

Google Associate Cloud Engineer

**Set 1**

Question # 1

You have a Dockerfile that you need to deploy on Kubernetes Engine. What should you do?

1. Use kubectl app deploy <dockerfilename>.

Question #2

You need to create a custom VPC with a single subnet. The subnet's range must be as large as possible. Which range should you use

B. 10.0.0.0/8

Question #3

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?

1. Select Cloud SQL (MySQL). Verify that the enable binary logging option is selected.

Question #4

You want to configure autohealing for network load balancing for a group of Compute Engine instances that run in multiple zones, using the fewest possible steps. You need to configure re-creation of VMs if they are unresponsive after 3 attempts of 10 seconds each. What should you do?

1. Create a managed instance group. Set the Autohealing health check to healthy (HTTP)

Question #5

You are using multiple configurations for gcloud. You want to review the configured Kubernetes Engine cluster of an inactive configuration using the fewest possible steps. What should you do?

1. Use kubectl config use-context and kubectl config view to review the output.

Question #6

Your company uses Cloud Storage to store application backup files for disaster recovery purposes. You want to follow Google's recommended practices. Which storage option should you use?

1. Coldline Storage

Question # 7

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?

1. In the Google Platform Console, go to the Resource Manage and move all projects to the root Organizarion.

Question # 8

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?

1. Reserve the IP 10.0.3.21 as a static internal IP address using gcloud and assign it to the licensing server.

Question #9

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?

1. Automatic Scaling with min\_idle\_instances set to 3.

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?

1. Use gcloud iam roles copy and specify the production project as the destination project.

Question # 11

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?

1. Deployment Manager

Question # 12

Every employee of your company has a Google account. Your operational team needs to manage a large number of instances on Compute Engine. Each member of this team needs only administrative access to the servers. Your security team wants to ensure that the deployment of credentials is operationally efficient and must be able to determine who accessed a given instance. What should you do?

1. Ask each member of the team to generate a new SSH key pair and to add the public key to their Google account. Grant the "compute.osAdminLogin" role to the Google group corresponding to this team.

Question # 13

Your development team needs a new Jenkins server for their project. You need to deploy the server using the fewest steps possible. What should you do?

1. Use GCP Marketplace to launch the Jenkins solution.

Question # 14

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

1. gcloud deployment-manager deployments update --config <deployment-config-path>

Question # 15

You need to run an important query in BigQuery but expect it to return a lot of records. You want to find out how much it will cost to run the query. You are using on-demand pricing. What should you do?

1. Use the command line to run a dry run query to estimate the number of bytes read. Then convert that bytes estimate to dollars using the Pricing Calculator.

Question # 16

You have a single binary application that you want to run on Google Cloud Platform. You decided to automatically scale the application based on underlying infrastructure CPU usage. Your organizational policies require you to use virtual machines directly. You need to ensure that the application scaling is operationally efficient and completed as quickly as possible. What should you do?

1. Create an instance template, and use the template in a managed instance group with autoscaling configured.

17

You are analyzing Google Cloud Platform service costs from three separate projects. You want to use this information to create service cost estimates by service type, daily and monthly, for the next six months using standard query syntax. What should you do?

1. Export your bill to a BigQuery dataset, and then write time window-based SQL queries for analysis.

Question # 18

You need to set up a policy so that videos stored in a specific Cloud Storage Regional bucket are moved to Coldline after 90 days, and then deleted after one year from their creation. How should you set up the policy?

1. Use Cloud Storage Object Lifecycle Management using Age conditions with SetStorageClass and Delete actions. Set the SetStorageClass action to 90 days and the Delete action to 365 days.

Question # 19

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?

1. When creating the VM via the web console, specify the service account under the "˜Identity and API Access' section.

Question #20

You created an instance of SQL Server 2017 on Compute Engine to test features in the new version. You want to connect to this instance using the fewest number of steps. What should you do?

1. Set a Windows username and password in the GCP Console. Verify that a firewall rule for port 3389 exists. Click the RDP button in the GCP Console, and supply the credentials to log in.

Question #21.

You have one GCP account running in your default region and zone and another account running in a non-default region and zone. You want to start a new Compute Engine instance in these two Google Cloud Platform accounts using the command line interface. What should you do?

1. Create two configurations using gcloud config configurations create [NAME]. Run gcloud config configurations activate [NAME] to switch between accounts when running the commands to start the Compute Engine instances.

Question # 22

You significantly changed a complex Deployment Manager template and want to confirm that the dependencies of all defined resources are properly met before committing it to the project. You want the most rapid feedback on your changes. What should you do?

1. Execute the Deployment Manager template using the ""-preview option in the same project, and observe the state of interdependent resources.

Question # 23

You are building a pipeline to process time-series data. Which Google Cloud Platform services should you put in boxes 1,2,3, and 4?

1. Cloud Pub/Sub, Cloud Dataflow, Cloud Bigtable, BigQuery

Question #24

You have a project for your App Engine application that serves a development environment. The required testing has succeeded and you want to create a new project to serve as your production environment. What should you do?

1. Use gcloud to create the new project, and then deploy your application to the new project.

Question # 25

You need to configure IAM access audit logging in BigQuery for external auditors. You want to follow Google- recommended practices. What should you do?

1. Add the auditors group to the "˜logging.viewer' and "˜bigQuery.dataViewer' predefined IAM roles.

Question #26

You need to set up permissions for a set of Compute Engine instances to enable them to write data into a particular Cloud Storage bucket. You want to follow

Google-recommended practices. What should you do?

1. Create a service account and add it to the IAM role "˜storage.objectCreator' for that bucket.

Question # 27

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?

1. Using the GCP Console, filter the Activity log to view the information.

Question # 28

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?

1. Storage Admin

Question #29

You have an object in a Cloud Storage bucket that you want to share with an external company. The object contains sensitive data. You want access to the content to be removed after four hours. The external company does not have a Google account to which you can grant specific user-based access privileges. You want to use the most secure method that requires the fewest steps. What should you do?

1. Create a signed URL with a four-hour expiration and share the URL with the company.

Question #30

You are creating a Google Kubernetes Engine (GKE) cluster with a cluster autoscaler feature enabled. You need to make sure that each node of the cluster will run a monitoring pod that sends container metrics to a third-party monitoring solution. What should you do?

1. Deploy the monitoring pod in a DaemonSet object.

Question #31

You want to send and consume Cloud Pub/Sub messages from your App Engine application. The Cloud Pub/Sub API is currently disabled. You will use a service account to authenticate your application to the API. You want to make sure your application can use Cloud Pub/Sub. What should you do?

1. Enable the Cloud Pub/Sub API in the API Library on the GCP Console.

Question #32

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?

1. Configure a single Stackdriver account, and link all projects to the same account.

Question #33

You are deploying an application to a Compute Engine VM in a managed instance group. The application must be running at all times, but only a single instance of the VM should run per GCP project. How should you configure the instance group?

1. Set autoscaling to On, set the minimum number of instances to 1, and then set the maximum number of instances to 1.

Question #34

You want to verify the IAM users and roles assigned within a GCP project named my-project. What should you do?

1. Navigate to the project and then to the IAM section in the GCP Console. Review the members and roles.

Question #35

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

1. Verify that you are Project Billing Manager for the GCP project. Create a new billing account and link the new billing account to the existing project.

Question #36

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?

1. Grant the service account the IAM Role of Compute Storage Admin in the project called proj-vm.

Question #37

You created a Google Cloud Platform project with an App Engine application inside the project. You initially configured the application to be served from the us- central region. Now you want the application to be served from the asia-northeast1 region. What should you do?

1. Create a new GCP project and create an App Engine application inside this new project. Specify asia-northeast1 as the region to serve your application.

Question #38

You need to grant access for three users so that they can view and edit table data on a Cloud Spanner instance. What should you do?

1. Run gcloud iam roles describe roles/spanner.databaseUser. Add the users to a new group. Add the group to the role.

Question #39

You create a new Google Kubernetes Engine (GKE) cluster and want to make sure that it always runs a supported and stable version of Kubernetes. What should you do?

1. Enable the Node Auto-Upgrades feature for your GKE cluster.

Question #40

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?

1. Configure an HTTP(S) load balancer.

Question #41

You have 32 GB of data in a single file that you need to upload to a Nearline Storage bucket. The WAN connection you are using is rated at 1 Gbps, and you are the only one on the connection. You want to use as much of the rated 1 Gbps as possible to transfer the file rapidly. How should you upload the file?

1. Enable parallel composite uploads using gsutil on the file transfer.

Question #42

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



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?

1. Store the database password inside a Secret object. Modify the YAML file to populate the DB\_PASSWORD environment variable from the Secret.

Question #43

You are running an application on multiple virtual machines within a managed instance group and have autoscaling enabled. The autoscaling policy is configured so that additional instances are added to the group if the CPU utilization of instances goes above 80%. VMs are added until the instance group reaches its maximum limit of five

VMs or until CPU utilization of instances lowers to 80%. The initial delay for HTTP health checks against the instances is set to 30 seconds. The virtual machine instances take around three minutes to become available for users. You observe that when the instance group autoscales, it adds more instances then necessary to support the levels of end-user traffic. You want to properly maintain instance group sizes when autoscaling. What should you do?

1. Increase the initial delay of the HTTP health check to 200 seconds.

Question #44

You need to select and configure compute resources for a set of batch processing jobs. These jobs take around 2 hours to complete and are run nightly. You want to minimize service costs. What should you do?

1. Select Compute Engine. Use preemptible VM instances of the appropriate standard machine type.

Question #45

You recently deployed a new version of an application to App Engine and then discovered a bug in the release. You need to immediately revert to the prior version of the application. What should you do?

1. On the App Engine Versions page of the GCP Console, route 100% of the traffic to the previous version.

Question #46

You deployed an App Engine application using gcloud app deploy, but it did not deploy to the intended project. You want to find out why this happened and where the application deployed. What should you do?

1. Go to Cloud Shell and run gcloud config list to review the Google Cloud configuration used for deployment.

Question #47

You want to configure 10 Compute Engine instances for availability when maintenance occurs. Your requirements state that these instances should attempt to automatically restart if they crash. Also, the instances should be highly available including during system maintenance. What should you do?

1. Create an instance template for the instances. Set the "˜Automatic Restart' to on. Set the "˜On-host maintenance' to Migrate VM instance. Add the instance template to an instance group.

Question #48

You host a static website on Cloud Storage. Recently, you began to include links to PDF files on this site. Currently, when users click on the links to these PDF files, their browsers prompt them to save the file onto their local system. Instead, you want the clicked PDF files to be displayed within the browser window directly, without prompting the user to save the file locally. What should you do?

1. Set Content-Type metadata to application/pdf on the PDF file objects.

Question #49

You have a virtual machine that is currently configured with 2 vCPUs and 4 GB of memory. It is running out of memory. You want to upgrade the virtual machine to have 8 GB of memory. What should you do?

1. Stop the VM, increase the memory to 8 GB, and start the VM.

Question #50

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?

1. Create a single custom VPC with 2 subnets. Create each subnet in a different region and with a different CIDR range.

Question #51

You need to create an autoscaling managed instance group for an HTTPS web application. You want to make sure that unhealthy VMs are recreated. What should you do?

1. Create a health check on port 443 and use that when creating the Managed Instance Group.

Question #52

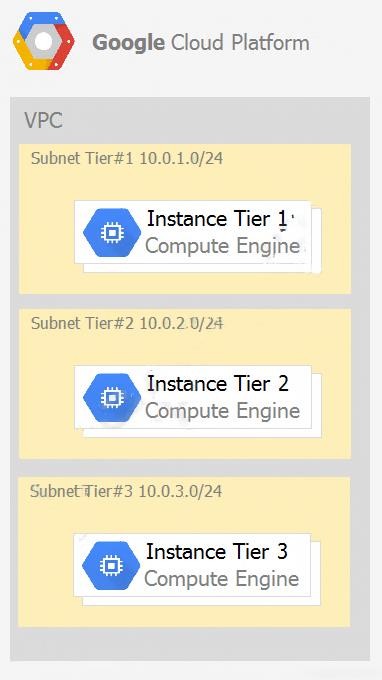
Your company has a Google Cloud Platform project that uses BigQuery for data warehousing. Your data science team changes frequently and has few members.

You need to allow members of this team to perform queries. You want to follow Google-recommended practices. What should you do?

1. 1. Create a dedicated Google group in Cloud Identity. 2. Add each data scientist's user account to the group. 3. Assign the BigQuery jobUser role to the group.

Question #53

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. 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

Question #54

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?

1. 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.

Question #55

Your projects incurred more costs than you expected last month. Your research reveals that a development GKE container emitted a huge number of logs, which resulted in higher costs. You want to disable the logs quickly using the minimum number of steps. What should you do?

1. 1. Go to the Logs ingestion window in Stackdriver Logging, and disable the log source for the GKE container resource.

Question #56

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?

1. 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.

Question #57

You have a web application deployed as a managed instance group. You have a new version of the application to gradually deploy. Your web application is currently receiving live web traffic. You want to ensure that the available capacity does not decrease during the deployment. What should you do?

1. Perform a rolling-action start-update with maxSurge set to 1 and maxUnavailable set to 0.

Question #58

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?

1. Cloud Spanner

Question #59

You are the organization and billing administrator for your company. The engineering team has the Project Creator role on the organization. You do not want the engineering team to be able to link projects to the billing account.

Only the finance team should be able to link a project to a billing account, but they should not be able to make any other changes to projects. What should you do?

1. Assign the finance team the Billing Account User role on the billing account and the Project Billing Manager role on the organization.

Question #60

You have an application running in Google Kubernetes Engine (GKE) with cluster autoscaling enabled. The application exposes a TCP endpoint. There are several replicas of this application. You have a Compute Engine instance in the same region, but in another Virtual Private Cloud (VPC), called gce-network, that has no overlapping IP ranges with the first VPC. This instance needs to connect to the application on GKE. You want to minimize effort. What should you do?

1. 1. In GKE, create a Service of type LoadBalancer that uses the application's Pods as backend. 2. Add an annotation to this service: cloud.google.com/load-balancer-type: Internal 3. Peer the two VPCs together. 4. Configure the Compute Engine instance to use the address of the load balancer that has been created.

Question #61

Your organization is a financial company that needs to store audit log files for 3 years. Your organization has hundreds of Google Cloud projects. You need to implement a cost-effective approach for log file retention. What should you do?

1. Create an export to the sink that saves logs from Cloud Audit to a Coldline Storage bucket.

Question #62

You want to run a single caching HTTP reverse proxy on GCP for a latency-sensitive website. This specific reverse proxy consumes almost no CPU. You want to have a 30-GB in-memory cache, and need an additional 2 GB of memory for the rest of the processes. You want to minimize cost. How should you run this reverse proxy?

1. Create a Cloud Memorystore for Redis instance with 32-GB capacity.

Question #63

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?

1. 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.

Question #64

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?

1. 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.

Question #65

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?

1. Deploy the container on Cloud Run.

Question #66

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

1. Migrate the acquired company's projects into your company's GCP organization. Link the migrated projects to your company's billing account.

Question #67

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?

1. Add the support team group to the roles/monitoring.viewer role

Question #68

For analysis purposes, you need to send all the logs from all of your Compute Engine instances to a BigQuery dataset called platform-logs. You have already installed the Stackdriver Logging agent on all the instances. You want to minimize cost. What should you do?

1. 1. In Stackdriver Logging, create a filter to view only Compute Engine logs. 2. Click Create Export. 3. Choose BigQuery as Sink Service, and the platform-logs dataset as Sink Destination.

Question #69

You are using Deployment Manager to create a Google Kubernetes Engine cluster. Using the same Deployment Manager deployment, you also want to create a

DaemonSet in the kube-system namespace of the cluster. You want a solution that uses the fewest possible services. What should you do?

1. Add the cluster's API as a new Type Provider in Deployment Manager, and use the new type to create the DaemonSet.

Question #70

You are building an application that will run in your data center. The application will use Google Cloud Platform (GCP) services like AutoML. You created a service account that has appropriate access to AutoML. You need to enable authentication to the APIs from your on-premises environment. What should you do?

1. Use gcloud to create a key file for the service account that has appropriate permissions.

Question #71

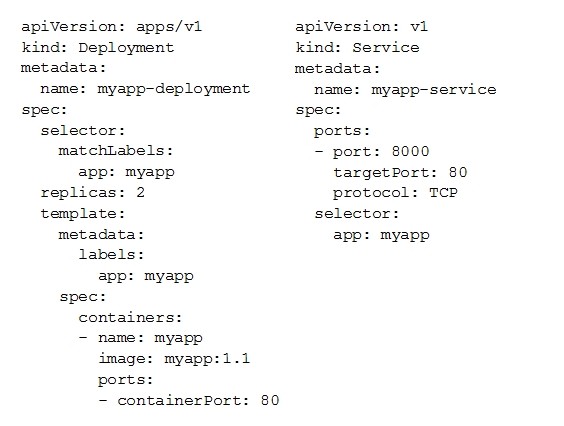
You are using Container Registry to centrally store your company's container images in a separate project. In another project, you want to create a Google Kubernetes Engine (GKE) cluster. You want to ensure that Kubernetes can download images from Container Registry. What should you do?

1. In the project where the images are stored, grant the Storage Object Viewer IAM role to the service account used by the Kubernetes nodes.

Question #72

You deployed a new application inside your Google Kubernetes Engine cluster using the YAML file specified below.

You check the status of the deployed pods and notice that one of them is still in PENDING status:



You want to find out why the pod is stuck in pending status. What should you do?

1. Review details of myapp-deployment-58ddbbb995-lp86m Pod and check for warning messages.

Question #73

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

1. After the VM has been created, use gcloud compute reset-windows-password to retrieve the login credentials for the VM.

Question #74

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?

1. Set metadata to enable-oslogin=true for the instance. Grant the dev1 group the compute.osLogin role. Direct them to use the Cloud Shell to ssh to that instance.

Question #75

You need to produce a list of the enabled Google Cloud Platform APIs for a GCP project using the gcloud command line in the Cloud Shell. The project name is my-project. What should you do?

1. Run gcloud projects list to get the project ID, and then run gcloud services list --project <project ID>.

Question #76

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?

1. Deploy a new version of your application in App Engine. Then go to App Engine settings in GCP Console and split traffic between the current version and newly deployed versions accordingly.

Question #77

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?

1. Select Add GPUs. Fill in persistent disk storage and snapshot storage.

Question #78

You are using Google Kubernetes Engine with autoscaling enabled to host a new application. You want to expose this new application to the public, using HTTPS on a public IP address. What should you do?

1. Create a Kubernetes Service of type NodePort for your application, and a Kubernetes Ingress to expose this Service via a Cloud Load Balancer.

Question #79

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?

1. Verify that both projects are in a GCP Organization. Share the VPC from one project and request that the Compute Engine instances in the other project use this shared VPC.

Question #80

You want to add a new auditor to a Google Cloud Platform project. The auditor should be allowed to read, but not modify, all project items. How should you configure the auditor's permissions?

1. Select the built-in IAM project Viewer role. Add the user's account to this role.

Question #81

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?

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

Question #82

Your VMs are running in a subnet that has a subnet mask of 255.255.255.240. The current subnet has no more free IP addresses and you require an additional

10 IP addresses for new VMs. The existing and new VMs should all be able to reach each other without additional routes. What should you do?

1. Use gcloud to expand the IP range of the current subnet.

Question #83

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?

1. Grant them the required IAM roles using their G Suite email address.

Question #84

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?

1. Create two configurations using gcloud config. Write a script that sets configurations as active, individually. For each configuration, use gcloud compute instances list to get a list of compute resources.

Question #85

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?

1. Create external tables in BigQuery that point to Cloud Storage buckets and run a SQL query on these external tables to complete your request.

Question #86

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

1. Filter the Activity log to view the Configuration category. Filter the Resource type to Service Account.

Question #87

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?

1. Add a network tag of your choice to the instance. Create a firewall rule to allow ingress on UDP port 636 for that network tag.

Question #88

You need to set a budget alert for use of Compute Engineer 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?

1. Verify that you are the project billing administrator. Select the associated billing account and create a budget and alert for the appropriate project.

Answer: A Question #89

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?

1. When creating the VM, use machine type n1-standard-96.

Question #90

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?

1. Add a bucket lifecycle rule that archives data with newer versions after 30 days to Nearline Storage.

Question #91

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?

1. Set up Cloud VPN between the infrastructure on-premises and Google Cloud.

Question #92

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?

1. Select Regional Storage. Add a bucket lifecycle rule that archives data after 30 days to Coldline Storage.

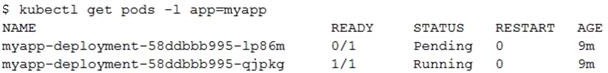
Question #93

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?

1. Go to Data Catalog and search for employee\_ssn in the search box.

Question #94

You create a Deployment with 2 replicas in a Google Kubernetes Engine cluster that has a single preemptible node pool. After a few minutes, you use kubectl to examine the status of your Pod and observe that one of them is still in Pending status:



What is the most likely cause?

1. Too many Pods are already running in the cluster, and there are not enough resources left to schedule the pending Pod.

Question #95

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?

1. Go to the Stackdriver Logging console, review admin activity logs, and filter them for Cloud Spanner IAM roles.

Question #96

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

1. Apply a user- or project-level custom query quota for BigQuery data warehouse.
2. Change your BigQuery query model from on-demand to flat rate. Apply the appropriate number of slots to each Project.

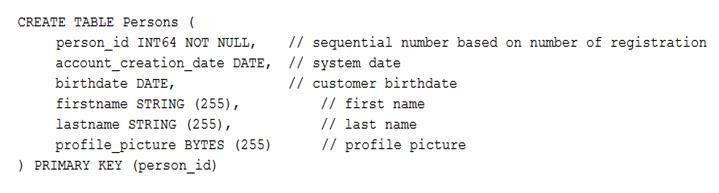
Question #97

You are building a product on top of Google Kubernetes Engine (GKE). You have a single GKE cluster. For each of your customers, a Pod is running in that cluster, and your customers can run arbitrary code inside their Pod. You want to maximize the isolation between your customers' Pods. What should you do?

1. Create a GKE node pool with a sandbox type configured to gvisor. Add the parameter runtimeClassName: gvisor to the specification of your customers' Pods.

Question #98

Your customer has implemented a solution that uses Cloud Spanner and notices some read latency-related performance issues on one table. This table is accessed only by their users using a primary key. The table schema is shown below.



You want to resolve the issue. What should you do?

1. Change the primary key to not have monotonically increasing values.

Question #99

Your finance team wants to view the billing report for your projects. You want to make sure that the finance team does not get additional permissions to the project. What should you do?

1. Add the group for the finance team to roles/billing viewer role.

Question #100

Your organization has strict requirements to control access to Google Cloud projects. You need to enable your Site Reliability Engineers (SREs) to approve requests from the Google Cloud support team when an SRE opens a support case. You want to follow Google-recommended practices. What should you do?

1. Add your SREs to a group and then add this group to roles/accessapproval approver role.

Question #101

You need to host an application on a Compute Engine instance in a project shared with other teams. You want to prevent the other teams from accidentally causing downtime on that application. Which feature should you use?

1. Enable deletion protection on the instance.

Question #102

Your organization needs to grant users access to query datasets in BigQuery but prevent them from accidentally deleting the datasets. You want a solution that follows Google-recommended practices. What should you do?

1. Create a custom role by removing delete permissions. Add users to the group, and then add the group to the custom role.

Question #103

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?

1. Install the cloud-datastore-emulator component using the gcloud components install command.

Question #104

Your company set up a complex organizational structure on Google Could Platform. The structure includes hundreds of folders and projects. Only a few team members should be able to view the hierarchical structure. You need to assign minimum permissions to these team members and you want to follow Google- recommended practices. What should you do?

1. Add the users to a group, and add this group to roles/browser role.

Question #105

Your company has a single sign-on (SSO) identity provider that supports Security Assertion Markup Language (SAML) integration with service providers. Your company has users in Cloud Identity. You would like users to authenticate using your company's SSO provider. What should you do?

1. In Cloud Identity, set up SSO with a third-party identity provider with Google as a service provider.

Question #106

Your organization has a dedicated person who creates and manages all service accounts for Google Cloud projects. You need to assign this person the minimum role for projects. What should you do?

1. Add the user to roles/iam.serviceAccountAdmin role.

Question #107

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?

1. Nearline Storage

Question #108

What should you do?

1. Create a node pool of instances with GPUs, and enable autoscaling on this node pool with a minimum size of 1.

Question #109

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?

1. Use Google Cloud Directory Sync (GCDS) to synchronize users into Cloud Identity.

Question #110

You have successfully created a development environment in a project for an application. This application uses Compute Engine and Cloud SQL. Now, you need to create a production environment for this application. The security team has forbidden the existence of network routes between these 2 environments, and asks you to follow Google-recommended practices. What should you do?

1. Create a new project, enable the Compute Engine and Cloud SQL APIs in that project, and replicate the setup you have created in the development environment.

Question #111

Your management has asked an external auditor to review all the resources in a specific project. The security team has enabled the Organization Policy called Domain Restricted Sharing on the organization node by specifying only your Cloud Identity domain. You want the auditor to only be able to view, but not modify, the resources in that project. What should you do?

1. Create a temporary account for the auditor in Cloud Identity, and give that account the Viewer role on the project.

Question #112

You have a workload running on Compute Engine that is critical to your business. You want to ensure that the data on the boot disk of this workload is backed up regularly. You need to be able to restore a backup as quickly as possible in case of disaster. You also want older backups to be cleaned automatically to save on cost. You want to follow Google-recommended practices. What should you do?

1. Create a snapshot schedule for the disk using the desired interval.

Question #13

You need to assign a Cloud Identity and Access Management (Cloud IAM) role to an external auditor. The auditor needs to have permissions to review your Google Cloud Platform (GCP) Audit Logs and also to review your Data Access logs. What should you do?

1. Assign the auditor's IAM user to a custom role that has logging.privateLogEntries.list permission. Perform the export of logs to Cloud Storage.

Question #114

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?

1. Create a Stackdriver Logging Export with a Sink destination to a BigQuery dataset. Configure the table expiration to 60 days.

Question #115

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?

1. 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.

Question #116

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?

1. Give bigquery.dataViewer role to crm-databases-proj and appropriate roles to web-applications.

Question #117

An employee was terminated, but their access to Google Cloud Platform (GCP) was not removed until 2 weeks later. You need to find out this employee accessed any sensitive customer information after their termination. What should you do?

1. View Data Access audit logs in Stackdriver. Search for the user's email as the principal.

Question #118

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?

1. Use permissions in your role that use the "˜supported' support level for role permissions. Set the role stage to ALPHA while testing the role permissions.

Question #119

Your company has a large quantity of unstructured data in different file formats. You want to perform ETL transformations on the data. You need to make the data accessible on Google Cloud so it can be processed by a Dataflow job. What should you do?

1. Upload the data to Cloud Storage using the gsutil command line tool.

Question #120

You need to manage multiple Google Cloud Platform (GCP) projects in the fewest steps possible. You want to configure the Google Cloud SDK command line interface (CLI) so that you can easily manage multiple GCP projects. What should you?

1. 1. Create a configuration for each project you need to manage. 2. Activate the appropriate configuration when you work with each of your assigned GCP projects.

Question #121

Your managed instance group raised an alert stating that new instance creation has failed to create new instances. You need to maintain the number of running instances specified by the template to be able to process expected application traffic. What should you do?

1. Verify that the instance template being used by the instance group contains valid syntax. Delete any persistent disks with the same name as instance names. Set the disks.autoDelete property to true in the instance template.

Question #122

Your company is moving from an on-premises environment to Google Cloud Platform (GCP). You have multiple development teams that use Cassandra environments as backend databases. They all need a development environment that is isolated from other Cassandra instances. You want to move to GCP quickly and with minimal support effort. What should you do?

1. 1. Advise your developers to go to Cloud Marketplace. 2. Ask the developers to launch a Cassandra image for their development work.

Question #123

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?

1. 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 condition. 3. Configure your email address in the notification channel.

Question #124

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?

1. Create a Stackdriver alerting policy to send an alert to webhook when Cloud Spanner CPU is over or under your threshold. Create a Cloud Function that listens to HTTP and resizes Spanner resources accordingly.

Question #125

Your company publishes large files on an Apache web server that runs on a Compute Engine instance. The Apache web server is not the only application running in the project. You want to receive an email when the egress network costs for the server exceed 100 dollars for the current month as measured by Google Cloud

Platform (GCP). What should you do?

1. Export the billing data to BigQuery. Create a Cloud Function that uses BigQuery to sum the egress network costs of the exported billing data for the Apache web server for the current month and sends an email if it is over 100 dollars. Schedule the Cloud Function using Cloud Scheduler to run hourly.

Question #126

You have designed a solution on Google Cloud Platform (GCP) that uses multiple GCP products. Your company has asked you to estimate the costs of the solution. You need to provide estimates for the monthly total cost. What should you do?

1. For each GCP product in the solution, review the pricing details on the products pricing page. Use the pricing calculator to total the monthly costs for each GCP product.

Question #127

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?

1. SSL Proxy Load Balancer

Question #128

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?

1. Migrate to use a Local SSD on the instance.

Question #129

Your Dataproc cluster runs in a single Virtual Private Cloud (VPC) network in a single subnet with range 172.16.20.128/25. There are no private IP addresses available in the VPC network. You want to add new VMs to communicate with your cluster using the minimum number of steps. What should you do?

1. Modify the existing subnet range to 172.16.20.0/24.

Question #130

You manage an App Engine Service that aggregates and visualizes data from BigQuery. The application is deployed with the default App Engine Service account.

The data that needs to be visualized resides in a different project managed by another team. You do not have access to this project, but you want your application to be able to read data from the BigQuery dataset. What should you do?

1. Ask the other team to grant your default App Engine Service account the role of BigQuery Data Viewer.

Question #131

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?

1. Create a custom Compute Engine image from a snapshot. Create your instances from that image.

Question #132

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?

1. Navigate to Cloud Logging and view the application logs.

Question #133

An application generates daily reports in a Compute Engine virtual machine (VM). The VM is in the project corp-iot- insights. Your team operates only in the project corp-aggregate-reports and needs a copy of the daily exports in the bucket corp-aggregate-reports-storage. You want to configure access so that the daily reports from the VM are available in the bucket corp-aggregate-reports-storage and use as few steps as possible while following Google- recommended practices. What should you do?

1. Grant the VM Service Account the role Storage Object Creator on corp-aggregate-reports-storage.

Question #134

You built an application on your development laptop that uses Google Cloud services. Your application uses Application Default Credentials for authentication and works fine on your development laptop. You want to migrate this application to a Compute Engine virtual machine (VM) and set up authentication using Google- recommended practices and minimal changes. What should you do?

1. Create a service account with appropriate access for Google services, and configure the application to use this account.

Question #135

You need to create a Compute Engine instance in a new project that doesn't exist yet. What should you do?

1. Using the Cloud SDK, create a new project, enable the Compute Engine API in that project, and then create the instance specifying your new project.

Question #136

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

1. Migrate the workload to a Compute Engine VM. Start and stop the instance as needed.

Question #137

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?

1. Deploy Jenkins through the Google Cloud Marketplace.

Question #138

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?

1. Set the europe-west1-d zone as the default zone using the gcloud config subcommand.

Question #139

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?

1. Ingest the data into Cloud Bigtable. Create a row key based on the event timestamp.

Question #140

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?

1. Enable API, create a workspace under project A, and then add project B and C.

Question #141

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?

1. Configure Billing Data Export to BigQuery and visualize the data in Data Studio.

Question #142

Your company has workloads running on Compute Engine and on-premises. The Google Cloud Virtual Private Cloud (VPC) is connected to your WAN over a

Virtual Private Network (VPN). You need to deploy a new Compute Engine instance and ensure that no public Internet traffic can be routed to it. What should you do?

1. Create the instance without a public IP address.

Question #143

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?

1. Use Deployment Manager templates to describe the proposed changes and store them in a Cloud Storage bucket.

Question #144

You have a Compute Engine instance hosting an application used between 9 AM and 6 PM on weekdays. You want to back up this instance daily for disaster recovery purposes. You want to keep the backups for 30 days. You want the Google-recommended solution with the least management overhead and the least number of services. What should you do?

1. 1. In the Cloud Console, go to the Compute Engine Disks page and select your instance's disk. 2. In the Snapshot Schedule section, select Create Schedule and configure the following parameters: "" Schedule frequency: Daily "" Start time: 1:00 AM "" 2:00 AM "" Autodelete snapshots after 30 days

Question #145

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?

1. Create a new Node Pool and specify machine type n2""highmem""16. Deploy the new pods.

Question #146

You have an application that uses Cloud Spanner as a database backend to keep current state information about users. Cloud Bigtable logs all events triggered by users. You export Cloud Spanner data to Cloud Storage during daily backups. One of your analysts asks you to join data from Cloud Spanner and Cloud

Bigtable for specific users. You want to complete this ad hoc request as efficiently as possible. What should you do?

1. Create two separate BigQuery external tables on Cloud Storage and Cloud Bigtable. Use the BigQuery console to join these tables through user fields, and apply appropriate filters.

Question #147

You are hosting an application from Compute Engine virtual machines (VMs) in us""central1""a. You want to adjust your design to support the failure of a single

Compute Engine zone, eliminate downtime, and minimize cost. What should you do?

1. "" Create Compute Engine resources in us""central1""b. "" Balance the load across both us""central1""a and us""central1""b.

Question #148

A colleague handed over a Google Cloud Platform project for you to maintain. As part of a security checkup, you want to review who has been granted the Project

Owner role. What should you do?

1. Use the command gcloud projects get""iam""policy to view the current role assignments.

Question #149

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?

1. Expand the CIDR range of the relevant subnet for the cluster.

Question #150

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?

1. Run a test using simulated maintenance events. If the test is successful, use preemptible N1 Standard VMs when running future jobs.

Question #151

You are working with a user to set up an application in a new VPC behind a firewall. The user is concerned about data egress. You want to configure the fewest open egress ports. What should you do?

1. Set up a low-priority (65534) rule that blocks all egress and a high-priority rule (1000) that allows only the appropriate ports.

Question #152

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?

1. Enable Cloud IAP for the Compute Engine instances, and add the operations partner as a Cloud IAP Tunnel User.

Question #153

You have created a code snippet that should be triggered whenever a new file is uploaded to a Cloud Storage bucket. You want to deploy this code snippet. What should you do?

1. Use Cloud Functions and configure the bucket as a trigger resource.

Question #154

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?

1. Set up a policy that uses Nearline storage for 30 days and then moves to Archive storage for three years.

Question #155

You are storing sensitive information in a Cloud Storage bucket. For legal reasons, you need to be able to record all requests that read any of the stored data. You want to make sure you comply with these requirements. What should you do?

1. Enable Data Access audit logs for the Cloud Storage API.

Question #156

You are the team lead of a group of 10 developers. You provided each developer with an individual Google Cloud Project that they can use as their personal sandbox to experiment with different Google Cloud solutions. You want to be notified if any of the developers are spending above $500 per month on their sandbox environment. What should you do?

1. Create a budget per project and configure budget alerts on all of these budgets.

Question #157

You are deploying a production application on Compute Engine. You want to prevent anyone from accidentally destroying the instance by clicking the wrong button. What should you do?

1. Enable delete protection on the instance.

Question #158

Your company uses a large number of Google Cloud services centralized in a single project. All teams have specific projects for testing and development. The

DevOps team needs access to all of the production services in order to perform their job. You want to prevent Google Cloud product changes from broadening their permissions in the future. You want to follow Google- recommended practices. What should you do?

1. Create a custom role that combines the required permissions. Grant the DevOps team the custom role on the production project.

Question #159

You are building an application that processes data files uploaded from thousands of suppliers. Your primary goals for the application are data security and the expiration of aged data. You need to design the application to: "¢ Restrict access so that suppliers can access only their own data. "¢ Give suppliers write access to data only for 30 minutes. "¢ Delete data that is over 45 days old.

You have a very short development cycle, and you need to make sure that the application requires minimal maintenance. Which two strategies should you use?

(Choose two.)

1. Build a lifecycle policy to delete Cloud Storage objects after 45 days.
2. Use signed URLs to allow suppliers limited time access to store their objects.

QUESTION 160

You are hosting an application from Compute Engine virtual machines (VMs) in us–central1–a. You want to adjust your design to support the failure of a single Compute Engine zone, eliminate downtime, and minimize cost. What should you do?

1. – Create Compute Engine resources in us–central1–b.

* Balance the load across both us–central1–a and us–central1–b.

QUESTION: 161

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

1. HTTPS load balancer

QUESTION: 162

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

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

1. Put the data on Cloud Storage and generate a signed URL that wil expire in one hour, and Securely share the URL.

QUESTION: 163

You have an autoscaled managed instance group that is set to scale based on CPU utilization Of 60%. There are currently 3 instances in the instance group. You’re connected to one of the

Instances and notice that the CPU usage is a 70%. However, the instance group isn’t starting up Another instance.

What’s the most likely reason?

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

QUESTION: 164

Your manager needs you to test out the latest version of MS-SQL on a Windows instance. You’ve created the VM and need to connect into the instance. What steps should you follow to Connect to the instance?

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

QUESTION: 165

You’ve created a bucket to store some data archives for compliance. The data isn’t likely to

Need to be viewed. However, you need to store it for at least 7 years. What is the best default Storage class?

1. Coldline

QUESTION: 166

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

1. Enable binary logging.

QUESTION: 167

You’re attempting to deploy a new instance that uses the centos 7 family. You can’t recal the Exact name of the family. Which command could you use to determine the family names? (2)

1. gcloud compute images list

QUESTION: 168

You'r’ working on setting up a cluster of virtual machines with GPUs to perform some 3D

Rendering for a customer. They’re on a limited budget and are looking for ways to save money. What is the best solution for implementing this?

1. Use an unmanaged instance group with preemptible instances.

QUESTION: 169

You’ve created the code for a Cloud Function that wil respond to HTTP triggers and return Some data in JSON format. You have the code local y, it’s tested and working. Which command Can you use to create the function inside Google Cloud? (two)

1. gcloud function deploy

QUESTION: 170

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

1. Use the Linux memincr command to increase the memory.
2. Stop the instance and change the machine type.

QUESTION: 171

You’re working on creating a script that can extract the IP address of a Kubernetes Service.

Your coworker sent you a code snippet that they had saved. Which one is the best starting point For your code?

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

QUESTION: 172

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

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

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

QUESTION: 173

You’re about to deploy your team’s App Engine application. They’re using the Go runtime with a

Standard Environment. Which command should you use to deploy the application?

1. gcloud app deploy app.yaml

QUESTION: 174

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

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

QUESTION: 175

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

1. Set allUsers to have the Storage Object Viewer role.

QUESTION: 176

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

You’ve updated two resources in the template and need to deploy the change. What command Should you use?

1. gcloud deployment-manager deployments update

QUESTION: 177

Your team needs to set up a new Jenkins instance as quickly as possible. What’s the best way To get it up- and-running? (two answers)

1. Use Google’s Managed Jenkins Service.
2. Search the marketplace for Jenkins and install with Cloud Launcher.

QUESTION: 178

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

apiVersion: “extensions/v1beta1” kind: “Deployment”

metadata:

name: “products-service” namespace: “default” labels:

app: “products-service” spec:

replicas: 3 selector:

matchLabels:

app: “products-service” template:

metadata:

labels:

app: “products-service” spec:

containers:

* Name: “products”

Image: “gcr.io/find-seller-app-dev/products:latest” Env:

* Name: “database\_user” Value: “admin”
* Name: “database\_password” Value: “TheB3stP@ssW0rd”

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

1. Store the credentials in a Secret.

QUESTION: 179

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

1. Create a service account and JSON key. Use the gsutil signurl -d 10m command and pass in The JSON key and bucket.

QUESTION: 180

Your team has some new functionality that they want to roll out slowly so they can monitor for

Errors. The change contains some significant changes to the user interface. You’ve chosen to Use traffic splitting to perform a canary deployment. You’re going to start by rolling out the code To 15% of your users. How should you go about setting up traffic splitting?

1. Deploy the new version using the no-promote flag. Split the traffic using distribution.

QUESTION: 181

You have an App Engine application serving as your front-end. It’s going to publish messages to

Pub/Sub. The Pub/Sub API hasn’t been enabled yet. What is the fastest way to enable the API? (two)

1. Enable the API in the Console.
2. The API wil be enabled the first time the code attempts to access Pub/Sub.

QUESTION 182

You are assisting a new Google Cloud user who just installed the Google Cloud SDK on their VM. The server needs access to Cloud Storage. The user wants your help to create a new storage bucket. You need to make this change in multiple environments. What should you do?

1. Use a Deployment Manager script to automate creating storage buckets in an appropriate region

QUESTION 183

Your company has an internal application for managing transactional orders. The application is used exclusively by employees in a single physical location. The application requires strong consistency, fast queries, and ACID guarantees for multi-table transactional updates. The first version of the application is implemented inPostgreSQL, and you want to deploy it to the cloud with minimal code changes. Which database is most appropriate for this application?

1. Cloud SQL

QUESTION 184

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?

1. Create a Google Group that contains the consultants, and grant the group the role of BigQuery Viewer

QUESTION 185

Your company wants to reduce cost on infrequently accessed data by moving it to the cloud. The data will still be accessed approximately once a month to refresh historical charts. In addition, data older than 5 years is no longer needed. How should you store and manage the data?

1. In Google Cloud Storage and stored in a Nearline bucket. Set an Object Lifecycle Management policy to delete data older than 5 years.

QUESTION 186

Your managed instance group raised an alert stating that new instance creation has failed to create new instances. You need to maintain the number of running instances specified by the template to be able to process expected application traffic. What should you do?

1. Verify that the instance template being used by the instance group contains valid syntax. Delete any persistent disks with the same name as instance names. Set the disks.autoDelete property to true in the instance template

QUESTION 187

You have a project for your App Engine application that serves a development environment. The required testing has succeeded and you want to create a new project to serve as your production environment. What should you do?

1. Create a Deployment Manager configuration file that copies the current App Engine deployment into a new project.

QUESTION 189

You want to add a new auditor to a Google Cloud Platform project. The auditor should be allowed to read, but

not modify, all project items.

How should you configure the auditor's permissions?

1. Select the built-in IAM project Viewer role. Add the user's account to this role.

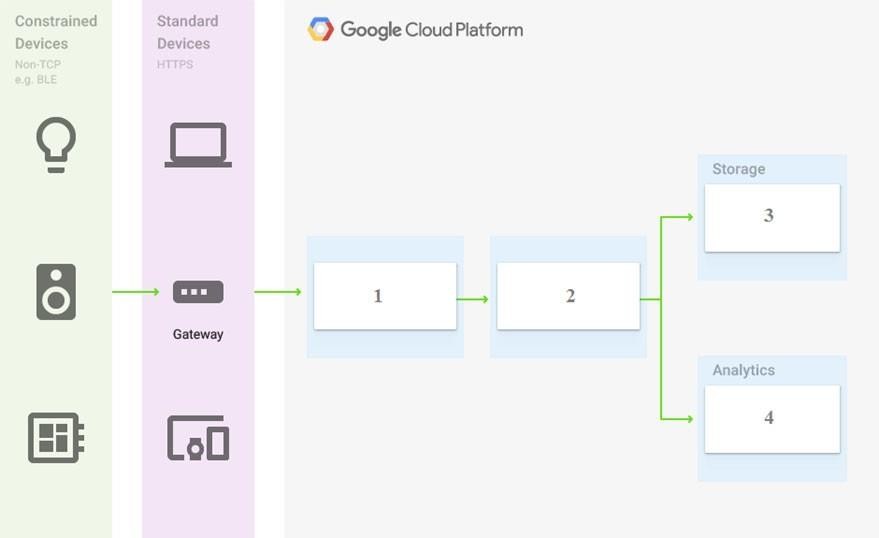
QUESTION 190

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?

1. Migrate to use a Local SSD on the instance.

191.

You are building a pipeline to process time-series data. Which Google Cloud Platform services should you put in boxes 1,2,3, and 4?



* 1. Cloud Pub/Sub, Cloud Dataflow, Cloud Bigtable, BigQuery

192.

Your company has a set of compute engine instances that would be hosting production-based applications. These applications would be running 24x7 throughout the year. You need to implement the cost-effective, scalable and high availability solution even if a zone fails. How would you design the solution?

B. Use Managed instance groups across multiple zones

193.

Your management has asked an external auditor to review all the resources in a specific project. The security

team has enabled the Organization Policy called Domain Restricted Sharing on the organization node by

specifying only your Cloud Identity domain. You want the auditor to only be able to view, but not modify, the

resources in that project. What should you do?

1. Create a temporary account for the auditor in Cloud Identity, and give that account the Viewer role on the project.

194.

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?

1. Use an automatic mode VPC network, use Cloud Router border gateway protocol (BGP) routes and configure policy-based routing

QUESTION 195

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?

1. SSL Proxy Load Balancer

QUESTION 196

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?

1. Reserve the IP 10.0.3.21 as a static internal IP address using gcloud and assign it to the licensing server.

QUESTION 197

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?

1. Sync Identities with Cloud Directory Sync, and then enable SAML for single sign-on

198.

Your organization requires that log from all applications be archived for 10 years as a part of compliance. Which approach should you use?

1. Configure Stackdriver Monitoring for all Projects, and export to Google Cloud Storage

199.

Your organization requires that log from all applications be archived for 10 years as a part of compliance. Which approach should you use?

1. Configure Stackdriver Monitoring for all Projects, and export to Google Cloud Storage

200.

You are running an application in Google App Engine that is serving production traffic. You want to deploy a risky but necessary change to the application. It could take down your service if not properly coded. During development of the application, you realized that it can only be properly tested by live user traffic. How should you test the feature?

1. Deploy a new version of the application, and use traffic splitting to send a small percentage of traffic to it.

201

Using principal of least privilege and allowing for maximum automation, what steps can you take to store audit logs for long-term access and to allow access for external auditors to view? (Choose two)

1. Generate a signed URL to the Stackdriver export destination for auditors to access.
2. Export audit logs to Cloud Storage via an export sink.

202

You created an update for your application on App Engine. You want to deploy the update without impacting your users. You want to be able to roll back as quickly as possible if it fails. What should you do?

1. Deploy the update as a new version. Migrate traffic from the current version to the new version.

203

Using the principle of least privilege, your colleague Bob needs to be able to create new instances on Compute Engine in project 'Project A'. How should you give him access without giving more permissions than is necessary?

1. Give Bob Compute Engine Instance Admin Role for Project A.

204

You need to create a new Kubernetes Cluster on Google Cloud Platform that can autoscale the number of worker nodes. What should you do?

1. Create a cluster on Kubernetes Engine and enable autoscaling on Kubernetes Engine.

205

You are creating a solution to remove backup files older than 90 days from your backup Cloud Storage bucket. You want to optimize ongoing Cloud Storage spend. What should you do?

1. Write a lifecycle management rule in JSON and push it to the bucket with gsutil

206

You are working on a project with two compliance requirements. The first requirement states that your developers should be able to see the Google Cloud Platform billing charges for only their own projects. The second requirement states that your finance team members can set budgets and view the current charges for all projects in the organization. The finance team should not be able to view the project contents. You want to set permissions. What should you do?

1. Add the finance team members to the Billing Administrator role for each of the billing accounts that they need to manage. Add the developers to the Viewer role for the Project.

207

A SysOps admin has configured a lifecycle rule on an object versioning enabled multi-regional bucket. Which of the following statement effect reflects the following lifecycle config?{

"rule":

[

{

"action": {"type": "Delete"},

"condition": {"age": 30, "isLive": false}

},

{

"action": {"type": "SetStorageClass", "storageClass": "COLDLINE"},

"condition": {"age": 365, "matchesStorageClass": "MULTI\_REGIONAL"}

}

]

}

1. Delete archived objects older than 30 days and move objects to Coldline Storage after 365 days if the storage class in Multi-regional.

208

Using principal of least privilege and allowing for maximum automation, what steps can you take to store audit logs for long-term access and to allow access for external auditors to view? (Select Two)

1. Export audit logs to Cloud Storage via an export sink.
2. Create account for auditors to have view access to export storage bucket with the Storage Object Viewer role.

209

You are creating a single preemptible VM instance named "preempt" to be used as scratch space for a single workload. If your VM is preempted, you need to ensure that disk contents can be re-used. Which gcloud command would you use to create this instance?

1. gcloud compute instances create "preempt" --preemptible --no-boot-disk-auto-delete

210

You have a definition for an instance template that contains a web application. You are asked to deploy the application so that it can scale based on the HTTP traffic it receives. What should you do?

1. Create a managed instance group based on the instance template. Configure autoscaling based on HTTP traffic and configure the instance group as the backend service of an HTTP load balancer.

211

A Company is using Cloud SQL to host critical data. They want to enable high availability in case a complete zone goes down. How should you configure the same?

1. Create a Failover replica in the same region different zone

212

You're writing a Python application and want your application to run in a sandboxed managed environment with the ability to scale up in seconds to account for huge spikes in demand. Which service should you host your application on?

1. D. App Engine Standard Environment

213

You are a project owner and need your co-worker to deploy a new version of your application to App Engine. You want to follow Google's recommended practices. Which IAM roles should you grant your co- worker?

1. C. App Engine Deployer

214

You developed a new application for App Engine and are ready to deploy it to production. You need to estimate the costs of running your application on Google Cloud Platform as accurately as possible. What should you do?

1. C. Use the pricing calculator for App Engine to get an accurate estimation of the expected charges.

216

You are creating a Kubernetes Engine cluster to deploy multiple pods inside the cluster. All container logs must be stored in BigQuery for later analysis. You want to follow Google-recommended practices. Which two approaches can you take?

1. Turn on Stackdriver Logging during the Kubernetes Engine cluster creation.
2. Use the Stackdriver Logging export feature to create a sink to BigQuery. Specify a filter expression to export log records related to your Kubernetes Engine cluster only.

217

Your company has a mission-critical application that serves users globally. You need to select a transactional and relational data storage system for this application. Which two products should you choose?

1. Cloud SQL
2. Cloud Spanner

218

You want to find out who in your organization has Owner access to a project called "my-project". What should you do?

1. In the Google Cloud Platform Console, go to the IAM page for your project and apply the filter "Role:Owner".

219

You need to verify the assigned permissions in a custom IAM role. What should you dou

1. Use the GCP Console, IAM section to view the information.

220

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

1. Enable the API in the Console.

221

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

1. D. Pub/Sub, Bigtable

223

Your company wants to host confidential documents in Cloud Storage. Due to compliance requirements, there is a need for the data to be highly available and resilient even in case of a regional outage. Which storage classes help meet the requirement?

1. Coldline
2. Multi-Regional

225

You need to create a new development Kubernetes cluster with 3 nodes. The cluster will be named project-1-cluster. Which of the following truncated commands will create a cluster?

1. gcloud container clusters create project-1-cluster --num-nodes 3

226

Your security team wants to be able to audit network traffic inside of your network. What's the best way to ensure they have access to the data they need?

1. Enable flow logs.

227

You have a Cloud Storage bucket that needs to host static web assets with a dozen HTML pages, a few JavaScript files, and some CSS. How do you make the bucket public?

1. gsutil iam ch allUsers:objectViewer gs://bucket-name

228

You've created a new Compute Engine instance in zone us-central1-b. When you tried to attach the GPU that your data engineers requested, you're getting an error. What is the most likely cause of the error?

1. The desired GPU doesn't exist in that zone.

229

Your data team is working on some new machine learning models. They're generating several files per day that they want to store in a regional bucket. They mostly focus on the files from the last week.

However, they want to keep all the files just to be safe and if needed, would be referred once in a month. With the fewest steps possible, what's the best way to lower the storage costs?

1. Create a lifecycle policy to switch the objects older than a week to Nearline storage.

230

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

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

231

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

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

232

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

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

Question # 234

Your company wants to standardize the creation and management of multiple Google Cloud resources using Infrastructure as Code. You want to minimize the amount of repetitive code needed to manage the environment. What should you do?

1. Develop templates for the environment using Cloud Deployment Manager.

Question #235

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?

1. Review the IAM permissions for any role that allows for data access.

Question #236

Your company has embraced a hybrid cloud strategy where some of the applications are deployed on Google Cloud. A Virtual Private Network (VPN) tunnel connects your Virtual Private Cloud (VPC) in Google Cloud with your companyג€™s on-premises network. Multiple applications in Google Cloud need to connect to an on-premises database server, and you want to avoid having to change the IP configuration in all of your applications when the IP of the database changes.

What should you do?

1. Create a private zone on Cloud DNS, and configure the applications with the DNS name.

Question #237

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?

1. Deploy the container on Cloud Run (fully managed), and set the minimum number of instances to zero.

Question #238

You have experimented with Google Cloud using your own credit card and expensed the costs to your company. Your company wants to streamline the billing process and charge the costs of your projects to their monthly invoice. What should you do?

1. Change the billing account of your projects to the billing account of your company.

Question #239

You are running a data warehouse on BigQuery. A partner company is offering a recommendation engine based on the data in your data warehouse. The partner company is also running their application on Google Cloud. They manage the resources in their own project, but they need access to the BigQuery dataset in your project. You want to provide the partner company with access to the dataset. What should you do?

1. Ask the partner to create a Service Account in their project, and grant their Service Account access to the BigQuery dataset in your project.

Question #240

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?

1. Create a new revision with the new version of the application. Split traffic between this version and the version that is currently running.

Question #241

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 gamersג€™ 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?

1. Configure an External Network load balancer in front of the application servers.

Question #242

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?

1. 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.

243.

Your auditor wants to view your organizationג€™s use of data in Google Cloud. The auditor is most interested in auditing who accessed data in Cloud Storage buckets. You need to help the auditor access the data they need. What should you do?

1. Turn on Data Access Logs for the buckets they want to audit, and then build a query in the log viewer that filters on Cloud Storage.

Question #244

You received a JSON file that contained a private key of a Service Account in order to get access to several resources in a Google Cloud project. You downloaded and installed the Cloud SDK and want to use this private key for authentication and authorization when performing gcloud commands. What should you do?

1. Use the command gcloud auth activate-service-account and point it to the private key.

Question #245

You are working with a Cloud SQL MySQL database at your company. You need to retain a month-end copy of the database for three years for audit purposes.

What should you do?

1. Save the automatic first-of-the-month backup for three years. Store the backup file in an Archive class Cloud Storage bucket.

Question #246

You are monitoring an application and receive user feedback that a specific error is spiking. You notice that the error is caused by a Service Account having insufficient permissions. You are able to solve the problem but want to be notified if the problem recurs. What should you do?

1. Create a custom log-based metrics for the specific error to be used in an Alerting Policy.

247

You've set up an instance inside your new network and subnet. You create firewall rules to target all instances in your network with the following firewall rules.NAME:open-ssh | NETWORK:devnet | DIRECTION:INGRESS | PRIORITY:1000 | ALLOW:tcp:22

NAME:deny-all | NETWORK:devnet | DIRECTION:INGRESS | PRIORITY:5000 | DENY:tcp:0-65535,udp:0-

6553 If you try to SSH to the instance, what would be the result?

1. SSH would be allowed as the allow rule overrides the deny

248

You have been tasked to grant access to sensitive files to external auditors for a limited time period of 4 hours only. The files should not be strictly available after 4 hours. Adhering to Google best practices, how would you efficiently share the file?

1. Store the file in Cloud Storage. Generate a signed URL with 4 hours expiry and share it with the auditors.

249

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

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

250

Your billing department has asked you to help them track spending against a specific billing account. They've indicated that they prefer to use Excel to create their reports so that they don't need to learn new tools. Which export option would work best for them?

1. File Export with CSV

251

A company wants to setup a template for deploying resources. They want the provisioning to be dynamic with the specifications in configuration files. Which of the following service would be ideal for this requirement?

1. Deployment Manager

252

Your project manager wants to delegate the responsibility to upload objects to Cloud Storage buckets to his team members. Considering the principle of least privilege, which role should you assign to the team members?

1. roles/storage.objectCreator

253

Your company needs to create a new Kubernetes Cluster on Google Cloud Platform. As a security requirement, they want to upgrade the nodes to the latest stable version of Kubernetes with no manual intervention. How should the Kubernetes cluster be configured?

1. Enable node auto-upgrades

254

You have created an App engine application in the us-central region. However, you found out the network team has configured all the VPN connections in the asia-east2 region, which are not possible to move. How can you change the location efficiently?

1. Create a new project in the asia-east2 region and create app engine in the project

255

Your team needs to set up a MongoDB instance as quickly as possible. You don't know how to install it and what configuration files are needed. What's the best way to get it up-and-running quickly?

1. Install with Cloud Launcher Marketplace

256

Your company wants to setup Production and Test environment. They want to use different subjects and the key requirement is that the VMs must be able to communicate with each other using internal IPs no additional routes configured. How can the solution be designed?

1. Configure a single VPC with 2 subnets having the different CIDR range hosted in the different region

257

Your company is hosting their static website on Cloud Storage. You have implemented a change to add PDF files to the website. However, when the user clicks on the PDF file link it downloads the PDF instead of opening it within the browser. What would you change to fix the issue?

1. Set content-type as object metadata to application/pdf on the files

258

You currently are running an application on a machine type with 2 vCPUs and 4gb RAM. However, recently there have been plenty of memory problems. How to increase the memory of the application with minimal downtime?

1. Use Live migration to move to machine type with higher memory

259

Your billing department has asked you to help them track spending against a specific billing account. They've indicated that they prefer SQL querying to create their reports so that they don't need to learn new tools. The data should be as latest as possible. Which export option would work best for them?

1. Create a sink to BigQuery and provide BigQuery access to billing department

260

Your company hosts multiple applications on Compute Engine instances. They want the instances to be resilient to any Host maintenance activities performed on the instance. How would you configure the instances?

1. Set onHostMaintenance availability policy to migrate instances

Question # 261

You are developing a financial trading application that will be used globally. Data is stored and queried using a relational structure, and clients from all over the world should get the exact identical state of the data. The application will be deployed in multiple regions to provide the lowest latency to end users.

You need to select a storage option for the application data while minimizing latency. What should you do?

1. Use Cloud Spanner for data storage.

Question #262

You are about to deploy a new Enterprise Resource Planning (ERP) system on Google Cloud. The application holds the full database in-memory for fast data access, and you need to configure the most appropriate resources on Google Cloud for this application. What should you do?

1. Provision Compute Engine instances with M1 machine type.

Question #263

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?

1. Create and deploy a Deployment per microservice.

Question #264

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?

1. When creating the instances, specify a Service Account for each instance.

Question #265

You are creating an application that will run on Google Kubernetes Engine. You have identified MongoDB as the most suitable database system for your application and want to deploy a managed MongoDB environment that provides a support SLA. What should you do?

1. Deploy MongoDB Atlas from the Google Cloud Marketplace.

Question #266

You are managing a project for the Business Intelligence (BI) department in your company. A data pipeline ingests data into BigQuery via streaming. You want the users in the BI department to be able to run the custom SQL queries against the latest data in BigQuery. What should you do?

1. Assign the IAM role of BigQuery User to a Google Group that contains the members of the BI team.

Question #267

Your company is moving its entire workload to Compute Engine. Some servers should be accessible through the Internet, and other servers should only be accessible over the internal network. All servers need to be able to talk to each other over specific ports and protocols. The current on-premises network relies on a demilitarized zone (DMZ) for the public servers and a Local Area Network (LAN) for the private servers. You need to design the networking infrastructure on

Google Cloud to match these requirements. What should you do?

1. 1. Create a single VPC with a subnet for the DMZ and a subnet for the LAN. 2. Set up firewall rules to open up relevant traffic between the DMZ and the LAN subnets, and another firewall rule to allow public ingress traffic for the DMZ.

268.

* 1. Your company has reserved a monthly budget for your project. You want to be informed automatically of your project spend so that you can take action when you approach the limit. What should you do?

1. Create a budget alert for 50%, 90%, and 100% of your total monthly budget.

269.

Your company has a mission-critical application that serves users globally. You need to select a transactional, relational data storage system for this application. Which two products should you consider?

1. Cloud SQL
2. Cloud Spanner

270.

You created an update for your application on App Engine. You want to deploy the update without impacting your users.

You want to be able to roll back as quickly as possible if it fails. What should you do?

1. Deploy the update as a new version. Migrate traffic from the current version to the new version.

Question #1

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?

1. Enable the Cloud Spanner API.

Question #2

You have created a new project in Google Cloud through the gcloud command line interface (CLI) and linked a billing account. You need to create a new Compute

Engine instance using the CLI. You need to perform the prerequisite stops. What should you do?

1. Enable the compute googleapis.com API.

Question #3

Your company has developed a n What should you do?

1. Create a GKE cluster with autoscaling enabled on the node pool. Set a minimum and maximum for the size of the node pool.

Question4

You need to manage a third-party application that will run on a Compute Engine instance. Other Compute Engine instances are already running with default configuration. Application installation files are hosted on Cloud Storage. You need to access these files from the new instance without allowing other virtual machines (VMs) to access these files. What should you do?

1. Create a new service account and assign this service account to the new instance. Grant the service account permissions on Cloud Storage. Most Voted

Question #5

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?

1. Configure regional storage for the region closest to the users. Configure a Standard storage class. Most Voted

Question #6

You are developing a new web application that will be deployed on Google Cloud Platform. As part of your release cycle, you want to test updates to your application on a small portion of real user traffic. The majority of the users should still be directed towards a stable version of your application. What should you do?

1. Deploy the application on App Engine. For each update, create a new version of the same service. Configure traffic splitting to send a small percentage of traffic to the new version. Most Voted

Question #7

You need to add a group of new users to Cloud Identity. Some of the users already have existing Google accounts. You want to follow one of Google's recommended practices and avoid conflicting accounts. What should you do?

1. Invite the user to transfer their existing account.

Question #8

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?

1. 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. Most Voted

Question #9

Your company has an internal application for managing transactional orders. The application is used exclusively by employees in a single physical location. The application requires strong consistency, fast queries, and ACID guarantees for multi-table transactional updates. The first version of the application is implemented in PostgreSQL, and you want to display it to the cloud with minimal code changes. Which database is most appropriate for this application?

1. Cloud SQL Most Voted

Question #10

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?

1. Use the command gcloud config set container/cluster dev. Most Voted

Question #11

The sales team has a project named Sales Data Digest that has the ID acme-data-digest. You need to set up similar Google Cloud resources for the marketing team but their resources must be organized independently of the sales team. What should you do?

1. Create another project with the ID acme-marketing-data-digest for the Marketing team and deploy the resources there. Most Voted

Question #12

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?

1. Configure Cloud Identity-Aware Proxy for SSH and TCP resources

Question #13

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?

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

Question #14

Your existing application running in Google Kubernetes Engine (GKE) consists of multiple pods running on four GKE n1ג€"standardג€"2 nodes. You need to deploy additional pods requiring

n2ג€"highmemג€"16 nodes without any downtime. What should you do?

1. Create a new Node Pool and specify machine type n2ג€"highmemג€"16. Deploy the new pods.

Question #15

An employee was terminated, but their access to Google Cloud was not removed until 2 weeks later. You need to find out this employee accessed any sensitive customer information after their termination. What should you do?

1. View Data Access audit logs in Cloud Logging. Search for the user's email as the principal. Most Voted

Question #16

You have designed a solution on Google Cloud that uses multiple Google Cloud products. Your company has asked you to estimate the costs of the solution. You need to provide estimates for the monthly total cost. What should you do?

1. For each Google Cloud product in the solution, review the pricing details on the products pricing page. Use the pricing calculator to total the monthly costs for each Google Cloud product. Most Voted