

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

Chames is working with a new machine learning model, which he wants to train and use to generate predictions. What steps must Chames take before he can do this?

(Choose 2)

Monitor predictions

Prepare data

Manage models

Create the model

Question 2

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

IaaS

FaaS

SaaS

PaaS

Question 3

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

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

Question 4

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, a photograph of the car's license plate, and the date and time that the car started using the meter. Which type of database should Sreenath choose?

- A data lake
- A rigid database
- A structured database
- A semi-structured database

Question 5

As the company's lead SRE, Justine is coordinating with the management team on their new SLA. Frank, on the Executive Leadership Team, is advocating for 100% reliability. Which of the following statements should be in Justine's response?

(Choose 3)

- An SLA of 100% will result in frequent default.
- An SLA of 100% is not necessary to maintain good customer relations.
- An SLA of 100% will ensure continued success.
- An SLA of 100% is exceedingly costly in terms of effort and resources.

Question 6

Bibi has what he thinks is a really great idea for his company. He wants to gather all the data on their customers' 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 customers' weather-driven needs. Bibi 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 reasons Bibi is wrong?

(Choose 3)

This idea would require coordination with local regulatory agencies.

Bibi's idea requires the use of an API.

Bibi's idea requires advanced AI processing.

Bibi's idea requires global connectivity.

Question 7

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

- Scan the text with Cloud Vision API to convert the text via OCR, and then use Translate API to transcribe and translate.
- Use AutoTranslateML.
- Transcribe the documents using the Translation API.
- Transcribe the documents using the Media Translation API.

Question 8

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)

All authenticated users

Cloud Storage bucket

Folder

Project

Question 9

Catrin's team is building an app that will accept photographs from users and then, after review and approval, make them available to the public for viewing. 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 images into the public bucket first and automatically move them to the staff-only bucket. After approval, move them to the public bucket.
- Store the images in a Cloud Firestore database initially, with a "public" field set to "False". After review, switch the field to "True".
- Store the images in a Cloud SQL database initially, with a "public" field set to "False". After review, switch the field to "True".
- Create two buckets in Cloud Storage, one with staff-only viewing permissions and the other with public permissions. Upload the images into the staff-only bucket and then, after approval, move them to the public bucket.

Question 10

Lynn is coordinating with a partner running Azure Active Directory to allow the service access to one of her company's apps. How should Lynn proceed?

- Use Cloud IAM's workload identity federation option to grant access.
- Grant the partner the Owner role for the project and allow them to set up the necessary access for the Azure Active Directory service.
- Create a service account for the Azure Active Directory service and grant it full access to the app's resources.
- Create a service account for the Azure Active Directory service and grant it restricted access to the app's resources.

Question 11

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

(Choose 3)

- What format is the data in?
- How large is the workload?
- Does the project require NoSQL?
- Is cost an overriding concern?

Question 12

Joey received the most recent billing report for his team and noticed that there were numerous resources that he didn't recognize. What can Joey do to discover what is going on, and how can he prevent this from happening in the future?

(Choose 2)

- Use Event Threat Detection to identify an IAM anomalous grant.
- Use a custom Event Threat Detection rule to identify the person or services using the resources.
- Review the audit logs for his project.
- Export the billing logs to BigQuery and then analyze them to identify who or what is using his project's resources.

Question 13

Lina needs to create a custom machine learning model that identifies structural defects in wind turbines using drone footage. She has all the video data she needs, but no experience in either AI or ML. What is the best product for Lina to use?

- Video Intelligence API
- AutoML Video
- Vertex AI
- AutoML Tables

Question 14

Jacqui is researching which Google Cloud database service to use for a new major enterprise client who needs extremely fast processing and the highest availability for their global application. What should Jacqui's top choice be?

- Cloud Spanner
- Cloud SQL
- BigQuery
- Cloud Bigtable

Question 15

Horatio is leading the team responsible for migrating his company's virtual machine workloads to GCP. Unfortunately, he doesn't have the luxury of halting the currently running on-premises apps before the cloud versions are up and running. Select the best service to use and the corresponding functionality Horatio can rely on to avoid any downtime.

(Choose 2)

Migrate for Anthos and GKE

The service replicates instance data in the background.

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

Migrate for Compute Engine

Question 16

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 2)

Security Admin

Google group

All network users

Service account

Question 17

Stefani is developing an application that calls an API as part of the process. She needs to securely store the API key and then incorporate it when the API request is executed. How should Stefani accomplish this?

- Use Cloud Hardware Security Module to secure the API key and then pass it along when required.
- Use Secret Manager to store the API key as an encrypted string and then pass the decrypted value when the API is called.
- Use Cloud Key Management Service to store the API key as an encrypted string and then pass the decrypted value when the API is called.
- Store the encrypted key in a database field and retrieve it dynamically as needed.

Question 18

Following a merger with a financial services company, Carine was reviewing the company's public data and noticed that a great deal of the records they inherited contain both home addresses and credit card numbers. How should Carine react?

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

Question 19

Kanchan has noticed an issue with his app. Users are reporting a significant, but sporadic, delay when attempting a particular operation. What should Kanchan do first to debug this situation?

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

Question 20

Amaya is talking to different contractors concerning the new application she wants developed. She wants to be able to develop the app quickly, in such a way that it can be easily deployed and highly scalable, but also ensure that access is highly restricted. How should Amaya proceed?

(Choose 2)

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

Question 21

Christof is making a presentation on Looker for his colleagues. Which statements should he include to describe the service?

(Choose 2)

- Looker offers a live synchronization and offline mode for real-time collaboration.
- Looker includes integrated built-in and custom data visualizations.
- Looker handles large amounts of data in a key-value store.
- Looker is a business intelligence software and big data analytics platform.

Question 22

Lore is frustrated. She's just been hired to oversee her company's expansion after a recent migration to the cloud, which everyone is justifiably excited about. However, Lore sees great potential in the company's data that did not make the transition to the cloud. She's preparing a presentation for the board to lay out her ideas on the issue. What arguments should Lore use to convince them of her point of view?

(Choose 3)

- The legacy data should be migrated to the cloud.
- The on-premises data cannot connect to the newer cloud systems directly.
- An API could be developed to securely make the legacy data available.
- Making the data available has great potential for enhanced revenue.

Question 23

Quentin is designing an application that relays simple name-value pair information from a big array of smart refrigerators around the world. Which database service should Quentin incorporate in his design?

BigQuery

Cloud Spanner

Cloud Bigtable

Cloud SQL

Question 24

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

- 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 a Coldline Storage class.
- Use a Cloud Storage bucket with an Archive Storage class.
- Use a NoSQL service such as Cloud Firestore.

Question 25

Daren has taken over an older website running on Compute Engine. The company has switched to the more secure HTTPS protocol. How would Daren check for mixed content on the page with the older HTTP links?

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

Question 26

Kestral needs to set up Cloud IAM access for a number of external database engineers who need access to the project's development team resources. What is the best way for Kestral to establish this access?

- Create a Google group with the predefined roles for databases and add each of the external consultants to the group.
- Give each of the external engineers the necessary database predefined roles.
- Create a Google group with a custom role containing the database-related permissions needed at the team level, and add each of the external engineers to the group.
- Create a Google group with a custom role containing the database-related permissions needed at the project level, and add each of the external engineers to the group.

Question 27

Valeriya has a big deadline coming up. By the end of the week, she needs to submit her report detailing the monthly expenses anticipated for the new application her team is preparing to launch. Valeriya has coordinated with the various tech managers to get a full understanding of the infrastructure used. What's her next step?

- Use the Recommender to identify idle resources and cut costs
- Apply for a committed use discount
- Use the Google Cloud Pricing Calculator to gather her estimates
- Apply for a sustained use discount

Question 28

Zain's company is planning on building a replacement cloud-native application, and Zain thinks the best way forward is to build a brand new app, taking into account all the advantages of being cloud-native. What is Zain's approach called?

- Lift-and-shift
- Invent in Greenfield
- Invent in Brownfield
- Lift-after-shift

Question 29

Jasleen is overseeing her company's migration to the cloud. Because of the nature of their business, they have decided upon a hybrid approach that allows them to retain on-premises processing for certain data due to regulatory requirements, while deploying other container-based apps that need more rapid scaling to Google Cloud. Jasleen feels it is important to centralize monitoring of all systems for both financial and efficiency reasons. Which of the following Google Cloud services should Jasleen depend upon?

- Anthos
- Bare Metal
- VMware Engine
- Kubernetes Engine

Question 30

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 2)

Hardware

Operations

Privacy

Encryption

Question 31

Jena is exploring Google Cloud's AutoML services. Which of the following data types are supported by one or more of the services?

(Choose 3)

 Text Video Images PDFs

Question 32

Guillaume's company runs their own data centers to manage their local chain of hardware stores, and are beginning to expand to other offices in the next county. The board is concerned about rising costs of data expansion, and Guillaume has been asked to look into the cloud and recommend their next steps. If Guillaume wants his company to join the digital transformation era, which option should he recommend be considered?

Public cloud

Colocation

Expand on-premises data centers

Private cloud

Question 33

Sade's team has been fending off Distributed Denial of Service attacks for the past week. One member of Sade's team is concerned that these attacks are being orchestrated from within the organization. Which services should Sade use to protect her site and check her team member's suspicions?

(Choose 2)

Web Security Scanner

Cloud Armor

Event Threat Detection

Secret Manager

Question 34

Zeke just got a much-deserved promotion, and he's now in charge of ensuring that his team's app meets all compliance requirements with the Payment Card Industry Data Security Standard. Which Google Cloud service can help Zeke in his new role?

Cloud Data Loss Prevention

Cloud Armor

Event Threat Detection

Cloud Security Command Center

Question 35

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 consider?

(Choose 3)

Microservices

VMs

Serverless

Containers

Question 36

Apollonia has been alerted by her manager that their app's CPU usage is causing a scale-up that threatens the resource limit. How should Apollonia tackle this problem?

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

Question 37

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

(Choose 3)

Content

Network

Access and authentication

Deployment

Question 38

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 allow Gunner to efficiently access the data?

(Choose 2)

Cloud SQL

Apigee

Cloud Firestore

Cloud Spanner

Question 39

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

(Choose 2)

- Outputs a log detailing the cost of a resource
- Displays uptime checks
- Outputs data necessary to visualize logs
- Outputs a log tracing of actions taken by a user on your resources

Question 40

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 consider?

(Choose 3)

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

Question 41

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)

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

Question 42

After a recent promotion, Gurjas was given the responsibility for developing the CI/CD pipeline for his company's newest serverless application. Which service should Gurjas incorporate into the pipeline?

- Cloud Run
- Kubernetes Engine
- Compute Engine
- Cloud Functions

Question 43

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 2)

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

Question 44

Lachlan's company rather hurriedly migrated their business to the cloud, and just got their first monthly bill. Yikes! It is costing way more than expected, and Lachlan is the billing administrator. Upon investigation, it seems a great number of resources and services are being used by teams across the company, not just in the development and operations teams. What should Lachlan do?

(Choose 2)

- Coordinate with the company's management to use Cloud IAM and limit resource access to only essential personnel.
- Use Recommender to identify non-essential resources and eliminate their use.
- Send the dev and ops teams new billing codes to be applied to their projects as tags.
- Create a new billing account that only designated users can access.

Question 45

Marek's team is in charge of rendering and encoding video footage for their drone photography app, which has just received a long-term military contract. The footage is uploaded on a regular basis and must be encoded within a two-hour timeframe. Unfortunately, due to cost overruns in other departments, the team budget has been cut. What is the best single option that would allow Marek to accomplish his job and still stay within budget?

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

Question 46

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. What's the best way for Rylee to handle this?

- Store the current agreements in Nearline class and use object lifecycle rules to first move them to Archive class after 36 months and then delete them after 120 months.
- Store the current agreements in Standard class and use object lifecycle rules to first move them to Archive class after 36 months and then delete them after 120 months.
- Store the current agreements in Standard class and use object lifecycle rules to first move them to Coldline class after 36 months and 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 47

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

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

Question 48

Sebastian has a single data source providing response customer cards from a chain of restaurants around the world. He has two teams that want to use the same data source to generate predictions concerning the restaurant chain's future. One team is driven by a data scientist group, and the other by a social trends group unfamiliar with machine learning. How should Sebastian proceed?

- Let each team train their ML model in turn so the data can be used by each team.
- Give the project to the data scientist group and let them train both necessary ML models.
- Use two separate instances of Vertex AI, one for each team.
- Use Vertex AI for both teams and work with the same data source simultaneously.

Question 49

Veda is responsible for shifting her company's VMware workloads to their newly established private cloud. Which Google Cloud VM service should Veda use?

Bare Metal

Anthos

VMWare Engine

Compute Engine

Question 50

Ashe is trying to decide which container-based service he should use on Google Cloud for his new application. He thinks the configuration must be optimized for the application to work at peak efficiency. Which GCP service should Ashe use?

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

Answers

Answer 1

Chames is working with a new machine learning model, which he wants to train and use to generate predictions. What steps must Chames take before he can do this?

Monitor predictions

Prepare data

Selected

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

Manage models

Selected

Models are only managed after they have been deployed and updated.

Create the model

Before he can train the model, he must create it in a language such as Tensorflow.

Answer 2

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

- IaaS

Infrastructure as a Service offers cloud-based alternatives to on-premises, physical infrastructures, and requires the hands-on management and IT experience Laila's team has in place.

- FaaS

Selected

Function as a Service is intended more for microservices and triggering functions than a full-fledged app.

- SaaS

- PaaS

Answer 3

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

- Use containers

Containers run a single operating system in a cluster and launch quicker than VMs, making this the best choice.

- Use six VMs

Selected

Although this is a workable solution, it is not the most efficient answer and is unnecessary.

- Use VMs on a single server

- Use a mix of containers and VMs

Answer 4

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, a photograph of the car's license plate, and the date and time that the car started using the meter. Which type of database should Sreenath choose?

- A data lake

Unstructured data, such as the photograph required here, is stored in a data lake and could be combined with text data.

- A rigid database

- A structured database

Selected

The type of data described would not work well in a structured database.

- A semi-structured database

Answer 5

As the company's lead SRE, Justine is coordinating with the management team on their new SLA. Frank, on the Executive Leadership Team, is advocating for 100% reliability. Which of the following statements should be in Justine's response?

- An SLA of 100% will result in frequent default. Selected

It is standard SRE practice to make the SLA significantly different than the routinely achievable SLO, but not 100%.
- An SLA of 100% is not necessary to maintain good customer relations. Selected

While customers' expectations are high, they do not require 100% availability to be happy.
- An SLA of 100% will ensure continued success. Selected

It's likely that an SLA of 100% would ensure ongoing failure due to inability to meet the target.
- An SLA of 100% is exceedingly costly in terms of effort and resources. Selected

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

Answer 6

Bibi has what he thinks is a really great idea for his company. He wants to gather all the data on their customers' 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 customers' weather-driven needs. Bibi 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 reasons Bibi is wrong?

- This idea would require coordination with local regulatory agencies.
- Bibi's idea requires the use of an API.
 - Weather service reports from around the globe could only be gathered in a timely fashion via an API.
- Bibi's idea requires advanced AI processing.
 - Making predictions based on both existing data and streaming data would most likely require faster processing than is available on an in-house server.
- Bibi's idea requires global connectivity.
 - 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 7

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

- Scan the text with Cloud Vision API to convert the text via OCR, and then use Translate API to transcribe and translate.
- Use AutoTranslateML.
- Transcribe the documents using the Translation API.

Selected

The Translation API requires a text input and would work well in this scenario.
- Transcribe the documents using the Media Translation API.

Answer 8

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?

All authenticated users

Selected

All authenticated users is considered a principal, not a resource in Cloud IAM.

Cloud Storage bucket

Selected

A Cloud Storage bucket is a Cloud IAM resource.

Folder

Folders are considered Cloud IAM resources.

Project

Selected

Projects are Cloud IAM resources.

Answer 9

Catrin's team is building an app that will accept photographs from users and then, after review and approval, make them available to the public for viewing. 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 images into the public bucket first and automatically move them to the staff-only bucket. After approval, move them to the public bucket.
- Store the images in a Cloud Firestore database initially, with a "public" field set to "False". After review, switch the field to "True".
- Store the images in a Cloud SQL database initially, with a "public" field set to "False". After review, switch the field to "True".
- Create two buckets in Cloud Storage, one with staff-only viewing permissions and the other with public permissions. Upload the images into the staff-only bucket and then, after approval, move them to the public bucket. Selected

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

Answer 10

Lynn is coordinating with a partner running Azure Active Directory to allow the service access to one of her company's apps. How should Lynn proceed?

- Use Cloud IAM's workload identity federation option to grant access. Selected
 - External identities, like Azure Active Directory, can be granted access to Google Cloud resources via the workload identity federation feature of Cloud IAM.
- Grant the partner the Owner role for the project and allow them to set up the necessary access for the Azure Active Directory service.
- Create a service account for the Azure Active Directory service and grant it full access to the app's resources.
- Create a service account for the Azure Active Directory service and grant it restricted access to the app's resources.

Answer 11

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

- ✓ What format is the data in?

Firestore works with document-based data, whereas Bigtable is a columnar database.

- ✓ How large is the workload?

Selected

If the workload is sufficiently large, Bigtable would be better choice.

- ✗ Does the project require NoSQL?

Selected

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

- ✓ Is cost an overriding concern?

Selected

Cloud Bigtable is much more expensive to run than Cloud Firestore.

Answer 12

Joey received the most recent billing report for his team and noticed that there were numerous resources that he didn't recognize. What can Joey do to discover what is going on, and how can he prevent this from happening in the future?

- Use Event Threat Detection to identify an IAM anomalous grant.

An IAM anomalous grant detects privileges granted to IAM users and service accounts that are not members of the organization permitted to use resources in Joey's project.

- Use a custom Event Threat Detection rule to identify the person or services using the resources.

- Review the audit logs for his project.

Selected

Reviewing the audit logs will show which user was working with the specific resources and help identify the unauthenticated user.

- Export the billing logs to BigQuery and then analyze them to identify who or what is using his project's resources.

Selected

The billing logs alone would not supply enough information.

Answer 13

Lina needs to create a custom machine learning model that identifies structural defects in wind turbines using drone footage. She has all the video data she needs, but no experience in either AI or ML. What is the best product for Lina to use?

 Video Intelligence API

 AutoML Video

AutoML Video is ideal for creating custom ML models with a video data type, especially for those with no ML or AI experience.

 Vertex AI

Selected

Vertex AI is a possible solution, but requires someone with a great deal of AI and ML expertise.

 AutoML Tables

Answer 14

Jacqui is researching which Google Cloud database service to use for a new major enterprise client who needs extremely fast processing and the highest availability for their global application. What should Jacqui's top choice be?

- Cloud Spanner

Cloud Spanner is a global database system with 99.999% availability, capable of processing 1 billion requests per second.

- Cloud SQL

- BigQuery

- Cloud Bigtable

Selected

Cloud Bigtable has neither the processing power or availability needed.

Answer 15

Horatio is leading the team responsible for migrating his company's virtual machine workloads to GCP. Unfortunately, he doesn't have the luxury of halting the currently running on-premises apps before the cloud versions are up and running. Select the best service to use and the corresponding functionality Horatio can rely on to avoid any downtime.

- Migrate for Anthos and GKE
- The service replicates instance data in the background. Selected
 - Migrate for Compute Engine features the replication of data to GCP to ensure zero interruptions.
- The service provides pre-migration validation with test clone capability.
- Migrate for Compute Engine Selected
 - Migrate for Compute Engine migrates VMs from on-premises to Google Cloud Compute Engine.

Answer 16

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?

Security Admin

Google group

Selected

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

All network users

Selected

While all such users might be authenticated, "all network users" is not a recognized principal by Cloud IAM.

Service account

A service account is used for an application or compute workload instead of an individual end user, but it is still considered a principal.

Answer 17

Stefani is developing an application that calls an API as part of the process. She needs to securely store the API key and then incorporate it when the API request is executed. How should Stefani accomplish this?

- Use Cloud Hardware Security Module to secure the API key and then pass it along when required.
- Use Secret Manager to store the API key as an encrypted string and then pass the decrypted value when the API is called.

Secret Manager is a fully managed service for storing, managing, and accessing secrets as binary blobs or text strings.

Selected
- Use Cloud Key Management Service to store the API key as an encrypted string and then pass the decrypted value when the API is called.
- Store the encrypted key in a database field and retrieve it dynamically as needed.

Answer 18

Following a merger with a financial services company, Carine was reviewing the company's public data and noticed that a great deal of the records they inherited contain both home addresses and credit card numbers. How should Carine react?

- Use Cloud Data Loss Prevention to de-identify the values to protect the customers' 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).

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

Selected

Doing nothing not only increases the risk to the privacy of the users, but it also exposes the company to further data breaches.

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

Answer 19

Kanchan has noticed an issue with his app. Users are reporting a significant, but sporadic, delay when attempting a particular operation. What should Kanchan do first to debug this situation?

- Monitor the logs for the repeated error pattern.
- Use Cloud Trace to identify the problem.
 - Cloud Trace is used for finding latency issues, as in this scenario.
- Create a log metric in Cloud Logging, followed by an alert to notify Kanchan when any log lines match the previously noted pattern.
- Use Cloud Debugger's snapshot feature to capture the call stack.
 - Kanchan might use the snapshot feature of Cloud Debugger as part of the debugging process, but it wouldn't be the initial action.Selected

Answer 20

Amaya is talking to different contractors concerning the new application she wants developed. She wants to be able to develop the app quickly, in such a way that it can be easily deployed and highly scalable, but also ensure that access is highly restricted. How should Amaya proceed?

- Deploy the app to a public cloud platform.

Selected

A public cloud platform would not have the level of restricted access that Amaya is seeking.

- 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.

- Deploy the app to a private cloud platform.

The private cloud offers a far greater ability to scale than using on-premises or colocation facilities, while maintaining stricter access.

- Create the app using containers.

Containers are highly portable and can be deployed locally or on the services of multiple cloud providers.

Answer 21

Christof is making a presentation on Looker for his colleagues. Which statements should he include to describe the service?

- Looker offers a live synchronization and offline mode for real-time collaboration.
- Looker includes integrated built-in and custom data visualizations. Selected

Looker assists in business intelligence by visualizing your data via dashboards.
- Looker handles large amounts of data in a key-value store. Selected

This is a description of Cloud Bigtable, not Looker.
- Looker is a business intelligence software and big data analytics platform.

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

Answer 22

Lore is frustrated. She's just been hired to oversee her company's expansion after a recent migration to the cloud, which everyone is justifiably excited about. However, Lore sees great potential in the company's data that did not make the transition to the cloud. She's preparing a presentation for the board to lay out her ideas on the issue. What arguments should Lore use to convince them of her point of view?

- The legacy data should be migrated to the cloud.

Selected

While we can't know for sure, if the company has already completed their migration, it is likely that all data capable of being migrated already has been.

- The on-premises data cannot connect to the newer cloud systems directly.

Selected

Legacy data is often considered locked and unavailable because of its incompatibility with more modern systems.

- An API could be developed to securely make the legacy data available.

An application programming interface (API) could act as a secure middleman between the legacy data and internal cloud applications, as well as between partners, users, and/or third parties.

- Making the data available has great potential for enhanced revenue.

Selected

Legacy data can often be leveraged to provide additional services to partners, users, and/or third parties.

Answer 23

Quentin is designing an application that relays simple name-value pair information from a big array of smart refrigerators around the world. Which database service should Quentin incorporate in his design?

 BigQuery

Selected

BigQuery is more a data warehouse than a database.

 Cloud Spanner

 Cloud Bigtable

Cloud Bigtable handles data in a key-value store format and supports Internet of Things devices like smart refrigerators.

 Cloud SQL

Answer 24

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

- 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 a Coldline Storage class.
- Use a Cloud Storage bucket with an Archive Storage class.

Selected

PDFs are considered unstructured data, and are best stored in Cloud Storage. The Archive Storage class would allow access at most once a year at the lowest cost.
- Use a NoSQL service such as Cloud Firestore.

Answer 25

Daren has taken over an older website running on Compute Engine. The company has switched to the more secure HTTPS protocol. How would Daren check for mixed content on the page with the older HTTP links?

- Use Web Security Scanner

Web Security Scanner detects key vulnerabilities such as mixed HTTP/HTTPS content in App Engine, Compute Engine, and Kubernetes Engine applications.

- Use Cloud Armor

- Use Cloud Data Loss Prevention

Selected

Cloud Data Loss Prevention is Google Cloud's inspection, classification, and de-identification platform that is used to protect sensitive data.

- Use Event Threat Detection

Answer 26

Kestral needs to set up Cloud IAM access for a number of external database engineers who need access to the project's development team resources. What is the best way for Kestral to establish this access?

- ✗ Create a Google group with the predefined roles for databases and add each of the external consultants to the group.
- ✗ Give each of the external engineers the necessary database predefined roles.
- ✗ Create a Google group with a custom role containing the database-related permissions needed at the team level, and add each of the external engineers to the group.
- ✓ Create a Google group with a custom role containing the database-related permissions needed at the project level, and add each of the external engineers to the group.

Selected

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

Answer 27

Valeriya has a big deadline coming up. By the end of the week, she needs to submit her report detailing the monthly expenses anticipated for the new application her team is preparing to launch. Valeriya has coordinated with the various tech managers to get a full understanding of the infrastructure used. What's her next step?

Use the Recommender to identify idle resources and cut costs

Apply for a committed use discount

Selected

A committed use discount could be an option after the app is live, but that is not the goal here.

Use the Google Cloud Pricing Calculator to gather her estimates

Given the proper resource details, the Pricing Calculator can determine costs for projects before they are underway.

Apply for a sustained use discount

Answer 28

Zain's company is planning on building a replacement cloud-native application, and Zain thinks the best way forward is to build a brand new app, taking into account all the advantages of being cloud-native. What is Zain's approach called?

Lift-and-shift

Invent in Greenfield

Inventing in Greenfield is the process of creating a totally new application without a current one available.

Invent in Brownfield

Lift-after-shift

Selected

Although this is an interesting phrase, it's not one in common use.

Answer 29

Jasleen is overseeing her company's migration to the cloud. Because of the nature of their business, they have decided upon a hybrid approach that allows them to retain on-premises processing for certain data due to regulatory requirements, while deploying other container-based apps that need more rapid scaling to Google Cloud. Jasleen feels it is important to centralize monitoring of all systems for both financial and efficiency reasons. Which of the following Google Cloud services should Jasleen depend upon?

- Anthos

Selected

Anthos is a modern application management platform that supports a consistent development and operations experience for both cloud and on-premises environments.

- Bare Metal
- VMware Engine
- Kubernetes Engine

Answer 30

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?

Hardware

Selected

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

Operations

Selected

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

Privacy

Encryption

Answer 31

Jena is exploring Google Cloud's AutoML services. Which of the following data types are supported by one or more of the services?

Text

AutoML Natural Language uses supervised learning to train computers to recognize patterns from labeled data in a text format.

Video

Selected

AutoML Video Intelligence uses videos to train ML models.

Images

Selected

AutoML Vision works with labeled images to identify content.

PDFs

Selected

The PDF format is not currently supported by AutoML services.

Answer 32

Guillaume's company runs their own data centers to manage their local chain of hardware stores, and are beginning to expand to other offices in the next county. The board is concerned about rising costs of data expansion, and Guillaume has been asked to look into the cloud and recommend their next steps. If Guillaume wants his company to join the digital transformation era, which option should he recommend be considered?

- Public cloud

The public cloud would offer the best fit for Guillaume's company at this point, allowing expansion without increased capital expenditures.

- 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.

- Expand on-premises data centers

- Private cloud

Answer 33

Sade's team has been fending off Distributed Denial of Service attacks for the past week. One member of Sade's team is concerned that these attacks are being orchestrated from within the organization. Which services should Sade use to protect her site and check her team member's suspicions?

Web Security Scanner

Cloud Armor

Selected

Cloud Armor can protect against DDoS attacks through web application firewall rules.

Event Threat Detection

Event Threat Detection can detect outgoing DDoS attacks.

Secret Manager

Selected

Secret Manager would not be helpful in this scenario.

Answer 34

Zeke just got a much-deserved promotion, and he's now in charge of ensuring that his team's app meets all compliance requirements with the Payment Card Industry Data Security Standard. Which Google Cloud service can help Zeke in his new role?

Cloud Data Loss Prevention

Cloud Armor

Event Threat Detection

Selected

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

Cloud Security Command Center

Cloud SCC identifies security compliance violations in the Payment Card Industry Data Security Standard, among others.

Answer 35

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 consider?

- Microservices

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

- VMs

Selected

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

- Serverless

Selected

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

- Containers

Selected

Containers in cloud can also run containers developed locally with a system like Docker.

Answer 36

Apollonia has been alerted by her manager that their app's CPU usage is causing a scale-up that threatens the resource limit. How should Apollonia tackle this problem?

- Use Cloud Profiler to isolate 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.

Cloud Profiler continuously analyzes performance of CPU or memory-intensive functions executed across an application.
- Use Cloud Debugger to identify the CPU surges and then work with the team to reduce usage.

This is not a function of Cloud Debugger.

Selected
- Use Cloud Trace to isolate CPU spikes and then work with the team to reduce usage.

Answer 37

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

- Content Selected
 - Content is always the responsibility of the company.

- Network

- Access and authentication Selected
 - For an IaaS solution such as App Engine, the company is responsible for access and authentication.

- Deployment Selected
 - Since Compute Engine falls into the Infrastructure as a Service category, responsibility for deployment falls to the company.

Answer 38

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 allow Gunner to efficiently access the data?

Cloud SQL

Selected

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

Apigee

Apigee, an API management platform, could access the data securely from the regional centers while maintaining the primary location.

Cloud Firestore

Selected

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

Cloud Spanner

Cloud Spanner is a distributed SQL database management and storage service that provides global transactions and automatic multi-site replication, which could be used for this purpose.

Answer 39

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

Outputs a log detailing the cost of a resource

Displays uptime checks

Selected

Displaying uptime checks is a function of Cloud Monitoring.

Outputs data necessary to visualize logs

This process describes creating metrics for logs, which is a feature of Cloud Logging.

Outputs a log tracing of actions taken by a user on your resources

Selected

Logs like these are referred to as audit logs and are a feature of Cloud Logging.

Answer 40

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 consider?

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

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

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

In order to get past the problems of traditional software development and, notably, build more reliable software quicker, DevOps integrates the previously isolated development and operations pillars.

- Implement 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.

- 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.

Answer 41

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?

- Customers' expectations for reliability and innovation have increased.

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

- The cloud is virtually available at no cost.

Selected

While moving to the cloud means a company's capital expenditures will likely go down, there can be significant operating costs.

- Cloud computing allows businesses to compete globally.

Selected

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

- 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.

Answer 42

After a recent promotion, Gurjas was given the responsibility for developing the CI/CD pipeline for his company's newest serverless application. Which service should Gurjas incorporate into the pipeline?

- Cloud Run

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

- Kubernetes Engine

- Compute Engine

Selected

Compute Engine is not a serverless service.

- Cloud Functions

Answer 43

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?

Internal security threats, such as phishing and social engineering.

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

Scaling

Connectivity

Selected

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

Privacy

Selected

Privacy is arguably the primary security concern.

Answer 44

Lachlan's company rather hurriedly migrated their business to the cloud, and just got their first monthly bill. Yikes! It is costing way more than expected, and Lachlan is the billing administrator. Upon investigation, it seems a great number of resources and services are being used by teams across the company, not just in the development and operations teams. What should Lachlan do?

- ✓ Coordinate with the company's management to use Cloud IAM and limit resource access to only essential personnel.

| Cloud Identity and Access Management (IAM) is the right way to ensure that non-essential access to resources is restricted.

- ✓ Use Recommender to identify non-essential resources and eliminate their use. Selected

| Recommender identifies idle VMs and can help reduce costs.

- ✗ Send the dev and ops teams new billing codes to be applied to their projects as tags. Selected

| This is an unnecessary additional step, as access can be limited to these teams via one of GCP's cloud services.

- ✗ Create a new billing account that only designated users can access.

Answer 45

Marek's team is in charge of rendering and encoding video footage for their drone photography app, which has just received a long-term military contract. The footage is uploaded on a regular basis and must be encoded within a two-hour timeframe. Unfortunately, due to cost overruns in other departments, the team budget has been cut. What is the best single option that would allow Marek to accomplish his job and still stay within budget?

- Apply for a committed use discount

Given the regular nature of the arrival of the source footage and the long-term contract, a committed use discount would be significant.

- Use preemptible virtual machines

- Change the storage class for the processed video to a less expensive one

Selected

While Marek's team is probably responsible for storing the processed video, and moving to a less expensive storage class would save some money, it's not the best of the options available here.

- Apply for a sustained use discount

Answer 46

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. What's the best way for Rylee to handle this?

- Store the current agreements in Nearline class and use object lifecycle rules to first move them to Archive class after 36 months and then delete them after 120 months.
- Store the current agreements in Standard class and use object lifecycle rules to first move them to Archive class after 36 months and then delete them after 120 months.
 - Keeping the agreements in Standard class makes them immediately available, while moving them to Archive and later deleting are cost-effective steps.
- Store the current agreements in Standard class and use object lifecycle rules to first move them to Coldline class after 36 months and 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.
 - Working with PDF documents is best handled through Cloud Storage.

Selected

Answer 47

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

A relational database

One or more relational databases could handle this highly-structured data.

A non-relational database

A data lake

A data warehouse

Selected

A data warehouse is used for a range of structured and semi-structured data which can be assembled and analyzed, but it is not the best option here.

Answer 48

Sebastian has a single data source providing response customer cards from a chain of restaurants around the world. He has two teams that want to use the same data source to generate predictions concerning the restaurant chain's future. One team is driven by a data scientist group, and the other by a social trends group unfamiliar with machine learning. How should Sebastian proceed?

- Let each team train their ML model in turn so the data can be used by each team.
- Give the project to the data scientist group and let them train both necessary ML models.
- Use two separate instances of Vertex AI, one for each team. Selected

Vertex AI supports using the same data source on multiple ML training models simultaneously.

- Use Vertex AI for both teams and work with the same data source simultaneously.

Vertex AI is a unified platform for both AI and ML needs, capable of utilizing the same data source to train multiple ML models, with or without AI expertise.

Answer 49

Veda is responsible for shifting her company's VMware workloads to their newly established private cloud. Which Google Cloud VM service should Veda use?

Bare Metal

Anthos

VMWare Engine

VMWare Engine is best used for VMware-based applications in a private cloud infrastructure.

Compute Engine

Selected

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

Answer 50

Ashe is trying to decide which container-based service he should use on Google Cloud for his new application. He thinks the configuration must be optimized for the application to work at peak efficiency. Which GCP service should Ashe use?

Compute Engine

Selected

Compute Engine does not support containers.

App Engine

Kubernetes Engine

Kubernetes Engine is capable of running Ashe's containerized app and allows full management and configuration.

Cloud Run