pj-s
- B. Enforce an org policy to deny service account key creation with an exception to pj-sa.
- C. Implement a Kubernetes Cronjob to rotate all service account keys periodical
- D. Disable attachment of service accounts to resources in all projects with an exception to pj-sa.
- E. Enforce an org policy constraint allowing the lifetime of service account keys to be 24 hour
- F. Enforce an org policy constraint denying service account key creation with an exception on pj-sa.
- G. Enforce a DENY org policy constraint over the lifetime of service account keys for 24 hour
- H. Disable attachment of service accounts to resources in all projects with an exception to pj-sa.

Answer: C

Explanation:

According to the Google Cloud documentation, you can use organization policy constraints to control the creation and expiration of service account keys. The constraints are:

➤ constraints/iam.allowServiceAccountKeyCreation: This constraint allows you to specify which projects or folders can create service account keys. You can set the value to true or false, or use a condition to apply the constraint to specific service accounts. By setting this constraint to false for the organization and adding an exception for the pj-sa project, you can prevent developers from creating service account keys in other projects.

➤ constraints/iam.serviceAccountKeyMaxLifetime: This constraint allows you to specify the maximum lifetime of service account keys. You can set the value to a duration in seconds, such as 86400 for one day. By setting this constraint to 86400 for the organization, you can ensure that all service account keys expire after one day.

These constraints are recommended by Google Cloud as best practices to minimize the risk of service account key misuse or compromise. They also help you reduce the cost of managing service account keys, as you do not need to implement a custom solution to rotate or delete them.

References:

- 1: Associate Cloud Engineer Certification Exam Guide | Learn - Google Cloud
- 5: Create and delete service account keys - Google Cloud
- Organization policy constraints for service accounts

NEW QUESTION 2

Your organization uses Active Directory (AD) to manage user identities. Each user uses this identity for federated access to various on-premises systems. Your security team has adopted a policy that requires users to log into Google Cloud with their AD identity instead of their own login. You want to follow the Google-recommended practices to implement this policy. What should you do?

- A. Sync Identities with Cloud Directory Sync, and then enable SAML for single sign-on
- B. Sync Identities in the Google Admin console, and then enable OAuth for single sign-on
- C. Sync identities with 3rd party LDAP sync, and then copy passwords to allow simplified login with the same credentials
- D. Sync identities with Cloud Directory Sync, and then copy passwords to allow simplified login with the same credentials.

Answer: A

NEW QUESTION 3

You need to monitor resources that are distributed over different projects in Google Cloud Platform. You want to consolidate reporting under the same Stackdriver Monitoring dashboard. What should you do?

- A. Use Shared VPC to connect all projects, and link Stackdriver to one of the projects.
- B. For each project, create a Stackdriver account
- C. In each project, create a service account for that project and grant it the role of Stackdriver Account Editor in all other projects.
- D. Configure a single Stackdriver account, and link all projects to the same account.
- E. Configure a single Stackdriver account for one of the project
- F. In Stackdriver, create a Group and add the other project names as criteria for that Group.

Answer: C

Explanation:

When you initially click on Monitoring(Stackdriver Monitoring) it creates a workspace(a stackdriver account) linked to the ACTIVE(CURRENT) Project from which it was clicked.

Now if you change the project and again click onto Monitoring it would create another workspace(a stackdriver account) linked to the changed ACTIVE(CURRENT) Project, we don't want this as this would not consolidate our result into a single dashboard(workspace/stackdriver account).

If you have accidentally created two diff workspaces merge them under Monitoring > Settings > Merge Workspaces > MERGE.

If we have only one workspace and two projects we can simply add other GCP Project under Monitoring > Settings > GCP Projects > Add GCP Projects.

<https://cloud.google.com/monitoring/settings/multiple-projects>

Nothing about groups <https://cloud.google.com/monitoring/settings?hl=en>

NEW QUESTION 4

You will have several applications running on different Compute Engine instances in the same project. You want to specify at a more granular level the service account each instance uses when calling Google Cloud APIs. What should you do?

- A. When creating the instances, specify a Service Account for each instance
- B. When creating the instances, assign the name of each Service Account as instance metadata

- C. After starting the instances, use gcloud compute instances update to specify a Service Account for each instance
- D. After starting the instances, use gcloud compute instances update to assign the name of the relevantService Account as instance metadata

Answer: A

Explanation:

https://cloud.google.com/compute/docs/access/service-accounts#associating_a_service_account_to_an_instance

NEW QUESTION 5

Your learn wants to deploy a specific content management system (CMS) solution lo Google Cloud. You need a quick and easy way to deploy and install the solution. What should you do?

- A. Search for the CMS solution in Google Cloud Marketplac
- B. Use gcloud CLI to deploy the solution.
- C. Search for the CMS solution in Google Cloud Marketplac
- D. Deploy the solution directly from Cloud Marketplace.
- E. Search for the CMS solution in Google Cloud Marketplac
- F. Use Terraform and the Cloud Marketplace ID to deploy the solution with the appropriate parameters.
- G. Use the installation guide of the CMS provide
- H. Perform the installation through your configuration management system.

Answer: B

NEW QUESTION 6

You have a developer laptop with the Cloud SDK installed on Ubuntu. The Cloud SDK was installed from the Google Cloud Ubuntu package repository. You want to test your application locally on your laptop with Cloud Datastore. What should you do?

- A. Export Cloud Datastore data using gcloud datastore export.
- B. Create a Cloud Datastore index using gcloud datastore indexes create.
- C. Install the google-cloud-sdk-datastore-emulator component using the apt get install command.
- D. Install the cloud-datastore-emulator component using the gcloud components install command.

Answer: D

Explanation:

➤ The Datastore emulator provides local emulation of the production Datastore environment. You can use the emulator to develop and test your application locallyRef: <https://cloud.google.com/datastore/docs/tools/datastore-emulator>

NEW QUESTION 7

You have an on-premises data analytics set of binaries that processes data files in memory for about 45 minutes every midnight. The sizes of those data files range from 1 gigabyte to 16 gigabytes. You want to migrate this application to Google Cloud with minimal effort and cost. What should you do?

- A. Upload the code to Cloud Function
- B. Use Cloud Scheduler to start the application.
- C. Create a container for the set of binarie
- D. Use Cloud Scheduler to start a Cloud Run job for the container.
- E. Create a container for the set of binaries Deploy the container to Google Kubernetes Engine (GKE) and use the Kubernetes scheduler to start the application.
- F. Lift and shift to a VM on Compute Engin
- G. Use an instance schedule to start and stop the instance.

Answer: B

NEW QUESTION 8

You are designing an application that lets users upload and share photos. You expect your application to grow really fast and you are targeting a worldwide audience. You want to delete uploaded photos after 30 days. You want to minimize costs while ensuring your application is highly available. Which GCP storage solution should you choose?

- A. Persistent SSD on VM instances.
- B. Cloud Filestore.
- C. Multiregional Cloud Storage bucket.
- D. Cloud Datastore database.

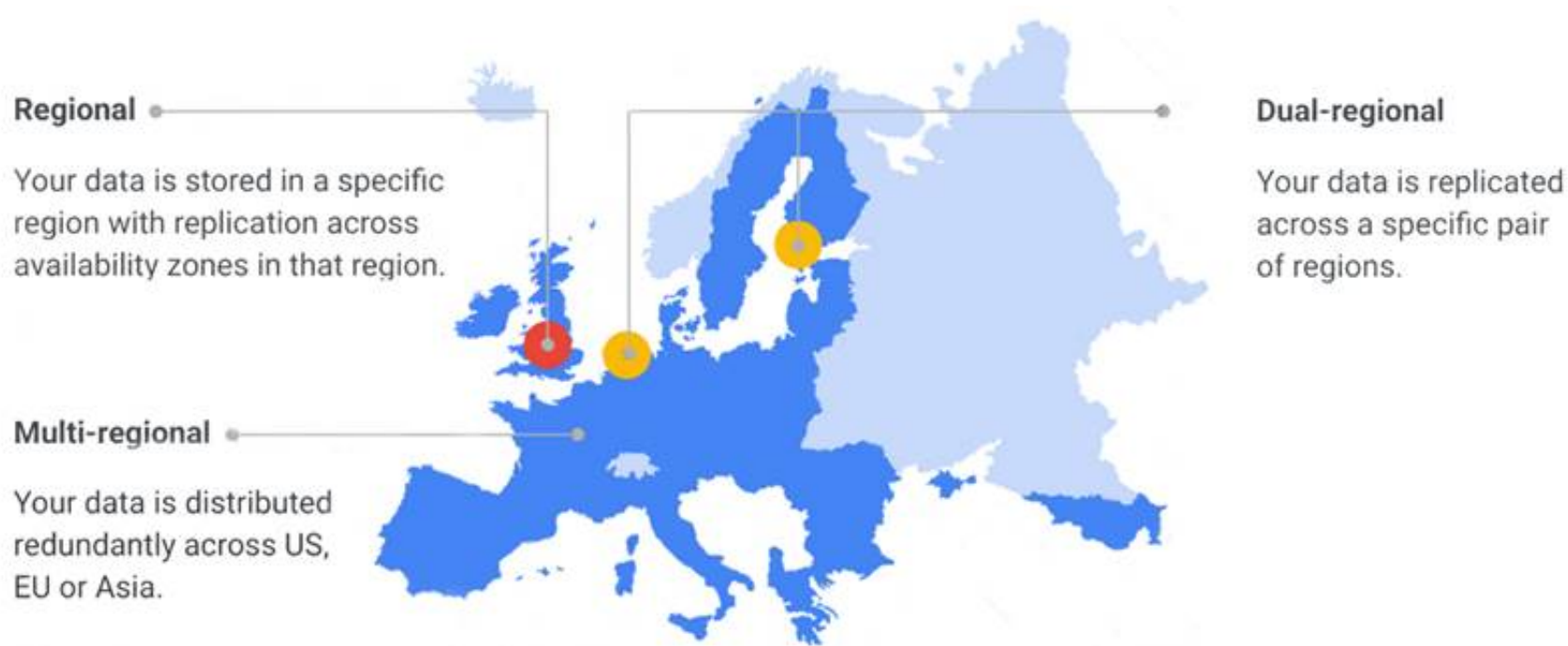
Answer: C

Explanation:

Cloud Storage allows world-wide storage and retrieval of any amount of data at any time. We dont need to set up auto-scaling ourselves. Cloud Storage autoscaling is managed by GCP. Cloud Storage is an object store so it is suitable for storing photos. Cloud Storage allows world-wide storage and retrieval so cater well to our worldwide audience. Cloud storage provides us lifecycle rules that can be configured to automatically delete objects older than 30 days. This also fits our requirements. Finally, Google Cloud Storage offers several storage classes such as Nearline Storage (\$0.01 per GB per Month) Coldline Storage (\$0.007 per GB per Month) and Archive Storage (\$0.004 per GB per month) which are significantly cheaper than any of the options above.

Ref: <https://cloud.google.com/storage/docs>

Ref: <https://cloud.google.com/storage/pricing>



NEW QUESTION 9

You have one project called proj-sa where you manage all your service accounts. You want to be able to use a service account from this project to take snapshots of VMs running in another project called proj-vm. What should you do?

- A. Download the private key from the service account, and add it to each VMs custom metadata.
- B. Download the private key from the service account, and add the private key to each VM's SSH keys.
- C. Grant the service account the IAM Role of Compute Storage Admin in the project called proj-vm.
- D. When creating the VMs, set the service account's API scope for Compute Engine to read/write.

Answer: C

Explanation:

<https://gtseres.medium.com/using-service-accounts-across-projects-in-gcp-cf9473fef8f0>

You create the service account in proj-sa and take note of the service account email, then you go to proj-vm in IAM > ADD and add the service account's email as new member and give it the Compute Storage Admin role.

<https://cloud.google.com/compute/docs/access/iam#compute.storageAdmin>

NEW QUESTION 10

You are developing a new application and are looking for a Jenkins installation to build and deploy your source code. You want to automate the installation as quickly and easily as possible. What should you do?

- A. Deploy Jenkins through the Google Cloud Marketplace.
- B. Create a new Compute Engine instance
- C. Run the Jenkins executable.
- D. Create a new Kubernetes Engine cluster
- E. Create a deployment for the Jenkins image.
- F. Create an instance template with the Jenkins executable
- G. Create a managed instance group with this template.

Answer: A

Explanation:

Installing Jenkins

In this section, you use Cloud Marketplace to provision a Jenkins instance. You customize this instance to use the agent image you created in the previous section.

Go to the Cloud Marketplace solution for Jenkins. Click Launch on Compute Engine.

Change the Machine Type field to 4 vCPUs 15 GB Memory, n1-standard-4.

Machine type selection for Jenkins deployment.

Click Deploy and wait for your Jenkins instance to finish being provisioned. When it is finished, you will see: Jenkins has been deployed.

https://cloud.google.com/solutions/using-jenkins-for-distributed-builds-on-compute-engine#installing_jenkins

NEW QUESTION 10

You have a development project with appropriate IAM roles defined. You are creating a production project and want to have the same IAM roles on the new project, using the fewest possible steps. What should you do?

- A. Use gcloud iam roles copy and specify the production project as the destination project.
- B. Use gcloud iam roles copy and specify your organization as the destination organization.
- C. In the Google Cloud Platform Console, use the 'create role from role' functionality.
- D. In the Google Cloud Platform Console, use the 'create role' functionality and select all applicable permissions.

Answer: A

NEW QUESTION 13

Your team is using Linux instances on Google Cloud. You need to ensure that your team logs in to these instances in the most secure and cost efficient way. What should you do?

- A. Attach a public IP to the instances and allow incoming connections from the internet on port 22 for SSH.
- B. Use a third party tool to provide remote access to the instances.
- C. Use the gcloud compute ssh command with the --tunnel-through-iap flag
- D. Allow ingress traffic from the IP range 35.235.240.0/20 on port 22.
- E. Create a bastion host with public internet access
- F. Create the SSH tunnel to the instance through the bastion host.

Answer: D

NEW QUESTION 14

Your company has multiple projects linked to a single billing account in Google Cloud. You need to visualize the costs with specific metrics that should be dynamically calculated based on company-specific criteria. You want to automate the process. What should you do?

- A. In the Google Cloud console, visualize the costs related to the projects in the Reports section.
- B. In the Google Cloud console, visualize the costs related to the projects in the Cost breakdown section.
- C. In the Google Cloud console, use the export functionality of the Cost tab
- D. Create a Looker Studio dashboard on top of the CSV export.
- E. Configure Cloud Billing data export to BigQuery for the billing account
- F. Create a Looker Studio dashboard on top of the BigQuery export.

Answer: D

NEW QUESTION 15

Your company runs its Linux workloads on Compute Engine instances. Your company will be working with a new operations partner that does not use Google Accounts. You need to grant access to the instances to your operations partner so they can maintain the installed tooling. What should you do?

- A. Enable Cloud IAP for the Compute Engine instances, and add the operations partner as a Cloud IAP Tunnel User.
- B. Tag all the instances with the same network tag
- C. Create a firewall rule in the VPC to grant TCP access on port 22 for traffic from the operations partner to instances with the network tag.
- D. Set up Cloud VPN between your Google Cloud VPC and the internal network of the operations partner.
- E. Ask the operations partner to generate SSH key pairs, and add the public keys to the VM instances.

Answer: D

Explanation:

IAP controls access to your App Engine apps and Compute Engine VMs running on Google Cloud. It leverages user identity and the context of a request to determine if a user should be allowed access. IAP is a building block toward BeyondCorp, an enterprise security model that enables employees to work from untrusted networks without using a VPN.

By default, IAP uses Google identities and IAM. By leveraging Identity Platform instead, you can authenticate users with a wide range of external identity providers, such as:

Email/password

OAuth (Google, Facebook, Twitter, GitHub, Microsoft, etc.) SAML

OIDC

Phone number Custom Anonymous

This is useful if your application is already using an external authentication system, and migrating your users to Google accounts is impractical.

<https://cloud.google.com/iap/docs/using-tcp-forwarding#grant-permission>

NEW QUESTION 16

You have an application on a general-purpose Compute Engine instance that is experiencing excessive disk read throttling on its Zonal SSD Persistent Disk. The application primarily reads large files from disk. The disk size is currently 350 GB. You want to provide the maximum amount of throughput while minimizing costs. What should you do?

- A. Increase the size of the disk to 1 TB.
- B. Increase the allocated CPU to the instance.
- C. Migrate to use a Local SSD on the instance.
- D. Migrate to use a Regional SSD on the instance.

Answer: C

Explanation:

Standard persistent disks are efficient and economical for handling sequential read/write operations, but they aren't optimized to handle high rates of random input/output operations per second (IOPS). If your apps require high rates of random IOPS, use SSD persistent disks. SSD persistent disks are designed for single-digit millisecond latencies. Observed latency is application specific.

NEW QUESTION 21

You need to set a budget alert for use of Compute Engine services on one of the three Google Cloud Platform projects that you manage. All three projects are linked to a single billing account. What should you do?

- A. Verify that you are the project billing administrator
- B. Select the associated billing account and create a budget and alert for the appropriate project.
- C. Verify that you are the project billing administrator
- D. Select the associated billing account and create a budget and a custom alert.
- E. Verify that you are the project administrator
- F. Select the associated billing account and create a budget for the appropriate project.
- G. Verify that you are project administrator
- H. Select the associated billing account and create a budget and a custom alert.

Answer: A

Explanation:

<https://cloud.google.com/iam/docs/understanding-roles#billing-roles>

NEW QUESTION 23

You have been asked to set up the billing configuration for a new Google Cloud customer. Your customer wants to group resources that share common IAM policies. What should you do?

- A. Use labels to group resources that share common IAM policies
- B. Use folders to group resources that share common IAM policies
- C. Set up a proper billing account structure to group IAM policies
- D. Set up a proper project naming structure to group IAM policies

Answer: B

Explanation:

Folders are nodes in the Cloud Platform Resource Hierarchy. A folder can contain projects, other folders, or a combination of both. Organizations can use folders to group projects under the organization node in a hierarchy. For example, your organization might contain multiple departments, each with its own set of Google Cloud resources. Folders allow you to group these resources on a per-department basis. Folders are used to group resources that share common IAM policies. While a folder can contain multiple folders or resources, a given folder or resource can have exactly one parent.

<https://cloud.google.com/resource-manager/docs/creating-managing-folders>

NEW QUESTION 26

You have developed an application that consists of multiple microservices, with each microservice packaged in its own Docker container image. You want to deploy the entire application on Google Kubernetes Engine so that each microservice can be scaled individually. What should you do?

- A. Create and deploy a Custom Resource Definition per microservice.
- B. Create and deploy a Docker Compose File.
- C. Create and deploy a Job per microservice.
- D. Create and deploy a Deployment per microservice.

Answer: A

NEW QUESTION 31

Your application is running on Google Cloud in a managed instance group (MIG). You see errors in Cloud Logging for one VM that one of the processes is not responsive. You want to replace this VM in the MIG quickly. What should you do?

- A. Select the MIG from the Compute Engine console and, in the menu, select Replace VMs.
- B. Use the `gcloud compute instance-groups managed recreate-instances` command to recreate the VM.
- C. Use the `gcloud compute instances update` command with a REFRESH action for the VM.
- D. Update and apply the instance template of the MIG.

Answer: A

NEW QUESTION 33

You deployed an LDAP server on Compute Engine that is reachable via TLS through port 636 using UDP. You want to make sure it is reachable by clients over that port. What should you do?

- A. Add the network tag `allow-udp-636` to the VM instance running the LDAP server.
- B. Create a route called `allow-udp-636` and set the next hop to be the VM instance running the LDAP server.
- C. Add a network tag of your choice to the instance
- D. Create a firewall rule to allow ingress on UDP port 636 for that network tag.
- E. Add a network tag of your choice to the instance running the LDAP server
- F. Create a firewall rule to allow egress on UDP port 636 for that network tag.

Answer: C

Explanation:

A tag is simply a character string added to a `tags` field in a resource, such as Compute Engine virtual machine (VM) instances or instance templates. A tag is not a separate resource, so you cannot create it separately. All resources with that string are considered to have that tag. Tags enable you to make firewall rules and routes applicable to specific VM instances.

NEW QUESTION 34

You are managing a Data Warehouse on BigQuery. An external auditor will review your company's processes, and multiple external consultants will need view access to the data. You need to provide them with view access while following Google-recommended practices. What should you do?

- A. Grant each individual external consultant the role of BigQuery Editor
- B. Grant each individual external consultant the role of BigQuery Viewer
- C. Create a Google Group that contains the consultants and grant the group the role of BigQuery Editor
- D. Create a Google Group that contains the consultants, and grant the group the role of BigQuery Viewer

Answer: D

NEW QUESTION 39

Your company is using Google Workspace to manage employee accounts. Anticipated growth will increase the number of personnel from 100 employees to 1,000 employees within 2 years. Most employees will need access to your company's Google Cloud account. The systems and processes will need to support 10x

growth without performance degradation, unnecessary complexity, or security issues. What should you do?

- A. Migrate the users to Active Director
- B. Connect the Human Resources system to Active Director
- C. Turn on Google Cloud Directory Sync (GCDS) for Cloud Identity
- D. Turn on Identity Federation from Cloud Identity to Active Directory.
- E. Organize the users in Cloud Identity into group
- F. Enforce multi-factor authentication in Cloud Identity.
- G. Turn on identity federation between Cloud Identity and Google Workspac
- H. Enforce multi-factor authentication for domain wide delegation.
- I. Use a third-party identity provider service through federatio
- J. Synchronize the users from Google Workplace to the third-party provider in real time.

Answer: B

NEW QUESTION 40

You have a Compute Engine instance hosting a production application. You want to receive an email if the instance consumes more than 90% of its CPU resources for more than 15 minutes. You want to use Google services. What should you do?

- A. * 1. Create a consumer Gmail account.* 2. Write a script that monitors the CPU usage.* 3. When the CPU usage exceeds the threshold, have that script send an email using the Gmail account and smtp.gmail.com on port 25 as SMTP server.
- B. * 1. Create a Stackdriver Workspace, and associate your Google Cloud Platform (GCP) project with it.* 2.Create an Alerting Policy in Stackdriver that uses the threshold as a trigger conditio
- C. 3.Configure your email address in the notification channel.
- D. * 1. Create a Stackdriver Workspace, and associate your GCP project with it.* 2. Write a script that monitors the CPU usage and sends it as a custom metric to Stackdrive
- E. 3.Create an uptime check for the instance in Stackdriver.
- F. * 1. In Stackdriver Logging, create a logs-based metric to extract the CPU usage by using this regular expression: CPU Usage: ([0-9] {1,3}) %* 2. In Stackdriver Monitoring, create an Alerting Policy based on this metri
- G. 3.Configure your email address in the notification channel.

Answer: B

Explanation:

Specifying conditions for alerting policies This page describes how to specify conditions for alerting policies. The conditions for an alerting policy define what is monitored and when to trigger an alert. For example, suppose you want to define an alerting policy that emails you if the CPU utilization of a Compute Engine VM instance is above 80% for more than 3 minutes. You use the conditions dialog to specify that you want to monitor the CPU utilization of a Compute Engine VM instance, and that you want an alerting policy to trigger when that utilization is above 80% for 3 minutes. <https://cloud.google.com/monitoring/alerts/ui-conditions-ga> <https://cloud.google.com/monitoring/alerts/using-alerting-ui> <https://cloud.google.com/monitoring/support/notification-options>

NEW QUESTION 44

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.

Answer: D

Explanation:

A deployment is responsible for keeping a set of pods running. A service is responsible for enabling network access to a set of pods.

NEW QUESTION 49

You have files in a Cloud Storage bucket that you need to share with your suppliers. You want to restrict the time that the files are available to your suppliers to 1 hour. You want to follow Google recommended practices. What should you do?

- A. Create a service account with just the permissions to access files in the bucke
- B. Create a JSON key for the service accoun
- C. Execute the command `gsutil signurl -m 1h gs:///*`.
- D. Create a service account with just the permissions to access files in the bucke
- E. Create a JSON key for the service accoun
- F. Execute the command `gsutil signurl -d 1h gs:///**`.
- G. Create a service account with just the permissions to access files in the bucke
- H. Create a JSON key for the service accoun
- I. Execute the command `gsutil signurl -p 60m gs:///`.
- J. Create a JSON key for the Default Compute Engine Service Accoun
- K. Execute the command `gsutil signurl -t 60m gs:///***`

Answer: B

Explanation:

This command correctly specifies the duration that the signed url should be valid for by using the `-d` flag. The default is 1 hour so omitting the `-d` flag would have also resulted in the same outcome. Times may be specified with no suffix (default hours), or with s = seconds, m = minutes, h = hours, d = days. The max duration allowed is 7d.Ref: <https://cloud.google.com/storage/docs/gsutil/commands/signurl>

NEW QUESTION 52

You have been asked to migrate a docker application from datacenter to cloud. Your solution architect has suggested uploading docker images to GCR in one

project and running an application in a GKE cluster in a separate project. You want to store images in the project img-278322 and run the application in the project prod-278986. You want to tag the image as acme_track_n_trace:v1. You want to follow Google-recommended practices. What should you do?

- A. Run gcloud builds submit --tag gcr.io/img-278322/acme_track_n_trace
- B. Run gcloud builds submit --tag gcr.io/img-278322/acme_track_n_trace:v1
- C. Run gcloud builds submit --tag gcr.io/prod-278986/acme_track_n_trace
- D. Run gcloud builds submit --tag gcr.io/prod-278986/acme_track_n_trace:v1

Answer: B

Explanation:

➤ Run gcloud builds submit tag gcr.io/img-278322/acme_track_n_trace:v1. is the right answer.
This command correctly tags the image as acme_track_n_trace:v1 and uploads the image to the img-278322 project.
Ref: <https://cloud.google.com/sdk/gcloud/reference/builds/submit>

NEW QUESTION 54

You built an application on Google Cloud Platform that uses Cloud Spanner. Your support team needs to monitor the environment but should not have access to table data. You need a streamlined solution to grant the correct permissions to your support team, and you want to follow Google-recommended practices. What should you do?

- A. Add the support team group to the roles/monitoring.viewer role
- B. Add the support team group to the roles/spanner.databaseUser role.
- C. Add the support team group to the roles/spanner.databaseReader role.
- D. Add the support team group to the roles/stackdriver.accounts.viewer role.

Answer: A

Explanation:

➤ roles/monitoring.viewer provides read-only access to get and list information about all monitoring data and configurations. This role provides monitoring access and fits our requirements. roles/monitoring.viewer. is the right answer.
Ref: <https://cloud.google.com/iam/docs/understanding-roles#cloud-spanner-roles>

NEW QUESTION 55

Your web application has been running successfully on Cloud Run for Anthos. You want to evaluate an updated version of the application with a specific percentage of your production users (canary deployment). What should you do?

- A. Create a new service with the new version of the applicatio
- B. Split traffic between this version and the version that is currently running.
- C. Create a new revision with the new version of the applicatio
- D. Split traffic between this version and the version that is currently running.
- E. Create a new service with the new version of the applicatio
- F. Add an HTTP Load Balancer in front of both services.
- G. Create a new revision with the new version of the applicatio
- H. Add an HTTP Load Balancer in front of both revisions.

Answer: B

Explanation:

<https://cloud.google.com/kuberun/docs/rollouts-rollbacks-traffic-migration>

NEW QUESTION 56

Your company developed a mobile game that is deployed on Google Cloud. Gamers are connecting to the game with their personal phones over the Internet. The game sends UDP packets to update the servers about the gamers' actions while they are playing in multiplayer mode. Your game backend can scale over multiple virtual machines (VMs), and you want to expose the VMs over a single IP address. What should you do?

- A. Configure an SSL Proxy load balancer in front of the application servers.
- B. Configure an Internal UDP load balancer in front of the application servers.
- C. Configure an External HTTP(s) load balancer in front of the application servers.
- D. Configure an External Network load balancer in front of the application servers.

Answer: D

Explanation:

cell phones are sending UDP packets and the only that can receive that type of traffic is a External Network TCP/UDP <https://cloud.google.com/load-balancing/docs/network>
<https://cloud.google.com/load-balancing/docs/choosing-load-balancer#lb-decision-tree>

NEW QUESTION 60

You installed the Google Cloud CLI on your workstation and set the proxy configuration. However, you are worried that your proxy credentials will be recorded in the gcloud CLI logs. You want to prevent your proxy credentials from being logged What should you do?

- A. Configure username and password by using gcloud configure set proxy/username and gcloud configure set proxy/ proxy/password commands.
- B. Encode username and password in sha256 encoding, and save it to a text fil
- C. Use filename as a value in the gcloud configure set core/custom_ca_certs_file command.
- D. Provide values for CLOUDSDK_USERNAME and CLOUDSDK_PASSWORD in the gcloud CLI tool configure file.
- E. Set the CLOUDSDK_PROXY_USERNAME and CLOUDSDK_PROXY PASSWORD properties by using environment variables in your command line tool.

Answer: D

NEW QUESTION 61

You are the project owner of a GCP project and want to delegate control to colleagues to manage buckets and files in Cloud Storage. You want to follow Google-recommended practices. Which IAM roles should you grant your colleagues?

- A. Project Editor
- B. Storage Admin
- C. Storage Object Admin
- D. Storage Object Creator

Answer: B

Explanation:

Storage Admin (roles/storage.admin) Grants full control of buckets and objects.

When applied to an individual bucket, control applies only to the specified bucket and objects within the bucket.

firebase.projects.get resource manager.projects.get

resource manager.projects.list storage.buckets.* storage.objects.*

<https://cloud.google.com/storage/docs/access-control/iam-roles>

This role grants full control of buckets and objects. When applied to an individual bucket, control applies only to the specified bucket and objects within the bucket.

Ref: <https://cloud.google.com/iam/docs/understanding-roles#storage-roles>

NEW QUESTION 65

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.

Answer: D

NEW QUESTION 66

You need to manage a Cloud Spanner Instance for best query performance. Your instance in production runs in a single Google Cloud region. You need to improve performance in the shortest amount of time. You want to follow Google best practices for service configuration. What should you do?

- A. Create an alert in Cloud Monitoring to alert when the percentage of high priority CPU utilization reaches 45% If you exceed this threshold, add nodes to your instance.
- B. Create an alert in Cloud Monitoring to alert when the percentage of high priority CPU utilization reaches 45% Use database query statistics to identify queries that result in high CPU usage, and then rewrite those queries to optimize their resource usage
- C. Create an alert in Cloud Monitoring to alert when the percentage of high priority CPU utilization reaches 65% If you exceed this threshold, add nodes to your instance
- D. Create an alert in Cloud Monitoring to alert when the percentage of high priority CPU utilization reaches 65%. Use database query statistics to identify queries that result in high CPU usage, and then rewrite those queries to optimize their resource usage.

Answer: B

Explanation:

<https://cloud.google.com/spanner/docs/cpu-utilization#recommended-max>

NEW QUESTION 68

You are running multiple VPC-native Google Kubernetes Engine clusters in the same subnet. The IPs available for the nodes are exhausted, and you want to ensure that the clusters can grow in nodes when needed. What should you do?

- A. Create a new subnet in the same region as the subnet being used.
- B. Add an alias IP range to the subnet used by the GKE clusters.
- C. Create a new VPC, and set up VPC peering with the existing VPC.
- D. Expand the CIDR range of the relevant subnet for the cluster.

Answer: D

Explanation:

gcloud compute networks subnets expand-ip-range NAME gcloud compute networks subnets expand-ip-range

- expand the IP range of a Compute Engine subnetwork <https://cloud.google.com/sdk/gcloud/reference/compute/networks/subnets/expand-ip-range>

NEW QUESTION 73

You have been asked to create robust Virtual Private Network (VPN) connectivity between a new Virtual Private Cloud (VPC) and a remote site. Key requirements include dynamic routing, a shared address space of 10.19.0.1/22, and no overprovisioning of tunnels during a failover event. You want to follow Google-recommended practices to set up a high availability Cloud VPN. What should you do?

- A. Use a custom mode VPC network, configure static routes, and use active/passive routing
- B. Use an automatic mode VPC network, configure static routes, and use active/active routing
- C. Use a custom mode VPC network use Cloud Router border gateway protocol (BGP) routes, and use active/passive routing
- D. Use an automatic mode VPC network, use Cloud Router border gateway protocol (BGP) routes and configure policy-based routing

Answer: C

Explanation:

<https://cloud.google.com/network-connectivity/docs/vpn/concepts/best-practices>

NEW QUESTION 74

You've deployed a microservice called myapp1 to a Google Kubernetes Engine cluster using the YAML file specified below:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: myapp1-deployment
spec:
  selector:
    matchLabels:
      app: myapp1
  replicas: 2
  template:
    metadata:
      labels:
        app: myapp1
    spec:
      containers:
      - name: main-container
        image: gcr.io/my-company-repo/myapp1:1.4
        env:
        - name: DB_PASSWORD
          value: "t0ugh2guess!"
        ports:
        - containerPort: 8080
```

You need to refactor this configuration so that the database password is not stored in plain text. You want to follow Google-recommended practices. What should you do?

- A. Store the database password inside the Docker image of the container, not in the YAML file.
- B. Store the database password inside a Secret objec
- C. Modify the YAML file to populate the DB_PASSWORD environment variable from the Secret.
- D. Store the database password inside a ConfigMap objec
- E. Modify the YAML file to populate the DB_PASSWORD environment variable from the ConfigMap.
- F. Store the database password in a file inside a Kubernetes persistent volume, and use a persistent volume claim to mount the volume to the container.

Answer: B

Explanation:

<https://cloud.google.com/config-connector/docs/how-to/secrets#gcloud>

NEW QUESTION 75

You need to create a copy of a custom Compute Engine virtual machine (VM) to facilitate an expected increase in application traffic due to a business acquisition. What should you do?

- A. Create a Compute Engine snapshot of your base V
- B. Create your images from that snapshot.
- C. Create a Compute Engine snapshot of your base V
- D. Create your instances from that snapshot.
- E. Create a custom Compute Engine image from a snapsho
- F. Create your images from that image.
- G. Create a custom Compute Engine image from a snapsho
- H. Create your instances from that image.

Answer: D

Explanation:

A custom image belongs only to your project. To create an instance with a custom image, you must first have a custom image.

NEW QUESTION 80

You have downloaded and installed the gcloud command line interface (CLI) and have authenticated with your Google Account. Most of your Compute Engine instances in your project run in the europe-west1-d zone. You want to avoid having to specify this zone with each CLI command when managing these instances. What should you do?

- A. Set the europe-west1-d zone as the default zone using the gcloud config subcommand.
- B. In the Settings page for Compute Engine under Default location, set the zone to europe-west1-d.
- C. In the CLI installation directory, create a file called default.conf containing zone=europe-west1-d.
- D. Create a Metadata entry on the Compute Engine page with key compute/zone and value europe-west1-d.

Answer: A

Explanation:

Change your default zone and region in the metadata server Note: This only applies to the default configuration. You can change the default zone and region in

your metadata server by making a request to the metadata server. For example: `gcloud compute project-info add-metadata \ --metadata google-compute-default-region=europe-west1,google-compute-default-zone=europe-west1-b` The gcloud command-line tool only picks up on new default zone and region changes after you rerun the gcloud init command. After updating your default metadata, run gcloud init to reinitialize your default configuration.
https://cloud.google.com/compute/docs/gcloud-compute#change_your_default_zone_and_region_in_the_metad

NEW QUESTION 81

You have deployed an application on a Compute Engine instance. An external consultant needs to access the Linux-based instance. The consultant is connected to your corporate network through a VPN connection, but the consultant has no Google account. What should you do?

- A. Instruct the external consultant to use the gcloud compute ssh command line tool by using Identity-Aware Proxy to access the instance.
- B. Instruct the external consultant to use the gcloud compute ssh command line tool by using the public IP address of the instance to access it.
- C. Instruct the external consultant to generate an SSH key pair, and request the public key from the consultant. Add the public key to the instance yourself, and have the consultant access the instance through SSH with their private key.
- D. Instruct the external consultant to generate an SSH key pair, and request the private key from the consultant. Add the private key to the instance yourself, and have the consultant access the instance through SSH with their public key.

Answer: C

Explanation:

The best option is to instruct the external consultant to generate an SSH key pair, and request the public key from the consultant. Then, add the public key to the instance yourself, and have the consultant access the instance through SSH with their private key. This way, you can grant the consultant access to the instance without requiring a Google account or exposing the instance's public IP address. This option also follows the best practice of using user-managed SSH keys instead of service account keys for SSH access¹.

Option A is not feasible because the external consultant does not have a Google account, and therefore cannot use Identity-Aware Proxy (IAP) to access the instance. IAP requires the user to authenticate with a Google account and have the appropriate IAM permissions to access the instance². Option B is not secure because it exposes the instance's public IP address, which can increase the risk of unauthorized access or attacks. Option D is not correct because it reverses the roles of the public and private keys. The public key should be added to the instance, and the private key should be kept by the consultant. Sharing the private key with anyone else can compromise the security of the SSH connection³.

References:

- > 1: <https://cloud.google.com/compute/docs/instances/adding-removing-ssh-keys>
- > 2: <https://cloud.google.com/iap/docs/using-tcp-forwarding>
- > 3: <https://cloud.google.com/compute/docs/instances/connecting-advanced#sshbetweeninstances>

NEW QUESTION 83

You need to create a custom IAM role for use with a GCP service. All permissions in the role must be suitable for production use. You also want to clearly share with your organization the status of the custom role. This will be the first version of the custom role. What should you do?

- A. Use permissions in your role that use the 'supported' support level for role permission
- B. Set the rolestage to ALPHA while testing the role permissions.
- C. Use permissions in your role that use the 'supported' support level for role permission
- D. Set the role stage to BETA while testing the role permissions.
- E. Use permissions in your role that use the 'testing' support level for role permission
- F. Set the role stage to ALPHA while testing the role permissions.
- G. Use permissions in your role that use the 'testing' support level for role permission
- H. Set the role stage to BETA while testing the role permissions.

Answer: A

Explanation:

When setting support levels for permissions in custom roles, you can set to one of SUPPORTED, TESTING or NOT_SUPPORTED.

Ref: <https://cloud.google.com/iam/docs/custom-roles-permissions-support>

NEW QUESTION 87

You have an application that runs on Compute Engine VM instances in a custom Virtual Private Cloud (VPC). Your company's security policies only allow the use to internal IP addresses on VM instances and do not let VM instances connect to the internet. You need to ensure that the application can access a file hosted in a Cloud Storage bucket within your project. What should you do?

- A. Enable Private Service Access on the Cloud Storage Bucket.
- B. Add storage.googleapis.com to the list of restricted services in a VPC Service Controls perimeter and add your project to the list to protected projects.
- C. Enable Private Google Access on the subnet within the custom VPC.
- D. Deploy a Cloud NAT instance and route the traffic to the dedicated IP address of the Cloud Storage bucket.

Answer: A

NEW QUESTION 91

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.

Answer: C

Explanation:

<https://cloud.google.com/run/docs/tutorials/pubsub#integrating-pubsub>

* 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.

NEW QUESTION 95

You are hosting an application on bare-metal servers in your own data center. The application needs access to Cloud Storage. However, security policies prevent the servers hosting the application from having public IP addresses or access to the internet. You want to follow Google-recommended practices to provide the application with access to Cloud Storage. What should you do?

- A. 1. Use nslookup to get the IP address for storage.googleapis.com.2. Negotiate with the security team to be able to give a public IP address to the servers.3. Only allow egress traffic from those servers to the IP addresses for storage.googleapis.com.
- B. 1. Using Cloud VPN, create a VPN tunnel to a Virtual Private Cloud (VPC) in Google Cloud Platform (GCP).2. In this VPC, create a Compute Engine instance and install the Squid proxy server on this instance.3. Configure your servers to use that instance as a proxy to access Cloud Storage.
- C. 1. Use Migrate for Compute Engine (formerly known as Velostrata) to migrate those servers to Compute Engine.2. Create an internal load balancer (ILB) that uses storage.googleapis.com as backend.3. Configure your new instances to use this ILB as proxy.
- D. 1. Using Cloud VPN or Interconnect, create a tunnel to a VPC in GCP.2. Use Cloud Router to create a custom route advertisement for 199.36.153.4/30. Announce that network to your on-premises network through the VPN tunnel.3. In your on-premises network, configure your DNS server to resolve *.googleapis.com as a CNAME to restricted.googleapis.com.

Answer: D

Explanation:

Our requirement is to follow Google recommended practices to achieve the end result. Configuring Private Google Access for On-Premises Hosts is best achieved by VPN/Interconnect + Advertise Routes + Use restricted Google IP Range.

- Using Cloud VPN or Interconnect, create a tunnel to a VPC in GCP
- Using Cloud Router to create a custom route advertisement for 199.36.153.4/30. Announce that network to your on-premises network through the VPN tunnel.
- In your on-premises network, configure your DNS server to resolve *.googleapis.com as a CNAME to restricted.googleapis.com is the right answer right, and it is what Google recommends.

Ref: <https://cloud.google.com/vpc/docs/configure-private-google-access-hybrid>

- You must configure routes so that Google API traffic is forwarded through your Cloud VPN or Cloud Interconnect connection, firewall rules on your on-premises firewall to allow the outgoing traffic, and DNS so that traffic to Google APIs resolves to the IP range youve added to your routes.

➤ You can use Cloud Router Custom Route Advertisement to announce the Restricted Google APIs IP addresses through Cloud Router to your on-premises network. The Restricted Google APIs IP range is 199.36.153.4/30. While this is technically a public IP range, Google does not announce it publicly. This IP range is only accessible to hosts that can reach your Google Cloud projects through internal IP ranges, such as through a Cloud VPN or Cloud Interconnect connection. Without having a public IP address or access to the internet, the only way you could connect to cloud storage is if you have an internal route to it.

- So Negotiate with the security team to be able to give public IP addresses to the servers is not right.

Following Google recommended practices is synonymous with using Googles services (Not quite, but it is at least for the exam !!).

- So In this VPC, create a Compute Engine instance and install the Squid proxy server on this instance is not right.
- Migrating the VM to Compute Engine is a bit drastic when Google says it is perfectly fine to have Hybrid Connectivity architectures

<https://cloud.google.com/hybrid-connectivity>.

So,

- Use Migrate for Compute Engine (formerly known as Velostrata) to migrate these servers to Compute Engine is not right.

NEW QUESTION 97

You are assigned to maintain a Google Kubernetes Engine (GKE) cluster named dev that was deployed on Google Cloud. You want to manage the GKE configuration using the command line interface (CLI). You have just downloaded and installed the Cloud SDK. You want to ensure that future CLI commands by default address this specific cluster. What should you do?

- A. Use the command gcloud config set container/cluster dev.
- B. Use the command gcloud container clusters update dev.
- C. Create a file called gke.default in the ~/.gcloud folder that contains the cluster name.
- D. Create a file called defaults.json in the ~/.gcloud folder that contains the cluster name.

Answer: A

Explanation:

To set a default cluster for gcloud commands, run the following command: gcloud config set container/cluster CLUSTER_NAME

<https://cloud.google.com/kubernetes-engine/docs/how-to/managing-clusters?hl=en>

NEW QUESTION 101

The core business of your company is to rent out construction equipment at a large scale. All the equipment that is being rented out has been equipped with multiple sensors that send event information every few seconds. These signals can vary from engine status, distance traveled, fuel level, and more. Customers are billed based on the consumption monitored by these sensors. You expect high throughput – up to thousands of events per hour per device – and need to retrieve consistent data based on the time of the event. Storing and retrieving individual signals should be atomic. What should you do?

- A. Create a file in Cloud Storage per device and append new data to that file.
- B. Create a file in Cloud Filestore per device and append new data to that file.
- C. Ingest the data into Datastor
- D. Store data in an entity group based on the device.
- E. Ingest the data into Cloud Bigtabl
- F. Create a row key based on the event timestamp.

Answer: D

Explanation:

Keyword need to look for

- "High Throughput",
 - "Consistent",
 - "Property based data insert/fetch like engine status, distance traveled, fuel level, and more." which can be designed in column,
 - "Large Scale Customer Base + Each Customer has multiple sensor which send event in seconds" This will go for per byte situation,
 - Export data based on the time of the event.
 - Atomic
- o BigTable will fit all requirement. o DataStore is not fully Atomic
 - o CloudStorage is not a option where we can export data based on time of event. We need another solution to do that
 - o Firestore can be used with MobileSDK.

NEW QUESTION 104

You need to create a new billing account and then link it with an existing Google Cloud Platform project. What should you do?

- A. Verify that you are Project Billing Manager for the GCP project
- B. Update the existing project to link it to the existing billing account.
- C. Verify that you are Project Billing Manager for the GCP project
- D. Create a new billing account and link the new billing account to the existing project.
- E. Verify that you are Billing Administrator for the billing account
- F. Create a new project and link the new project to the existing billing account.
- G. Verify that you are Billing Administrator for the billing account
- H. Update the existing project to link it to the existing billing account.

Answer: B

Explanation:

Billing Administrators can not create a new billing account, and the project is presumably already created. Project Billing Manager allows you to link the created billing account to the project. It is vague on how the billing account gets created but by process of elimination

NEW QUESTION 109

You have an application that looks for its licensing server on the IP 10.0.3.21. You need to deploy the licensing server on Compute Engine. You do not want to change the configuration of the application and want the application to be able to reach the licensing server. What should you do?

- A. Reserve the IP 10.0.3.21 as a static internal IP address using gcloud and assign it to the licensing server.
- B. Reserve the IP 10.0.3.21 as a static public IP address using gcloud and assign it to the licensing server.
- C. Use the IP 10.0.3.21 as a custom ephemeral IP address and assign it to the licensing server.
- D. Start the licensing server with an automatic ephemeral IP address, and then promote it to a static internal IP address.

Answer: A

Explanation:

IP 10.0.3.21 is internal by default, and to ensure that it will be static non-changing it should be selected as static internal ip address.

NEW QUESTION 114

You have deployed multiple Linux instances on Compute Engine. You plan on adding more instances in the coming weeks. You want to be able to access all of these instances through your SSH client over the Internet without having to configure specific access on the existing and new instances. You do not want the Compute Engine instances to have a public IP. What should you do?

- A. Configure Cloud Identity-Aware Proxy (or HTTPS resources)
- B. Configure Cloud Identity-Aware Proxy for SSH and TCP resources.
- C. Create an SSH keypair and store the public key as a project-wide SSH Key
- D. Create an SSH keypair and store the private key as a project-wide SSH Key

Answer: B

Explanation:

<https://cloud.google.com/iap/docs/using-tcp-forwarding>

NEW QUESTION 116

You need to enable traffic between multiple groups of Compute Engine instances that are currently running two different GCP projects. Each group of Compute Engine instances is running in its own VPC. What should you do?

- A. Verify that both projects are in a GCP Organization
- B. Create a new VPC and add all instances.
- C. Verify that both projects are in a GCP Organization
- D. Share the VPC from one project and request that the Compute Engine instances in the other project use this shared VPC.
- E. Verify that you are the Project Administrator of both projects
- F. Create two new VPCs and add all instances.
- G. Verify that you are the Project Administrator of both projects
- H. Create a new VPC and add all instances.

Answer: B

Explanation:

Shared VPC allows an organization to connect resources from multiple projects to a common Virtual Private Cloud (VPC) network, so that they can communicate with each other securely and efficiently using internal IPs from that network. When you use Shared VPC, you designate a project as a host project and attach one or more other service projects to it. The VPC networks in the host project are called Shared VPC networks. Eligible resources from service projects can use subnets in the Shared VPC network

<https://cloud.google.com/vpc/docs/shared-vpc>

"For example, an existing instance in a service project cannot be reconfigured to use a Shared VPC network, but a new instance can be created to use available

subnets in a Shared VPC network."

NEW QUESTION 120

Your company developed an application to deploy on Google Kubernetes Engine. Certain parts of the application are not fault-tolerant and are allowed to have downtime. Other parts of the application are critical and must always be available. You need to configure a Google Kubernetes Engine cluster while optimizing for cost. What should you do?

- A. Create a cluster with a single node-pool by using standard VM
- B. Label the fault-tolerant Deployments as spot-true.
- C. Create a cluster with a single node-pool by using Spot VM
- D. Label the critical Deployments as spot-false.
- E. Create a cluster with both a Spot VM node pool and a node pool by using standard VMs. Deploy the critical
- F. deployments on the Spot VM node pool and the fault-tolerant deployments on the node pool by using standard VMs.
- G. Create a cluster with both a Spot VM node pool and by using standard VM
- H. Deploy the critical deployments on the node pool by using standard VMs and the fault-tolerant deployments on the Spot VM node pool.

Answer: C

NEW QUESTION 122

You have a Google Cloud Platform account with access to both production and development projects. You need to create an automated process to list all compute instances in development and production projects on a daily basis. What should you do?

- A. Create two configurations using gcloud config
- B. Write a script that sets configurations as active, individually
- C. For each configuration, use gcloud compute instances list to get a list of compute resources.
- D. Create two configurations using gsutil config
- E. Write a script that sets configurations as active, individually
- F. For each configuration, use gsutil compute instances list to get a list of compute resources.
- G. Go to Cloud Shell and export this information to Cloud Storage on a daily basis.
- H. Go to GCP Console and export this information to Cloud SQL on a daily basis.

Answer: A

Explanation:

You can create two configurations – one for the development project and another for the production project. And you do that by running “gcloud config configurations create” command. <https://cloud.google.com/sdk/gcloud/reference/config/configurations/create> In your custom script, you can load these configurations one at a time and execute gcloud compute instances list to list Google Compute Engine instances in the project that is active in the gcloud configuration. Ref: <https://cloud.google.com/sdk/gcloud/reference/compute/instances/list> Once you have this information, you can export it in a suitable format to a suitable target e.g. export as CSV or export to Cloud Storage/BigQuery/SQL, etc

NEW QUESTION 125

You have developed a containerized web application that will serve Internal colleagues during business hours. You want to ensure that no costs are incurred outside of the hours the application is used. You have just created a new Google Cloud project and want to deploy the application. What should you do?

- A. Deploy the container on Cloud Run for Anthos, and set the minimum number of instances to zero
- B. Deploy the container on Cloud Run (fully managed), and set the minimum number of instances to zero.
- C. Deploy the container on App Engine flexible environment with autoscaling
- D. and set the value min_instances to zero in the app.yaml
- E. Deploy the container on App Engine flexible environment with manual scaling, and set the value instances to zero in the app.yaml

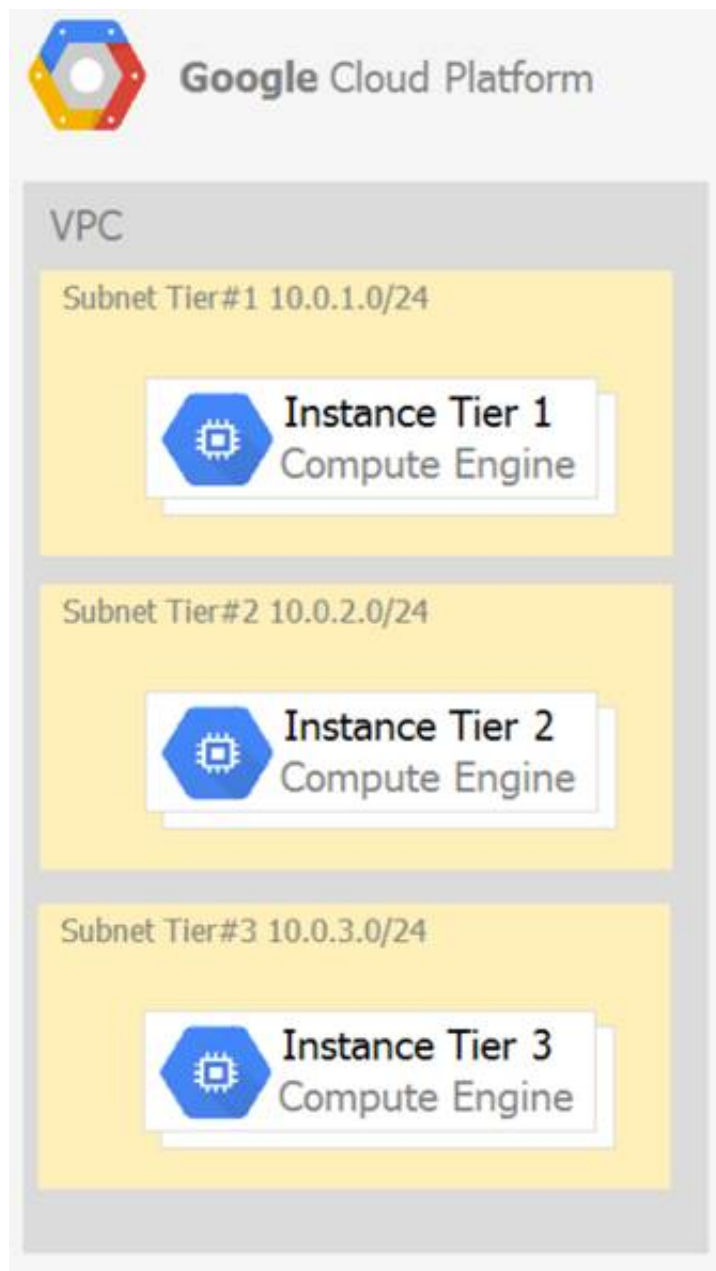
Answer: B

Explanation:

https://cloud.google.com/kuberun/docs/architecture-overview#components_in_the_default_installation

NEW QUESTION 127

Your company has a 3-tier solution running on Compute Engine. The configuration of the current infrastructure is shown below.



Each tier has a service account that is associated with all instances within it. You need to enable communication on TCP port 8080 between tiers as follows:

- Instances in tier #1 must communicate with tier #2.
- Instances in tier #2 must communicate with tier #3.

What should you do?

1. Create an ingress firewall rule with the following settings:• Targets: all instances• Source filter: IP ranges (with the range set to 10.0.2.0/24)• Protocols: allow all2. Create an ingress firewall rule with the following settings:• Targets: all instances• Source filter: IP ranges (with the range set to 10.0.1.0/24)•Protocols: allow all
1. Create an ingress firewall rule with the following settings:• Targets: all instances with tier #2 service account• Source filter: all instances with tier #1 service account• Protocols: allow TCP:80802. Create an ingress firewall rule with the following settings:• Targets: all instances with tier #3 service account• Source filter: all instances with tier #2 service account• Protocols: allow TCP: 8080
1. Create an ingress firewall rule with the following settings:• Targets: all instances with tier #2 service account• Source filter: all instances with tier #1 service account• Protocols: allow all2. Create an ingress firewall rule with the following settings:• Targets: all instances with tier #3 service account• Source filter: all instances with tier #2 service account• Protocols: allow all
1. Create an egress firewall rule with the following settings:• Targets: all instances• Source filter: IP ranges (with the range set to 10.0.2.0/24)• Protocols: allow TCP: 80802. Create an egress firewall rule with the following settings:• Targets: all instances• Source filter: IP ranges (with the range set to 10.0.1.0/24)• Protocols: allow TCP: 8080

Answer: B

Explanation:

* 1. Create an ingress firewall rule with the following settings: "¢ Targets: all instances with tier #2 service account "¢ Source filter: all instances with tier #1 service account "¢ Protocols: allow TCP:8080 2. Create an ingress firewall rule with the following settings: "¢ Targets: all instances with tier #3 service account "¢ Source filter: all instances with tier #2 service account "¢ Protocols: allow TCP: 8080

NEW QUESTION 128

You used the gcloud container clusters command to create two Google Cloud Kubernetes (GKE) clusters prod-cluster and dev-cluster.

- prod-cluster is a standard cluster.
- dev-cluster is an auto-pilot cluster.

When you run the Kubectl1 get nodes command, you only see the nodes from prod-cluster Which commands should you run to check the node status for dev-cluster?

- ```
gcloud container clusters get-credentials dev-cluster
kubectl get nodes
```
- ```
gcloud container clusters update -generate-password dev-cluster
kubectl get nodes
```
-

```
kubectl config set-context dev-cluster
kubectl cluster-info
```

D.

```
kubectl config set-credentials dev-cluster
kubectl cluster-info
```

Answer: C

NEW QUESTION 132

You need to provide a cost estimate for a Kubernetes cluster using the GCP pricing calculator for Kubernetes. Your workload requires high IOPs, and you will also be using disk snapshots. You start by entering the number of nodes, average hours, and average days. What should you do next?

- A. Fill in local SS
- B. Fill in persistent disk storage and snapshot storage.
- C. Fill in local SS
- D. Add estimated cost for cluster management.
- E. Select Add GPU
- F. Fill in persistent disk storage and snapshot storage.
- G. Select Add GPU
- H. Add estimated cost for cluster management.

Answer: A

Explanation:

<https://cloud.google.com/compute/docs/disks/local-ssd>

NEW QUESTION 134

You need to configure optimal data storage for files stored in Cloud Storage for minimal cost. The files are used in a mission-critical analytics pipeline that is used continually. The users are in Boston, MA (United States). What should you do?

- A. Configure regional storage for the region closest to the users Configure a Nearline storage class
- B. Configure regional storage for the region closest to the users Configure a Standard storage class
- C. Configure dual-regional storage for the dual region closest to the users Configure a Nearline storage class
- D. Configure dual-regional storage for the dual region closest to the users Configure a Standard storage class

Answer: B

Explanation:

Keywords: - continually -> Standard - mission-critical analytics -> dual-regional

NEW QUESTION 135

You are configuring service accounts for an application that spans multiple projects. Virtual machines (VMs) running in the web-applications project need access to BigQuery datasets in crm-databases-proj. You want to follow Google-recommended practices to give access to the service account in the web-applications project. What should you do?

- A. Give “project owner” for web-applications appropriate roles to crm-databases- proj
- B. Give “project owner” role to crm-databases-proj and the web-applications project.
- C. Give “project owner” role to crm-databases-proj and bigquery.dataViewer role to web-applications.
- D. Give bigquery.dataViewer role to crm-databases-proj and appropriate roles to web-applications.

Answer: C

NEW QUESTION 137

You are building a new version of an application hosted in an App Engine environment. You want to test the new version with 1% of users before you completely switch your application over to the new version. What should you do?

- A. Deploy a new version of your application in Google Kubernetes Engine instead of App Engine and then use GCP Console to split traffic.
- B. Deploy a new version of your application in a Compute Engine instance instead of App Engine and then use GCP Console to split traffic.
- C. Deploy a new version as a separate app in App Engin
- D. Then configure App Engine using GCP Console to split traffic between the two apps.
- E. Deploy a new version of your application in App Engin
- F. Then go to App Engine settings in GCP Console and split traffic between the current version and newly deployed versions accordingly.

Answer: D

Explanation:

GCP App Engine natively offers traffic splitting functionality between versions. You can use traffic splitting to specify a percentage distribution of traffic across two or more of the versions within a service. Splitting traffic allows you to conduct A/B testing between your versions and provides control over the pace when rolling out features.

Ref: <https://cloud.google.com/appengine/docs/standard/python/splitting-traffic>

NEW QUESTION 138

You want to configure an SSH connection to a single Compute Engine instance for users in the dev1 group. This instance is the only resource in this particular Google Cloud Platform project that the dev1 users should be able to connect to. What should you do?

- A. Set metadata to enable-oslogin=true for the instance
- B. Grant the dev1 group the compute.osLogin role. Direct them to use the Cloud Shell to ssh to that instance.
- C. Set metadata to enable-oslogin=true for the instance
- D. Set the service account to no service account for that instance
- E. Direct them to use the Cloud Shell to ssh to that instance.
- F. Enable block project wide keys for the instance
- G. Generate an SSH key for each user in the dev1 group. Distribute the keys to dev1 users and direct them to use their third-party tools to connect.
- H. Enable block project wide keys for the instance
- I. Generate an SSH key and associate the key with that instance
- J. Distribute the key to dev1 users and direct them to use their third-party tools to connect.

Answer: A

NEW QUESTION 141

You are building an archival solution for your data warehouse and have selected Cloud Storage to archive your data. Your users need to be able to access this archived data once a quarter for some regulatory requirements. You want to select a cost-efficient option. Which storage option should you use?

- A. Coldline Storage
- B. Nearline Storage
- C. Regional Storage
- D. Multi-Regional Storage

Answer: A

Explanation:

Coldline Storage is a very-low-cost, highly durable storage service for storing infrequently accessed data. Coldline Storage is ideal for data you plan to read or modify at most once a quarter. Since we have a requirement to access data once a quarter and want to go with the most cost-efficient option, we should select Coldline Storage.

Ref: <https://cloud.google.com/storage/docs/storage-classes#coldline>



This slide represents the different types of storage classes such as multi-regional, regional, storage nearline, and storage cold line of the Google Cloud.

Storage Class	Characteristics	Use Cases	Price (Per Gb Per Month)*
Multi-Regional Storage	<ul style="list-style-type: none"> 99.95% availability Geo-redundant 	Keeps information that is frequently accessed around the globe, such as videos, gaming, and mobile applications	\$0.026 per GB/Month
Regional Storage	<ul style="list-style-type: none"> 99.9% availability Low cost per GB stored Data storage in a small region 	Keeps information that is frequently accessed around the globe, such as videos, gaming, and mobile applications	\$0.02 per GB/Month
Storage Nearline	<ul style="list-style-type: none"> 99.0% availability Very low cost per GB Data fetching costs Higher per-task costs 30-day minimum storage duration 	Keeps data that is not accessed is often ideal for data backups	\$0.01 per GB/Month
Storage Cold line	<ul style="list-style-type: none"> 99.0% availability Lowest cost per GB Data fetching costs Higher per-task costs 90-day minimum storage duration 	Keeps information that is infrequently ideal for disaster recovery or archived data	\$0.007 per GB/Month

This slide is 100% editable. Adapt it to your needs and capture your audience's attention.

NEW QUESTION 145

You have been asked to set up Object Lifecycle Management for objects stored in storage buckets. The objects are written once and accessed frequently for 30 days. After 30 days, the objects are not read again unless there is a special need. The object should be kept for three years, and you need to minimize cost. What should you do?

- A. Set up a policy that uses Nearline storage for 30 days and then moves to Archive storage for three years.
- B. Set up a policy that uses Standard storage for 30 days and then moves to Archive storage for three years.
- C. Set up a policy that uses Nearline storage for 30 days, then moves the Coldline for one year, and then moves to Archive storage for two years.
- D. Set up a policy that uses Standard storage for 30 days, then moves to Coldline for one year, and then moves to Archive storage for two years.

Answer: B

Explanation:

The key to understand the requirement is : "The objects are written once and accessed frequently for 30 days" Standard Storage
Standard Storage is best for data that is frequently accessed ("hot" data) and/or stored for only brief periods of time.

Archive Storage

Archive Storage is the lowest-cost, highly durable storage service for data archiving, online backup, and disaster recovery. Unlike the "coldest" storage services offered by other Cloud providers, your data is available within milliseconds, not hours or days. Archive Storage is the best choice for data that you plan to access less than once a year.

<https://cloud.google.com/storage/docs/storage-classes#standard>

NEW QUESTION 146

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.

Answer: A

Explanation:

Cloud Run takes any container images and pairs great with the container ecosystem: Cloud Build, Artifact Registry, Docker. ... No infrastructure to manage: once deployed, Cloud Run manages your services so you can sleep well. Fast autoscaling. Cloud Run automatically scales up or down from zero to N depending on traffic.

<https://cloud.google.com/run>

NEW QUESTION 150

You have two subnets (subnet-a and subnet-b) in the default VPC. Your database servers are running in subnet-a. Your application servers and web servers are running in subnet-b. You want to configure a firewall rule that only allows database traffic from the application servers to the database servers. What should you do?

- A. * Create service accounts sa-app and sa-db. • Associate service account: sa-app with the application servers and the service account sa-db with the database servers. • Create an ingress firewall rule to allow network traffic from source service account sa-app to target service account sa-db.
- B. • Create network tags app-server and db-server. • Add the app-server tag to the application servers and the db-server tag to the database servers. • Create an egress firewall rule to allow network traffic from source network tag app-server to target network tag db-server.
- C. * Create a service account sa-app and a network tag db-server. * Associate the service account sa-app with the application servers and the network tag db-server with the database servers. • Create an ingress firewall rule to allow network traffic from source VPC IP addresses and target the subnet-a IP addresses.
- D. • Create a network tag app-server and service account sa-db. • Add the tag to the application servers and associate the service account with the database servers. • Create an egress firewall rule to allow network traffic from source network tag app-server to target service account sa-db.

Answer: C

NEW QUESTION 153

You are given a project with a single virtual private cloud (VPC) and a single subnetwork in the us-central1 region. There is a Compute Engine instance hosting an application in this subnetwork. You need to deploy a new instance in the same project in the europe-west1 region. This new instance needs access to the application. You want to follow Google-recommended practices. What should you do?

- A. 1. Create a subnetwork in the same VPC, in europe-west1. 2. Create the new instance in the new subnetwork and use the first instance's private address as the endpoint.
- B. 1. Create a VPC and a subnetwork in europe-west1. 2. Expose the application with an internal load balancer. 3. Create the new instance in the new subnetwork and use the load balancer's address as the endpoint.
- C. 1. Create a subnetwork in the same VPC, in europe-west1. 2. Use Cloud VPN to connect the two subnetworks. 3. Create the new instance in the new subnetwork and use the first instance's private address as the endpoint.
- D. 1. Create a VPC and a subnetwork in europe-west1. 2. Peer the 2 VPCs. 3. Create the new instance in the new subnetwork and use the first instance's private address as the endpoint.

Answer: C

Explanation:

➤ Given that the new instance wants to access the application on the existing compute engine instance, these applications seem to be related so they should be within the same VPC. It is possible to have them in different VPCs and peer the VPCs but this is a lot of additional work and we can simplify this by choosing the option below (which is the answer)

* 1. Create a subnet in the same VPC, in europe-west1.

* 2. Create the new instance in the new subnet and use the first instance subnets private address as the endpoint. is the right answer.

➤ We can create another subnet in the same VPC and this subnet is located in europe-west1. We can then spin up a new instance in this subnet. We also have to set up a firewall rule to allow communication between the two subnets. All instances in the two subnets with the same VPC can communicate through the internal IP Address

Ref: <https://cloud.google.com/vpc>

NEW QUESTION 154

You need to reduce GCP service costs for a division of your company using the fewest possible steps. You need to turn off all configured services in an existing GCP project. What should you do?

- A. * 1. Verify that you are assigned the Project Owners IAM role for this project. * 2. Locate the project in the GCP console, click Shut down and then enter the project ID.
- B. * 1. Verify that you are assigned the Project Owners IAM role for this project. * 2. Switch to the project in the GCP console, locate the resources and delete them.

- C. * 1. Verify that you are assigned the Organizational Administrator IAM role for this project.* 2. Locate the project in the GCP console, enter the project ID and then click Shut down.
- D. * 1. Verify that you are assigned the Organizational Administrators IAM role for this project.* 2. Switch to the project in the GCP console, locate the resources and delete them.

Answer: A

Explanation:

<https://cloud.google.com/run/docs/tutorials/gcloud> <https://cloud.google.com/resource-manager/docs/creating-managing-projects>

https://cloud.google.com/iam/docs/understanding-roles#primitive_roles

You can shut down projects using the Cloud Console. When you shut down a project, this immediately happens: All billing and traffic serving stops, You lose access to the project, The owners of the project will be notified and can stop the deletion within 30 days, The project will be scheduled to be deleted after 30 days. However, some resources may be deleted much earlier.

NEW QUESTION 156

Your existing application running in Google Kubernetes Engine (GKE) consists of multiple pods running on four GKE n1–standard–2 nodes. You need to deploy additional pods requiring n2–highmem–16 nodes without any downtime. What should you do?

- A. Use gcloud container clusters upgrad
- B. Deploy the new services.
- C. Create a new Node Pool and specify machine type n2–highmem–16. Deploy the new pods.
- D. Create a new cluster with n2–highmem–16 node
- E. Redeploy the pods and delete the old cluster.
- F. Create a new cluster with both n1–standard–2 and n2–highmem–16 node
- G. Redeploy the pods and delete the old cluster.

Answer: B

Explanation:

<https://cloud.google.com/kubernetes-engine/docs/concepts/deployment>

NEW QUESTION 161

Your company's infrastructure is on-premises, but all machines are running at maximum capacity. You want to burst to Google Cloud. The workloads on Google Cloud must be able to directly communicate to the workloads on-premises using a private IP range. What should you do?

- A. In Google Cloud, configure the VPC as a host for Shared VPC.
- B. In Google Cloud, configure the VPC for VPC Network Peering.
- C. Create bastion hosts both in your on-premises environment and on Google Clou
- D. Configure both as proxy servers using their public IP addresses.
- E. Set up Cloud VPN between the infrastructure on-premises and Google Cloud.

Answer: D

Explanation:

"Google Cloud VPC Network Peering allows internal IP address connectivity across two Virtual Private Cloud (VPC) networks regardless of whether they belong to the same project or the same organization."

<https://cloud.google.com/vpc/docs/vpc-peering> while

"Cloud Interconnect provides low latency, high availability connections that enable you to reliably transfer data between your on-premises and Google Cloud Virtual Private Cloud (VPC) networks."

<https://cloud.google.com/network-connectivity/docs/interconnect/concepts/overview> and

"HA VPN is a high-availability (HA) Cloud VPN solution that lets you securely connect your on-premises network to your VPC network through an IPsec VPN connection in a single region."

<https://cloud.google.com/network-connectivity/docs/vpn/concepts/overview>

NEW QUESTION 163

You deployed an application on a managed instance group in Compute Engine. The application accepts Transmission Control Protocol (TCP) traffic on port 389 and requires you to preserve the IP address of the client who is making a request. You want to expose the application to the internet by using a load balancer. What should you do?

- A. Expose the application by using an external TCP Network Load Balancer.
- B. Expose the application by using a TCP Proxy Load Balancer.
- C. Expose the application by using an SSL Proxy Load Balancer.
- D. Expose the application by using an internal TCP Network Load Balancer.

Answer: B

NEW QUESTION 164

Your company uses BigQuery for data warehousing. Over time, many different business units in your company have created 1000+ datasets across hundreds of projects. Your CIO wants you to examine all datasets to find tables that contain an employee_ssn column. You want to minimize effort in performing this task. What should you do?

- A. Go to Data Catalog and search for employee_ssn in the search box.
- B. Write a shell script that uses the bq command line tool to loop through all the projects in your organization.
- C. Write a script that loops through all the projects in your organization and runs a query on INFORMATION_SCHEMA.COLUMNS view to find the employee_ssn column.
- D. Write a Cloud Dataflow job that loops through all the projects in your organization and runs a query on INFORMATION_SCHEMA.COLUMNS view to find employee_ssn column.

Answer: A

Explanation:

<https://cloud.google.com/bigquery/docs/quickstarts/quickstart-web-ui?authuser=4>

NEW QUESTION 169

You are running a web application on Cloud Run for a few hundred users. Some of your users complain that the initial web page of the application takes much longer to load than the following pages. You want to follow Google's recommendations to mitigate the issue. What should you do?

- A. Update your web application to use the protocol HTTP/2 instead of HTTP/1.1
- B. Set the concurrency number to 1 for your Cloud Run service.
- C. Set the maximum number of instances for your Cloud Run service to 100.
- D. Set the minimum number of instances for your Cloud Run service to 3.

Answer: D

NEW QUESTION 173

You are performing a monthly security check of your Google Cloud environment and want to know who has access to view data stored in your Google Cloud Project. What should you do?

- A. Enable Audit Logs for all APIs that are related to data storage.
- B. Review the IAM permissions for any role that allows for data access.
- C. Review the Identity-Aware Proxy settings for each resource.
- D. Create a Data Loss Prevention job.

Answer: B

Explanation:

<https://cloud.google.com/logging/docs/audit>

NEW QUESTION 174

You are managing several Google Cloud Platform (GCP) projects and need access to all logs for the past 60 days. You want to be able to explore and quickly analyze the log contents. You want to follow Google- recommended practices to obtain the combined logs for all projects. What should you do?

- A. Navigate to Stackdriver Logging and select resource.labels.project_id="**"
- B. Create a Stackdriver Logging Export with a Sink destination to a BigQuery datase
- C. Configure the table expiration to 60 days.
- D. Create a Stackdriver Logging Export with a Sink destination to Cloud Storag
- E. Create a lifecycle rule to delete objects after 60 days.
- F. Configure a Cloud Scheduler job to read from Stackdriver and store the logs in BigQuer
- G. Configure the table expiration to 60 days.

Answer: B

Explanation:

➤ Navigate to Stackdriver Logging and select resource.labels.project_id=*. is not right.

Log entries are held in Stackdriver Logging for a limited time known as the retention period which is 30 days (default configuration). After that, the entries are deleted. To keep log entries longer, you need to export them outside of Stackdriver Logging by configuring log sinks.

Ref: <https://cloud.google.com/blog/products/gcp/best-practices-for-working-with-google-cloud-audit-logging> ➤ Configure a Cloud Scheduler job to read from

Stackdriver and store the logs in BigQuery. Configure the table expiration to 60 days. is not right.

While this works, it makes no sense to use Cloud Scheduler job to read from Stackdriver and store the logs in BigQuery when Google provides a feature (export sinks) that does exactly the same thing and works out of the box.Ref: https://cloud.google.com/logging/docs/export/configure_export_v2

➤ Create a Stackdriver Logging Export with a Sink destination to Cloud Storage. Create a lifecycle rule to delete objects after 60 days. is not right.

You can export logs by creating one or more sinks that include a logs query and an export destination. Supported destinations for exported log entries are Cloud Storage, BigQuery, and

Pub/Sub.Ref: https://cloud.google.com/logging/docs/export/configure_export_v2

Sinks are limited to exporting log entries from the exact resource in which the sink was created: a Google Cloud project, organization, folder, or billing account. If it makes it easier to exporting from all projects of an organization, you can create an aggregated sink that can export log entries from all the projects, folders, and billing accounts of a Google Cloud

organization.Ref: https://cloud.google.com/logging/docs/export/aggregated_sinks

Either way, we now have the data in Cloud Storage, but querying logs information from Cloud Storage is harder than Querying information from BigQuery dataset. For this reason, we should prefer Big Query over Cloud Storage.

➤ Create a Stackdriver Logging Export with a Sink destination to a BigQuery dataset. Configure the table expiration to 60 days. is the right answer.

You can export logs by creating one or more sinks that include a logs query and an export destination. Supported destinations for exported log entries are Cloud Storage, BigQuery, and

Pub/Sub.Ref: https://cloud.google.com/logging/docs/export/configure_export_v2

Sinks are limited to exporting log entries from the exact resource in which the sink was created: a Google Cloud project, organization, folder, or billing account. If it makes it easier to exporting from all projects of an organization, you can create an aggregated sink that can export log entries from all the projects, folders, and billing accounts of a Google Cloud

organization.Ref: https://cloud.google.com/logging/docs/export/aggregated_sinks

Either way, we now have the data in a BigQuery Dataset. Querying information from a Big Query dataset is easier and quicker than analyzing contents in Cloud Storage bucket. As our requirement is to Quickly analyze the log contents, we should prefer Big Query over Cloud Storage.

Also, You can control storage costs and optimize storage usage by setting the default table expiration for newly created tables in a dataset. If you set the property when the dataset is created, any table created in the dataset is deleted after the expiration period. If you set the property after the dataset is created, only new tables are deleted after the expiration period.For example, if you set the default table expiration to 7 days, older data is automatically deleted after 1 week.Ref:

<https://cloud.google.com/bigquery/docs/best-practices-storage>

NEW QUESTION 176

You have sensitive data stored in three Cloud Storage buckets and have enabled data access logging. You want to verify activities for a particular user for these

buckets, using the fewest possible steps. You need to verify the addition of metadata labels and which files have been viewed from those buckets. What should you do?

- A. Using the GCP Console, filter the Activity log to view the information.
- B. Using the GCP Console, filter the Stackdriver log to view the information.
- C. View the bucket in the Storage section of the GCP Console.
- D. Create a trace in Stackdriver to view the information.

Answer: A

Explanation:

<https://cloud.google.com/storage/docs/audit-logs> https://cloud.google.com/compute/docs/logging/audit-logging#audited_operations

NEW QUESTION 179

The DevOps group in your organization needs full control of Compute Engine resources in your development project. However, they should not have permission to create or update any other resources in the project. You want to follow Google's recommendations for setting permissions for the DevOps group. What should you do?

- A. Grant the basic role roles/viewer and the predefined role roles/compute.admin to the DevOps group.
- B. Create an IAM policy and grant all compute
- C. instanceAdmin." permissions to the policy Attach the policy to the DevOps group.
- D. Create a custom role at the folder level and grant all compute
- E. instanceAdmin
- F. * permissions to the role Grant the custom role to the DevOps group.
- G. Grant the basic role roles/editor to the DevOps group.

Answer: A

NEW QUESTION 181

You want to find out when users were added to Cloud Spanner Identity Access Management (IAM) roles on your Google Cloud Platform (GCP) project. What should you do in the GCP Console?

- A. Open the Cloud Spanner console to review configurations.
- B. Open the IAM & admin console to review IAM policies for Cloud Spanner roles.
- C. Go to the Stackdriver Monitoring console and review information for Cloud Spanner.
- D. Go to the Stackdriver Logging console, review admin activity logs, and filter them for Cloud Spanner IAM roles.

Answer: D

Explanation:

<https://cloud.google.com/monitoring/audit-logging>

NEW QUESTION 185

You are building a multi-player gaming application that will store game information in a database. As the popularity of the application increases, you are concerned about delivering consistent performance. You need to ensure an optimal gaming performance for global users, without increasing the management complexity. What should you do?

- A. Use Cloud SQL database with cross-region replication to store game statistics in the EU, US, and APAC regions.
- B. Use Cloud Spanner to store user data mapped to the game statistics.
- C. Use BigQuery to store game statistics with a Redis on Memorystore instance in the front to provide global consistency.
- D. Store game statistics in a Bigtable database partitioned by username.

Answer: B

NEW QUESTION 188

You are working in a team that has developed a new application that needs to be deployed on Kubernetes. The production application is business critical and should be optimized for reliability. You need to provision a Kubernetes cluster and want to follow Google-recommended practices. What should you do?

- A. Create a GKE Autopilot cluster
- B. Enroll the cluster in the rapid release channel.
- C. Create a GKE Autopilot cluster
- D. Enroll the cluster in the stable release channel.
- E. Create a zonal GKE standard cluster
- F. Enroll the cluster in the stable release channel.
- G. Create a regional GKE standard cluster
- H. Enroll the cluster in the rapid release channel.

Answer: B

Explanation:

Autopilot is more reliable and stable release gives more time to fix issues in new version of GKE

NEW QUESTION 192

You have an application that uses Cloud Spanner as a backend database. The application has a very predictable traffic pattern. You want to automatically scale up or down the number of Spanner nodes depending on traffic. What should you do?

- A. Create a cron job that runs on a scheduled basis to review stackdriver monitoring metrics, and then resize the Spanner instance accordingly.
- B. Create a Stackdriver alerting policy to send an alert to oncall SRE emails when Cloud Spanner CPU exceeds the threshold

- C. SREs would scale resources up or down accordingly.
- D. Create a Stackdriver alerting policy to send an alert to Google Cloud Support email when Cloud Spanner CPU exceeds your threshold
- E. Google support would scale resources up or down accordingly.
- F. Create a Stackdriver alerting policy to send an alert to webhook when Cloud Spanner CPU is over or under your threshold
- G. Create a Cloud Function that listens to HTTP and resizes Spanner resources accordingly.

Answer: D

Explanation:

As to mexblood1's point, CPU utilization is a recommended proxy for traffic when it comes to Cloud Spanner. See: Alerts for high CPU utilization The following table specifies our recommendations for maximum CPU usage for both single-region and multi-region instances. These numbers are to ensure that your instance has enough compute capacity to continue to serve your traffic in the event of the loss of an entire zone (for single-region instances) or an entire region (for multi-region instances). - <https://cloud.google.com/spanner/docs/cpu-utilization>

NEW QUESTION 194

You need to verify that a Google Cloud Platform service account was created at a particular time. What should you do?

- A. Filter the Activity log to view the Configuration category
- B. Filter the Resource type to Service Account.
- C. Filter the Activity log to view the Configuration category
- D. Filter the Resource type to Google Project.
- E. Filter the Activity log to view the Data Access category
- F. Filter the Resource type to Service Account.
- G. Filter the Activity log to view the Data Access category
- H. Filter the Resource type to Google Project.

Answer: A

Explanation:

<https://developers.google.com/cloud-search/docs/guides/audit-logging-manual>

NEW QUESTION 198

Your team maintains the infrastructure for your organization. The current infrastructure requires changes. You need to share your proposed changes with the rest of the team. You want to follow Google's recommended best practices. What should you do?

- A. Use Deployment Manager templates to describe the proposed changes and store them in a Cloud Storage bucket.
- B. Use Deployment Manager templates to describe the proposed changes and store them in Cloud Source Repositories.
- C. Apply the change in a development environment, run `gcloud compute instances list`, and then save the output in a shared Storage bucket.
- D. Apply the change in a development environment, run `gcloud compute instances list`, and then save the output in Cloud Source Repositories.

Answer: B

Explanation:

Showing Deployment Manager templates to your team will allow you to define the changes you want to implement in your cloud infrastructure. You can use Cloud Source Repositories to store Deployment Manager templates and collaborate with your team. Cloud Source Repositories are fully-featured, scalable, and private Git repositories you can use to store, manage and track changes to your code.

<https://cloud.google.com/source-repositories/docs/features>

NEW QUESTION 199

Your organization has user identities in Active Directory. Your organization wants to use Active Directory as their source of truth for identities. Your organization wants to have full control over the Google accounts used by employees for all Google services, including your Google Cloud Platform (GCP) organization. What should you do?

- A. Use Google Cloud Directory Sync (GCDS) to synchronize users into Cloud Identity.
- B. Use the cloud Identity APIs and write a script to synchronize users to Cloud Identity.
- C. Export users from Active Directory as a CSV and import them to Cloud Identity via the Admin Console.
- D. Ask each employee to create a Google account using self signu
- E. Require that each employee use their company email address and password.

Answer: A

NEW QUESTION 202

You have a Linux VM that must connect to Cloud SQL. You created a service account with the appropriate access rights. You want to make sure that the VM uses this service account instead of the default Compute Engine service account. What should you do?

- A. When creating the VM via the web console, specify the service account under the 'Identity and API Access' section.
- B. Download a JSON Private Key for the service account
- C. On the Project Metadata, add that JSON as the value for the key `compute-engine-service-account`.
- D. Download a JSON Private Key for the service account
- E. On the Custom Metadata of the VM, add that JSON as the value for the key `compute-engine-service-account`.
- F. Download a JSON Private Key for the service account
- G. After creating the VM, ssh into the VM and save the JSON under `~/gcloud/compute-engine-service-account.json`.

Answer: A

NEW QUESTION 205

You are migrating a production-critical on-premises application that requires 96 vCPUs to perform its task. You want to make sure the application runs in a similar environment on GCP. What should you do?

- A. When creating the VM, use machine type n1-standard-96.
- B. When creating the VM, use Intel Skylake as the CPU platform.
- C. Create the VM using Compute Engine default setting
- D. Use gcloud to modify the running instance to have 96 vCPUs.
- E. Start the VM using Compute Engine default settings, and adjust as you go based on Rightsizing Recommendations.

Answer: A

Explanation:

Ref: https://cloud.google.com/compute/docs/machine-types#n1_machine_type

NEW QUESTION 210

You want to configure a solution for archiving data in a Cloud Storage bucket. The solution must be cost-effective. Data with multiple versions should be archived after 30 days. Previous versions are accessed once a month for reporting. This archive data is also occasionally updated at month-end. What should you do?

- A. Add a bucket lifecycle rule that archives data with newer versions after 30 days to Coldline Storage.
- B. Add a bucket lifecycle rule that archives data with newer versions after 30 days to Nearline Storage.
- C. Add a bucket lifecycle rule that archives data from regional storage after 30 days to Coldline Storage.
- D. Add a bucket lifecycle rule that archives data from regional storage after 30 days to Nearline Storage.

Answer: B

NEW QUESTION 215

You need a dynamic way of provisioning VMs on Compute Engine. The exact specifications will be in a dedicated configuration file. You want to follow Google's recommended practices. Which method should you use?

- A. Deployment Manager
- B. Cloud Composer
- C. Managed Instance Group
- D. Unmanaged Instance Group

Answer: A

Explanation:

<https://cloud.google.com/deployment-manager/docs/configuration/create-basic-configuration>

NEW QUESTION 218

You have a large 5-TB AVRO file stored in a Cloud Storage bucket. Your analysts are proficient only in SQL and need access to the data stored in this file. You want to find a cost-effective way to complete their request as soon as possible. What should you do?

- A. Load data in Cloud Datastore and run a SQL query against it.
- B. Create a BigQuery table and load data in BigQuer
- C. Run a SQL query on this table and drop this table after you complete your request.
- D. Create external tables in BigQuery that point to Cloud Storage buckets and run a SQL query on these external tables to complete your request.
- E. Create a Hadoop cluster and copy the AVRO file to NDfs by compressing i
- F. Load the file in a hive table and provide access to your analysts so that they can run SQL queries.

Answer: C

Explanation:

<https://cloud.google.com/bigquery/external-data-sources>

An external data source is a data source that you can query directly from BigQuery, even though the data is not stored in BigQuery storage.

BigQuery supports the following external data sources: Amazon S3

Azure Storage Cloud Bigtable Cloud Spanner Cloud SQL Cloud Storage

Drive

NEW QUESTION 219

You have an instance group that you want to load balance. You want the load balancer to terminate the client SSL session. The instance group is used to serve a public web application over HTTPS. You want to follow Google-recommended practices. What should you do?

- A. Configure an HTTP(S) load balancer.
- B. Configure an internal TCP load balancer.
- C. Configure an external SSL proxy load balancer.
- D. Configure an external TCP proxy load balancer.

Answer: A

NEW QUESTION 222

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 GPU
- D. Dedicate this cluster to your ML team.
- E. Add a new, GPU-enabled, node pool to the GKE cluste
- F. Ask your ML team to add the cloud.google.com/gke -accelerator: nvidia-tesla-p100 nodeSelector to their pod specification.

Answer: D

Explanation:

This is the most optimal solution. Rather than recreating all nodes, you create a new node pool with GPU enabled. You then modify the pod specification to target particular GPU types by adding node selector to your workloads Pod specification. YOur still have a single cluster so you pay Kubernetes cluster management fee for just one cluster thus minimizing the

cost.Ref: <https://cloud.google.com/kubernetes-engine/docs/how-to/gpus>Ref: <https://cloud.google.com/kubern>

Example:

```
> apiVersion: v1
> kind: Pod
> metadata:
> name: my-gpu-pod
> spec:
> containers:
> name: my-gpu-container
> image: nvidia/cuda:10.0-runtime-ubuntu18.04
> command: [/bin/bash]
> resources:
> limits:
> nvidia.com/gpu: 2
> nodeSelector:
> cloud.google.com/gke-accelerator: nvidia-tesla-k80 # or nvidia-tesla-p100 or nvidia-tesla-p4 or nvidia-tesla-v100 or nvidia-tesla-t4
```

NEW QUESTION 227

Several employees at your company have been creating projects with Cloud Platform and paying for it with their personal credit cards, which the company reimburses. The company wants to centralize all these projects under a single, new billing account. What should you do?

- A. Contact cloud-billing@google.com with your bank account details and request a corporate billing account for your company.
- B. Create a ticket with Google Support and wait for their call to share your credit card details over the phone.
- C. In the Google Platform Console, go to the Resource Manager and move all projects to the root Organization.
- D. In the Google Cloud Platform Console, create a new billing account and set up a payment method.

Answer: D

Explanation:

(https://cloud.google.com/resource-manager/docs/project-migration#change_billing_account) <https://cloud.google.com/billing/docs/concepts>
<https://cloud.google.com/resource-manager/docs/project-migration>

NEW QUESTION 230

You are building an application that stores relational data from users. Users across the globe will use this application. Your CTO is concerned about the scaling requirements because the size of the user base is unknown. You need to implement a database solution that can scale with your user growth with minimum configuration changes. Which storage solution should you use?

- A. Cloud SQL
- B. Cloud Spanner
- C. Cloud Firestore
- D. Cloud Datastore

Answer: B

Explanation:

Cloud Spanner is a relational database and is highly scalable. Cloud Spanner is a highly scalable, enterprise-grade, globally-distributed, and strongly consistent database service built for the cloud specifically to combine the benefits of relational database structure with a non-relational horizontal scale. This combination delivers high-performance transactions and strong consistency across rows, regions, and continents with an industry-leading 99.999% availability SLA, no planned downtime, and enterprise-grade security

Ref: <https://cloud.google.com/spanner>

Graphical user interface, application, Teams Description automatically generated

	CLOUD SPANNER	TRADITIONAL RELATIONAL	TRADITIONAL NON-RELATIONAL
Schema	✓ Yes	✓ Yes	✗ No
SQL	✓ Yes	✓ Yes	✗ No
Consistency	✓ Strong	✓ Strong	✗ Eventual
Availability	✓ High	✗ Failover	✓ High
Scalability	✓ Horizontal	✗ Vertical	✓ Horizontal
Replication	✓ Automatic	⚙ Configurable	⚙ Configurable

NEW QUESTION 234

You have an application that receives SSL-encrypted TCP traffic on port 443. Clients for this application are located all over the world. You want to minimize latency for the clients. Which load balancing option should you use?

- A. HTTPS Load Balancer
- B. Network Load Balancer
- C. SSL Proxy Load Balancer
- D. Internal TCP/UDP Load Balance
- E. Add a firewall rule allowing ingress traffic from 0.0.0.0/0 on the target instances.

Answer: C

NEW QUESTION 238

You want to select and configure a cost-effective solution for relational data on Google Cloud Platform. You are working with a small set of operational data in one geographic location. You need to support point-in-time recovery. What should you do?

- A. Select Cloud SQL (MySQL). Verify that the enable binary logging option is selected.
- B. Select Cloud SQL (MySQL). Select the create failover replicas option.
- C. Select Cloud Spanne
- D. Set up your instance with 2 nodes.
- E. Select Cloud Spanne
- F. Set up your instance as multi-regional.

Answer: A

NEW QUESTION 241

You have a batch workload that runs every night and uses a large number of virtual machines (VMs). It is fault- tolerant and can tolerate some of the VMs being terminated. The current cost of VMs is too high. What should you do?

- A. Run a test using simulated maintenance event
- B. If the test is successful, use preemptible N1 Standard VMs when running future jobs.
- C. Run a test using simulated maintenance event
- D. If the test is successful, use N1 Standard VMs when running future jobs.
- E. Run a test using a managed instance grou
- F. If the test is successful, use N1 Standard VMs in the managed instance group when running future jobs.
- G. Run a test using N1 standard VMs instead of N2. If the test is successful, use N1 Standard VMs when running future jobs.

Answer: A

Explanation:

Creating and starting a preemptible VM instance This page explains how to create and use a preemptible virtual machine (VM) instance. A preemptible instance is an instance you can create and run at a much lower price than normal instances. However, Compute Engine might terminate (preempt) these instances if it requires access to those resources for other tasks. Preemptible instances will always terminate after 24 hours. To learn more about preemptible instances, read the preemptible instances documentation. Preemptible instances are recommended only for fault-tolerant applications that can withstand instance preemptions. Make sure your application can handle preemptions before you decide to create a preemptible instance. To understand the risks and value of preemptible instances, read the preemptible instances documentation. <https://cloud.google.com/compute/docs/instances/create-start-preemptible-instance>

NEW QUESTION 243

You want to permanently delete a Pub/Sub topic managed by Config Connector in your Google Cloud project. What should you do?

- A. Use kubectl to delete the topic resource.
- B. Use gcloud CLI to delete the topic.
- C. Use kubectl to create the label deleted-by-cnrm and to change its value to true for the topic resource.
- D. Use gcloud CLI to update the topic label managed-by-cnrm to false.

Answer: A

NEW QUESTION 244

You are asked to set up application performance monitoring on Google Cloud projects A, B, and C as a single pane of glass. You want to monitor CPU, memory, and disk. What should you do?

- A. Enable API and then share charts from project A, B, and C.
- B. Enable API and then give the metrics.reader role to projects A, B, and C.
- C. Enable API and then use default dashboards to view all projects in sequence.
- D. Enable API, create a workspace under project A, and then add project B and C.

Answer: D

Explanation:

<https://cloud.google.com/monitoring/settings/multiple-projects> <https://cloud.google.com/monitoring/workspaces>

NEW QUESTION 246

You created several resources in multiple Google Cloud projects. All projects are linked to different billing accounts. To better estimate future charges, you want to have a single visual representation of all costs incurred. You want to include new cost data as soon as possible. What should you do?

- A. Configure Billing Data Export to BigQuery and visualize the data in Data Studio.
- B. Visit the Cost Table page to get a CSV export and visualize it using Data Studio.
- C. Fill all resources in the Pricing Calculator to get an estimate of the monthly cost.

D. Use the Reports view in the Cloud Billing Console to view the desired cost information.

Answer: A

Explanation:

<https://cloud.google.com/billing/docs/how-to/export-data-bigquery> "Cloud Billing export to BigQuery enables you to export detailed Google Cloud billing data (such as usage, cost estimates, and pricing data) automatically throughout the day to a BigQuery dataset that you specify."

NEW QUESTION 249

You need to update a deployment in Deployment Manager without any resource downtime in the deployment. Which command should you use?

- A. `gcloud deployment-manager deployments create --config <deployment-config-path>`
- B. `gcloud deployment-manager deployments update --config <deployment-config-path>`
- C. `gcloud deployment-manager resources create --config <deployment-config-path>`
- D. `gcloud deployment-manager resources update --config <deployment-config-path>`

Answer: B

NEW QUESTION 251

You have just created a new project which will be used to deploy a globally distributed application. You will use Cloud Spanner for data storage. You want to create a Cloud Spanner instance. You want to perform the first step in preparation of creating the instance. What should you do?

- A. Grant yourself the IAM role of Cloud Spanner Admin
- B. Create a new VPC network with subnetworks in all desired regions
- C. Configure your Cloud Spanner instance to be multi-regional
- D. Enable the Cloud Spanner API

Answer: A

Explanation:

<https://cloud.google.com/spanner/docs/getting-started/set-up>

NEW QUESTION 255

Your organization uses G Suite for communication and collaboration. All users in your organization have a G Suite account. You want to grant some G Suite users access to your Cloud Platform project. What should you do?

- A. Enable Cloud Identity in the GCP Console for your domain.
- B. Grant them the required IAM roles using their G Suite email address.
- C. Create a CSV sheet with all users' email addresses
- D. Use the `gcloud` command line tool to convert them into Google Cloud Platform accounts.
- E. In the G Suite console, add the users to a special group called `cloud-console-users@yourdomain.com`. Rely on the default behavior of the Cloud Platform to grant users access if they are members of this group.

Answer: B

NEW QUESTION 258

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
- D. Deploy the new version in that application. Use the App Engine library to proxy 1% of the requests to the new version.
- E. Create a new App Engine application in the same project
- F. Deploy the new version in that application. Configure your network load balancer to send 1% of the traffic to that new application.

Answer: B

Explanation:

<https://cloud.google.com/appengine/docs/standard/python/splitting-traffic#gcloud>

NEW QUESTION 263

You have deployed an application on a single Compute Engine instance. The application writes logs to disk. Users start reporting errors with the application. You want to diagnose the problem. What should you do?

- A. Navigate to Cloud Logging and view the application logs.
- B. Connect to the instance's serial console and read the application logs.
- C. Configure a Health Check on the instance and set a Low Healthy Threshold value.
- D. Install and configure the Cloud Logging Agent and view the logs from Cloud Logging.

Answer: D

NEW QUESTION 267

You are working for a hospital that stores its medical images in an on-premises data room. The hospital wants to use Cloud Storage for archival storage of these images. The hospital wants an automated process to upload any new medical images to Cloud Storage. You need to design and implement a solution. What should you do?

- A. Deploy a Dataflow job from the batch template "Datastore to Cloud Storage" Schedule the batch job on the desired interval
- B. In the Cloud Console, go to Cloud Storage Upload the relevant images to the appropriate bucket
- C. Create a script that uses the gsutil command line interface to synchronize the on-premises storage with Cloud Storage Schedule the script as a cron job
- D. Create a Pub/Sub topic, and enable a Cloud Storage trigger for the Pub/Sub topic
- E. Create an application that sends all medical images to the Pub/Sub topic

Answer: C

Explanation:

they require cloud storage for archival and they want to automate the process to upload new medical image to cloud storage, hence we go for gsutil to copy on-prem images to cloud storage and automate the process via cron job. whereas Pub/Sub listens to the changes in the Cloud Storage bucket and triggers the pub/sub topic, which is not required.

NEW QUESTION 268

You want to select and configure a solution for storing and archiving data on Google Cloud Platform. You need to support compliance objectives for data from one geographic location. This data is archived after 30 days and needs to be accessed annually. What should you do?

- A. Select Multi-Regional Storage
- B. Add a bucket lifecycle rule that archives data after 30 days to Coldline Storage.
- C. Select Multi-Regional Storage
- D. Add a bucket lifecycle rule that archives data after 30 days to Nearline Storage.
- E. Select Regional Storage
- F. Add a bucket lifecycle rule that archives data after 30 days to Nearline Storage.
- G. Select Regional Storage
- H. Add a bucket lifecycle rule that archives data after 30 days to Coldline Storage.

Answer: D

Explanation:

Google Cloud Coldline is a new cold-tier storage for archival data with access frequency of less than once per year. Unlike other cold storage options, Nearline has no delays prior to data access, so now it is the leading solution among competitors.

The Real description is about Coldline storage Class: Coldline Storage

Coldline Storage is a very-low-cost, highly durable storage service for storing infrequently accessed data. Coldline Storage is a better choice than Standard Storage or Nearline Storage in scenarios where slightly lower availability, a 90-day minimum storage duration, and higher costs for data access are acceptable trade-offs for lowered at-rest storage costs.

Coldline Storage is ideal for data you plan to read or modify at most once a quarter. Note, however, that for data being kept entirely for backup or archiving purposes, Archive Storage is more cost-effective, as it offers the lowest storage costs.

<https://cloud.google.com/storage/docs/storage-classes#coldline>

NEW QUESTION 273

You have a number of applications that have bursty workloads and are heavily dependent on topics to decouple publishing systems from consuming systems. Your company would like to go serverless to enable developers to focus on writing code without worrying about infrastructure. Your solution architect has already identified Cloud Pub/Sub as a suitable alternative for decoupling systems. You have been asked to identify a suitable GCP Serverless service that is easy to use with Cloud Pub/Sub. You want the ability to scale down to zero when there is no traffic in order to minimize costs. You want to follow Google recommended practices. What should you suggest?

- A. Cloud Run for Anthos
- B. Cloud Run
- C. App Engine Standard
- D. Cloud Functions.

Answer: D

Explanation:

Cloud Functions is Google Cloud's event-driven serverless compute platform that lets you run your code locally or in the cloud without having to provision servers.

Cloud Functions scales up or down, so you pay only for compute resources you use. Cloud Functions have excellent integration with Cloud Pub/Sub, lets you scale down to zero and is recommended by Google as the ideal serverless platform to use when dependent on Cloud Pub/Sub. "If you're building a simple API (a small set of functions to be accessed via HTTP or Cloud Pub/Sub), we recommend using Cloud Functions." Ref: <https://cloud.google.com/serverless-options>

NEW QUESTION 274

You have production and test workloads that you want to deploy on Compute Engine. Production VMs need to be in a different subnet than the test VMs. All the VMs must be able to reach each other over internal IP without creating additional routes. You need to set up VPC and the 2 subnets. Which configuration meets these requirements?

- A. Create a single custom VPC with 2 subnet
- B. Create each subnet in a different region and with a different CIDR range.
- C. Create a single custom VPC with 2 subnet
- D. Create each subnet in the same region and with the same CIDR range.
- E. Create 2 custom VPCs, each with a single subnet
- F. Create each subnet in a different region and with a different CIDR range.
- G. Create 2 custom VPCs, each with a single subnet
- H. Create each subnet in the same region and with the same CIDR range.

Answer: A

Explanation:

When we create subnets in the same VPC with different CIDR ranges, they can communicate automatically within VPC. Resources within a VPC network can communicate with one another by using internal (private) IPv4 addresses, subject to applicable network firewall rules

Ref: <https://cloud.google.com/vpc/docs/vpc>

NEW QUESTION 279

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