

Google Cloud Digital Leader Exam

Blank Exam

Google Certified Associate Cloud Engineer Exam

The Google Cloud Certified Cloud Digital Leader examination is intended for individuals who wish to demonstrate their knowledge of cloud computing basics and how Google Cloud products and services can be used to achieve an organization's goals.

In this practice exam, you will be presented with 50 multiple-choice questions, some requiring one answer and others requiring multiple answers.

DOMAIN BREAKDOWN

- Digital Transformation with Google Cloud 10%
- Innovating with Data and Google Cloud 30%
- Infrastructure and Application Modernization 30%
- Google Cloud Security and Operations 30%

Question 1

Cam is responsible for migrating the company's Microsoft Azure VM workloads to Google Cloud. He's been cautioned to ensure that everything works before completing the migration process. Which GCP service can help Cam achieve his goals?

Migrate for Azure

VMware Engine

Migrate for Compute Engine

Migrate for Anthos and GKE

Question 2

Stefani is developing an application that needs to access a customer database. She needs to securely store the database credentials and then incorporate them when the app is running. Moreover, she has been mandated to change the credentials on a monthly basis. How should Stefani accomplish this?

- Use Secret Manager to store the database credentials in encrypted text format and then pass the decrypted value using an API call. Rotate the keys in Secret Manager as needed.
- Store the credentials in a database field and retrieve it dynamically as needed.
- Use the Cloud Key Management service to store the database credentials as an encrypted string and then pass the decrypted values when the API is called. Rotate the keys manually.
- Use the Cloud Hardware Security Module to secure the database credentials and then pass it along when required. Rotate the keys manually.

Question 3

Zuri is looking to deploy her new app, which she developed locally using Docker, a container development system. Which of the following compute options should Zuri NOT consider?

(Choose 2)

Serverless

Containers

Microservices

VMs

Question 4

Tamara just ran her first predictions based on a machine learning model she trained using Vertex AI. Unfortunately, she appears to be getting a great number of false positives. Which of the following could be the problem?

(Choose 2)

- Feature values were mislabeled.
- The training model was not run for long enough.
- Anomalies in her data were not removed.
- Vertex AI is the wrong service to use for training ML models.

Question 5

Deva is the heir apparent for her parent's business and she's afraid that, by the time she takes control, the company's competitors will have overwhelmed them. Deva thinks their future lies in moving their business to the cloud. What arguments should she use with her parents to get them to move to the cloud sooner rather than later?

(Choose 3)

- The cloud allows the company to expand on a pay-as-you-go basis.
- Customer's expectations for reliability and innovation have increased.
- The cloud is virtually available at no cost.
- Cloud computing allows businesses to compete globally.

Question 6

Ajay wants to host his new website on Google Cloud, but he is afraid he doesn't have the technical savvy needed to configure the computing services. He also doesn't have a lot of money, so he doesn't want to pay for use of the service when there is no traffic. Which of the following Google Cloud services should Ajay avoid?

(Choose 3)

Cloud Run

App Engine

Compute Engine

Kubernetes Engine

Question 7

Winnie is considering migrating her on-premises databases to Cloud SQL. Which of the following databases are NOT supported by Cloud SQL?

(Choose 2)

MySQL

Oracle

MongoDB

SQL Server

Question 8

Sly has been asked to develop a system that can analyze demand based on historical sales data over a 30-day period in near real-time. Which one of the following Google Cloud services would be best for Sly to use?

- Cloud Bigtable
- Cloud Pub/Sub
- Cloud SQL
- Cloud Spanner

Question 9

Liyana is looking to set availability standards that follow SRE principles for the company's primary application. Which of the following should Liyana consider?

(Choose 3)

- Available 95% of the time
- Available 99.999% of the time
- Available 98% of the time
- Available 100% of the time

Question 10

Dell Ann's organization is recovering from an association with a colocation vendor who went bankrupt and caused numerous service disruptions; her solution is to move the company totally to the cloud. She knows leadership is not particularly cost-sensitive now, but also wants to ensure the organization's data is secure and as inaccessible to others as possible. Which cloud configuration should Dell Ann recommend the organization pursue?

Public cloud

Private cloud

Hybrid cloud

Multicloud

Question 11

Xavier is an entrepreneur looking to expand his family's hardware business across multiple states. Although he has some seed money to start, he really has a vision for quickly growing the business and leveraging the data his family has collected over the years. What computing models should Xavier avoid?

(Choose 3)

Public cloud

Private cloud

Colocation

On-premises

Question 12

Rylee has been put in charge of managing the customer's annual signed digital agreements. While the customer only needs access to the current agreement, auditors need immediate access to the current year. Because these documents are legally binding, each agreement must be kept for a period of 10 years and then destroyed. Which of the following options should Rylee NOT implement?

(Choose 3)

- Store the current agreements in Standard class storage. Use object lifecycle rules to move them to Archive class storage after 36 months. Then, delete them after 120 months.
- Store the current agreements in Nearline class storage, and use object lifecycle rules to move them to Archive class storage after 36 months. Then, delete them after 120 months.
- Store the current agreements in Standard class storage, and use object lifecycle rules to move them to the Coldline class after 36 months. Then, delete them after 120 months.
- Scan the documents into Firestore and execute a query that notes them as inactive after 36 months and deletes the records after 120 months.

Question 13

Christof wants to mine sales data across his organization so he can generate actionable, visualized insights. Which of the following GCP services should Christof consider?

(Choose 2)

Data Studio

BigLake

BigQuery BI Engine

Looker

Question 14

Obediah's team is architecting a new application that relies on streaming data from a series of IoT devices. Obediah knows the app will have to respond very quickly to be effective. Which of the following is the optimum Google Cloud service for Obediah's needs?

- Cloud Firestore
- BigQuery
- Cloud Spanner
- Bigtable

Question 15

Bella works with a mobile games studio. Her players generate a great deal of data, and Bella wants to gather the key performance indicators (KPI), which she can then analyze and visualize with a business intelligence tool. Which of the following configurations would be best for Bella?

- Store the data in BigQuery, which could also be used for analysis and visualization.
- Store the data in Cloud Storage and then use Looker to analyze and visualize.
- Store the data in BigQuery and then use Looker to analyze and visualize.
- Store, analyze, and visualize the data in Cloud BI.

Question 16

Ashanti has been tasked with modernizing her team's applications for the upcoming migration to Google Cloud. The apps are currently running on a VMware virtual machine server in the downtown office. What's the best way for Ashanti to make sure the applications can be modernized?

- Use Migrate for Anthos and GKE's fit assessment tool prior to conversion
- Use Migrate for Compute Engine's fit assessment tool prior to conversion
- Use VMware Engine
- Convert the applications herself

Question 17

Zeke just got a much-deserved promotion, and he's now in charge of ensuring that his team's app meets the privacy standards as set by the National Institute of Standards and Technology. Which Google Cloud service can help Zeke in his new role?

- Cloud Armor
- Cloud Data Loss Prevention
- Cloud Security Command Center
- Event Threat Detection

Question 18

Yui has noticed a disturbing trend from his customers. Over the last six months, the number of complaints regarding private data becoming public has steadily risen. Yui suspects someone is mining data he is responsible for. What is the next step Yui should take?

- Enable Data Access logs and review for unauthorized reads.
- Review the Data Access logs for unauthorized reads.
- Review the Admin Activity logs for unauthorized reads.
- Enable Admin Activity logs and review for unauthorized reads.

Question 19

Santiago's company just got a new government contract from Freedonia to build a new web app for its citizens. Initially, all is going smoothly, but then Santiago starts to get latency complaints and finds that a great deal of traffic is coming from IPs outside the country overwhelming the application. What can Santiago do to address this problem?

- Use Web Security Scanner to prevent the DDoS attack.
- Establish firewall rules to deny all IP addresses from outside Freedonia.
- Establish firewall rules to only allow IP addresses from within Freedonia.
- Use Cloud Armor to filter out those IPs originating outside of Freedonia.

Question 20

Hudson has just been made manager of a new division in his company. As such, one of his top priorities is ensuring each member of his new team has the proper permissions to accomplish their jobs within his project. What's the best way for Hudson to grant these permissions, from the options listed below?

- Assign the proper primitive role to each team member.
- Assign only the needed permissions directly to each team member.
- Assign the proper pre-defined or custom role to each team member.
- Assign an IAM policy to each team member.

Question 21

Laila is starting a new cloud-based business for her cosplay costumes. She has an application ready to go, but her team is NOT familiar with managing the necessary infrastructure and networks. Which computing model should Laila adopt?

IaaS

PaaS

SaaS

FaaS

Question 22

Catrin's team is building an app that will accept audio recordings from users and then, after review and approval, make them available to the public for listening. How should Catrin structure this process?

- Create two buckets in Cloud Storage: one with staff-only viewing permissions and the other with public permissions. Upload the audio files into the staff-only bucket and then, after approval, move them to the public bucket.
- Create two buckets in Cloud Storage, one with staff-only viewing permissions and the other with public permissions. Upload the recordings into the public bucket first and automatically move them to the staff-only bucket. After approval, move them back to the public bucket.
- Store the images in a Cloud SQL database initially, with a "public" field set to "False". After review, switch the field to "True".
- Store the recordings in a Cloud Firestore database initially, with a "public" field set to "False". After review, switch the field to "True".

Question 23

Raelyn is setting up the parameters to recommend acceptable response time values for the company's SLA. The team's current SLO for response time when their API is accessed is 400 milliseconds. According to SRE principles, which of the following values would be the best choice for Raelyn to recommend for the new SLA?

- 300 milliseconds
- 400 milliseconds
- 500 milliseconds
- 410 milliseconds

Question 24

After a recent promotion, Gurjas was given the responsibility of developing the CI/CD pipeline for his company's newest serverless application. Which service should Gurjas NOT incorporate into the pipeline?

(Choose 3)

Compute Engine

Cloud Functions

Cloud Run

Kubernetes Engine

Question 25

Bibi has what he thinks is a really great idea for his company. He wants to gather all the data on their customer's buying habits and correlate it with weather service reports from around the world, so he can advertise products from the company's catalog to fit the customer's weather-driven needs. Bibi's manager feels the company's in-house server can handle the data all by itself, and there is no need for cloud computing or external connections. Which of the following are NOT reasons Bibi is right and his manager is wrong?

(Choose 2)

- Bibi's idea requires the use of an API.
- This idea would require coordination with local regulatory agencies.
- Bibi's idea requires advanced AI processing.
- Bibi's idea does not require global connectivity.

Question 26

Haruto works in the comptroller's office for a company that is migrating to Google Cloud. Which of the following techniques and tools should Haruto recommend implementing to keep costs under control?

(Choose 2)

- Apply security marks to resources to identify them for proper team billing
- Restrict resource use to free tier limits
- Determine costs for projects before they are underway with the online Pricing Calculator
- Establish billing alerts to notify proper individuals when costs exceed designated amounts

Question 27

In looking over the specs for her team's new app, Aisha sees that they are moving to a cloud-native containerized format. She notes that, because of the initial launch phase, the company is anticipating periods of inactivity as well as spikes of high traffic. Which GCP compute service listed below would NOT be a good fit for Aisha's new application?

(Choose 3)

Cloud Run

App Engine flexible environment

Compute Engine

Kubernetes Engine

Question 28

Zuri is looking to deploy her new app, but she's concerned about availability. She's heard that although the system is set to scale automatically, it can sometimes take minutes for new instances to be ready. Which of the following Google Cloud compute options should Zuri rule out?

(Choose 2)

Local server

Google Kubernetes Engine

Cloud Run

Compute Engine

Question 29

Anastasia's company migrated to GCP a little over a year ago, and now that the dust has settled somewhat, she has been asked to review their operation for any cost-saving measures. Anastasia has noted that the company relies on certain VMs to perform the same task daily, and the forecast is that this will continue for the foreseeable future. Other computing tasks are more sporadic; they are essential but not time sensitive. Finally, she noted that the business is growing rapidly and expects to open a new branch in Eastern Europe within the year. Which of the following are the best options for Anastasia to recommend that would lower company expenses?

(Choose 2)

- A persistent disk for the VMs performing the sporadic tasks.
- A three-year sustained use discount for the servers performing the same task daily.
- A preemptible disk for the VMs performing the sporadic tasks.
- A one-year sustained use discount for the servers performing the same task daily.

Question 30

Greg's team is building out a product catalog for the internal sales team that features real-time collaborative listings. Sales people will be encouraged, but not required, to add new entries to each product's record. Which of the following Google Cloud services should Greg NOT use to house the database?

(Choose 3)

Cloud Bigtable

Cloud SQL

Cloud Firestore

Cloud Spanner

Question 31

Gunner is looking for a solution to his data problem. His company has data stored in regional data centers around the world that he needs to access, but local regulations mandate that the data is stored in those locations. Which of the solutions below would NOT allow Gunner to efficiently access the data?

(Choose 2)

Cloud Spanner

Cloud SQL

Cloud Firestore

Apigee

Question 32

Amir has written a microservice to add more functionality to the company's main application. He projects that it will be widely used, with frequent spikes of usage, although he knows that there will be times when it will not be used at all. Which of the following Google Cloud services is Amir's best option for a computing model?

- CI/CD
- Cloud Run
- Google Kubernetes Engine
- Compute Engine

Question 33

Lynn is coordinating with a teammate who is in charge of their on-premises Azure Active Directory server to allow the access to one of Lynn's cloud services. How should Lynn proceed?

- Create a service account for the Azure Active Directory service and grant it full access to the app's resources.
- Use Cloud IAM's workload identity federation option to grant access.
- No action is required. As an on-premises Active Directory server, they would already have any necessary access to cloud services.
- Grant the teammate the Owner role for the project and allow them to set up the necessary access for the Azure Active Directory service.

Question 34

After migrating to the web, Mateo's company is trying to monetize their customer base by making their legacy data available to visitors who opt for the "Premium" service. What should Mateo do to make this possible?

- Migrate the legacy data to the cloud database service, and set up a web portal that allows authorized users to access it.
- Develop an API that can request specific data from the legacy servers and return it to any requesting user.
- Provide "Premium" customers with direct access to the legacy data.
- Develop an API that can request specific data from the legacy servers and return it to authorized users.

Question 35

Apollonia has been alerted by her manager that their app's memory usage is hitting the resource limit. How should Apollonia tackle this problem?

- Use Cloud Profiler to identify memory spikes and then work with the team to reduce usage.
- Use Cloud Profiler to isolate CPU spikes and then work with the team to reduce usage.
- Use Cloud Trace to isolate memory spikes and then work with the team to reduce usage.
- Use Cloud Debugger to identify the memory spikes and then work with the team to reduce usage.

Question 36

Jags was riding the elevator to his new job when the company's CEO stepped in. After shaking his hand and welcoming Jags to the company, the CEO leaned in and whispered, "To be honest, I really don't understand this cloud thing. Can you tell me what it is, briefly?"

Which of the following descriptions should Jags NOT use as a brief explanation to the CEO?

(Choose 3)

- The cloud is a network located around the world that is accessed through the internet and is designed to convey your information wherever you need it.
- The cloud is a network of data centers located around the world that is accessed through the internet and is designed to store and process information.
- The cloud is a network of computers located around the world that is accessed through the internet, and it just stores your data until you need it.
- The cloud is a network of servers located around the world that is accessed through the internet and is designed to store and process information.

Question 37

Joshua is setting up the security policy for his company's newly migrated cloud operation. Which of the following areas should Joshua NOT be concerned with?

(Choose 2)

Connectivity

Internal security threats, such as phishing and social engineering.

Scaling

Privacy

Question 38

Frankie's new app is a global smash and getting a lot of feedback from users all over the world, in a wide range of languages. Her manager asked Frankie to figure out a way to store and sort the emails as complaints, suggestions, or praise while storing metadata and unique details for analysis. Which of the following combinations of GCP services would be best for Frankie to use?

- Cloud Firestore, Media Translation API, and Natural Language API
- Cloud Firestore, Translation API, and Natural Language API
- Cloud Storage, Translation API, and Natural Language API
- Cloud Spanner, Translation API, and Natural Language API

Question 39

Quentin is designing an application that relays simple name-value pair information from a large array of smart refrigerators around the world. Which database service should Quentin NOT incorporate in his design?

(Choose 3)

Cloud Bigtable

BigQuery

Cloud Spanner

Cloud SQL

Question 40

Laila is starting a new cloud-based business for her cosplay costumes. She has an application ready to go, and she was informed that her team is fully capable of managing the necessary infrastructure or networks. Which computing model should Laila adopt?

PaaS

SaaS

FaaS

IaaS

Question 41

Christian inherited his uncle's software company, along with its traditional methods of application development, and he would like to modernize the process. What options should Christian NOT consider?

(Choose 2)

- Keep the development and operations teams independent of each other.
- Develop and maintain software using a CI/CD pipeline.
- Avoid SRE strategies when creating and maintaining applications.
- Structure the teams responsible for creating the software to follow a DevOps pattern.

Question 42

Jacqui is researching which Google Cloud database service to use for a new small business client who needs a familiar, structured system for their local application. What should Jacqui's top choice be?

- Cloud Spanner
- Cloud Bigtable
- BigQuery
- Cloud SQL

Question 43

Hari is running an animation festival and is accepting entries from all over the world. His sponsor is keen to make sure entries containing explicit content are isolated and viewed under restrictive conditions. What's Hari's most efficient approach to this problem?

- Require all entrants to note if their animations contain explicit content.
- Review all entries manually, and store animations with explicit content in a separate Cloud Storage bucket.
- Run all entries through the Video Intelligence API to detect any explicit content, and store those animations in a separate Cloud Storage bucket.
- Run all entries through the Vision API to detect any explicit content, and store those animations in a separate Cloud Storage bucket.

Question 44

Deva is the heir apparent for her parent's business and she's afraid that, by the time she takes control, the company's competitors will have overwhelmed them. Deva thinks their future lies in moving their business to the cloud. What arguments should she use with her parents to get them to move to the cloud sooner rather than later?

(Choose 2)

- Without cloud computing, accessing markets around the world is technically highly difficult.
- Customer's expectations for reliability and innovation have increased.
- The cloud allows the company to pay for all of their services upfront.
- The cloud is virtually available at no cost.

Question 45

Casey is preparing a presentation for the board comparing the costs of their current on-premises infrastructure with a cloud infrastructure. Which of the following statements are false and should be excluded from Casey's presentation?

(Choose 2)

It's easier to balance capacity against demand with an on-premises infrastructure.

Costs must be monitored and budgets adjusted more frequently with cloud infrastructure.

CapEx is lower with cloud infrastructure.

OpEx is higher with an on-premises infrastructure.

Question 46

Jena is exploring Google Cloud's AutoML services. Which of the following data types is NOT supported by one or more of the services?

Text

PDFs

Videos

Images

Question 47

Harper has noticed some of the unusual behavior from the VMs being used by her project. How can she rule out external forces by verifying that all of her VMs have the latest updates?

- Use the Cloud Security Command Center to identify virtual machines running vulnerable disk images.
- Assign each of the project VMs a security mark and then assess those resources through the Cloud Security Command Center.
- Use the Cloud Security Command Center to identify virtual machines started within the last quarter.
- Use the Compliance reports manager to download a Vendor Risk Assessment for Google Cloud.

Question 48

Salome's team just received the specs on their new app. They plan to use Compute Engine VMs as their computing core. The specs call for monitoring the VMs at a more granular level than normal. How should Salome's team proceed?

- Install a monitoring agent in each of the VMs to enhance their monitoring capabilities in combination with a third-party monitoring service.
- Switch to Google Kubernetes Engine with advanced monitoring capabilities.
- Install a monitoring agent in each of the VMs to enhance their monitoring capabilities in combination with Google Cloud operations.
- Use the Google Cloud operations suite with the built-in monitoring capabilities.

Question 49

Horatio is leading the team responsible for migrating his company's virtual machine workloads to GCP, and ensuring that his current workloads are viable in the cloud is a top priority. Select the best service to use and the corresponding functionality that Horatio can rely on to avoid any downtime.

(Choose 2)

The service provides pre-migration validation with test clone capability.

The service replicates instance data in the background.

Migrate for Anthos and GKE

Migrate for Compute Engine

Question 50

Elise, as head of the new operations for her company, has been getting reports of erratic slow downs in response time for a new app. What's the best way for Elise to initially respond?

- Use Web Security Scanner to ensure that the delay is not being caused by security issues.
- Use Cloud Profiler to track the latency during runtime and identify the bottleneck.
- Use Cloud Trace to send an alert whenever there is a notable shift in normal response time.
- Set up a Cloud Monitoring SLO alerting policy targeting latency.

Answers

Answer 1

Cam is responsible for migrating the company's Microsoft Azure VM workloads to Google Cloud. He's been cautioned to ensure that everything works before completing the migration process. Which GCP service can help Cam achieve his goals?

- Migrate for Azure
- VMware Engine
- Migrate for Compute EngineSelected
 - Migrate for Compute Engine supports Microsoft Azure VM as a source workload and also incorporates test clone capabilities to make sure everything is functional prior to the migration.
- Migrate for Anthos and GKE

Answer 2

Stefani is developing an application that needs to access a customer database. She needs to securely store the database credentials and then incorporate them when the app is running. Moreover, she has been mandated to change the credentials on a monthly basis. How should Stefani accomplish this?

- Use Secret Manager to store the database credentials in encrypted text format and then pass the decrypted value using an API call. Rotate the keys in Secret Manager as needed.

Secret Manager is a fully managed service for storing, managing, and accessing secrets as binary blobs or text strings. Secret Manager will handle the new credentials without having to recompile and redistribute the app.

- Store the credentials in a database field and retrieve it dynamically as needed.
- Use the Cloud Key Management service to store the database credentials as an encrypted string and then pass the decrypted values when the API is called. Rotate the keys manually.
- Use the Cloud Hardware Security Module to secure the database credentials and then pass it along when required. Rotate the keys manually.

Selected

The Cloud Hardware Security Module hosts encryption keys and performs cryptographic actions in clusters of certified devices, but it does not handle secrets as needed.

Answer 3

Zuri is looking to deploy her new app, which she developed locally using Docker, a container development system. Which of the following compute options should Zuri NOT consider?

Serverless

Selected

Not all but some serverless systems — like Cloud Run — are capable of running containers.

Containers

Microservices

Selected

You can run microservices on containers, but you can't run containers on microservices.

VMs

Although VMs are great for full applications with specific OS requirements, they do not run containers.

Answer 4

Tamara just ran her first predictions based on a machine learning model she trained using Vertex AI. Unfortunately, she appears to be getting a great number of false positives. Which of the following could be the problem?

- Feature values were mislabeled.

Mislabeled feature values can likely lead to false positives in machine learning.

- The training model was not run for long enough.

Selected

The training model would not be available until it has completed running.

- Anomalies in her data were not removed.

Selected

Anomalies, which refer to data that cannot be explained, should be cleaned from the data.

- Vertex AI is the wrong service to use for training ML models.

Answer 5

Deva is the heir apparent for her parent's business and she's afraid that, by the time she takes control, the company's competitors will have overwhelmed them. Deva thinks their future lies in moving their business to the cloud. What arguments should she use with her parents to get them to move to the cloud sooner rather than later?

- The cloud allows the company to expand on a pay-as-you-go basis. Selected

Public cloud providers offer pay-as-you-go pricing for most, if not all, services.

- Customer's expectations for reliability and innovation have increased. Selected

As more businesses move to the cloud, customers have come to rely on — and expect — services that are always available and constantly evolving.

- The cloud is virtually available at no cost.

- Cloud computing allows businesses to compete globally. Selected

The cloud's global connectivity gives businesses the power to reach customers around the world.

Answer 6

Ajay wants to host his new website on Google Cloud, but he is afraid he doesn't have the technical savvy needed to configure the computing services. He also doesn't have a lot of money, so he doesn't want to pay for use of the service when there is no traffic. Which of the following Google Cloud services should Ajay avoid?

- Cloud Run

Unless Ajay's application is containerized, Cloud Run is not a possible option.

- App Engine

Selected

App Engine is a fully managed serverless application platform that is capable of scaling down to zero.

- Compute Engine

Selected

Compute Engine requires the highest degree of technical expertise for configuration and cannot be scaled down to zero, even if there is no traffic.

- Kubernetes Engine

Selected

Kubernetes Engine must keep one or more clusters running at all times, even if there is no traffic.

Answer 7

Winnie is considering migrating her on-premises databases to Cloud SQL. Which of the following databases are NOT supported by Cloud SQL?

- MySQL Selected
 - MySQL is one of the databases supported by Cloud SQL.
- Oracle
 - Although Oracle runs SQL queries, it is not currently supported by Cloud SQL.
- MongoDB Selected
 - MongoDB is a NoSQL database and is not supported by Cloud SQL.
- SQL Server

Answer 8

Sly has been asked to develop a system that can analyze demand based on historical sales data over a 30-day period in near real-time. Which one of the following Google Cloud services would be best for Sly to use?

- Cloud Bigtable

| Cloud Bigtable works well when analyzing time series data, such as this.

- Cloud Pub/Sub

- Cloud SQL

Selected

| Cloud SQL is not the best choice for analyzing time series data.

- Cloud Spanner

Answer 9

Liyana is looking to set availability standards that follow SRE principles for the company's primary application. Which of the following should Liyana consider?

- Available 95% of the time

Selected

Although it's not optimal, there are situations where 95% availability is the best that can be achieved and should be an option.

- Available 99.999% of the time

Selected

Five nine's of availability is an extremely high degree and, if possible, a desirable target.

- Available 98% of the time

Selected

In many circumstances, 98% availability is perfectly acceptable.

- Available 100% of the time

Answer 10

Dell Ann's organization is recovering from an association with a colocation vendor who went bankrupt and caused numerous service disruptions; her solution is to move the company totally to the cloud. She knows leadership is not particularly cost-sensitive now, but also wants to ensure the organization's data is secure and as inaccessible to others as possible. Which cloud configuration should Dell Ann recommend the organization pursue?

Public cloud

Private cloud

Private cloud is likely to be the most secure of all the cloud configurations and would be the best choice given their considerations.

Hybrid cloud

Multicloud

Selected

Multicloud avoids vendor lock-in and offers lower costs for specific services, but it is not the most private of the options available.

Answer 11

Xavier is an entrepreneur looking to expand his family's hardware business across multiple states. Although he has some seed money to start, he really has a vision for quickly growing the business and leveraging the data his family has collected over the years. What computing models should Xavier avoid?

Public cloud

Selected

The public cloud model would allow Xavier to make the most of his seed money, achieve the scalability he desires, and still incorporate the legacy data available.

Private cloud

Although the private cloud option is a possibility, it is more expensive than other options and likely unnecessary for the stated business.

Colocation

Selected

Colocation would lower Xavier's capital expenditures but not as much as another option.

On-premises

Selected

Xavier's seed money would quickly be used if he has to spend all of it on capital expenditures in an on-premises facility.

Answer 12

Rylee has been put in charge of managing the customer's annual signed digital agreements. While the customer only needs access to the current agreement, auditors need immediate access to the current year. Because these documents are legally binding, each agreement must be kept for a period of 10 years and then destroyed. Which of the following options should Rylee NOT implement?

- Store the current agreements in Standard class storage. Use object lifecycle rules to move them to Archive class storage after 36 months. Then, delete them after 120 months. Selected

Keeping the agreements in Standard class storage makes them immediately available, while moving them to Archive and later deleting them are cost-effective steps.

- Store the current agreements in Nearline class storage, and use object lifecycle rules to move them to Archive class storage after 36 months. Then, delete them after 120 months.

Documents that need to be immediately accessible should not be stored in Nearline class storage.

- Store the current agreements in Standard class storage, and use object lifecycle rules to move them to the Coldline class after 36 months. Then, delete them after 120 months. Selected

The Coldline class is not the least expensive option for documents that do not need to be retrieved quarterly.

- Scan the documents into Firestore and execute a query that notes them as inactive after 36 months and deletes the records after 120 months. Selected

Working with PDF documents is best handled through Cloud Storage.

Answer 13

Christof wants to mine sales data across his organization so he can generate actionable, visualized insights. Which of the following GCP services should Christof consider?

- Data Studio

Data Studio allows users to connect to a wide range of data sources and create sharable interactive dashboards as well as engaging reports.

- BigLake

- BigQuery BI Engine

Selected

BigQuery BI Engine is a fast, in-memory analysis service that does not handle visualizations.

- Looker

Selected

Looker is an enterprise platform for business intelligence, data applications, and embedded analytics.

Answer 14

Obediah's team is architecting a new application that relies on streaming data from a series of IoT devices. Obediah knows the app will have to respond very quickly to be effective. Which of the following is the optimum Google Cloud service for Obediah's needs?

Cloud Firestore

BigQuery

Cloud Spanner

Selected

Cloud Spanner is a SQL-structured database and not the best choice for this project.

Bigtable

Bigtable is a NoSQL key-value data store with extremely low latency and fast read/write operations that works well with IoT devices.

Answer 15

Bella works with a mobile games studio. Her players generate a great deal of data, and Bella wants to gather the key performance indicators (KPI), which she can then analyze and visualize with a business intelligence tool. Which of the following configurations would be best for Bella?

- Store the data in BigQuery, which could also be used for analysis and visualization.
- Store the data in Cloud Storage and then use Looker to analyze and visualize. Selected

Cloud Storage is intended for unstructured data rather than structured data, such as KPIs.
- Store the data in BigQuery and then use Looker to analyze and visualize.

BigQuery could handle storing the great amount of player data, and Looker, as Google Cloud's business intelligence tool, would be a good fit for analyzing and visualizing company-generated data.
- Store, analyze, and visualize the data in Cloud BI.

Answer 16

Ashanti has been tasked with modernizing her team's applications for the upcoming migration to Google Cloud. The apps are currently running on a VMware virtual machine server in the downtown office. What's the best way for Ashanti to make sure the applications can be modernized?

- Use Migrate for Anthos and GKE's fit assessment tool prior to conversion
 - Migrate for Anthos and GKE's fit assessment tool evaluates desired workloads for container compatibility and supports VMware VMs.
- Use Migrate for Compute Engine's fit assessment tool prior to conversion
- Use VMware Engine
 - Although VMware Engine can migrate workloads to the cloud, it is not capable of modernizing applications.
- Convert the applications herself

Selected

Answer 17

Zeke just got a much-deserved promotion, and he's now in charge of ensuring that his team's app meets the privacy standards as set by the National Institute of Standards and Technology. Which Google Cloud service can help Zeke in his new role?

Cloud Armor

Cloud Data Loss Prevention

Cloud Security Command Center

Cloud SCC identifies security compliance violations in the National Institute of Standards and Technology, among others.

Event Threat Detection

Selected

Event Threat Detection identifies threats in near-real time by monitoring and analyzing Cloud Logging.

Answer 18

Yui has noticed a disturbing trend from his customers. Over the last six months, the number of complaints regarding private data becoming public has steadily risen. Yui suspects someone is mining data he is responsible for. What is the next step Yui should take?

- Enable Data Access logs and review for unauthorized reads.

Data Access audit logs contain API calls that read the configuration or metadata of resources, as well as user-driven API calls that create, modify, or read user-provided resource data. However, they are not enabled by default.

- Review the Data Access logs for unauthorized reads.

- Review the Admin Activity logs for unauthorized reads.

Selected

Although Admin Activity logs do not need to be enabled, they are not the appropriate log type for this scenario.

- Enable Admin Activity logs and review for unauthorized reads.

Answer 19

Santiago's company just got a new government contract from Freedonia to build a new web app for its citizens. Initially, all is going smoothly, but then Santiago starts to get latency complaints and finds that a great deal of traffic is coming from IPs outside the country overwhelming the application. What can Santiago do to address this problem?

- Use Web Security Scanner to prevent the DDoS attack.
- Establish firewall rules to deny all IP addresses from outside Freedonia. Selected
 - Firewall rules are not adequate for a DDoS attack.
- Establish firewall rules to only allow IP addresses from within Freedonia.
- Use Cloud Armor to filter out those IPs originating outside of Freedonia.
 - Cloud Armor can filter out specific IP addresses or IP address ranges, including those linked geographically during a DDoS attack.

Answer 20

Hudson has just been made manager of a new division in his company. As such, one of his top priorities is ensuring each member of his new team has the proper permissions to accomplish their jobs within his project. What's the best way for Hudson to grant these permissions, from the options listed below?

- Assign the proper primitive role to each team member.
- Assign only the needed permissions directly to each team member.
- Assign the proper pre-defined or custom role to each team member. Selected

Permissions are collected into roles and assigning either a pre-defined or custom role is the best way to grant permissions.
- Assign an IAM policy to each team member.

Answer 21

Laila is starting a new cloud-based business for her cosplay costumes. She has an application ready to go, but her team is NOT familiar with managing the necessary infrastructure and networks. Which computing model should Laila adopt?

IaaS

PaaS

Platform as a Service includes infrastructure management, which would best fit the abilities of Laila's team.

SaaS

Selected

Software as a Service would not be appropriate for a company that has its own application like Laila's does.

FaaS

Answer 22

Catrin's team is building an app that will accept audio recordings from users and then, after review and approval, make them available to the public for listening. How should Catrin structure this process?

- ✓ Create two buckets in Cloud Storage: one with staff-only viewing permissions and the other with public permissions. Upload the audio files into the staff-only bucket and then, after approval, move them to the public bucket.

Since audio recordings are unstructured data, using Cloud Storage is best, and the two-bucket system will allow only approved recordings to be heard by all.

- ✗ Create two buckets in Cloud Storage, one with staff-only viewing permissions and the other with public permissions. Upload the recordings into the public bucket first and automatically move them to the staff-only bucket. After approval, move them back to the public bucket.Selected

Placing them in the public bucket first makes them generally available to all, even if it is for a short time.

- ✗ Store the images in a Cloud SQL database initially, with a "public" field set to "False". After review, switch the field to "True".
- ✗ Store the recordings in a Cloud Firestore database initially, with a "public" field set to "False". After review, switch the field to "True".

Answer 23

Raelyn is setting up the parameters to recommend acceptable response time values for the company's SLA. The team's current SLO for response time when their API is accessed is 400 milliseconds. According to SRE principles, which of the following values would be the best choice for Raelyn to recommend for the new SLA?

300 milliseconds

400 milliseconds

Selected

The SLO and SLA should not be the same.

500 milliseconds

This is an appropriately higher value than the SLO.

410 milliseconds

Answer 24

After a recent promotion, Gurjas was given the responsibility of developing the CI/CD pipeline for his company's newest serverless application. Which service should Gurjas NOT incorporate into the pipeline?

- Compute Engine

Selected

Compute Engine is not a serverless service.

- Cloud Functions

Although Cloud Functions is a serverless service, it is more for executing specific code functions than running full applications.

- Cloud Run

Selected

Cloud Run is a fully managed service for serverless containers and would work well as part of a CI/CD pipeline.

- Kubernetes Engine

Selected

While Kubernetes Engine is often used in CI/CD pipelines, it is not intended for serverless apps.

Answer 25

Bibi has what he thinks is a really great idea for his company. He wants to gather all the data on their customer's buying habits and correlate it with weather service reports from around the world, so he can advertise products from the company's catalog to fit the customer's weather-driven needs. Bibi's manager feels the company's in-house server can handle the data all by itself, and there is no need for cloud computing or external connections. Which of the following are NOT reasons Bibi is right and his manager is wrong?

- Bibi's idea requires the use of an API.
- This idea would require coordination with local regulatory agencies. Selected

Since Bibi is using his own company's data and public information via the weather services, this is not likely the case.
- Bibi's idea requires advanced AI processing.
- Bibi's idea does not require global connectivity. Selected

To reach a global market, you need a worldwide network, and an in-house server with a single connection to the internet will not have this bandwidth.

Answer 26

Haruto works in the comptroller's office for a company that is migrating to Google Cloud. Which of the following techniques and tools should Haruto recommend implementing to keep costs under control?

- Apply security marks to resources to identify them for proper team billing
- Restrict resource use to free tier limits
- Determine costs for projects before they are underway with the online Pricing CalculatorSelected

The Google Cloud Pricing Calculator can help set your IT budgets as you commit more to public cloud solutions.
- Establish billing alerts to notify proper individuals when costs exceed designated amountsSelected

Billing alerts are an excellent tool for keeping an eye on the on-going costs of cloud resources.

Answer 27

In looking over the specs for her team's new app, Aisha sees that they are moving to a cloud-native containerized format. She notes that, because of the initial launch phase, the company is anticipating periods of inactivity as well as spikes of high traffic. Which GCP compute service listed below would NOT be a good fit for Aisha's new application?

Cloud Run

App Engine flexible environment

Selected

Although the App Engine flexible environment is compatible with containers, it does not have the capacity to scale to zero.

Compute Engine

Selected

Compute Engine does not run containerized apps.

Kubernetes Engine

Selected

While Kubernetes Engine is compatible with containers, it does not have the capacity to scale to zero.

Answer 28

Zuri is looking to deploy her new app, but she's concerned about availability. She's heard that although the system is set to scale automatically, it can sometimes take minutes for new instances to be ready. Which of the following Google Cloud compute options should Zuri rule out?

- Local server

A local server would probably take the longest time to reboot if there were a problem.

- Google Kubernetes Engine

Selected

GKE containers spin up in seconds rather than minutes and would be a solid choice for Zuri.

- Cloud Run

Selected

Serverless systems like Cloud Run spin up almost instantaneously and would work well for Zuri.

- Compute Engine

Although Compute Engine VMs are great for full applications with specific OS requirements, they can take minutes to boot up, resulting in the potential delays that concern Zuri.

Answer 29

Anastasia's company migrated to GCP a little over a year ago, and now that the dust has settled somewhat, she has been asked to review their operation for any cost-saving measures. Anastasia has noted that the company relies on certain VMs to perform the same task daily, and the forecast is that this will continue for the foreseeable future. Other computing tasks are more sporadic; they are essential but not time sensitive. Finally, she noted that the business is growing rapidly and expects to open a new branch in Eastern Europe within the year. Which of the following are the best options for Anastasia to recommend that would lower company expenses?

- A persistent disk for the VMs performing the sporadic tasks.

Selected

A persistent disk would cost more money, not less, and is not necessary in this case.

- A three-year sustained use discount for the servers performing the same task daily.

Because the company foresees requiring the same server types to run a task for the foreseeable future, securing a three-year sustained use discount will provide a significant cost savings.

- A preemptible disk for the VMs performing the sporadic tasks.

Preemptible disks are Compute Engine VMs that can be preempted if the processing power is needed elsewhere. Sporadic processing jobs are great for preemptible disks and the discounts are substantial.

- A one-year sustained use discount for the servers performing the same task daily.

Selected

Since Anastasia understands that these servers are to be used 'for the foreseeable future,' a one-year sustainable discount would not lead to the deepest discounts and therefore, is not the best choice.

Answer 30

Greg's team is building out a product catalog for the internal sales team that features real-time collaborative listings. Sales people will be encouraged, but not required, to add new entries to each product's record. Which of the following Google Cloud services should Greg NOT use to house the database?

- Cloud Bigtable

Selected

Although Cloud Bigtable is a NoSQL database, it is not the best choice for collaborative applications, like this one.

- Cloud SQL

Selected

Cloud SQL is a SQL database, whereas a NoSQL database would be a better choice here.

- Cloud Firestore

- Cloud Spanner

Selected

Cloud Spanner is a SQL database, whereas a NoSQL database would be a better choice here.

Answer 31

Gunner is looking for a solution to his data problem. His company has data stored in regional data centers around the world that he needs to access, but local regulations mandate that the data is stored in those locations. Which of the solutions below would NOT allow Gunner to efficiently access the data?

Cloud Spanner

Cloud SQL

Selected

Although Cloud SQL is a fully managed database service, it does not have the global reach to help in this scenario.

Cloud Firestore

Selected

Cloud Firestore is a document-based NoSQL database and would not be appropriate in this scenario.

Apigee

Answer 32

Amir has written a microservice to add more functionality to the company's main application. He projects that it will be widely used, with frequent spikes of usage, although he knows that there will be times when it will not be used at all. Which of the following Google Cloud services is Amir's best option for a computing model?

CI/CD

Cloud Run

Selected

Serverless computing like that of Cloud Run offers almost instantaneous scaling and is billed only when code executes.

Google Kubernetes Engine

Compute Engine

Answer 33

Lynn is coordinating with a teammate who is in charge of their on-premises Azure Active Directory server to allow the access to one of Lynn's cloud services. How should Lynn proceed?

- Create a service account for the Azure Active Directory service and grant it full access to the app's resources.
- Use Cloud IAM's workload identity federation option to grant access.

External identities, like Azure Active Directory on-premises, can be granted access to Google Cloud resources via the workload identity federation feature of Cloud IAM.
- No action is required. As an on-premises Active Directory server, they would already have any necessary access to cloud services.

Even on-premises servers from the same company would need to establish some way to grant appropriate access.
- Grant the teammate the Owner role for the project and allow them to set up the necessary access for the Azure Active Directory service.

Selected

Answer 34

After migrating to the web, Mateo's company is trying to monetize their customer base by making their legacy data available to visitors who opt for the "Premium" service. What should Mateo do to make this possible?

- Migrate the legacy data to the cloud database service, and set up a web portal that allows authorized users to access it.
- Develop an API that can request specific data from the legacy servers and return it to any requesting user.
- Provide "Premium" customers with direct access to the legacy data. Selected

This is a non-secure approach and could possibly lead to larger data breaches.

- Develop an API that can request specific data from the legacy servers and return it to authorized users.

An application programming interface (API) is a good way to unlock legacy data and make it available to paying customers, if desired.

Answer 35

Apollonia has been alerted by her manager that their app's memory usage is hitting the resource limit. How should Apollonia tackle this problem?

- Use Cloud Profiler to identify memory spikes and then work with the team to reduce usage.

Cloud Profiler continuously analyzes performance of memory-intensive functions and CPU usage executed across an application.

- Use Cloud Profiler to isolate CPU spikes and then work with the team to reduce usage.
- Use Cloud Trace to isolate memory spikes and then work with the team to reduce usage.
- Use Cloud Debugger to identify the memory spikes and then work with the team to reduce usage.

Selected

This is not a function of Cloud Debugger.

Answer 36

Jags was riding the elevator to his new job when the company's CEO stepped in. After shaking his hand and welcoming Jags to the company, the CEO leaned in and whispered, "To be honest, I really don't understand this cloud thing. Can you tell me what it is, briefly?" Which of the following descriptions should Jags NOT use as a brief explanation to the CEO?

- ✓ The cloud is a network located around the world that is accessed through the internet and is designed to convey your information wherever you need it.

This definition omits the data centers that handle the processing and storing of data.

- ✗ The cloud is a network of data centers located around the world that is accessed through the internet and is designed to store and process information.

Selected

Although the word "cloud" makes it seem very ephemeral, the cloud in computing refers to just such a network of internet-accessible data centers.

- ✓ The cloud is a network of computers located around the world that is accessed through the internet, and it just stores your data until you need it.

Selected

Processing is also a big part of the cloud, not just data storage.

- ✓ The cloud is a network of servers located around the world that is accessed through the internet and is designed to store and process information.

Selected

While technically this is true, the cloud also includes the data centers housing the servers, which provide the needed management and infrastructure.

Answer 37

Joshua is setting up the security policy for his company's newly migrated cloud operation. Which of the following areas should Joshua NOT be concerned with?

- Connectivity

Connectivity is a network infrastructure concern, not a security one.

- Internal security threats, such as phishing and social engineering.

Selected

Organizational awareness of threats, such as phishing and social engineering, improves internal security.

- Scaling

Selected

Scaling is an infrastructure concern, not a security one.

- Privacy

Answer 38

Frankie's new app is a global smash and getting a lot of feedback from users all over the world, in a wide range of languages. Her manager asked Frankie to figure out a way to store and sort the emails as complaints, suggestions, or praise while storing metadata and unique details for analysis. Which of the following combinations of GCP services would be best for Frankie to use?

Cloud Firestore, Media Translation API, and Natural Language API

Cloud Firestore, Translation API, and Natural Language API

The original emails are unstructured data that can be stored in Cloud Firestore, then translated with the Translation API, and then categorized using the sentiment analysis and classification features of the Natural Language API.

Cloud Storage, Translation API, and Natural Language API

Selected

Although Cloud Storage could be used to store the emails as a blob, the service would not allow for any categorization or analysis.

Cloud Spanner, Translation API, and Natural Language API

Answer 39

Quentin is designing an application that relays simple name-value pair information from a large array of smart refrigerators around the world. Which database service should Quentin NOT incorporate in his design?

Cloud Bigtable

BigQuery

Selected

BigQuery is more a data warehouse than a database.

Cloud Spanner

Selected

Cloud Spanner is a structured database and not the most appropriate choice for this use.

Cloud SQL

Selected

Cloud SQL is a structured database service better suited for working with SQL Server or MySQL instances.

Answer 40

Laila is starting a new cloud-based business for her cosplay costumes. She has an application ready to go, and she was informed that her team is fully capable of managing the necessary infrastructure or networks. Which computing model should Laila adopt?

- PaaS
- SaaS
- FaaS
- IaaS

Selected

Infrastructure as a Service (IaaS) offers cloud-based alternatives to on-premises physical infrastructure and requires the hands-on management and IT experience available in this scenario.

Answer 41

Christian inherited his uncle's software company, along with its traditional methods of application development, and he would like to modernize the process. What options should Christian NOT consider?

- ✓ Keep the development and operations teams independent of each other.

Maintaining the division between development and operations teams is not as productive as having them work together.

- ✗ Develop and maintain software using a CI/CD pipeline.

Selected

CI/CD brings ongoing automation and continuous monitoring to the entire lifecycle of apps, from code integration and testing phases to build delivery and deployment.

- ✓ Avoid SRE strategies when creating and maintaining applications.

Selected

Site reliability engineering is a Google-spawned implementation of DevOps, and its focus is making better software faster.

- ✗ Structure the teams responsible for creating the software to follow a DevOps pattern.

Answer 42

Jacqui is researching which Google Cloud database service to use for a new small business client who needs a familiar, structured system for their local application. What should Jacqui's top choice be?

Cloud Spanner

Cloud Bigtable

BigQuery

Selected

BigQuery is more like a data warehouse than a database.

Cloud SQL

Cloud SQL is compatible with familiar databases, such as SQL Server and MySQL, and would be a good fit for a small business.

Answer 43

Hari is running an animation festival and is accepting entries from all over the world. His sponsor is keen to make sure entries containing explicit content are isolated and viewed under restrictive conditions. What's Hari's most efficient approach to this problem?

- X Require all entrants to note if their animations contain explicit content.
- X Review all entries manually, and store animations with explicit content in a separate Cloud Storage bucket.
- ✓ Run all entries through the Video Intelligence API to detect any explicit content, and store those animations in a separate Cloud Storage bucket.

The Video Intelligence API is capable of detecting adult content in cartoons or anime, and storing the entries in a separate Cloud Storage bucket would allow full control over access.

- X Run all entries through the Vision API to detect any explicit content, and store those animations in a separate Cloud Storage bucket.

Selected

The Vision API works with images, not videos or animations.

Answer 44

Deva is the heir apparent for her parent's business and she's afraid that, by the time she takes control, the company's competitors will have overwhelmed them. Deva thinks their future lies in moving their business to the cloud. What arguments should she use with her parents to get them to move to the cloud sooner rather than later?

- ✓ Without cloud computing, accessing markets around the world is technically highly difficult.

The cloud's global connectivity gives businesses the power to reach customers around the world.

- ✓ Customer's expectations for reliability and innovation have increased.

Selected

As more businesses move to the cloud, customers have come to rely on — and expect — services that are always available and constantly evolving.

- ✗ The cloud allows the company to pay for all of their services upfront.

Selected

Public cloud providers offer pay-as-you-go pricing for most, if not all, services.

- ✗ The cloud is virtually available at no cost.

Answer 45

Casey is preparing a presentation for the board comparing the costs of their current on-premises infrastructure with a cloud infrastructure. Which of the following statements are false and should be excluded from Casey's presentation?

- It's easier to balance capacity against demand with an on-premises infrastructure.

Selected

Given cloud infrastructure's more responsive scaling, it's far easier to accomplish this in the cloud.
- Costs must be monitored and budgets adjusted more frequently with cloud infrastructure.
- CapEx is lower with cloud infrastructure.
- OpEx is higher with an on-premises infrastructure.

Selected

Operating expenses are likely to be more expensive with cloud infrastructure.

Answer 46

Jena is exploring Google Cloud's AutoML services. Which of the following data types is NOT supported by one or more of the services?

Text

PDFs

The PDF format is not currently supported by AutoML services.

Videos

Selected

AutoML Video Intelligence uses videos to train ML models.

Images

Answer 47

Harper has noticed some of the unusual behavior from the VMs being used by her project. How can she rule out external forces by verifying that all of her VMs have the latest updates?

- Use the Cloud Security Command Center to identify virtual machines running vulnerable disk images.
 - The Cloud Security Command Center is capable of auditing all of a project's resources, including the disk images of its VMs.
- Assign each of the project VMs a security mark and then assess those resources through the Cloud Security Command Center.
- Use the Cloud Security Command Center to identify virtual machines started within the last quarter.
- Use the Compliance reports manager to download a Vendor Risk Assessment for Google Cloud.

Answer 48

Salome's team just received the specs on their new app. They plan to use Compute Engine VMs as their computing core. The specs call for monitoring the VMs at a more granular level than normal. How should Salome's team proceed?

- Install a monitoring agent in each of the VMs to enhance their monitoring capabilities in combination with a third-party monitoring service.
- Switch to Google Kubernetes Engine with advanced monitoring capabilities.
- Install a monitoring agent in each of the VMs to enhance their monitoring capabilities in combination with Google Cloud operations.

Selected

Although Compute Engine VMs are monitored automatically by Google Cloud operations, installing an optional monitoring agent can enable tracking on a more granular level.

- Use the Google Cloud operations suite with the built-in monitoring capabilities.

Answer 49

Horatio is leading the team responsible for migrating his company's virtual machine workloads to GCP, and ensuring that his current workloads are viable in the cloud is a top priority. Select the best service to use and the corresponding functionality that Horatio can rely on to avoid any downtime.

- The service provides pre-migration validation with test clone capability. Selected

This functionality would ensure that Horatio would know if his workloads would perform as expected.

- The service replicates instance data in the background.

- Migrate for Anthos and GKE Selected

Migrate for Anthos and GKE is for migrating containerized applications, not VMs.

- Migrate for Compute Engine

Migrate for Compute Engine migrates VMs from on-premises to Google Cloud Compute Engine.

Answer 50

Elise, as head of the new operations for her company, has been getting reports of erratic slow downs in response time for a new app. What's the best way for Elise to initially respond?

- Use Web Security Scanner to ensure that the delay is not being caused by security issues.
- Use Cloud Profiler to track the latency during runtime and identify the bottleneck.
- Use Cloud Trace to send an alert whenever there is a notable shift in normal response time.

Cloud Trace tracks latency and is capable of issuing an alert whenever a significant shift in response time occurs. Using Cloud Trace in this way would be a good first step to handling the problem.

- Set up a Cloud Monitoring SLO alerting policy targeting latency.

Selected

While a Cloud Monitoring SLO alerting policy could be established to track latency, the SLO would only alert if a threshold value was not maintained over a set period of time, and it would not be the best solution in this scenario.