

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

Alejandra is looking to monetize some functionality that her company developed internally by offering to license it to third-party developers. What's the best way for Alejandra to do this on Google Cloud?

Use Apigee

Use App Engine

Use Cloud Functions

Use Cloud Run

Question 2

Obediah's team is architecting a new application that relies on streaming key-value data. 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 Spanner
- Cloud Firestore
- Bigtable
- BigQuery

Question 3

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 is a good fit for Aisha's new application?

- Cloud Run
- App Engine flex environment
- Compute Engine
- Kubernetes Engine

Question 4

Guillaume's company runs their own data centers to securely manage their health industry data, and they are beginning to expand to other offices in the country. He has been asked to look into "the cloud" and recommend the company's next steps. If Guillaume wanted his company to join the digital transformation era, which options should he recommend be considered?

(Choose 2)

Private cloud

Hybrid cloud

Colocation

Public cloud

Question 5

Queen is outlining her company's security responsibilities after migrating their applications to Google Cloud's App Engine. Which of the following should Queen note her company are responsible for?

(Choose 2)

Deployment

Content

Access and authentication

Network

Question 6

Kimmy is working on an organizational Cloud IAM policy, and needs to identify the principals who should be assigned specific roles for certain resources. Which of the following are considered principals by Cloud IAM?

(Choose 3)

All users

Google account

Service account

Storage Object Viewer

Question 7

Niko is putting together a presentation for her company on the digital transformation era. Which of the following points should she include to help explain what it is and why it is important?

(Choose 3)

Increased demand

Rising customer demand

Increased supply

Slightly decreased CapEx

Question 8

Winnie is considering migrating her on-premises databases to Cloud SQL. Which of the following databases are supported by Cloud SQL?

(Choose 3)

MongoDB

PostgreSQL

SQL Server

MySQL

Question 9

Veda is responsible for shifting her company's Oracle workloads to the public cloud, and she has been told that they need to connect with other services as quickly as possible. Which one of the following Google Cloud VM services should Veda use?

- VMWare Engine
- Bare Metal
- Compute Engine
- Anthos

Question 10

Rachel and Ben are working together to launch a new business that involves six different applications running on three different operating systems. All of the apps operate independently of each other, but share information from time to time. How should Rachel and Ben structure their computing needs?

- Use VMs on a single server
- Use six VMs on three servers
- Use containers
- Use a mix of containers and VMs

Question 11

Annalise has been asked to identify the lowest-cost method to store a collection of PDF documents that needs to be accessed by the company's auditors once a quarter. What should Annalise suggest?

- Use a NoSQL service such as Cloud Firestore.
- Process each PDF with the Vision API's OCR capabilities, and then store the resulting data in Cloud Bigtable.
- Use a Cloud Storage bucket with an Archive Storage class.
- Use a Cloud Storage bucket with a Coldline Storage class.

Question 12

Zain's company is planning on building a replacement cloud-native application. Zain thinks the best way forward is to do that while the current app is still running, and make the replacement after the new version is fully tested and ready for prime time. What is Zain's approach called?

Invent in Brownfield

Lift-and-shift

Lift-after-shift

Invent in Greenfield

Question 13

Daren has been asked to double-check the new website running on App Engine before the big launch for any missed vulnerabilities. Which Google Cloud service should Daren rely on?

- Web Security Scanner
- Cloud Armor
- Cloud Data Loss Prevention
- Event Threat Detection

Question 14

Chames is working with a new machine learning model, which he has trained and deployed.
What steps are left for him to take?

(Choose 3)

Monitor predictions

Manage models

Prepare data

Generate predictions

Question 15

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 compute options should Zuri rule out?

(Choose 2)

Local server

Serverless

Containers

VMs

Question 16

Kestral needs to set up Cloud IAM access for a number of external consultants who will be reviewing BigQuery data as well as related billing data. What is the best way for Kestral to establish this access?

- Create a Google group with a custom role containing the permissions of BigQuery Viewer and Billing Viewer, and add each of the external consultants to the group.
- Give each of the external consultants a custom role containing the permissions of BigQuery Viewer and Billing Viewer.
- Create a Google group with the predefined roles for BigQuery and billing, and add each of the external consultants to the group.
- Give each of the external consultants the necessary BigQuery and billing predefined roles.

Question 17

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 use to house the database?

- Cloud SQL
- Cloud Bigtable
- Cloud Spanner
- Cloud Firestore

Question 18

Liyana is looking to set availability standards for the company's primary application, according to SRE principles. Which of the following should Liyana NOT choose?

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

Question 19

After migrating to the web, Mateo's company is trying to build up their partner ecosystem by making their legacy data available to a select inner circle. 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 authorized users.
- Develop an API that can request specific data from the legacy servers and return it to any requesting user.
- Provide the trusted partners with direct access to the legacy data.

Question 20

Amaya is talking to different contractors concerning the new application she wants developed. She wants to be able to grow the app quickly to meet demand while also keeping new features coming on a regular basis. How should Amaya proceed?

(Choose 2)

- Deploy the app to a public cloud platform.
- Create the app using microservices.
- Deploy the app to a colocation facility.
- Create a new application based on an existing one by adapting its code.

Question 21

Elise is head of the new Operations for her company, which has decided that latency and cost management are top priorities. Which services should Elise recommend to address the stated priorities?

(Choose 2)

Cloud Trace

Cloud Profiler

Web Security Scanner

Cloud Monitoring

Question 22

Bella works with a company that specializes in creating training courses for cloud certifications. She's looking for a business intelligence tool that will allow her to analyze and visualize the ratings students give the courses. Which of the following would be a good recommendation for Bella to consider?

Looker

Cloud BI

Cloud SQL

Data Studio

Question 23

Lina needs to create a custom machine learning model that identifies defectively manufactured windshield wipers coming off her company's assembly line. She has all the photographic data she needs, but no experience in either AI or ML. What is the best product for Lina to use?

- AutoML Tables
- Vertex AI
- Vision API
- AutoML Vision

Question 24

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. What is Ajay's best Google Cloud option?

- Compute Engine
- Cloud Run
- App Engine
- Kubernetes Engine

Question 25

Ashe is trying to decide which container-based service he should use on Google Cloud for his new application. He understands that his budget doesn't allow for personnel to configure or manage the workloads over a long period of time, but wants to ensure that the container is fully portable. Which GCP service should Ashe use?

Compute Engine

App Engine standard edition

Cloud Run

Kubernetes Engine

Question 26

Remy is working for a startup company that specializes in transcribing Korean videos into English, Spanish, and French. Which of the following processes should Remy recommend his company adopt?

- Transcribe the videos using the Media Translation API.
- Run the videos through the Speech-to-Text API and Translate API to transcribe and translate.
- Run the videos through the Video Intelligence API to extract the audio and then use the Speech-to-Text API and Translate API to transcribe and translate.
- Transcribe the videos using the Translation API.

Question 27

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 model should Xavier invest in?

Public cloud

Colocation

Private cloud

On-premises

Question 28

Sly has been asked to develop a system that can predict demand based on historical sales data over the 30 days. Which one of the following Google Cloud services would be best for Sly to use?

- Cloud Spanner
- Cloud Pub/Sub
- BigQuery
- Cloud SQL

Question 29

Joshua is setting up the security policy for his company's newly migrated cloud operation. Which of the following areas should Joshua be concerned with?

(Choose 3)

Compliance

Cyberattacks

Connectivity

Privacy

Question 30

Tamara just ran her first predictions based on a machine learning model she trained using Vertex AI. Unfortunately, wildly unexpected predictions are being output. Which of the following could be the problem?

(Choose 2)

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

Question 31

Following a merger with another medical data company, Carine was reviewing the company's public data and noticed that a great deal of the records they inherited contain both driver's license numbers and patient identification numbers. How should Carine react?

- Use Cloud Data Loss Prevention to de-identify the values to protect the patients' privacy.
- Set up a Dataflow pipeline to extract the personally identifiable information (PII).
- Use Event Threat Detection to de-identify the values to protect the patients' privacy.
- Do nothing, as it is the responsibility of the previous company.

Question 32

Sade's team has been fending off SQL injection attacks for the past week, all stemming from two internet service providers based in an Eastern European country. How should her team respond?

- Set up Cloud Armor to reject any traffic requests from the IP addresses of the identified service providers.
- Set up Event Threat Detection to block SQL injection attacks from anywhere.
- Set up Cloud Armor to monitor any traffic requests from the IP addresses of the identified service providers.
- Set up Web Security Scanner to block SQL injection attacks from anywhere.

Question 33

Laila is starting a new cloud-based business for her cosplay costumes. She has an application ready to go, but there is no one on her team dedicated to managing the necessary infrastructure or networks. Which computing model should Laila adopt?

SaaS

PaaS

FaaS

IaaS

Question 34

Raelyn is setting up the parameters to recommend acceptable latency values for the company's SLA. The team's current SLO for latency when their API is accessed is 200 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
- 210 milliseconds
- 100 milliseconds
- 200 milliseconds

Question 35

Dion needs to make a presentation on Google Cloud's defense in depth security model. Which of the following should Dion list as security tiers in this model?

(Choose 3)

Operations

Identity

Encryption

Hardware

Question 36

Cam is responsible for migrating the company's AWS EC2 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 Anthos and GKE
- Migrate for Compute Engine
- Migrate for AWS
- VMware Engine

Question 37

Sreenath has been asked to set up a database for a new app that displays which cars used which parking meters over the last 30 days. The data always includes a parking meter number, the license plate of the car, and the date and time that the car started using the meter. Which type of database should Sreenath choose?

A structured database

A rigid database

An unstructured database

A semi-structured database

Question 38

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

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

Question 39

Jags was riding the elevator to his new job, when the company 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?" What is the best explanation Jags can give?

- 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.
- 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.

Question 40

Joey has noticed that his company's website is being attacked in a way never seen before, and each time, the same log event is recorded. What steps should Joey take to deal with this attack?

- Create a custom Event Threat Detection rule by running queries on exported logs to BigQuery, and then use the custom rule to identify the attacker.
- Use a preconfigured Event Threat Detection rule to identify the attacker.
- Export the logs to BigQuery and then analyze to identify the attacker.
- Use Cloud Armor to block the IP address of the attacker.

Question 41

Dell Ann's organization is recovering from an association with a colocation vendor who went bankrupt and caused numerous service disruptions. She knows leadership is particularly cost-sensitive now, but also wants to ensure the organization's data is secure regardless of what might happen to a specific company. Which cloud configuration should Dell Ann recommend the organization pursue?

Public cloud

Private cloud

Multicloud

Hybrid cloud

Question 42

David asked Jimmy which Google Cloud database service would be better for an upcoming project, Cloud SQL or Cloud Spanner? Which of the following questions does Jimmy need to ask David to differentiate between the two services?

(Choose 3)

- How much data will be used?
- Will more than one database be needed?
- Is cost an overriding concern?
- Does the project require SQL?

Question 43

Brea and her teammate Juls are collaborating on a white paper to persuade their on-premises-based company to move their data-centric business to the cloud. Which of the following arguments likely reflect the company's current state of affairs?

(Choose 2)

- They currently have the capacity to easily scale up on-demand.
- They are unable to convert the volume of data received into digital formats.
- They don't have enough processing power to make real-time predictions.
- Scaling down their capacity when demand recedes is not a problem.

Question 44

Casey is preparing a presentation for the board comparing costs of their current on-premises infrastructure with a cloud infrastructure. Which of the following are true statements that Casey should include in the presentation?

(Choose 2)

- Costs must be monitored and budgets adjusted more frequently with cloud infrastructure.
- OpEx is higher with an on-premises infrastructure.
- CapEx is lower with cloud infrastructure.
- It's easier to balance capacity against demand with an on-premises infrastructure.

Question 45

Kanchan has noticed an issue with his app. Every now and then, a particular set of log lines appears when performance lags. What should Kanchan first do to debug this situation?

- Monitor the logs for the repeated error pattern.
- Use Cloud Trace to identify the bottleneck.
- Use Cloud Debugger's snapshot feature to capture the call stack.
- Create a log metric in Cloud Logging, followed by an alert to notify Kanchan when any log lines match the previously noted pattern.

Question 46

Marek's team is in charge of rendering and encoding video footage for their drone photography app. The footage is uploaded sporadically and must be encoded within a 10-day timeframe. Unfortunately, due to cost overruns in other departments, the team budget has been cut dramatically. What is the best single option that would allow Marek to accomplish his job and still stay within budget?

- Change the storage class for the processed video to a less expensive one
- Use preemptible virtual machines
- Apply a sustained use discount
- Apply a committed use discount

Question 47

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 are times it will not be used at all. What is Amir's best option for a computing model?

CI/CD

Containers

VMs

Serverless

Question 48

Carmen has been tasked with finding a suitable storage location for her delivery company's new app, which analyzes data collected from all the deliveries, the amount of gas refueled at the end of the deliveries, and customer feedback. Which type of data storage should Carmen recommend be used?

- A data lake
- A non-relational database
- A relational database
- A data warehouse

Question 49

Annalise is setting up Cloud IAM policies for her new team and needs to understand what resources are available. Which of the following are Cloud IAM resources?

(Choose 3)

- Google Workspace account
- VM instance
- Folder
- Organization

Question 50

Logan is working with Cloud Monitoring for the first time and needs to understand its capabilities. Which of the following are features of Cloud Monitoring?

(Choose 3)

- Health monitoring
- System monitoring
- Audit logs
- Visual dashboards

Answers

Answer 1

Alejandra is looking to monetize some functionality that her company developed internally by offering to license it to third-party developers. What's the best way for Alejandra to do this on Google Cloud?

- Use Apigee

Apigee is Google Cloud's platform for developing and managing APIs, which could be used in every aspect of this scenario.

- Use App Engine

- Use Cloud Functions

Selected

Cloud Functions is a Function as a Service solution, and would not be practical in this scenario.

- Use Cloud Run

Answer 2

Obediah's team is architecting a new application that relies on streaming key-value data. 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 Spanner

Cloud Firestore

Selected

While Cloud Firestore is a possible option, it is not specifically designed as a key-value store, and therefore is not the best choice available.

Bigtable

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

BigQuery

Answer 3

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 is a good fit for Aisha's new application?

- Cloud Run

Cloud Run works with containers and scales from zero and back again in an instant.

- App Engine flex environment

- Compute Engine

Selected

Compute Engine does not run containerized apps.

- Kubernetes Engine

Answer 4

Guillaume's company runs their own data centers to securely manage their health industry data, and they are beginning to expand to other offices in the country. He has been asked to look into "the cloud" and recommend the company's next steps. If Guillaume wanted his company to join the digital transformation era, which options should he recommend be considered?

- Private cloud

A private cloud situation would protect their data while increasing access and scalability.

- Hybrid cloud

Selected

A hybrid cloud would allow Guillaume's company to keep their data private while taking advantage of the cloud's benefits.

- Colocation

Selected

Moving to a colocation facility would lower costs, but could also potentially increase security risks without gaining the benefits of a cloud migration.

- Public cloud

Answer 5

Queen is outlining her company's security responsibilities after migrating their applications to Google Cloud's App Engine. Which of the following should Queen note her company are responsible for?

- Deployment

Since App Engine is a fully managed Platform as a Service solution, responsibility for deployment falls to the company.

- Content

Selected

Content is always the responsibility of the company.

- Access and authentication

- Network

Selected

The cloud provider is responsible for network security for all computing models.

Answer 6

Kimmy is working on an organizational Cloud IAM policy, and needs to identify the principals who should be assigned specific roles for certain resources. Which of the following are considered principals by Cloud IAM?

- All users

All users is an accepted principal under Cloud IAM and is used when the goal is to grant open access to a resource, such as a file in a Cloud Storage bucket.

- Google account

Selected

Any email address that's associated with a Google account can be a principal identity in Cloud IAM.

- Service account

Selected

A service account is used for an application or compute workload instead of an individual end user.

- Storage Object Viewer

Selected

A Storage Object Viewer is an example of a Cloud IAM role.

Answer 7

Niko is putting together a presentation for her company on the digital transformation era. Which of the following points should she include to help explain what it is and why it is important?

- Increased demand

One aspect that makes this a truly transformative era is that both supply and demand have increased.

- Rising customer demand

Selected

The increased availability of content and services has served to heighten demand.

- Increased supply

Selected

Companies are moving faster now and have increased supply — and it's important for Niko's company to meet the challenge.

- Slightly decreased CapEx

Selected

Capital expenditures (CapEx) are significantly decreased in the digital transformation era.

Answer 8

Winnie is considering migrating her on-premises databases to Cloud SQL. Which of the following databases are supported by Cloud SQL?

MongoDB

PostgreSQL

Selected

PostgreSQL is one of the databases supported by Cloud SQL.

SQL Server

Selected

SQL Server is one of the databases supported by Cloud SQL.

MySQL

Selected

MySQL is one of the databases supported by Cloud SQL.

Answer 9

Veda is responsible for shifting her company's Oracle workloads to the public cloud, and she has been told that they need to connect with other services as quickly as possible. Which one of the following Google Cloud VM services should Veda use?

VMWare Engine

Bare Metal

Bare Metal is primarily used for Oracle databases and offers GCP connectivity with 2ms latency.

Compute Engine

Selected

Although Compute Engine is a possible solution, it is not the best option available here.

Anthos

Answer 10

Rachel and Ben are working together to launch a new business that involves six different applications running on three different operating systems. All of the apps operate independently of each other, but share information from time to time. How should Rachel and Ben structure their computing needs?

- Use VMs on a single server

Virtual machines (VMs) allow different operating systems to run the different applications, and they can still share information via internal networking.

- Use six VMs on three servers

- Use containers

- Use a mix of containers and VMs

Selected

While this is a possible solution, it's needlessly complicated.

Answer 11

Annalise has been asked to identify the lowest-cost method to store a collection of PDF documents that needs to be accessed by the company's auditors once a quarter. What should Annalise suggest?

- Use a NoSQL service such as Cloud Firestore.
- Process each PDF with the Vision API's OCR capabilities, and then store the resulting data in Cloud Bigtable. Selected

Although this is a possible solution, the operation is needlessly complex and likely to be more expensive than alternatives.

- Use a Cloud Storage bucket with an Archive Storage class.
- Use a Cloud Storage bucket with a Coldline Storage class.
 - PDFs are considered unstructured data, and are best stored in Cloud Storage.
 - The Coldline Storage class would allow access once every 90 days at the lowest cost.

Answer 12

Zain's company is planning on building a replacement cloud-native application. Zain thinks the best way forward is to do that while the current app is still running, and make the replacement after the new version is fully tested and ready for prime time. What is Zain's approach called?

- Invent in Brownfield

Because the company is keeping the current app running while building a new one, it is referred to as "inventing in Brownfield".

- Lift-and-shift

Selected

Lift-and-shift is also known as "move first, change later" and does not describe Zain's situation.

- Lift-after-shift

- Invent in Greenfield

Answer 13

Daren has been asked to double-check the new website running on App Engine before the big launch for any missed vulnerabilities. Which Google Cloud service should Daren rely on?

- Web Security Scanner

Web Security Scanner detects key vulnerabilities in App Engine, Compute Engine, and Kubernetes Engine applications.

- Cloud Armor

- Cloud Data Loss Prevention

- Event Threat Detection

Selected

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

Answer 14

Chames is working with a new machine learning model, which he has trained and deployed. What steps are left for him to take?

- Monitor predictions

Selected

After generating predictions, you need to monitor them to assure that they are on track.

- Manage models

If models need to be adjusted, the different versions must be managed.

- Prepare data

Selected

Preparing the data is the first step in the ML process.

- Generate predictions

Selected

Once the model is deployed, you need to generate predictions.

Answer 15

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 compute options should Zuri rule out?

Local server

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

Serverless

Containers

Selected

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

VMs

Selected

Although 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 16

Kestral needs to set up Cloud IAM access for a number of external consultants who will be reviewing BigQuery data as well as related billing data. What is the best way for Kestral to establish this access?

- Create a Google group with a custom role containing the permissions of BigQuery Viewer and Billing Viewer, and add each of the external consultants to the group.

This approach adheres to the principle of least privilege as well as the best practice of working with groups.

- Give each of the external consultants a custom role containing the permissions of BigQuery Viewer and Billing Viewer. Selected

It is a best practice in Google Cloud to work with groups whenever possible.

- Create a Google group with the predefined roles for BigQuery and billing, and add each of the external consultants to the group.

- Give each of the external consultants the necessary BigQuery and billing predefined roles.

Answer 17

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 use to house the database?

Cloud SQL

Cloud Bigtable

Selected

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

Cloud Spanner

Cloud Firestore

Cloud Firestore is a NoSQL database that features an offline mode for collaborative applications such as this one.

Answer 18

Liyana is looking to set availability standards for the company's primary application, according to SRE principles. Which of the following should Liyana NOT choose?

Available 98% of the time

Available 99.999% of the time

Selected

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

Available 95% of the time

Available 100% of the time

According to SRE principles, 100% availability is not a good choice, as it is extremely costly in terms of effort and resources.

Answer 19

After migrating to the web, Mateo's company is trying to build up their partner ecosystem by making their legacy data available to a select inner circle. 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 authorized users. Selected

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

Develop an API that can request specific data from the legacy servers and return it to any requesting user.

Provide the trusted partners with direct access to the legacy data.

Answer 20

Amaya is talking to different contractors concerning the new application she wants developed. She wants to be able to grow the app quickly to meet demand while also keeping new features coming on a regular basis. How should Amaya proceed?

- Deploy the app to a public cloud platform.

Selected

The public cloud offers a far greater ability to scale than using on-premises or colocation facilities.

- Create the app using microservices.

Developing the app with more modern techniques like microservices makes it easier to update and upgrade.

- Deploy the app to a colocation facility.

- Create a new application based on an existing one by adapting its code.

Selected

This approach leads to monolithic apps and "spaghetti code" which is increasingly difficult to update.

Answer 21

Elise is head of the new Operations for her company, which has decided that latency and cost management are top priorities. Which services should Elise recommend to address the stated priorities?

- Cloud Trace

Since the company stated that latency is their number one priority, using Cloud Trace to identify and optimize the latency of their deployed applications is a good idea.

- Cloud Profiler

Selected

Since cost management is one of the company's most important goals, Cloud Profiler would help them optimize CPU and memory usage, thus keeping costs in line.

- Web Security Scanner

Selected

Although security is everyone's concern, the company noted that latency and cost management are their top priorities.

- Cloud Monitoring

Answer 22

Bella works with a company that specializes in creating training courses for cloud certifications. She's looking for a business intelligence tool that will allow her to analyze and visualize the ratings students give the courses. Which of the following would be a good recommendation for Bella to consider?

- Looker

Looker is Google Cloud's business intelligence tool, and is perfect for analyzing and visualizing company-generated data.

- Cloud BI

- Cloud SQL

- Data Studio

Selected

While Data Studio is a good tool for visualizations, it does not include the data analytics aspect needed for this task.

Answer 23

Lina needs to create a custom machine learning model that identifies defectively manufactured windshield wipers coming off her company's assembly line. She has all the photographic data she needs, but no experience in either AI or ML. What is the best product for Lina to use?

AutoML Tables

Vertex AI

Vision API

Selected

Vision API could not be used for training a custom ML model.

AutoML Vision

AutoML Vision is ideal for creating custom ML models with an image data type, especially for those with no ML or AI experience.

Answer 24

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. What is Ajay's best Google Cloud option?

- Compute Engine
- Cloud Run Selected
 - Unless Ajay's application is containerized, Cloud Run is not a possible option.
- App Engine
 - App Engine is a fully managed serverless application platform that is capable of scaling down to zero.
- Kubernetes Engine

Answer 25

Ashe is trying to decide which container-based service he should use on Google Cloud for his new application. He understands that his budget doesn't allow for personnel to configure or manage the workloads over a long period of time, but wants to ensure that the container is fully portable. Which GCP service should Ashe use?

- Compute Engine

Selected

Compute Engine does not support containers.

- App Engine standard edition

- Cloud Run

Cloud Run is a fully managed service for containers which provides straightforward deployment of microservices and applications.

- Kubernetes Engine

Answer 26

Remy is working for a startup company that specializes in transcribing Korean videos into English, Spanish, and French. Which of the following processes should Remy recommend his company adopt?

- Transcribe the videos using the Media Translation API.

The Media Translation API extracts the audio from a video, translates it and transcribes it — exactly as Remy needs.

- Run the videos through the Speech-to-Text API and Translate API to transcribe and translate.

- Run the videos through the Video Intelligence API to extract the audio and then use the Speech-to-Text API and Translate API to transcribe and translate.

Selected

There's no need to use the Video Intelligence API to extract the audio.

- Transcribe the videos using the Translation API.

Answer 27

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 model should Xavier invest in?

- Public cloud

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

- Colocation

- Private cloud

Selected

The private cloud option is a possibility, but more expensive than other options and likely unnecessary.

- On-premises

Answer 28

Sly has been asked to develop a system that can predict demand based on historical sales data over the 30 days. Which one of the following Google Cloud services would be best for Sly to use?

Cloud Spanner

Cloud Pub/Sub

BigQuery

Selected

BigQuery works well when analyzing time series data such as this.

Cloud SQL

Answer 29

Joshua is setting up the security policy for his company's newly migrated cloud operation. Which of the following areas should Joshua be concerned with?

Compliance

Regulatory and legislative compliance is often a security concern.

Cyberattacks

Selected

Cyberattacks can lead to system crashes or data breaches.

Connectivity

Selected

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

Privacy

Selected

Privacy is arguably the primary security concern.

Answer 30

Tamara just ran her first predictions based on a machine learning model she trained using Vertex AI. Unfortunately, wildly unexpected predictions are being output. Which of the following could be the problem?

- Vertex AI is the wrong service to use for training ML models.
- Anomalies in her data were not removed. Selected

Anomalies, which refer to data that cannot be explained, should be cleaned from the data.
- Outliers in her data were not removed. Selected

Outliers in data can cause predictions to be more extreme, and they should be removed.
- The training model was not run for long enough.

Answer 31

Following a merger with another medical data company, Carine was reviewing the company's public data and noticed that a great deal of the records they inherited contain both driver's license numbers and patient identification numbers. How should Carine react?

- Use Cloud Data Loss Prevention to de-identify the values to protect the patients' privacy.

Cloud Data Loss Prevention is an inspection, classification, and de-identification platform designed to protect sensitive data.

- Set up a Dataflow pipeline to extract the personally identifiable information (PII).

- Use Event Threat Detection to de-identify the values to protect the patients' privacy.

Selected

Event Threat Detection does not support this feature.

- Do nothing, as it is the responsibility of the previous company.

Answer 32

Sade's team has been fending off SQL injection attacks for the past week, all stemming from two internet service providers based in an Eastern European country. How should her team respond?

- Set up Cloud Armor to reject any traffic requests from the IP addresses of the identified service providers.

Cloud Armor can protect against SQL injection attacks by blocking traffic from specific IP addresses through web application firewall rules.

- Set up Event Threat Detection to block SQL injection attacks from anywhere. Selected
- Set up Cloud Armor to monitor any traffic requests from the IP addresses of the identified service providers.
- Set up Web Security Scanner to block SQL injection attacks from anywhere.

Answer 33

Laila is starting a new cloud-based business for her cosplay costumes. She has an application ready to go, but there is no one on her team dedicated to managing the necessary infrastructure or networks. Which computing model should Laila adopt?

SaaS

Selected

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

PaaS

Platform as a Service (PaaS) includes infrastructure and is designed to support the complete web application lifecycle.

FaaS

IaaS

Answer 34

Raelyn is setting up the parameters to recommend acceptable latency values for the company's SLA. The team's current SLO for latency when their API is accessed is 200 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

This is an appropriately higher value than the SLO.

210 milliseconds

100 milliseconds

Selected

In this scenario, the SLA latency value should be significantly higher than the SLO, not lower.

200 milliseconds

Answer 35

Dion needs to make a presentation on Google Cloud's defense in depth security model.

Which of the following should Dion list as security tiers in this model?

- Operations

Selected

Operations is the innermost security tier in Google Cloud's defense in depth model.

- Identity

Google Cloud adopts a zero trust model to ensure the identities of all users and services accessing the system are authenticated.

- Encryption

Selected

Although Google Cloud encrypts all data at rest, encryption is not included in its defense in depth model.

- Hardware

Selected

Hardware is the outermost security tier in Google Cloud's defense in depth model.

Answer 36

Cam is responsible for migrating the company's AWS EC2 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 Anthos and GKE

Migrate for Compute Engine

Migrate for Compute Engine supports Amazon Web Services EC2 as a source workload and also incorporates test clone capabilities to make sure everything is functional prior to the migration.

Migrate for AWS

Selected

Google Cloud does not currently have a Migrate for AWS service.

VMware Engine

Answer 37

Sreenath has been asked to set up a database for a new app that displays which cars used which parking meters over the last 30 days. The data always includes a parking meter number, the license plate of the car, and the date and time that the car started using the meter. Which type of database should Sreenath choose?

- A structured database

The type of consistently formatted data described would work well in a structured database.

- A rigid database

- An unstructured database

- A semi-structured database

Selected

Although a semi-structured database could be used for this data, it is not the best choice of the available options.

Answer 38

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

- Use VMware Engine
- Use Migrate for Anthos and GKE's fit assessment tool prior to conversionSelected
 - Migrate for Anthos and GKE's fit assessment tool evaluates desired workloads for container compatibility.
- Convert the applications herself
- Use Migrate for Compute Engine's fit assessment tool prior to conversion

Answer 39

Jags was riding the elevator to his new job, when the company 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?" What is the best explanation Jags can give?

- 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.
- 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. Selected

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.

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

Answer 40

Joey has noticed that his company's website is being attacked in a way never seen before, and each time, the same log event is recorded. What steps should Joey take to deal with this attack?

- Create a custom Event Threat Detection rule by running queries on exported logs to BigQuery, and then use the custom rule to identify the attacker. Selected

A custom rule could be constructed by running queries in BigQuery on exported logs that contained the attack outcome details.
- Use a preconfigured Event Threat Detection rule to identify the attacker.
- Export the logs to BigQuery and then analyze to identify the attacker.
- Use Cloud Armor to block the IP address of the attacker.

Answer 41

Dell Ann's organization is recovering from an association with a colocation vendor who went bankrupt and caused numerous service disruptions. She knows leadership is particularly cost-sensitive now, but also wants to ensure the organization's data is secure regardless of what might happen to a specific company. Which cloud configuration should Dell Ann recommend the organization pursue?

- Public cloud
- Private cloud
- MulticloudSelected
 - Multicloud avoids vendor lock-in (which their company is rightfully very concerned with now), offers lower costs for specific services, and offers increased redundancy to prevent data loss.
- Hybrid cloud

Answer 42

David asked Jimmy which Google Cloud database service would be better for an upcoming project, Cloud SQL or Cloud Spanner? Which of the following questions does Jimmy need to ask David to differentiate between the two services?

- How much data will be used?

Selected

This is a relevant question, because while Cloud SQL can handle up to 30 TB, Cloud Spanner can handle much, much more.

- Will more than one database be needed?

Each Cloud SQL instance is limited to one database per instance, whereas Cloud Spanner can handle multiple databases.

- Is cost an overriding concern?

Selected

Cloud Spanner is much more expensive to run than Cloud SQL.

- Does the project require SQL?

Selected

Both services run SQL, so this question would not help make the choice.

Answer 43

Brea and her teammate Juls are collaborating on a white paper to persuade their on-premises-based company to move their data-centric business to the cloud. Which of the following arguments likely reflect the company's current state of affairs?

- They currently have the capacity to easily scale up on-demand.
- They are unable to convert the volume of data received into digital formats. Selected

Data is at its most useful when digitized, which is much easier to convert on the cloud.
- They don't have enough processing power to make real-time predictions. Selected

Cloud computing offers increased processing power to convert streaming real-time data into predictions.
- Scaling down their capacity when demand recedes is not a problem.

Answer 44

Casey is preparing a presentation for the board comparing costs of their current on-premises infrastructure with a cloud infrastructure. Which of the following are true statements that Casey should include in the presentation?

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

Since cloud infrastructure uses a pay-as-you-go model, costs must be closely watched to avoid overspending.

- OpEx is higher with an on-premises infrastructure.

Selected

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

- CapEx is lower with cloud infrastructure.

Selected

Capital expenditures are very likely to be far higher with an on-premises infrastructure.

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

Answer 45

Kanchan has noticed an issue with his app. Every now and then, a particular set of log lines appears when performance lags. What should Kanchan first do to debug this situation?

- Monitor the logs for the repeated error pattern.
 - Use Cloud Trace to identify the bottleneck.
 - Use Cloud Debugger's snapshot feature to capture the call stack.
 - Create a log metric in Cloud Logging, followed by an alert to notify Kanchan when any log lines match the previously noted pattern.

Selected
- This would be an effective, efficient approach to the issue.

Answer 46

Marek's team is in charge of rendering and encoding video footage for their drone photography app. The footage is uploaded sporadically and must be encoded within a 10-day timeframe. Unfortunately, due to cost overruns in other departments, the team budget has been cut dramatically. What is the best single option that would allow Marek to accomplish his job and still stay within budget?

- Change the storage class for the processed video to a less expensive one
- Use preemptible virtual machines
 - Preemptible VMs—which offer a substantial discount—are perfect for a job that requires short-term processing and which can be interrupted if needed.
- Apply a sustained use discount
- Apply a committed use discount

Selected

Given the sporadic nature of the arrival of the source footage, a committed use discount would not be helpful.

Answer 47

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 are times it will not be used at all. What is Amir's best option for a computing model?

CI/CD

Containers

Selected

Although containers are faster than VMs at scaling, they are not as fast as other available options.

VMs

Serverless

Serverless computing offers almost instantaneous scaling and is billed only when code executes.

Answer 48

Carmen has been tasked with finding a suitable storage location for her delivery company's new app, which analyzes data collected from all the deliveries, the amount of gas refueled at the end of the deliveries, and customer feedback. Which type of data storage should Carmen recommend be used?

A data lake

A non-relational database

A relational database

Selected

One or more relational databases could handle a good portion of the data, but other data, such as the customer feedback, calls for non-relational databases.

A data warehouse

A data warehouse is the best storage type for a range of structured and semi-structured data which can be assembled and analyzed.

Answer 49

Annalise is setting up Cloud IAM policies for her new team and needs to understand what resources are available. Which of the following are Cloud IAM resources?

- Google Workspace account
- VM instance Selected
 - | A Compute Engine virtual machine instance is a Cloud IAM resource.
- Folder Selected
 - | Folders are considered Cloud IAM resources.
- Organization Selected
 - | The overall organization is a Cloud IAM resource.

Answer 50

Logan is working with Cloud Monitoring for the first time and needs to understand its capabilities. Which of the following are features of Cloud Monitoring?

- Health monitoring

Selected

Cloud Monitoring is capable of alerting on issues with uptime checks for resources (e.g., instances and load balancers).

- System monitoring

Selected

With Cloud Monitoring, you can set, monitor, and alert your teams as needed based on service-level objectives (SLOs).

- Audit logs

Selected

Audit logs are a feature of Cloud Logging.

- Visual dashboards

Fully customizable dashboards are available in Cloud Monitoring, as well as built-in default options for full data visualization.