Kategori : EN - Setting up a cloud solution environment 1

There is a requirement to develop a Prototype for an OCR (Optical Character Recognition) based Expense management application. It should ideally have the functionality of scanning receipts and extracting textual data. You have a very small team and also have to deliver the project's prototype on a quick timeline. Which of the following approaches can be adopted to implement the requirement?

A

Use Vertex Al to model the data and leverage the features of AutoML.

B

Use Cloud Data flow for streaming data pipelines.

C

Use the Vision API and use pre-trained data models.

D

Assign the OCR application development work to an in-house Data Science team to model the data in a customized way with training and prediction services using the GCP AI platform.

**Benar C**

Kategori : EN - Setting up a cloud solution environment 1

You are working in a team that develops Healthcare applications. The application is using Cloud Storage to store backup files for disaster recovery purposes. Once every quarter, the files will be accessed for audit. Your manager asked your opinion about the most appropriate storage class for this case. Which storage option would you recommend to the manager?

A

Multi-Regional Storage

B

Regional Storage

C

Nearline Storage

D

Coldline Storage

**Salah**

Kategori : EN - Setting up a cloud solution environment 1

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

A

Add the support team group to the roles/spanner.databaseUser role.

B

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

C

Add the support team group to the roles/spanner.databaseReader role.

D

Add the support team group to the roles/stackdriver.accounts.viewer role.

**Salah C MUNGKIN B**

Kategori : EN - Setting up a cloud solution environment 1

In your organization, it was recently reported that a dev environment's database was compromised but quickly secured back. Based on the internal analysis, it was found that a new intern had unknowingly allowed internet access to a Cloud SQL instance. Although it is a matter of lesser significance in a dev environment, you want to make sure this issue does not happen again. Hence you decide to enforce a centralized organization policy. Which of the following action accomplishes this task?

A

Set an Organization Policy to use constraints/sql.denyEgressTraffic to deny external internet access.

B

Create a VPC network to allow only authorized access based on firewall rules to deny traffic from external internet access.

C

Use IAM (Identity and Access Management) to restrict Access for the Intern only with Viewer level access to the dev environment folder.

D

Set an Organization Policy to use constraints/sql.restrictPubliclp to restrict external internet access rights.

**Salah A B Mungkin D**

Kategori : EN - Setting up a cloud solution environment 1

Your company has 5 TB of testing data stored in the production database of a testing tool name Quality Center. The data is being used to create a real-time analytics system which is causing a slow response to the tester while using the tool. What should you do the improve the load on the database?

A

Set up Multi-AZ.

B

Scale the database instance.

C

Run the analytics query only on weekends.

D

Set up a read replica.

**Benar D**

Kategori : EN - Setting up a cloud solution environment 1

What is the correct command to set the default zone for Compute Engine VM using gcloud CLI?

A

gcloud config set compute/zone us-east1

B

gcloud config configurations set compute/zone us-east1-a

C

gcloud config set compute/zone us-east1-a

D

gcloud defaults set compute/zone us-east1

**Benar C**

Kategori : EN - Setting up a cloud solution environment 1

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 Cloud Logging agent on all the instances. You want to minimize cost. What should you do?

A

1. In Cloud 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.

B

1. Give the BigQuery Data Editor role on the platform-logs dataset to the service accounts used by your instances.

2. Update your instances' metadata to add the following value: logs-destination: bq://platform-logs.

C

1. In Cloud Logging, create a logs export with a Cloud Pub/Sub topic called logs as a sink.

2. Create a Cloud Function that is triggered by messages in the logs topic.

3. Configure that Cloud Function to drop logs that are not from Compute Engine and to insert Compute Engine logs in the platform-logs dataset.

D

1. Create a Cloud Function that has the BigQuery User role on the platform-logs dataset.

2. Configure this Cloud Function to create a BigQuery Job that executes this query: INSERT INTO dataset.platform-logs (timestamp, log) SELECT timestamp, log FROM compute.logs WHERE timestamp > DATE\_SUB(CURRENT\_DATE(), INTERVAL 1 DAY)

3. Use Cloud Scheduler to trigger this Cloud Function once a day.

**Benar A**

Kategori : EN - Setting up a cloud solution environment 1

For the last three months, your company has been working on an application that deployed in an App Engine and it resides in the Dev Project. The app has completed the required testing and is ready to roll out to production. Your manager has asked you to create a new project to serve as your production environment. You want do the job done in as few as possible step. What should you do?

A

Deploy your application again using gcloud and specify the project parameter with the new project name to create the new project.

B

Use gcloud to create the new project and to copy the deployed application to the new project.

C

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

D

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

**Benar D**

Kategori : EN - Setting up a cloud solution environment 1

While working on a project, an application administrator has been given the responsibility of managing all resources. He wants to delegate the responsibility of managing the existing service accounts to another administrator. He will also be responsible to manage the other service accounts that will be created. Which of the following is the best way to delegate the privileges required to manage all the service accounts?

A

Granting iam.serviceAccountUser to the administrator at the project level

B

Granting iam.serviceProjectAccountUser to the administrator at the project level

C

Granting iam.serviceAccountUser to the administrator at the service account level

D

Granting iam.serviceProjectAccountUser to the administrator at the service account level

**Benar A**

Kategori : EN - Setting up a cloud solution environment 1

You are currently working on a freelance project where you have to deploy a WordPress website on VM. You decided to use a startup script to install WordPress and other libraries instead of manual installation. While launching you forgot to use the startup script and are wondering how to do it now. What should you do?

A

Edit the instance by selecting it, add your startup script to the user data field, and restart your instance.

B

Edit the instance by selecting it, add metadata with the script as key, add script content as value, and restart the instance.

C

Stop the instance, add metadata with startup-script as key, and script content as value, and start the instance.

D

Stop the instance, add a script into the startup script field, and start the instance.

**Benar C**

Kategori : EN - Planning and configuring a cloud solution 1

You have set a firewall rule that will permit inbound connections to a VM instance named dev-server-2. You want to apply this rule only if there is no other rule that would deny that traffic. What priority would you give to this rule?

A

1000

B

1

C

65535

D

0

**Salah 1 MUNGKIN**

Kategori : EN - Planning and configuring a cloud solution 1

You have to build a functionality to manage user sessions in an online shopping cart for retail transactions. There is a need to ensure that users can lock down one or more documents until their transaction is complete. What would be the correct choice of database to handle the requirement?

A

Use Cloud Firestore to handle user session management.

B

Use Cloud Spanner to manage user sessions.

C

Use Cloud SQL and use sub-queries to hold the session.

D

Use BigQuery for streaming data from user sessions.

**Benar A**

Kategori : EN - Planning and configuring a cloud solution 1

Your manager asked you to configure a solution for archiving data in a Cloud Storage bucket. These are the requirements given by the manager:

1. It must be cost-effective.

2. Data with multiple versions should be archived after 30 days.

3. Previous versions are accessed once a month for reporting.

4. This archived data is also occasionally updated at month-end.

Considering those requirements, what should you do?

A

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

B

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

C

Add a bucket lifecycle rule that archives data from regional storage after 30 days to Coldline Storage.

D

Add a bucket lifecycle rule that archives data from regional storage after 30 days to Nearline Storage.

**Benar B**

Kategori : EN - Planning and configuring a cloud solution 1

Your managers want you to suggest a low-cost storage option that could be used to share read-only data across multiple instances with high performance and no edge caching. Which storage option would you suggest?

A

Firebase

B

Cloud Filestore

C

Persistent Disk

D

Cloud Storage

**Benar D**

Kategori : EN - Planning and configuring a cloud solution 1

You are one of the Cloud Engineers in an Enterprise level tech company. You have been given the task to come up with a plan to run complex workloads that need flexibility and control at the configuration level with high memory and processing power. The workloads are planned to run for the next 6 months. Choose the cost-effective option to achieve the best performance for a specific workload.

A

Choose App Engine to run the workload and reduce the complexity.

B

Choose Compute Engine VMs with predefined types and use templates from the GCP marketplace.

C

Choose Cloud Run to fetch Docker images from Container Registry and run the workload.

D

Choose Compute Engine with custom machine types and select the required number of vCPUs and gigabytes of memory.

**Benar D**

Kategori : EN - Planning and configuring a cloud solution 1

You are working for a genomics company in the US that is planning to conduct data analysis on around 10 TB of data. The company would require 20 vCPUs and 60 GB of RAM for the VM. You have been asked to figure out the cheapest option to conduct the analysis. Which of the following would you use?

A

Sustained discount

B

Committed use discount

C

Preemptible instances

D

Cloud Functions

**Benar C**

Kategori : EN - Planning and configuring a cloud solution 1

You have been hired as a contractor by one of the travel technology companies that is planning to containerize their existing applications in such a way that they can perform a lift and shift very easily in the future if they plan to move away from Google Cloud. Which service will best suit this case?

A

Cloud Run

B

App Engine Standard

C

Google Kubernetes Engine

D

Cloud Functions

**Benar C**

Kategori : EN - Planning and configuring a cloud solution 1

You are building up an application for your client which has Web, API, and DB layers. The client has asked you to decouple the application so that each request is successfully acknowledged and processed by the application layer. Which service will you use for this need?

A

Cloud Pub/Sub

B

Cloud Dataproc

C

App Engine

D

Cloud Functions

**Benar A**

Kategori : EN - Planning and configuring a cloud solution 1

Your client wants to develop a new cost-effective web application that runs on a serverless platform using Cloud Function, Cloud Storage, Pub/Sub, and Cloud CDN. The expected data would be 20 GB. Which of the following databases would be the most suitable schemaless option to support the serverless functionality?

A

BigQuery

B

Cloud Firestore

C

Cloud Spanner

D

Cloud Bigtable

**Benar B**

Kategori : EN - Planning and configuring a cloud solution 1

You work for a financial company as a Cloud Engineer. Your manager asked you to find a solution to store audit log files for 3 years. Your company has hundreds of GCP projects. You need to implement a cost-effective approach for log file retention. What solution that you will give to the manager?

A

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

B

Create an export to the sink that saves logs from Cloud Audit to BigQuery.

C

Write a custom script that uses logging API to copy the logs from Cloud Logging to BigQuery.

D

Export logs to Cloud Pub/Sub and write a Cloud Dataflow pipeline to store logs to Cloud SQL.

**Benar A**

Kategori : EN - Deploying and implementing a cloud solution 1

In your company, there are massive data services that are currently running Hadoop/Spark on-premises. The Cloud Architects start their work on a migration plan to Google Cloud. However, the big data team wants to use the existing workflows during the migration. The main focus is to continue working on their Hadoop cluster and Spark jobs with the scaling and data processing capacity of Google Cloud. Which tool would be the right option to choose?

A

Cloud Dataproc

B

Cloud Dataflow

C

Cloud Dataprep

D

Looker Studio

**Benar A**

Kategori : EN - Deploying and implementing a cloud solution 1

You are planning to build a microservices application with Docker containers and want to host them on Google Cloud as stateless and serverless. Which service will help you serve the need?

A

Cloud Run

B

App Engine Flexible

C

Cloud Functions

D

App Engine Standard

**Benar A**

Kategori : EN - Deploying and implementing a cloud solution 1

You work for a retail company that has a busy online store. As you are approaching the new year, you find that your e-store is getting more and more traffic. You ensure that your web servers are behind a managed instance group. However, you notice that the web tier is frequently scaling, sometimes multiple times in an hour. You need to keep the instance group from scaling up and down so rapidly. Which of the following options would help you achieve this?

A

Increase the cooldown period.

B

Change the autoscaling metric to use multiple metrics instead of just one metric.

C

Reduce the number of maximum instance counts.

D

Associate a health check with an instance group.

**Benar A**

Kategori : EN - Deploying and implementing a cloud solution 1

An IoT (Internet of Things) application system needs to ingest and process the streaming sensor data received from multiple sources of connected devices. Choose the best set of tools to handle incoming data.

A

Use Cloud SQL database and run queries to process the data.

B

Use REST API exposed using App Engine and post data from endpoints.

C

Use Cloud Dataprep to cleanse the incoming data and run a Cloud Functions to process it.

D

Use Cloud Pub/Sub to receive data and process it via Cloud Dataflow pipelines.

**Benar D**

Kategori : EN - Deploying and implementing a cloud solution 1

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

A

Use a custom mode VPC network, configure static routes, and use active/passive routing.

B

Use a custom mode VPC network, use Cloud Router border gateway protocol (BGP) routes, and use active/passive routing.

C

Use an automatic mode VPC network, configure static routes, and use active/active routing.

D

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

**Benar B**

Kategori : EN - Deploying and implementing a cloud solution 1

Your client is planning to deploy an application on App Engine and has a requirement to store 1 TB of data in a schemaless, a strongly consistent, ACID-compliant database solution. Which of the following would you consider for this?

A

Cloud Datastore

B

Cloud SQL

C

Cloud Storage

D

Cloud Bigtable

**Salah B MUNGKIN**

Kategori : EN - Deploying and implementing a cloud solution 1

You created an application for a large hospital that stores around 1 GB of files every day on Cloud Storage. Most of these files are accessed very rarely after six months from the day of the first upload but are important and cannot be deleted. Which storage class would you prefer to save money on after 6 months?

A

Standard

B

Nearline

C

Coldline

D

Regional

**Benar C**

Kategori : EN - Deploying and implementing a cloud solution 1

You are working for a service company that has an automobile client. The client has developed an application for internal use with Erlang and has approached your company to help him to ease the application deployment process on Google Cloud. The company does not have highly trained people, so it wants you to deploy the application in such a way that post-deployment they will be able to manage it without worrying about the infrastructure. Which of the following services would you prefer?

A

Google Kubernetes Engine

B

App Engine Standard

C

App Engine Flexible

D

Cloud Functions

**Salah B MUNGKIN A**

Kategori : EN - Deploying and implementing a cloud solution 1

Your program manager wants you to set up a hybrid network between your Google Cloud and on-premise infrastructure that allows high bandwidth, low latency connection between both networks. As a Senior Cloud Engineer, which one of the following services will you select?

A

Cloud VPN

B

Cloud Router

C

Cloud Interconnect

D

Shared VPC

**Benar C**

Kategori : EN - Ensuring successful ops of a cloud solution 1

You have a website hosted on a Compute Engine VM. Users can access the website using the domain name you provided. You do some maintenance work on the VM and stop the server and restart it. Now users cannot access the website. No other changes have occurred on the subnet. What might be the cause of the problem?

A

The restart caused a change in the DNS record.

B

You used an ephemeral instead of a static IP address.

C

You do not have enough addresses available on your subnet.

D

Your subnet has changed.

**Benar B**

Kategori : EN - Ensuring successful ops of a cloud solution 1

A developer created a GCP project and deployed his Nodejs app to the App Engine inside that project. Unfortunately, he has made a mistake. He created the App Engine application in the us-central1 region, which should be in the asia-northeast1 region. What is your solution to help the developer?

A

Create a second App Engine application in the existing GCP project and specify asia-northeast1 as the region to serve your application.

B

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.

C

Change the region property setting in the existing App Engine application from us-central1 to asia-northeast1.

D

Change the default region property setting in the existing GCP project to asia-northeast1.

**Benar B**

Kategori : EN - Ensuring successful ops of a cloud solution 1

You are working as a System Administrator and have been asked to make sure that all images are patched up to date and developers are not allowed to use old images that are not up to date as per PCI compliance. How would you achieve this?

A

Drop a mail to all the developers regarding which image to use whenever you patch images.

B

Mark the image as deprecated to prevent users from using the old image.

C

Mark the image as obsolete to prevent users from using the old image.

D

None of the above.

**Salah B MUNGKIN C**

Kategori : EN - Ensuring successful ops of a cloud solution 1

Your client comes to you to ask for a solution to their problem. They have an application that runs on multiple VM within a Managed Instance Group and has autoscaling enabled. They configure the autoscaling policy so that additional instances are added to the group if the CPU utilization of instances goes above 80%. The VMs are added until the instance group reaches its maximum limit of 5 VMs or until the CPU utilization of instances lowers to 80%.

The client also set the initial delay set to 30 seconds for HTTP health checks against the instances. The VM instances take around 3 minutes to become available for users for downloading the dependencies and running the web server.

You observe that when the instance group autoscales, it adds more instances than necessary to support the levels of end-user traffic. You want to properly maintain instance group sizes when autoscaling. What should you do?

A

Use a TCP health check instead of an HTTP health check.

B

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

C

Decrease the maximum number of instances to 3.

D

Set the maximum number of instances to 1.

**Benar B**

Kategori : EN - Ensuring successful ops of a cloud solution 1

Your client has an HTTPS web application that runs using an autoscaling Managed Instance Group. The requirement given by your client is that the unhealthy VMs are recreated as soon as possible to maintain the availability of the web application. What should you do?

A

In the Instance Template, add a startup script that sends a heartbeat to the metadata server.

B

In the Instance Template, add the label 'health-check'.

C

Select Multi-Zone instead of Single-Zone when creating the Managed Instance Group.

D

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

**Benar D**

Kategori : EN - Ensuring successful ops of a cloud solution 1

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?

A

Select Compute Engine. Use VM instance types that support micro bursting.

B

Select Google Kubernetes Engine. Use a three-node cluster with micro instance types.

C

Select Google Kubernetes Engine. Use a single-node cluster with a small instance type.

D

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

**Benar D**

Kategori : EN - Ensuring successful ops of a cloud solution 1

Your team has a VM instance that is currently launched with 2 vCPUs and 4 GB of memory to host e-learning applications. After several hours, the VM instance is running out of memory. You want to upgrade the VM instance to have 8 GB of memory. What should you do?

A

Rely on live migration to move the workload to a machine with more memory.

B

Stop the VM, change the machine type to n1-standard-8, and start the VM.

C

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

D

Use gcloud to add metadata to the VM. Set the key to required-memory-size and the value to 8 GB.

**Salah**

Kategori : EN - Ensuring successful ops of a cloud solution 1

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

A

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

B

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

C

Create 2 custom VPCs, each with a single subnet. Create each subnet in a different region and with a different CIDR range.

D

Create 2 custom VPCs, each with a single subnet. Create each subnet in the same region and with the same CIDR range.

**Benar A**

Kategori : EN - Ensuring successful ops of a cloud solution 1

You are working on a project whose development phase has been completed and the manager has asked you to create a new project for the UAT environment which should be a clone of the development environment. The development environment consists of 5 VMs which need to be replicated in the UAT environment. How can you achieve this?

A

Launch 5 VMs from scratch and install all the libraries one by one.

B

Select an instance, click on Actions, and use migrate option to launch VM in another project.

C

Create a custom image of each instance in the development environment. While launching VMs in the UAT environment, under boot disk, select Custom images, select your project, and choose the relevant image.

D

None of the above

**Benar C**

Kategori : EN - Ensuring successful ops of a cloud solution 1

Your projects incurred more costs than you expected last month. Your research reveals that a development Google Kubernetes Engine 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?

A

1. Go to the Logs ingestion window in Stackdriver Logging.

2. Disable the log source for the Google Kubernetes Engine Cluster Operations resource.

B

1. Go to the Google Kubernetes Engine console and delete existing clusters.

2. Recreate a new cluster.

3. Clear the option to enable legacy Stackdriver Logging.

C

1. Go to the Logs ingestion window in Stackdriver Logging.

2. Disable the log source for the Google Kubernetes Engine container resource.

D

1. Go to the Google Kubernetes Engine console and delete existing clusters.

2. Recreate a new cluster.

3. Clear the option to enable legacy Stackdriver Monitoring.

**Benar C**

Kategori : EN - Configuring access and security 1

Your client hosts a static website on Cloud Storage written in HTML, CSS, and JavaScript. The site targets users in North America. The usage of the website has grown worldwide and hundreds of thousands of visitors access it monthly. Visitors from different parts of the world are experiencing slow performance due to latency while users in the United States experience normal response times. What service can mitigate this issue?

A

Storage Caching

B

Cloud DNS

C

Cloud CDN

D

Load Balancer

**Benar C**

Kategori : EN - Configuring access and security 1

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

A

Configure the acquired company's billing account and your company's billing account to export the billing data into the same BigQuery dataset.

B

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

C

Link the acquired company's projects to your company's billing account.

D

Create a new GCP organization and a new billing account. Migrate the acquired company's projects and your company's projects into the new GCP organization and link the projects to the new billing account.

**Salah A MUNGKIN**

Kategori : EN - Configuring access and security 1

The development team wants to deploy an application on Cloud Run that processes messages from a Cloud Pub/Sub topic. You've been designated to give them a solution for the possible steps. They want to follow Google-recommended practices. What solution you will provide to them?

A

1. Create a Cloud Functions that use a Cloud Pub/Sub trigger on that topic.

2. Call your application on Cloud Run from the Cloud Functions for every message.

B

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.

C

1. Grant the Pub/Sub Subscriber role to the service account used by Cloud Run.

2. Create a Cloud Pub/Sub subscription for that topic.

3. Make your application pull messages from that subscription.

D

1. Deploy your application on Cloud Run on GKE with the connectivity set to Internal.

2. Create a Cloud Pub/Sub subscription for that topic.

3. In the same Google Kubernetes Engine cluster as your application, deploy a container that takes the messages and sends them to your application.

**Salah B MUNGKIN**

Kategori : EN - Configuring access and security 1

When managing a customer-facing website, the frontend domain is configured with Cloud CDN for faster content delivery, and Compute Engine Instance groups are configured to support the backend functionality. There is a need to enforce visitors of the application who request through HTTP must be redirected to more secure HTTPS pages and essentially allow both HTTP and HTTPS traffic inside the same domain name of the website.

Which of the following approaches should be followed to accomplish it?

A

Reserve an IP address and bind it to both the HTTP and HTTPS frontend configuration in the External TCP Proxy Load Balancing.

B

Dynamically assign an ephemeral IP address and add the HTTP and HTTPS configurations separately in the External HTTP(S) Load Balancing.

C

Reserve an IP address and bind it to both the HTTP and HTTPS frontend configuration in the external External HTTP(S) Load Balancing.

D

Dynamically assign a temporary IP address and update the HTTP and HTTPS configurations separately in External SSL Proxy Load Balancing.

**Benar C**

Kategori : EN - Configuring access and security 1

Your machine learning team is building an application that will run in your on-premise infrastructure. The application will use one of the machine learning services in the Google Cloud Platform, which is AutoML. To help their project, 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?

A

Use service account credentials in your on-premises application.

B

Set up a direct connection using Cloud Interconnect between your on-premise and Google Cloud Platform to enable authentication for your on-premises applications.

C

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

D

Go to the IAM & Admin console, grant user account permissions similar to the service account permissions, and use this user account for authentication from your on-premise.

**Salah**

Kategori : EN - Configuring access and security 1

Your colleague was assigned a new DevOps project in Google Cloud Platform and he needs deploymentmanager.deployments.\* permission to make use of Deployment Manager service. Which of the following roles would you create for him?

A

Deployment Manager Editor

B

Deployment Manager Custom

C

Deployment Manager Type Viewer

D

Deployment Manager Viewer

**Salah B MUNGKIN**

Kategori : EN - Configuring access and security 1

Your company has purchased a threat detection service from a third party and has asked you to upload all network logs to the application. Which of the following service will meet your requirements?

A

Network Logs

B

Flow Logs

C

System Logs

D

Activity Logs

**Benar B**

Kategori : EN - Configuring access and security 1

Your company has deployed an application using an App Engine standard environment. You have been asked to update the cron schedules and default cookie expiration time. Which of the following predefined roles has access to update default cookie expiration but no access to update cron schedules?

A

App Engine Service Admin

B

App Engine Admin

C

App Engine Deployer

D

App Engine Code Viewer

**Salah B MUNGKIN**

Kategori : EN - Configuring access and security 1

One of your team members had accidentally included a service account private JSON key while pushing code to GitHub. What steps should you immediately perform?

A

Delete the JSON file from GitHub.

B

Delete the project and all its resources.

C

Delete the JSON file from GitHub, remove the key from Google Cloud IAM and generate a new key for use.

D

None of the above

**Benar C**

Kategori : EN - Configuring access and security 1

In your Company, two teams are working on their respective GCP projects with similar cloud resources. Due to time constraints and minimizing the work of creating separate VPC networks, they have a requirement of using the same subnet. Which of the following would enable both teams while maintain centralized control over network resources like subnets, routes, and firewalls?

A

Create a Shared VPC and attach service projects to it to use the same subnet.

B

Create a Shared VPC and designate a project as a host project and attach the other service projects to it to use the same subnet.

C

Create a custom-mode VPC and use the same subnet.

D

Create an auto-mode VPC and use the same subnet for each region.

**Benar B**

The fundraising organization has an instance group that contains several VM instances that they want to load balance to distribute the traffic coming to their website. You have been asked to choose the most appropriate load balancer solutions in Google Cloud that can terminate the client SSL session. The instance group is used to serve their public website over HTTPS. You want to follow Google-recommended practices. What should you do?

A

Configure an External SSL Proxy Load Balancing.

B

Configure an External TCP Proxy Load Balancing.

C

Configure an Internal TCP/UDP Load Balancing.

D

Configure an External HTTP(S) Load Balancing.

Benar A

The engineering team is building an application that routes requests on the TCP layer. They need a load balancer with support for SSL termination on the load balancer. Which of the following is the best available option?

A

External HTTP(S) Load Balancing

B

External SSL Proxy Load Balancing

C

External TCP/UDP Network Load Balancing

D

Internal TCP Proxy Load Balancing

Benar A

Simulasi ke-2:

You are heading to the Cloud & DevOps department in a financial company and have been asked to create a custom role for one of your colleagues who needs access to deploy an application to the App Engine. Which permission will you use?

A

App Engine Editor

B

App Engine Admin

C

App Engine Deployer

D

App Engine Viewer

Benar C

Your manager asked you to find out when users were added to the Cloud Spanner IAM roles on the company's GCP project. What should you do in the Cloud Console?

A

Open the IAM & admin console to review IAM policies for Cloud Spanner roles.

B

Go to the Cloud Logging console, review admin activity logs, and filter them for Cloud Spanner IAM role

C

Go to the Cloud Monitoring console and review the information for Cloud Spanner.

D

Open the Cloud Spanner console to review configurations.

**Salah A Mungkin B**

The external auditor came to your company and wants to audit the GCP project used by your company for deploying the company's app. Hence, you have to add the external auditor to the company's GCP project. Auditors should be allowed to read, but not modify, all project items. How should you configure the auditor's permissions?

A

Create a custom role with view-only project permissions. Add the user's account to the custom role.

B

Create a custom role with view-only service permissions. Add the user's account to the custom role.

C

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

D

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

**Benar D**

You are the project owner of a company's GCP project. Because you're about to switch departments, the manager asked you to delegate control to your colleague to manage buckets and files in Cloud Storage. You want to follow Google-recommended practices. Which IAM roles should you grant to your colleague?

A

Project Editor

B

Storage Admin

C

Storage Object Admin

D

Storage Object Creator

**Salah C Mungkin B**

Kategori : EN - Setting up a cloud solution environment 2

You have recently joined a startup and have been asked to create a new Google Cloud account for the company along with setting up a budget alarm of $100. You have set up an alarm with a 40%, 60%, 90%, and 100% threshold. What will happen once the threshold of 100% is reached?

A

A notification will be sent to Project Owner & Billing Admins.

B

Your project will be deleted because you have depleted all of your budgets.

C

All VMs will be stopped so that you don’t exceed your budget.

D

A notification will be sent to Billing Admins and Billing Users.

**Benar D**

Kategori : EN - Setting up a cloud solution environment 2

You've been developing the payroll application for the past two weeks. So far, you've been working locally and have had success. Now you want to migrate the application to the GCP using Compute Engine as a VM and Cloud SQL as a database. You created a service account with the appropriate access rights. You want to make sure that the VM uses this service account instead of the default Compute Engine service account. What should you do?

A

Download a JSON Private Key for the service account. After creating the VM, ssh into the VM and save the JSON under ~/.gcloud/compute-engine-service- account.json.

B

Download a JSON Private Key for the service account. On the Custom Metadata of the VM, add that JSON as the value for the key compute-engine- service-account.

C

Download a JSON Private Key for the service account. On the Project Metadata, add that JSON as the value for the key compute-engine-service- account.

D

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

**Benar D**

Kategori : EN - Setting up a cloud solution environment 2

The external auditors come to your company and want to audit the IAM users and roles assigned within a GCP project used by your company's application. What should the external auditor do?

A

Run gcloud iam service-accounts list. Review the output section.

B

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

C

Run gcloud iam roles list. Review the output section.

D

Navigate to the project and then to the Roles section in the Cloud Console. Review the roles and status.

**Benar B**

Kategori : EN - Setting up a cloud solution environment 2

As a cloud engineer, you have been asked to upgrade the free trial of your account and rename it to a production-inventory-system. You are getting a permission denied error while making the changes. Which of the following permissions will solve the problem?

A

billing.accounts.update

B

billing.account.upgrade

C

billing.account.update

D

billing.accounts.upgrade

**Salah D**

Kategori : EN - Setting up a cloud solution environment 2

The external auditors come to your company and want to audit the data and log in BigQuery. You need to configure the IAM role for the external auditors using Google-recommended practices. What should you do?

A

Add the auditor's group to two new custom IAM roles.

B

Add the auditor's group to the 'logging.viewer' and 'bigQuery.dataViewer' predefined IAM roles.

C

Add the auditor user accounts to the 'logging.viewer' and 'bigQuery.dataViewer' predefined IAM roles.

D

Add the auditor user accounts to two new custom IAM roles.

**Benar B**

Kategori : EN - Setting up a cloud solution environment 2

In order to manage the company's application, 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 GCP accounts using the gcloud CLI. What are the most effective steps to meet this requirement?

A

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.

B

Create two configurations using gcloud config configurations create [NAME]. Run gcloud configurations list to start the Compute Engine instances.

C

Activate two configurations using gcloud configurations activate [NAME]. Run gcloud configurations list to start the Compute Engine instances.

D

Activate two configurations using gcloud configurations activate [NAME]. Run gcloud config list to start the Compute Engine instances

**Benar A**

Kategori : EN - Planning and configuring a cloud solution 2

You have been asked to build a backend using Clojure and host it on Google Cloud with full freedom of choosing OS, applications, libraries, etc. Which service will you prefer?

A

Cloud Run

B

Cloud Functions

C

Compute Engine

D

App Engine Standard

**Benar C**

Kategori : EN - Planning and configuring a cloud solution 2

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

A

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

B

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

C

Select Multi-Regional Storage. Add a bucket lifecycle rule that archives data after 30 days to Nearline Storage.

D

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

**Salah C MUNGKIN YG BENER A**

Kategori : EN - Planning and configuring a cloud solution 2

You have a SQL Server database running on a VM with n1-standard-4 machine type. For the last few days, you are noticing performance degradation because of more than 95% memory utilization. CPU metrics look absolutely fine and need no change. Your manager has asked you to increase a small amount of memory keeping the cost in mind. What is the most cost-effective approach?

A

Change machine type to n1-highmem-4.

B

Change machine type to n1-highcpu-10.

C

Change machine type to n1-standard-6.

D

Switch to custom machine type and increase memory size.

**Salah MUNGKIN D**

Kategori : EN - Planning and configuring a cloud solution 2

You are starting to work on a client’s project who is looking for a database service within Google Cloud that is horizontally scalable, supports gigabyte size of relational data, and even supports ACID for reliable storage of data. Which service will you recommend?

A

Cloud Spanner

B

Cloud Datastore

C

Cloud SQL

D

BigQuery

**Benar A**

Kategori : EN - Planning and configuring a cloud solution 2

You work for an e-commerce startup company as a System Administrator. Your main responsibility is to maintain the underlying infrastructure that runs the company's application. Your company's infrastructure is on-premises. Because of the user traffic spikes on the Black Friday campaign, all servers are running at maximum capacity. Therefore, you want to connect the on-premise to the Google Cloud environment to help this situation. The workloads on Google Cloud must be able to directly communicate with the workloads on-premises using a private IP range. What should you do?

A

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

B

In Google Cloud, configure the VPC as a host for Shared VPC.

C

In Google Cloud, configure the VPC for VPC Network Peering.

D

Create bastion hosts both in your on-premises environment and on Google Cloud. Configure both as proxy servers using their public IP addresses.

**Benar A**

Kategori : EN - Planning and configuring a cloud solution 2

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

A

Verify that both projects are in a GCP Organization. Create a new VPC and add all instances.

B

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.

C

Verify that you are the Project Administrator of both projects. Create two new VPCs and add all instances.

D

Verify that you are the Project Administrator of both projects. Create a new VPC and add all instances.

**Benar B**

Kategori : EN - Planning and configuring a cloud solution 2

Your client wants to migrate an application to Google Cloud which has 15 TB of relational data. The database is growing rapidly by 10 GB every day. In addition, to support the traffic, at least 10 read replicas are required. Which of the following services would you meet the requirements?

A

BigQuery

B

Cloud Bigtable

C

Cloud Storage

D

Cloud Spanner

**Benar D**

Kategori : EN - Planning and configuring a cloud solution 2

Your application runs using Compute Engine VM instances that reside in a subnet that has a subnet mask of 255.255.255.240. It was running fine at first, but now the subnet has no more free IP addresses and you require an additional 10 IP addresses to launch the new VMs. The existing and new VMs should all be able to reach each other without additional routes. What should you do?

A

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

B

Delete the subnet, and recreate it using a wider range of IP addresses.

C

Create a new project. Use Shared VPC to share the current network with the new project.

D

Create a new subnet with the same starting IP but a wider range to overwrite the current subnet.

**Benar A**

Kategori : EN - Planning and configuring a cloud solution 2

You have 100 TB of non-relational data and want to run analytics on it to see the previous year’s net sales. Which tool suits your requirement?

A

Cloud Bigtable

B

Cloud Datastore

C

BigQuery

D

Cloud Storage

**Salah C Mungkin A**

Kategori : EN - Deploying and implementing a cloud solution 2

Your company has launched an LDAP server using Compute Engine. The LDAP server is configured in such a way that should be reachable via TLS through port 636 using UDP. Before deploying to the public, you want to make sure it is reachable by clients over that port. What should you do?

A

Create a route called allow-udp-636 and set the next hop to be the VM instance running the LDAP server.

B

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.

C

Add a network tag of your choice to the instance running the LDAP server. Create a firewall rule to allow egress on UDP port 636 for that network tag.

D

Add the network tag allow-udp-636 to the VM instance running the LDAP server.

**Benar B**

Kategori : EN - Deploying and implementing a cloud solution 2

You have created a subnet named subnetace1 with 16.382 addresses using 192.168.0.0. Later you realize that you won’t require too many addresses, and so you want to reduce addresses to 254. Which of the following commands would you use?

A

gcloud compute networks subnets expand-ip-range subnetace1 --prefix-length=28

B

gcloud compute networks subnets expand-ip-range subnetace1 --size=248

C

gcloud compute networks subnets expand-ip-range subnetace1 --prefix-length=-12

D

There is no command in google cloud to reduce the number of available addresses in a subnet.

**Benar D**

Kategori : EN - Deploying and implementing a cloud solution 2

You are building an architecture for one of your clients with a requirement of streaming millions of requests with high availability and durability along with HIPAA compliance. Which managed service will you prefer?

A

Cloud Functions

B

Cloud Dataproc

C

Cloud Pub/Sub

D

RabbitMQ

**Benar C**

Kategori : EN - Deploying and implementing a cloud solution 2

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?

A

Create an HAProxy pod in the cluster to load-balance the traffic to all the pods of the application. Forward the public traffic to HAProxy with an iptable rule. Configure the DNS name of your application using the public IP of the node HAProxy is running on.

B

Create a Kubernetes Service of type NodePort to expose the application on port 443 of each node of the Kubernetes cluster. Configure the public DNS name of your application with the IP of every node of the cluster to achieve load-balancing.

C

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

D

Create a Kubernetes Service of type ClusterIP for your application. Configure the public DNS name of your application using the IP of this Service.

**Benar C**

Kategori : EN - Deploying and implementing a cloud solution 2

A developer has asked you to create a single NGINX server for the development environment. Which service would allow you to launch VM using predefined images?

A

App Engine

B

Cloud Marketplace

C

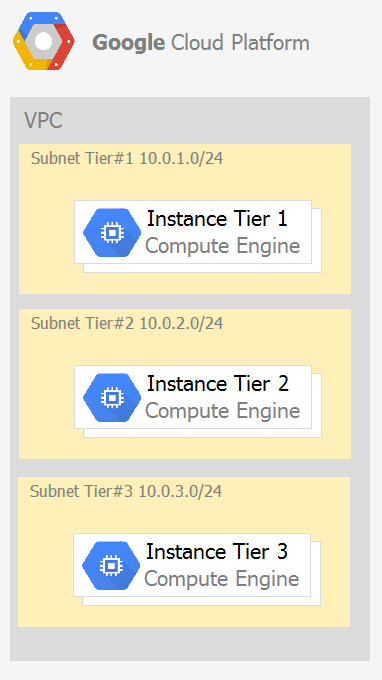
Cloud SQL

D

Google Kubernetes Engine

**Salah D Mungkin B**

Kategori : EN - Deploying and implementing a cloud solution 2

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:

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

What should you do?

A

1. Create an ingress firewall rule with the following settings:

- Targets: all instances

- Source filter: IP ranges (with the range set to 10.0.2.0/24)

- Protocols: allow all

2. Create an ingress firewall rule with the following settings:

- Targets: all instances

- Source filter: IP ranges (with the range set to 10.0.1.0/24)

- Protocols: allow all

B

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 all

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 all

C

1. Create an egress firewall rule with the following settings:

- Targets: all instances

- Source filter: IP ranges (with the range set to 10.0.2.0/24)

- Protocols: allow TCP: 8080

2. Create an egress firewall rule with the following settings:

- Targets: all instances

- Source filter: IP ranges (with the range set to 10.0.1.0/24)

- Protocols: allow TCP: 8080

D

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

**Benar D**

Kategori : EN - Deploying and implementing a cloud solution 2

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

A

Load data in Cloud Datastore and run a SQL query against it.

B

Create a BigQuery table and load data in BigQuery. Run a SQL query on this table and drop this table after you complete your request.

C

Create a Hadoop cluster and copy the AVRO file to NDFS by compressing it. Load the file in a hive table and provide access to your analysts so that they can run SQL queries.

D

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

**Benar D**

Kategori : EN - Deploying and implementing a cloud solution 2

Your client has a website that runs in Google Cloud using an App Engine standard environment. They are going to deploy their new version of the website. For testing purposes, they want only 1% of their users to see the new version. You want to minimize complexity. What should you do?

A

Deploy the new version in the same application and use the --migrate option.

B

Deploy the new version in the same application and use the --splits option to give a weight of 99 to the current version and a weight of 1 to the new version.

C

Create a new App Engine application in the same project. Deploy the new version in that application. Configure your network load balancer to send 1% of the traffic to that new application.

D

Create a new App Engine application in the same project. Deploy the new version in that application. Use the App Engine library to proxy 1% of the requests to the new version.

**Salah C Mungkin B**

Kategori : EN - Deploying and implementing a cloud solution 2

You need to allow traffic from specific virtual machines in ‘subnet-a’ network access to machines in ‘subnet-b’ without giving the entirety of subnet-a access. How can you accomplish this?

A

Relocate the subnet-a machines to a different subnet and give the new subnet the needed access.

B

You can only grant firewall access to an entire subnet and not individual VM’s inside.

C

Create a firewall rule to allow traffic from resources with specific network tags, then assign the machines in subnet-a the same tags.

D

Create a rule to deny all traffic to the entire subnet, then create a second rule with higher priority giving access to tagged VM’s in subnet-a.

**Benar C**

Kategori : EN - Deploying and implementing a cloud solution 2

You work as a Cloud Engineer in a supply chain company. The developer team is building a new version of an application hosted in an App Engine environment. Before you completely switch your application over to the new version, you want to test the new version with 1% of users. What are the possible steps to accomplish this need?

A

Deploy a new version as a separate App Engine application in the same GCP project. Then configure App Engine using Cloud Console to split traffic between the two apps.

B

Deploy a new version of your application in a Compute Engine instance instead of App Engine and then use Cloud Console to split traffic.

C

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

D

Deploy a new version of your application in Google Kubernetes Engine instead of App Engine and then use Cloud Console to split traffic.

**Salah A Mungkin C**

Kategori : EN - Ensuring successful ops of a cloud solution 2

The development team in your startup company needs a new Jenkins server as a CI tool for their project in the Google Cloud Platform. They do not have expertise in GCP and want to deploy the server using the fewest steps possible to shorter time-to-market. What solution you will provide to them?

A

Create a Kubernetes cluster on Compute Engine and create a deployment with the Jenkins Docker image.

B

Use Google Cloud Marketplace to launch the Jenkins solution.

C

Create a new Compute Engine instance and install Jenkins through the command line interface.

D

Download and deploy the Jenkins Java WAR to App Engine Standard.

**Benar B**

Kategori : EN - Ensuring successful ops of a cloud solution 2

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?

A

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.

B

Arrange to switch to Flat-Rate pricing for this query, then move back to on-demand.

C

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

D

Run a select count (\*) to get an idea of how many records your query will look through. Then convert that number of rows to dollars using the Pricing Calculator.

**Benar A**

Kategori : EN - Ensuring successful ops of a cloud solution 2

You are about to start working on a microservice deployment project using Google Kubernetes Engine service. The client needs everything on Google and wants you to maintain both frontend and backend code on Google Cloud as well. Which service best suits this case?

A

Cloud Storage

B

Cloud Source Repositories

C

Container Registry

D

GitHub

**Benar B**

Kategori : EN - Ensuring successful ops of a cloud solution 2

You have a Kubernetes cluster with 1 node-pool. The cluster receives a lot of traffic and needs to grow. You decide to add a node. What should you do?

A

Use “gcloud container clusters resize” with the desired number of nodes.

B

Use “kubectl container clusters resize” with the desired number of nodes.

C

Edit the Managed Instance Group of the cluster and increase the number of VMs by 1.

D

Edit the Managed Instance Group of the cluster and enable autoscaling.

**Salah C Mungkin A**

Kategori : EN - Ensuring successful ops of a cloud solution 2

The development team has a single binary application that they want to run on the Google Cloud Platform. You've been designated to do this task. They want the application to be scaled automatically 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?

A

Use a set of third-party tools to build automation around scaling the application up and down based on CPU usage provided by Cloud Monitoring.

B

Create an instance template, and use the template in a Managed Instance Group that scales up and down based on the time of day.

C

Create a Google Kubernetes Engine cluster, and use horizontal pod autoscaling to scale the application.

D

Create an instance template, and use the template in a Managed Instance Group with autoscaling configured.

**Benar D**

Kategori : EN - Ensuring successful ops of a cloud solution 2

You were asked by the CTO to create an IT infrastructure in Google Cloud that replicates the on-premise resources using Infrastructure as Code (IaC) technology. Fortunately, GCP has a magnificent IaC management tool called Deployment Manager. Then you write some code in Deployment Manager template format. Before committing it to the project, you want to confirm that the dependencies of all defined resources are properly met. You want the most rapid feedback on your changes. What should you do?

A

Execute the Deployment Manager template against a separate project with the same configuration, and monitor for failures.

B

Use granular logging statements within a Deployment Manager template authored in Python.

C

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

D

Monitor the activity of the Deployment Manager execution on the Stackdriver Logging page of the Cloud Console.

**Benar C**

Kategori : EN - Ensuring successful ops of a cloud solution 2

The fundraising organization has an instance group that contains several VM instances that they want to load balance to distribute the traffic coming to their website. You have been asked to choose the most appropriate load balancer solutions in Google Cloud that can terminate the client SSL session. The instance group is used to serve their public website over HTTPS. You want to follow Google-recommended practices. What should you do?

A

Configure an External SSL Proxy Load Balancing.

B

Configure an External HTTP(S) Load Balancing.

C

Configure an External TCP Proxy Load Balancing.

D

Configure an Internal TCP/UDP Load Balancing.

**Salah A yang Bener B**

Kategori : EN - Ensuring successful ops of a cloud solution 2

A web application is hosted on VM and its resources are stored in a bucket. You have been asked to let any authenticated user access the very high-level blueprint of the company's product. This blueprint does not contain any confidential data or IP data so can be made available to the public as well. What changes are required to make it work?

A

Add a new entry in permission with allUsers having public permission.

B

Create a new entry in permission with allAuthenticatedUsers having read permission.

C

Create a new entry in permission with allAuthorizedUsers having public permission.

D

Remove all existing entries from permission and add allAuthenticatedUsers having read permission.

**Benar B**

Kategori : EN - Ensuring successful ops of a cloud solution 2

Your colleague has an object in a Cloud Storage bucket that she wants to share with the team leader in a different department. The object contains sensitive data. She wants access to the content to be removed after four hours. The team leader does not have a Google account to which your colleague can grant specific user-based access privileges. She asked you what is the most secure method for this case that requires the fewest steps. What solution you will provide to her?

A

Create a signed URL with a four-hour expiration and share the URL with the team leader.

B

Set object access to 'public' and use object lifecycle management to remove the object after four hours.

C

Configure the storage bucket as a static website and furnish the object's URL to the team leader. Delete the object from the storage bucket after four hours.

D

Create a new Cloud Storage bucket specifically for the team leader to access. Copy the object to that bucket. Delete the bucket after four hours have passed.

**Benar A**

Kategori : EN - Ensuring successful ops of a cloud solution 2

A development team works with two Cloud Functions using Node.js code. Each function corresponds to environments for development and production. The code is the same except for the Cloud SQL database values used in each function. The team wants to maintain code in a clean and reusable fashion and decides to pass the database value during function execution. Which feature will allow you to do this?

A

Metadata

B

Environment Variables

C

Timeouts

D

Service Accounts

**Benar B**

Kategori : EN - Configuring access and security 2

Your company is going for an audit and the auditor has approached you to provide them with all the audit logs related to the ace-prod project. Which service will you use to extract the logs for auditors?

A

Cloud Logging

B

Flow logs

C

Audit logs

D

Activity logs

**Salah A Mungkin C**

Kategori : EN - Configuring access and security 2

Your company has uploaded some business-critical documents to Cloud Storage and your project manager wants you to restrict access to the objects by using ACLs. Which of the following permission would allow you to update the object ACLs?

A

storage.objects.update

B

storage.objects.setIamPolicy

C

storage.objects.create

D

storage.objects.getIamPolicy

**Benar B**

Kategori : EN - Configuring access and security 2

Your company has deployed an application using the App Engine flexible environment and you have been asked to SSH to the VM instance, update the app configuration and if required, enable and disable the App Engine application. Which of the following predefined roles has access to perform these tasks?

A

App Engine Admin

B

App Engine Service Admin

C

App Engine Deployer

D

App Engine Code Viewer

**Salah B Mungkin A**

Kategori : EN - Configuring access and security 2

Your company has appointed a new DevOps Engineer with experience in the Google Cloud Platform. You have been asked to create a user which would allow him to call “builds.cancel()” API only. Which of the following permission would you consider completing this task?

A

cloudbuild.builds.create

B

cloudbuild.builds.list

C

cloudbuild.builds.update

D

cloudbuild.builds.get

**Salah A Mungkin C**

Kategori : EN - Configuring access and security 2

You have been asked to create VPC for a two-tier architecture for the frontend and backend of the application. Additionally, you need to make sure that backend instances are only reachable via frontend instances. What is the best approach to achieve this?

A

Add labels to your frontend instances and use the same labels as source tags while creating firewall rules for backend instances.

B

Add network tags to your frontend instances and use them under the targets section while creating a firewall for the backend instance.

C

Select the service account attached to your frontend instance as a source filter while creating a firewall.

D

While creating a firewall, provide the IP address of the frontend instance as a source filter and attach it to the backend instance.

**Salah B Mungkin C**

Kategori : EN - Configuring access and security 2

You are trying to fetch metadata of a VM using the “curl metadata.google.internal/computeMetadata/v1/” command, but are constantly receiving 403 Forbidden. What could be the possible reason?

A

Service account is missing.

B

Metadata-Flavor: Google header is missing.

C

Metadata-Access: Google header is missing.

D

Firewall rule attached to the VM is blocking the request.

**Salah D Mungkin B**

Kategori : EN - Configuring access and security 2

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

A

Create a docker image from the Dockerfile and upload it to Container Registry. Create a Deployment YAML file to point to that image. Use kubectl to create the deployment with that file.

B

Create a docker image from the Dockerfile and upload it to Cloud Storage. Create a Deployment YAML file to point to that image. Use kubectl to create the deployment with that file.

C

Use gcloud app deploy <dockerfilename>.

D

Use kubectl app deploy <dockerfilename>.

**Benar A**

Kategori : EN - Configuring access and security 2

You want to list roles assigned to users in a project called ace-exam-project. What gcloud CLI command would you use?

A

gcloud projects get-iam-policy ace-exam-project

B

gcloud iam list ace-exam-project

C

gcloud projects list ace-exam-project

D

gcloud iam get-iam-policy ace-exam-project

**Salah D Mungkin A**

Kategori : EN - Configuring access and security 2

Your colleague has asked for help in creating an IAM role using gcloud CLI. Which of the following is the correct command to create an IAM role?

A

gcloud iam create role viewer-role --project academy --permissions “roles/viewer”

B

gcloud iam roles create viewer-role --project academy --file=role-definition.yaml

C

gcloud project roles create --type iam viewer-role --project academy --file role-definition.yaml

D

gcloud iam roles create viewer-role --project academy --permissions “roles/viewer”

**Salah D Mungkin B**

Kategori : EN - Configuring access and security 2

Your project team has asked you to disable a custom role editor from the project which might require deletion from your Google Cloud Platform console. The project team will inform you when to perform the deletion of the role. Suggest the correct gcloud command to perform the deletion!

A

gcloud iam roles disable editor --project-id [project\_id]

B

gcloud iam roles update editor --project-id [project\_id] --stage disable

C

gcloud iam roles update editor --project [project\_id] --stage disabled

D

gcloud iam roles disable editor --project [project\_id]

**Salah D Mungkin B**

Simulasi ke 3

Your company has an application running in the Compute Engine VM that belongs to the GCP project called dev-proj with appropriate IAM roles defined. In several weeks, the application is ready to be deployed to production, so you created the project called prod-proj. In order to equalize the development and production environment, you want the prod-proj to have the same IAM roles as the dev-proj. Using the fewest possible steps, what should you do?

A

Use gcloud iam roles copy and specify your organization as the destination organization.

B

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

C

In the Google Cloud Platform Console, use the 'create role from role' functionality.

D

In the Google Cloud Platform Console, use the 'create role' functionality and select all applicable permissions.

**Benar B**

Kategori : EN - Setting up a cloud solution environment 1

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 Cloud Logging agent on all the instances. You want to minimize cost. What should you do?

A

1. In Cloud 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.

B

1. Give the BigQuery Data Editor role on the platform-logs dataset to the service accounts used by your instances.

2. Update your instances' metadata to add the following value: logs-destination: bq://platform-logs.

C

1. In Cloud Logging, create a logs export with a Cloud Pub/Sub topic called logs as a sink.

2. Create a Cloud Function that is triggered by messages in the logs topic.

3. Configure that Cloud Function to drop logs that are not from Compute Engine and to insert Compute Engine logs in the platform-logs dataset.

D

1. Create a Cloud Function that has the BigQuery User role on the platform-logs dataset.

2. Configure this Cloud Function to create a BigQuery Job that executes this query: INSERT INTO dataset.platform-logs (timestamp, log) SELECT timestamp, log FROM compute.logs WHERE timestamp > DATE\_SUB(CURRENT\_DATE(), INTERVAL 1 DAY)

3. Use Cloud Scheduler to trigger this Cloud Function once a day.

**Benar A**

Kategori : EN - Setting up a cloud solution environment 1

What is the correct command to set the default zone for Compute Engine VM using gcloud CLI?

A

gcloud config set compute/zone us-east1

B

gcloud config configurations set compute/zone us-east1-a

C

gcloud config set compute/zone us-east1-a

D

gcloud defaults set compute/zone us-east1

**Benar C**

Kategori : EN - Setting up a cloud solution environment 1

Your company has decided to build an in-house application for payroll processing, and you have been assigned a task to create a VM, Cloud SQL DB, and Cloud Storage bucket. While testing the application, developers found that they couldn't upload files to the bucket. You want to follow Google-recommended practices. What should you do?

A

Create a service account and add it to the IAM role 'storage.objectAdmin' for that bucket.

B

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

C

Check if egress firewall rules are applied to instances allowing connection between bucket and VM.

D

Check if the default service account is attached to VM, if not edit the instance and attach it.

**Salah A MUNGKIN B**

Kategori : EN - Setting up a cloud solution environment 1

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?

A

Run gcloud init to set the current project to my-project, and then run gcloud services list --available.

B

Run gcloud projects describe <project ID> to verify the project value, and then run gcloud services list --available.

C

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

D

Run gcloud info to view the account value, and then run gcloud services list --account <Account>.

**Benar C**

Kategori : EN - Setting up a cloud solution environment 2

You've been developing the payroll application for the past two weeks. So far, you've been working locally and have had success. Now you want to migrate the application to the GCP using Compute Engine as a VM and Cloud SQL as a database. You created a service account with the appropriate access rights. You want to make sure that the VM uses this service account instead of the default Compute Engine service account. What should you do?

A

Download a JSON Private Key for the service account. After creating the VM, ssh into the VM and save the JSON under ~/.gcloud/compute-engine-service- account.json.

B

Download a JSON Private Key for the service account. On the Custom Metadata of the VM, add that JSON as the value for the key compute-engine- service-account.

C

Download a JSON Private Key for the service account. On the Project Metadata, add that JSON as the value for the key compute-engine-service- account.

D

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

**Benar D**

Kategori : EN - Setting up a cloud solution environment 2

The external auditors come to your company and want to audit the IAM users and roles assigned within a GCP project used by your company's application. What should the external auditor do?

A

Run gcloud iam roles list. Review the output section.

B

Navigate to the project and then to the Roles section in the Cloud Console. Review the roles and status.

C

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

D

Run gcloud iam service-accounts list. Review the output section.

**Benar C**

Kategori : EN - Setting up a cloud solution environment 2

The external auditor came to your company and wants to audit the GCP project used by your company for deploying the company's app. Hence, you have to add the external auditor to the company's GCP project. Auditors should be allowed to read, but not modify, all project items. How should you configure the auditor's permissions?

A

Create a custom role with view-only project permissions. Add the user's account to the custom role.

B

Create a custom role with view-only service permissions. Add the user's account to the custom role.

C

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

D

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

**Benar D**

Kategori : EN - Setting up a cloud solution environment 2

As a Cloud Engineer in your company, you are responsible for managing the three Google Cloud Platform projects. In the last couple of weeks, one of the GCP projects that contain the company's website called web-proj has increased the cost. To mitigate the problem, you have the initiative to set a budget alert. All three projects are linked to a single billing account. What should you do?

A

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

B

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

C

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

D

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

**Salah B MUNGKIN A**

Kategori : EN - Setting up a cloud solution environment 2

The external auditors come to your company and want to audit the data and log in BigQuery. You need to configure the IAM role for the external auditors using Google-recommended practices. What should you do?

A

Add the auditor's group to two new custom IAM roles.

B

Add the auditor's group to the 'logging.viewer' and 'bigQuery.dataViewer' predefined IAM roles.

C

Add the auditor user accounts to the 'logging.viewer' and 'bigQuery.dataViewer' predefined IAM roles.

D

Add the auditor user accounts to two new custom IAM roles.

**Benar B**

Kategori : EN - Planning and configuring a cloud solution 1

For developing a small-scale PoC (Proof of Concept), there is a requirement to run workloads like batch job processing and building agents as a part of your continuous integration/continuous delivery (CI/CD) infrastructure pipeline. These tasks run for less than a day and are estimated to be short-lived processes. The workloads should be flexible to configure as well as cost-effective.

Which option would be most suitable to satisfy this requirement?

A

Use Compute Engine with preemptible VM instances.

B

Use Compute Engine with predefined VM instances and templates.

C

Use Compute Engine custom machine types and choose the required number of virtual CPUs and disk spaces.

D

Use Cloud Functions to run the workload at a minimal cost.

**Benar A**

Kategori : EN - Planning and configuring a cloud solution 1

A new client has approached your company who wants a serverless static application running on Google Cloud. They want their frontend in React and backend to be written in Python because they have an in-house team that is familiar with React and Python. Which service(s) will you prefer to use?

A

Cloud Functions and Cloud Storage

B

Cloud Pub/Sub and Cloud Storage

C

Google Kubernetes Engine and Cloud Functions

D

Cloud Functions

**Benar A**

Kategori : EN - Planning and configuring a cloud solution 1

You have set a firewall rule that will permit inbound connections to a VM instance named dev-server-2. You want to apply this rule only if there is no other rule that would deny that traffic. What priority would you give to this rule?

A

1000

B

1

C

65535

D

0

**Salah B D MUNGKIN C**

Kategori : EN - Planning and configuring a cloud solution 1

You have been hired as a contractor by one of the travel technology companies that is planning to containerize their existing applications in such a way that they can perform a lift and shift very easily in the future if they plan to move away from Google Cloud. Which service will best suit this case?

A

Cloud Run

B

Cloud Functions

C

Google Kubernetes Engine

D

App Engine Standard

**Benar C**

Kategori : EN - Planning and configuring a cloud solution 1

You have to build a functionality to manage user sessions in an online shopping cart for retail transactions. There is a need to ensure that users can lock down one or more documents until their transaction is complete. What would be the correct choice of database to handle the requirement?

A

Use Cloud Firestore to handle user session management.

B

Use Cloud Spanner to manage user sessions.

C

Use Cloud SQL and use sub-queries to hold the session.

D

Use BigQuery for streaming data from user sessions.

**Benar A**

Kategori : EN - Planning and configuring a cloud solution 2

You are starting to work on a client’s project that has a web application deployed as a managed instance group. The developer has finished writing and testing the code for the new version of the application and gradually deploy it to production. Your web application is currently receiving live web traffic. You want to ensure that the available capacity does not decrease during the deployment so users can use the app without any trouble. What should you do?

A

Create a new managed instance group with an updated instance template. Add the group to the backend service for the load balancer. When all instances in the new managed instance group are healthy, delete the old managed instance group.

B

Create a new instance template with the new application version. Update the existing managed instance group with the new instance template. Delete the instances in the managed instance group to allow the managed instance group to recreate the instance using the new instance template.

C

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

D

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

**Salah B C MUNGKIN A**

Kategori : EN - Planning and configuring a cloud solution 2

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

A

1. Use Migrate for Compute Engine (formerly known as Velostrata) to migrate those servers to Compute Engine.

2. Create an internal load balancer (ILB) that uses storage.googleapis.com as the backend.

3. Configure your new instances to use this ILB as a proxy.

B

1. Using Cloud VPN or Interconnect, create a tunnel to a VPC in Google Cloud.

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.

C

1. Using Cloud VPN, create a VPN tunnel to a Virtual Private Cloud (VPC) in Google Cloud.

2. In this VPC, create a Compute Engine instance and install the Squid proxy server on this instance.

3. Configure your servers to use that instance as a proxy to access Cloud Storage.

D

1. Use nslookup to get the IP address for storage.googleapis.com.

2. Negotiate with the security team to be able to give a public IP address to the servers.

3. Only allow egress traffic from those servers to the IP addresses for storage.googleapis.com.

**Salah C MUNGKIN D**

Kategori : EN - Planning and configuring a cloud solution 2

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

A

Deploy the container on Google Kubernetes Engine.

B

Deploy the container on Cloud Run.

C

Deploy the container on App Engine Flexible.

D

Deploy the container on Google Kubernetes Engine with cluster autoscaling and horizontal pod autoscaling enabled.

**Benar B**

Kategori : EN - Planning and configuring a cloud solution 2

You have a SQL Server database running on a VM with n1-standard-4 machine type. For the last few days, you are noticing performance degradation because of more than 95% memory utilization. CPU metrics look absolutely fine and need no change. Your manager has asked you to increase a small amount of memory keeping the cost in mind. What is the most cost-effective approach?

A

Change machine type to n1-highmem-4.

B

Change machine type to n1-highcpu-10.

C

Change machine type to n1-standard-6.

D

Switch to custom machine type and increase memory size.

**Benar D**

Kategori : EN - Planning and configuring a cloud solution 2

You work for an e-commerce startup company as a System Administrator. Your main responsibility is to maintain the underlying infrastructure that runs the company's application. Your company's infrastructure is on-premises. After meeting with the management team, they want to migrate all the workloads to the Google Cloud Platform and leverage the Google Kubernetes Engine service.

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

A

Select Add GPUs. Add estimated cost for cluster management.

B

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

C

Fill in local SSD. Fill in persistent disk storage and snapshot storage.

D

Fill in local SSD. Add estimated cost for cluster management.

**Salah D MUNGKIN B**

Kategori : EN - Deploying and implementing a cloud solution 1

The engineering team is building an application that routes requests on the TCP layer. They need a load balancer with support for SSL termination on the load balancer. Which of the following is the best available option?

A

External HTTP(S) Load Balancing

B

External SSL Proxy Load Balancing

C

External TCP/UDP Network Load Balancing

D

Internal TCP Proxy Load Balancing

**Benar B**

Kategori : EN - Deploying and implementing a cloud solution 1

In your company, there are massive data services that are currently running Hadoop/Spark on-premises. The Cloud Architects start their work on a migration plan to Google Cloud. However, the big data team wants to use the existing workflows during the migration. The main focus is to continue working on their Hadoop cluster and Spark jobs with the scaling and data processing capacity of Google Cloud. Which tool would be the right option to choose?

A

Cloud Dataproc

B

Cloud Dataflow

C

Cloud Dataprep

D

Looker Studio

**Benar A**

Kategori : EN - Deploying and implementing a cloud solution 1

You have an application server running on Compute Engine in the europe-west1-d zone. You need to ensure high availability and replicate the server to the europe-west2-c zone using the fewest steps possible. What should you do?

A

Create a snapshot from the disk. Create a disk from the snapshot in the europe-west2-c zone. Create a new VM with that disk.

B

Create a snapshot from the disk. Create a disk from the snapshot in the europe-west1-d zone and then move the disk to europe-west2-c. Create a new VM with that disk.

C

Use “gcloud” to copy the disk to the europe-west2-c zone. Create a new VM with that disk.

D

Use “gcloud compute instances move” with the parameter “--destination-zone europe-west2-c” to move the instance to the new zone.

**Salah C D MUNGKIN A**

Kategori : EN - Deploying and implementing a cloud solution 1

Your client is planning to deploy an application on App Engine and has a requirement to store 1 TB of data in a schemaless, a strongly consistent, ACID-compliant database solution. Which of the following would you consider for this?

A

Cloud Datastore

B

Cloud SQL

C

Cloud Storage

D

Cloud Bigtable

**Salah D B Mungkin A**

Kategori : EN - Deploying and implementing a cloud solution 1

You have created a pre-populated PersistentVolume disk as ReadOnlyMany, when you try to mount the volume to a POD, you get failed to mount error. What could be the most likely reason for this failure?

A

You have not specified the correct mount point in your pod.yaml file.

B

You entered an incorrect PersistentVolume name in the pod.yaml file.

C

You created a PersistentVolume but did not create a PersistentVolumeClaim.

D

The pod.yaml file doesn't have permission to mount the volume as it is created with ReadOnlyMany access.

**Benar C**

Kategori : EN - Deploying and implementing a cloud solution 2

You have created a subnet named subnetace1 with 16.382 addresses using 192.168.0.0. Later you realize that you won’t require too many addresses, and so you want to reduce addresses to 254. Which of the following commands would you use?

A

gcloud compute networks subnets expand-ip-range subnetace1 --prefix-length=28

B

gcloud compute networks subnets expand-ip-range subnetace1 --size=248

C

gcloud compute networks subnets expand-ip-range subnetace1 --prefix-length=-12

D

There is no command in google cloud to reduce the number of available addresses in a subnet.

**Benar D**

Kategori : EN - Deploying and implementing a cloud solution 2

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?

A

Use the Deployment Manager Runtime Configurator to create a new Config resource that contains the DaemonSet definition.

B

With Deployment Manager, create a Compute Engine instance with a startup script that uses kubectl to create the DaemonSet.

C

In the cluster's definition in Deployment Manager, add a metadata that has kube-system as key and the DaemonSet manifest as value.

D

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

**Salah B MUNGKIN A**

Kategori : EN - Deploying and implementing a cloud solution 2

You need to allow traffic from specific virtual machines in ‘subnet-a’ network access to machines in ‘subnet-b’ without giving the entirety of subnet-a access. How can you accomplish this?

A

You can only grant firewall access to an entire subnet and not individual VM’s inside.

B

Relocate the subnet-a machines to a different subnet and give the new subnet the needed access.

C

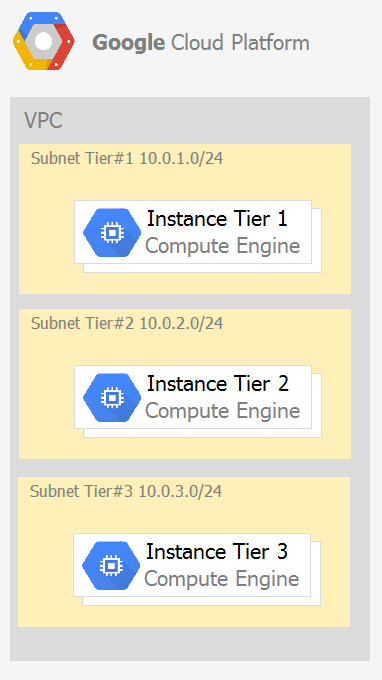
Create a rule to deny all traffic to the entire subnet, then create a second rule with higher priority giving access to tagged VM’s in subnet-a.

D

Create a firewall rule to allow traffic from resources with specific network tags, then assign the machines in subnet-a the same tags.

**Benar D**

Kategori : EN - Deploying and implementing a cloud solution 2

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:

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

What should you do?

A

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 all

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 all

B

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

C

1. Create an egress firewall rule with the following settings:

- Targets: all instances

- Source filter: IP ranges (with the range set to 10.0.2.0/24)

- Protocols: allow TCP: 8080

2. Create an egress firewall rule with the following settings:

- Targets: all instances

- Source filter: IP ranges (with the range set to 10.0.1.0/24)

- Protocols: allow TCP: 8080

D

1. Create an ingress firewall rule with the following settings:

- Targets: all instances

- Source filter: IP ranges (with the range set to 10.0.2.0/24)

- Protocols: allow all

2. Create an ingress firewall rule with the following settings:

- Targets: all instances

- Source filter: IP ranges (with the range set to 10.0.1.0/24)

- Protocols: allow all

**Benar B**

Kategori : EN - Deploying and implementing a cloud solution 2

Your client has a website that runs in Google Cloud using an App Engine standard environment. They are going to deploy their new version of the website. For testing purposes, they want only 1% of their users to see the new version. You want to minimize complexity. What should you do?

A

Create a new App Engine application in the same project. Deploy the new version in that application. Use the App Engine library to proxy 1% of the requests to the new version.

B

Deploy the new version in the same application and use the --migrate option.

C

Create a new App Engine application in the same project. Deploy the new version in that application. Configure your network load balancer to send 1% of the traffic to that new application.

D

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.

**Benar D**

Kategori : EN - Ensuring successful ops of a cloud solution 1

Your projects incurred more costs than you expected last month. Your research reveals that a development Google Kubernetes Engine 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?

A

1. Go to the Logs ingestion window in Stackdriver Logging.

2. Disable the log source for the Google Kubernetes Engine Cluster Operations resource.

B

1. Go to the Google Kubernetes Engine console and delete existing clusters.

2. Recreate a new cluster.

3. Clear the option to enable legacy Stackdriver Logging.

C

1. Go to the Logs ingestion window in Stackdriver Logging.

2. Disable the log source for the Google Kubernetes Engine container resource.

D

1. Go to the Google Kubernetes Engine console and delete existing clusters.

2. Recreate a new cluster.

3. Clear the option to enable legacy Stackdriver Monitoring.

**Benar C**

Kategori : EN - Ensuring successful ops of a cloud solution 1

Your client has an HTTPS web application that runs using an autoscaling Managed Instance Group. The requirement given by your client is that the unhealthy VMs are recreated as soon as possible to maintain the availability of the web application. What should you do?

A

Select Multi-Zone instead of Single-Zone when creating the Managed Instance Group.

B

In the Instance Template, add a startup script that sends a heartbeat to the metadata server.

C

In the Instance Template, add the label 'health-check'.

D

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

**Benar D**

Kategori : EN - Ensuring successful ops of a cloud solution 1

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?

A

Run gcloud iam roles describe roles/spanner.viewer - -project my-project. Add the users to a new group. Add the group to the role.

B

Run gcloud iam roles describe roles/spanner.viewer - -project my-project. Add the users to the role.

C

Run gcloud iam roles describe roles/spanner.databaseUser. Add the users to the role.

D

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

**Salah B C MUNGKIN A**

Kategori : EN - Ensuring successful ops of a cloud solution 1

You have had an application running on Compute Engine VM instance written in .NET for the last few weeks. Suddenly you experience elevated latency and poor performance among application endpoints. Which service can help you troubleshoot this issue?

A

Cloud Trace

B

Cloud Profiler

C

Activity Logs

D

Cloud Monitoring

**Salah D MUNGKIN A**

Kategori : EN - Ensuring successful ops of a cloud solution 1

You are developing Invoice Management software. It has a PDF generation service that is packaged into containers that consist of custom binaries and deployed onto the Cloud Run service. You want to make sure the service is available 24x7 even though the incoming requests are few after business hours. How do you ensure reduced latency for this service?

A

Set the scaling parameter for the maximum instances to more than 100.

B

Use the default parameter for the minimum number of instances.

C

Set the scaling parameter for the minimum instance to a value greater than 1.

D

Set the default parameter for the maximum number of instances.

**Benar C**

Kategori : EN - Ensuring successful ops of a cloud solution 2

A healthcare company that provides medical services to users wants to track their network forensics, real-time security analysis, and optimize the expense. The manager would like to track the network sent from and received by VM instances. What do you suggest they do?

A

Cloud Pub/Sub

B

VPC Flow Logs

C

Cloud Storage

D

VPC Monitoring

**Benar B**

Kategori : EN - Ensuring successful ops of a cloud solution 2

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?

A

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

B

Set autoscaling to Off, set the minimum number of instances to 1, and then set the maximum number of instances to 2.

C

Set autoscaling to On, set the minimum number of instances to 1, and then set the maximum number of instances to 2.

D

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

**Benar A**

Kategori : EN - Ensuring successful ops of a cloud solution 2

You are creating a Google Kubernetes Engine 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?

A

Deploy the monitoring pod in a DaemonSet object.

B

Deploy the monitoring pod in a StatefulSet object.

C

Reference the monitoring pod in a Deployment object.

D

Reference the monitoring pod in a cluster initializer at the GKE cluster creation time.

**Benar A**

Kategori : EN - Ensuring successful ops of a cloud solution 2

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?

A

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.

B

Arrange to switch to Flat-Rate pricing for this query, then move back to on-demand.

C

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

D

Run a select count (\*) to get an idea of how many records your query will look through. Then convert that number of rows to dollars using the Pricing Calculator.

**Benar A**

Kategori : EN - Ensuring successful ops of a cloud solution 2

You are about to start working on a microservice deployment project using Google Kubernetes Engine service. The client needs everything on Google and wants you to maintain both frontend and backend code on Google Cloud as well. Which service best suits this case?

A

Cloud Storage

B

Cloud Source Repositories

C

Container Registry

D

GitHub

**Benar B**

Kategori : EN - Configuring access and security 1

Someone from a different team has approached you that he is working on a web application hosted on Compute Engine VM instance which needs to view access to Cloud Storage service. Which of the following is the best approach using the fewest possible steps?

A

Create a custom service account with the Cloud Storage Viewer role, and attach it to the VM instance.

B

Create a custom service account with Cloud Storage Viewer role, create a JSON key pair, and provide it to him.

C

VM Instances by default have read access to Cloud Storage service, so nothing needs to be done.

D

Create an IAM user for him with Cloud Storage, create a JSON key pair, and provide it to him.

**Benar C**

Kategori : EN - Configuring access and security 1

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?

A

1. Create a dedicated Google group in Cloud Identity.

2. Add each data scientist's user account to the group.

3. Assign the BigQuery dataViewer user role to the group.

B

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.

C

1. Create an IAM entry for each data scientist's user account.

2. Assign the BigQuery dataViewer user role to the group.

D

1. Create an IAM entry for each data scientist's user account.

2. Assign the BigQuery jobUser role to the group.

**Salah A MUNGKIN C**

Kategori : EN - Configuring access and security 1

Your company has deployed an application using an App Engine standard environment. You have been asked to update the cron schedules and default cookie expiration time. Which of the following predefined roles has access to update default cookie expiration but no access to update cron schedules?

A

App Engine Service Admin

B

App Engine Admin

C

App Engine Deployer

D

App Engine Code Viewer

**Benar B**

Kategori : EN - Configuring access and security 1

The development team wants to deploy an application on Cloud Run that processes messages from a Cloud Pub/Sub topic. You've been designated to give them a solution for the possible steps. They want to follow Google-recommended practices. What solution you will provide to them?

A

1. Create a Cloud Functions that use a Cloud Pub/Sub trigger on that topic.

2. Call your application on Cloud Run from the Cloud Functions for every message.

B

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.

C

1. Grant the Pub/Sub Subscriber role to the service account used by Cloud Run.

2. Create a Cloud Pub/Sub subscription for that topic.

3. Make your application pull messages from that subscription.

D

1. Deploy your application on Cloud Run on GKE with the connectivity set to Internal.

2. Create a Cloud Pub/Sub subscription for that topic.

3. In the same Google Kubernetes Engine cluster as your application, deploy a container that takes the messages and sends them to your application.

**Benar B**

Kategori : EN - Configuring access and security 1

You are appointed as a head of infrastructure security and the first thing you are asked is to create a few IAM users following best security practices. How would you ensure that these users are only able to launch a new instance and list them?

A

Create Compute Editor role and attach it to the users.

B

Attach Project Editor role to users.

C

Create a custom role with specific permissions and attach it to users.

D

Create a service account with the required permissions and attach it to users.

**Benar C**

Kategori : EN - Configuring access and security 2

You are trying to fetch metadata of a VM using the “curl metadata.google.internal/computeMetadata/v1/” command, but are constantly receiving 403 Forbidden. What could be the possible reason?

A

Service account is missing.

B

Metadata-Flavor: Google header is missing.

C

Metadata-Access: Google header is missing.

D

Firewall rule attached to the VM is blocking the request.

**Benar B**

Kategori : EN - Configuring access and security 2

An auditor needs to review audit logs. You assign read-only permission to a custom role you create for auditors. What security best practices are you following?

A

Separation of duties

B

Defense in depth

C

Vulnerability scanning

D

Least privilege

**Benar D**

Kategori : EN - Configuring access and security 2

You want to list roles assigned to users in a project called ace-exam-project. What gcloud CLI command would you use?

A

gcloud iam get-iam-policy ace-exam-project

B

gcloud iam list ace-exam-project

C

gcloud projects list ace-exam-project

D

gcloud projects get-iam-policy ace-exam-project

**Benar D**

Kategori : EN - Configuring access and security 2

Your company has deployed an application using the App Engine flexible environment and you have been asked to SSH to the VM instance, update the app configuration and if required, enable and disable the App Engine application. Which of the following predefined roles has access to perform these tasks?

A

App Engine Admin

B

App Engine Service Admin

C

App Engine Deployer

D

App Engine Code Viewer

**Benar A**

Kategori : EN - Configuring access and security 2

Your colleague has asked for help in creating an IAM role using gcloud CLI. Which of the following is the correct command to create an IAM role?

A

gcloud iam create role viewer-role --project academy --permissions “roles/viewer”

B

gcloud iam roles create viewer-role --project academy --permissions “roles/viewer”

C

gcloud project roles create --type iam viewer-role --project academy --file role-definition.yaml

D

gcloud iam roles create viewer-role --project academy --file=role-definition.yaml

**Benar D**