



# Google

## Exam Questions Cloud-Digital-Leader

Google Cloud Digital Leader exam

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### NEW QUESTION 1

- (Exam Topic 2)

A developer in your IT team is creating a bucket on Cloud Storage. He is receiving an error that the bucket name already exists. He has checked his project and the few other projects in the organization, The name seems to be entirely unique, What would be the issue?

- A. Bucket names ignore any "." in the name
- B. Look for similar bucket names that have a "." in it.
- C. Previously deleted bucket names in the same project cannot be reused
- D. There must have been an older bucket with the same name.
- E. Bucket names in Cloud storage have to be globally unique
- F. Bucket names are case insensitive- look for bucket names in your org that have a different capitalization.

**Answer:** C

#### Explanation:

Bucket names have to be unique across Google Cloud Platform [GCP], including other organizations and projects.

### NEW QUESTION 2

- (Exam Topic 2)

You're negotiating SLAs with a customer. You have communicated that there will be a 99.99% (four 9s) availability for the service you are providing. Every aspect of the service is under your control. They want to modify the reliability to 99.999% (five 9s). What do you tell them? (Choose two answers)

- A. Yes, that could be possible
- B. If yes, there will be a significantly higher charge because the effort is significantly higher too.
- C. Yes, that is possible, but there will be an additional charge of 9% for the service because that is the additional effort required.
- D. Yes, that is possible
- E. There is hardly any difference to provide another 0.009% availability.
- F. Ask them for the reasonable downtime they are willing to absorb
- G. If it is more than 60 minutes in an entire year, explain how the current SLA meets that requirement.

**Answer:** AD

#### Explanation:

In many cases, customers might not know the implications of the 9s with respect to scheduled maintenance, upgrades, etc. It's possible that they are holding unnecessary expectations that significantly exceed their requirements.

-> Even though 0.0009% increase it looks like a small increment, an addition of a single 9 reduces the possible downtime by 10 times. So the effort is often much greater.

Reference link- [https://en.wikipedia.org/wiki/High\\_availability](https://en.wikipedia.org/wiki/High_availability)

### NEW QUESTION 3

- (Exam Topic 2)

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

- A. Ask the partner to create a Service Account in their project, and have them give the Service Account access to BigQuery in their project.
- B. Create a Service Account in your own project, and grant this Service Account access to BigQuery in your project.
- C. Create a Service Account in your own project, and ask the partner to grant this Service Account access to BigQuery in their project.
- D. Ask the partner to create a Service Account in their project, and grant their Service Account access to the BigQuery dataset in your project.

**Answer:** D

#### Explanation:

- if the need is to authenticate the application to access your dataset, it's the application's service account that will be provided during the authentication, so the service account is to be created at their side to run the application

### NEW QUESTION 4

- (Exam Topic 2)

You are a program manager in a company you need to submit a bare metal solution order for a secure, high performance connection with a low-latency network fabric. What network information do you need to submit the order to Bare Metal Solutions?

- A. IP Ranges for example Client IP Address range used for communication between your Google Cloud and Bare Metal Solution environments.
- B. Google Cloud Project Id that you are using with your bare metal solution environment.
- C. Total number of VLANs you need in your Bare Metal Solution Environment.
- D. All of the above

**Answer:** D

#### Explanation:

What Bare Metal Solution provides

Bare Metal Solution is a managed solution that provides purpose-built HPE or Atos bare-metal servers in regional extensions that are connected to Google Cloud by a managed, high-performance connection with a low-latency network fabric.

With Bare Metal Solution, Google Cloud provides and manages the core infrastructure, the network, the physical and network security, and hardware monitoring capabilities in an environment from which you can access all of the Google Cloud services. The core infrastructure includes secure, controlled-environment facilities, and power.

The Bare Metal Solution also includes the provisioning and maintenance of custom, sole-tenancy servers with local SAN, and smart hands support.

The network, which is managed by Google Cloud, includes a low-latency Partner Interconnect connection into the customer Bare Metal Solution environment.

The available Google Cloud services include private API access, management tools, support, and billing.

**NEW QUESTION 5**

- (Exam Topic 2)

You have a well established development and operations team. Your teams were managing the en-tire software delivery/deployment cycle on-premise. When migrating to the cloud, you want to con-tinue having this approach. Which is the ideal option for you?

- A. PaaS - Platform as a Service
- B. SaaS - Software as a Service
- C. IDaaS - Identity as a Service
- D. IaaS - Infrastructure as a Service

**Answer:** D

**Explanation:**

IaaS - you're given virtualized resources like VMs, Storage, Network. It is your responsibility to manage everything beyond that. This would be similar to what the organization had on-premise.

**NEW QUESTION 6**

- (Exam Topic 2)

A customer in the European Union region is very clear that their data should not go outside the Eu-ropean Union. Their end users are spread all over the European U. They have to choose a storage option that serves all the users within Asia via web browsers as quickly as possible. Which storage option will work for them?

Multi-regions

Multi-Region Name	Multi-Region Description
ASIA	Data centers in Asia
EU	Data centers within <a href="#">member states</a> of the European Union*
US	Data centers in the United States

- A. Cloud Storage with a single region that is known to be within the European U
- B. Cloud Filestore is connected to virtual machines which are guaranteed to be within the European U
- C. Cloud Storage with the multi-region option of European U
- D. Cloud Storage with the dual-region option of European U

**Answer:** C

**Explanation:**

Multi-region option will use multiple datacenters that are within the European Union. More regions will also help with lower latency since users are spread across the European U.

<https://cloud.google.com/storage/docs/locations#considerations>

**NEW QUESTION 7**

- (Exam Topic 2)

Which of the following statements describe the features of a preemptible VM in-stance? (Select Three Answer)

- A. Instance is alive for no more than 12 hours
- B. Can be pre-empted with a 30 minute notice
- C. Can be pre-empted with a 30 second notice
- D. Discounted Significantly
- E. Instance is alive for no more than 24 hours
- F. Can use free tier credits

**Answer:** CDE

**Explanation:**

Instance is alive for no more than 24 hours, Can be pre-empted with a 30 second notice, Discounted Significantly.

Preemptible VM is an instance that you can create and run at a lower cost than normal instances.

However, Compute Engine might stop (pre-empt) these instances if it requires access to those resources for other tasks. Preemptible instances are excess Compute Engine capacity, so their availability varies with usage.

Live at most 24 hours Can be pre-empted with a 30 second notification via API and are Discounted significantly

Reference link- <https://cloud.google.com/compute/docs/instances/preemptible>

**NEW QUESTION 8**

- (Exam Topic 2)

A customer has contacted you about migrating to Google Cloud. The customer would like to mi-grate their data from on premises as soon as possible. They don't have the budget to rewrite code, and they want the most direct route. What migration option should suggest to the customer?

- A. None, since the customer is not cloud native ready.
- B. Rip and Replace
- C. Lift and Shift
- D. Improve and Move

**Answer:** C

**Explanation:**

With Lift and Shift migrations, the customer could move workloads from a source environment to a target environment with few or no modifications or refactoring

**Lift and shift**

In a lift and shift migration, you move workloads from a source environment to a target environment with minor or no modifications or refactoring. The modifications you apply to the workloads to migrate are only the minimum changes you need to make in order for the workloads to operate in the target environment.

A lift and shift migration is ideal when a workload can operate as-is in the target environment, or when there is little or no business need for change. This migration is the type that requires the least amount of time because the amount of refactoring is kept to a minimum.

There might be technical issues that force a lift and shift migration. If you cannot refactor a workload to migrate and cannot decommission the workload, you must use a lift and shift migration. For example, it can be difficult or impossible to modify the source code of the workload, or the build process isn't straightforward so producing new artifacts after refactoring the source code might not be possible.

Lift and shift migrations are the easiest to perform because your team can continue to use the same set of tools and skills that they were using before. These migrations also support off-the-shelf software. Because you migrate existing workloads with minimal refactoring, lift and shift migrations tend to be the quickest, compared to improve and move or remove and replace migrations.

On the other hand, the results of a lift and shift migration are non-cloud-native workloads running in the target environment. These workloads don't take full advantage of cloud platform features, such as horizontal scalability, fine-grained pricing, and highly managed services.

<https://cloud.google.com/architecture/migration-to-gcp-getting-started>

**NEW QUESTION 9**

- (Exam Topic 2)

App Engine has been deployed in your customers GCP cloud deployment. The customer would like to know more about the benefits of App Engine Flexible. Please advise them on the benefits of App Engine Flexible (Select Two Answers)

- A. Supports autoscaling
- B. Supports Docker containers
- C. Supports mainframe connectivity
- D. Source code is written in specific versions of the supported programming languages only

**Answer:** AB

**Explanation:**

Autoscaling is supported in both Flexible and Standard environments. Flexible Environment does run a Docker container that includes a custom runtime or source code written in other programming languages.

Reference link - <https://cloud.google.com/appengine/docs/the-appengine-environments>

**NEW QUESTION 10**

- (Exam Topic 2)

You are working in a company where you need to store Terabytes of Image Data daily and process them e.g. Taking photos of the entire planet 24 hours every day with satellite and sending data to data centres to store and process it. Which of the following would be the best combination for your infrastructure.

You are working in a company where you need to store Terabytes of Image Data daily and process them e.g. Taking photos of the entire planet 24 hours every day with satellite and sending data to data centres to store and process it. Which of the following would be the best combination for your infrastructure.

- A. Bare Metal Solutions with Google Cloud Storage.
- B. Google Cloud Storage & Google Cloud Compute Engines
- C. Google Cloud Storage & Preemptible VMs.
- D. None of the Above

**Answer:** C

**Explanation:**

The above is a real world example of a company named Planet, where they sent around 80+ satellites to take pictures of earth every day, 24 hours. They run around 40,000 preemptible VMs concurrently.

Preemptible instances function like normal instances but have the following limitations:

Compute Engine might stop preemptible instances at any time due to system events. The probability that Compute Engine will stop a preemptible instance for a system event is generally low, but might vary from day to day and from zone to zone depending on current conditions.

Compute Engine always stops preemptible instances after they run for 24 hours. Certain actions reset this 24-hour counter.

Preemptible instances are finite Compute Engine resources, so they might not always be available. Preemptible instances can't live migrate to a regular VM instance, or be set to automatically restart when there is a maintenance event.

Due to the above limitations, preemptible instances are not covered by any Service Level Agreement (and, for clarity, are excluded from the Compute Engine SLA).

The Google Cloud Free Tier credits for Compute Engine do not apply to preemptible instances. Text Description automatically generated

**Important:** Spot VMs are the latest version of preemptible VMs. New and existing preemptible VMs continue to be supported, and preemptible VMs use the same pricing model as Spot VMs. However, Spot VMs provide new features that preemptible VMs do not support. For example, preemptible VMs can only run for up to 24 hours at a time, but Spot VMs do not have a maximum runtime.

[Learn more about Spot VMs and how to create Spot VMs.](#)

Reference link- <https://cloud.google.com/compute/docs/instances/preemptible>

#### NEW QUESTION 10

- (Exam Topic 2)

A large travel company has thus far invested heavily in their technology team. There is strategic pressure on the company to focus on their core business and innovate to survive in certain geographies and thrive in others. They are evaluating whether a move to Google Cloud will be good for them. Which of these reasons would be relevant for them? (choose two answer)

- A. Application architecture won't be too involved because of serverless options.
- B. The IT team won't have to manage software upgrades, security patches, et
- C. for the VMs.
- D. The IT team won't have to work on procuring and provisioning new hardware and refreshes to existing hardware.
- E. Budgeting won't be an issue since the cloud takes care of billing.

**Answer:** BC

#### NEW QUESTION 15

- (Exam Topic 1)

Your large and frequently changing organization's user information is stored in an on-premises LDAP database. The database includes user passwords and group and organization membership.

How should your organization provision Google accounts and groups to access Google Cloud resources?

- A. Replicate the LDAP infrastructure on Compute Engine
- B. Use the Firebase Authentication REST API to create users
- C. Use Google Cloud Directory Sync to create users
- D. Use the Identity Platform REST API to create users

**Answer:** C

#### Explanation:

You can run a single instance of Google Cloud Directory Sync to synchronize user accounts and groups to Google Cloud.

Reference: <https://cloud.google.com/architecture/identity/federating-gcp-with-active-directory-introduction> Text Description automatically generated  
<https://support.google.com/a/answer/106368?hl=en>

#### NEW QUESTION 18

- (Exam Topic 1)

A fitness band company is continuously ingesting data from millions of its consumers. Different kinds of data based on time, like location, heartbeat rate, temperature, movement, etc. are connect-ed. They need a high throughput database that can write data very fast. Since their users are spread across the world, they need the database to be geographically scalable. Consumers also want to see near-real-time visualizations of their activities. Which of these databases would be a good fit?

- A. Cloud SQL
- B. Bigtable
- C. Spanner
- D. Firestore

**Answer:** B

#### Explanation:

Bigtable is the best suited for time series data. It also has high read-write throughput and ability to scale globally.

#### NEW QUESTION 22

- (Exam Topic 1)

An organization has had a data leak scare because one employee made a sensitive Cloud Storage bucket available to the public. Given the nature of the company's business, it is understood that there is never any reason to give the public direct access to any file. The security head wants to ensure that such an event never occurs again. How can you ensure this?

- A. Remove Edit access rights of all Cloud Storage buckets so that no user can make any edits.
- B. Set an organizational policy constraint to restrict bucket access set to the public.
- C. Use Cloud Scheduler to run a job at a specified interval to scan bucket
- D. Any public permissions can be programmatically changed.
- E. Write Cloud Functions code connected to Cloud Storag
- F. Any changes will be notified to the function which can be used to reset the public access.

**Answer:** B

#### Explanation:

The straightforward way to set it is using Organizational Policy constraint. Any attempts to change the organizational setting will be rejected for any project and resource.

Graphical user interface, text, application, email Description automatically generated

# Introduction to the Organization Policy

Send feedback

## Service

The Organization Policy Service gives you centralized and programmatic control over your organization's cloud resources. As the [organization policy administrator](#), you will be able to configure constraints across your entire [resource hierarchy](#).

### Benefits

- Centralize control to configure restrictions on how your organization's resources can be used.
- Define and establish guardrails for your development teams to stay within compliance boundaries.
- Help project owners and their teams move quickly without worry of breaking compliance.

References link:

-> <https://cloud.google.com/resource-manager/docs/organization-policy/overview>

-> <https://cloud.google.com/resource-manager/docs/organization-policy/org-policy-constraints>

### NEW QUESTION 25

- (Exam Topic 1)

Your organization needs to establish private network connectivity between its on-premises network and its workloads running in Google Cloud. You need to be able to set up the connection as soon as possible.

Which Google Cloud product or feature should you use?

- A. Cloud Interconnect
- B. Direct Peering
- C. Cloud VPN
- D. Cloud CDN

**Answer: A**

#### Explanation:

Private Google Access for on-premises hosts provides a way for on-premises systems to connect to Google APIs and services by routing traffic through a Cloud VPN tunnel.

Reference: <https://cloud.google.com/vpc/docs/configure-private-google-access-hybrid>

### NEW QUESTION 26

- (Exam Topic 1)

You are migrating workloads to the cloud. The goal of the migration is to serve customers worldwide as quickly as possible. According to local regulations, certain data is required to be stored in a specific geographic area, and it can be served worldwide. You need to design the architecture and deployment for your workloads.

What should you do?

- A. Select a public cloud provider that is only active in the required geographic area
- B. Select a private cloud provider that globally replicates data storage for fast data access
- C. Select a public cloud provider that guarantees data location in the required geographic area
- D. Select a private cloud provider that is only active in the required geographic area

**Answer: C**

#### Explanation:

The goal of the migration is to serve customers worldwide as quickly as possible. According to local regulations, certain data is required to be stored in a specific geographic area, and it can be served worldwide. This characteristic is inherent to the public cloud provider.

### NEW QUESTION 31

- (Exam Topic 1)

Your company's development team is building an application that will be deployed on Cloud Run. You are designing a CI/CD pipeline so that any new version of the application can be deployed in the fewest number of steps possible using the CI/CD pipeline you are designing. You need to select a storage location for the images of the application after the CI part of your pipeline has built them.

What should you do?

- A. Create a Compute Engine image containing the application
- B. Store the images in Container Registry
- C. Store the images in Cloud Storage
- D. Create a Compute Engine disk containing the application

**Answer: B**

#### Explanation:

Reference: <https://cloud.google.com/container-registry/docs/pushing-and-pulling>

### NEW QUESTION 36

- (Exam Topic 1)

An organization wants to scale their existing virtual machine architecture as quickly as possible. Why should the organization use VMware Engine?

- A. To archive virtual machine instances.
- B. To deploy custom APIs seamlessly.
- C. To migrate virtual machines to containers.
- D. To replatform virtual machines as they are.

**Answer:** D

**Explanation:**

VMware Engine helps migrate and run virtual machines in Google Cloud with minimal changes to the VM architecture. Table Description automatically generated with medium confidence

A virtual machine (VM) is a digital version of a physical computer. Virtual machine software can run programs and operating systems, store data, connect to networks, and do other computing functions, and requires maintenance such as updates and system monitoring. Multiple VMs can be hosted on a single physical machine, often a server, and then managed using virtual machine software. This provides flexibility for compute resources (compute, storage, network) to be distributed among VMs as needed, increasing overall efficiency. This architecture provides the basic building blocks for the advanced virtualized resources we use today, including cloud computing.

Learn about virtual machines and [VM family types](#) that are available with [Compute Engine](#), the cloud-based computing infrastructure from Google Cloud.

<https://cloud.google.com/learn/what-is-a-virtual-machine>

**NEW QUESTION 41**

- (Exam Topic 1)

An organization currently stores its data on-premises and they receive different levels of traffic on their website every month. How could the organization benefit from modernizing their infrastructure with cloud technology?

- A. They can rely on the cloud provider for all website source code.
- B. Agile storage scalability.
- C. 100% service availability.
- D. They can shift from heavy operational expenditure to a capital expenditure model.

**Answer:** B

**Explanation:**

Organizations can scale in the cloud by paying for what they use, when they use it.

**NEW QUESTION 44**

- (Exam Topic 1)

An organization wants to dynamically adjust its application to serve different user needs. What are the benefits of storing their data in the cloud for this use case?

- A. Data can be stored in archive for long term access
- B. Automatic data cleaning and validation
- C. Real-time data ingestion and analysis
- D. No data access management required

**Answer:** C

**Explanation:**

By storing their application data in the cloud the organization will be able to gather and analyze user behavior data in real-time. This will enable them to dynamically adjust their application for different user needs.

**NEW QUESTION 48**

- (Exam Topic 1)

An organization wants to move from a strategic cloud adoption maturity level to a trans-formational one. How should the organization change the way they scale?

- A. None of these
- B. Deploy changes when problems arise.
- C. Deploy changes programmatically.
- D. Review changes manually.

**Answer:** C

**Explanation:**

Because automation is a transformational approach which ensures changes are constant and low-risk.

#### NEW QUESTION 51

- (Exam Topic 1)

Each of the three cloud service models - infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS) - offers benefits between flexibility and levels of management by the cloud provider and the customer.

Why would SaaS be the right choice of service model?

- A. You want a balance between flexibility for the customer and the level of management by the cloud provider
- B. You want to minimize the level of management by the customer
- C. You want to maximize flexibility for the customer.
- D. You want to be able to shift your emphasis between flexibility and management by the cloud provider as business needs change

**Answer: B**

#### Explanation:

Benefits of SaaS

The main benefit of SaaS is that it offloads all infrastructure and application management to the SaaS vendor. Reference: <https://www.ibm.com/cloud/learn/iaas-paas-saas>

#### NEW QUESTION 56

- (Exam Topic 1)

Which of the following statements is/are correct about Bare Metal Solutions?

- A. The network, which Google Cloud manages includes a low-latency Cloud Inter-connect connection into the customer Bare Metal Solution environment.
- B. Bare Metal Solution also includes the provisioning and maintenance of the custom, sole-tenancy hardware with local SAN, and smart hands support.
- C. Bare Metal Solution uses a bring-your-own-license (BYOL) model.
- D. All of the Above.

**Answer: D**

#### Explanation:

Option A is true

You are responsible for the licensing of all of your software. Bare Metal Solution uses a bring-your-own-license (BYOL) model.

Apart from this you are responsible for the software, applications, and data that you use and store in the Bare Metal Solution environment.

Responsibilities Data, including:

- Security and encryption
- Backups

Software and applications, including:

- Installation
- Configuration
- Upgrades and patching

Operating system and any hypervisor, including:

- Configuration changes
- Upgrades and patching Server clusters, including:
  - Installation
  - Configuration
  - Maintenance Licensing

Option B & C is also true.

With Bare Metal Solution, Google Cloud provides and manages the core infrastructure, the network, the physical and network security, and hardware monitoring capabilities in an environment from which you can access all of the Google Cloud services. The core infrastructure includes secure, controlled-environment facilities, and power.

The Bare Metal Solution also includes the provisioning and maintenance of the custom, sole-tenancy hardware with local SAN, and smart hands support.

The network, which is managed by Google Cloud includes a low-latency Cloud Interconnect connection into the customer Bare Metal Solution environment.

The available Google Cloud services include private API access, management tools, support, and billing.

#### NEW QUESTION 59

- (Exam Topic 1)

An organization has created an ecommerce website. What data on this website would be considered structured data?

- A. Product photographs
- B. Product reviews
- C. Product descriptions
- D. Product ratings score

**Answer: D**

#### Explanation:

Because product ratings are structured because they are numerical scores.

#### NEW QUESTION 60

- (Exam Topic 1)

Which Google Cloud product can report on and maintain compliance on your entire Google Cloud organization to cover multiple projects?

- A. Cloud Logging
- B. Identity and Access Management
- C. Google Cloud Armor
- D. Security Command Center

**Answer: D**

**Explanation:**

Security Command Center is a centralized security and risk management platform for your Google Cloud resources. It is a single tool that offers a variety of security features including:

- \* 1. Gain centralized visibility and control
- \* 2. Discover misconfigurations and vulnerabilities
- \* 3. Report on and maintain compliance
- \* 4. Detect threats targeting your Google Cloud assets <https://cloud.google.com/security-command-center>

**NEW QUESTION 62**

- (Exam Topic 1)

Your company security team manages access control to production systems using an LDAP directory group. How is this access control managed in the Google Cloud production project?

- A. Assign the proper role to the Service Account in the project's IAM Policy
- B. Grant each user the roles/iam.serviceAccountUser role on a service account that exists in the Google Group.
- C. Assign the proper role to the Google Group in the project's IAM Policy.
- D. Create the project in a folder with the same name as the LDAP directory group.

**Answer: C**

**Explanation:**

Reference:

<https://cloud.google.com/blog/products/identity-security/achieving-identity-and-access-governance-on-google-c>  
Text, letter Description automatically generated

**NEW QUESTION 66**

- (Exam Topic 1)

– basically, anything that you may require from the project

Your organization wants to run a container-based application on Google Cloud. This application is expected to increase in complexity. You have a security need for fine-grained control of traffic between the containers. You also have an operational need to exercise fine-grained control over the application's scaling policies. What Google Cloud product or feature should your organization use?

- A. Google Kubernetes Engine cluster
- B. App Engine
- C. Cloud Run
- D. Compute Engine virtual machines

**Answer: A**

**Explanation:**

Google Kubernetes Engine GKE seems a better fit since the requirement is for "security need for fine-grained control of traffic between the containers" and "fine-grained control over scaling policies". Such level of control is easier on GKE than Cloud Run.

Text Description automatically generated

When it comes to managed Kubernetes services, Google Kubernetes Engine (GKE) is a great choice if you are looking for a **container orchestration platform** that offers advanced scalability and configuration flexibility. GKE gives you complete control over every aspect of container orchestration, from networking, to storage, to how you set up observability—in addition to supporting stateful application use cases. However, if your application does not need that level of cluster configuration and monitoring, then fully managed **Cloud Run** might be the right solution for you.

Fully managed Cloud Run is an ideal **serverless platform** for stateless containerized microservices that don't require Kubernetes features like namespaces, co-location of containers in pods (sidecars) or node allocation and management.

Reference

link- <https://cloud.google.com/blog/products/containers-kubernetes/when-to-use-google-kubernetes-engine-vs>

**NEW QUESTION 71**

- (Exam Topic 1)

Your organization is developing and deploying an application on Google Cloud. Tracking your Google Cloud spending needs to stay as simple as possible. What should you do to ensure that workloads in the development environment are fully isolated from production workloads?

- A. Apply a unique tag to development resources
- B. Associate the development resources with their own network
- C. Associate the development resources with their own billing account
- D. Put the development resources in their own project

**Answer: D**

**Explanation:**

Reference: <https://www.deps.co/blog/google-cloud-platform-good-bad-ugly/>

Project resources are components that are necessary for successful project implementation. They include people, equipment, money, time, knowledge

planning to the project delivery phases.

#### NEW QUESTION 72

- (Exam Topic 1)

Your organization needs to process large amounts of data from an online application that operates continuously. You do not want to be required to provision infrastructure or create server clusters. What should your organization choose?

- A. Compute Engine with BigQuery
- B. Dataproc
- C. Google Kubernetes Engine with Cloud Bigtable
- D. Dataflow

**Answer:** D

#### Explanation:

You do not want to be required to provision infrastructure or create server clusters. Because Unified stream and batch data processing that's serverless, fast, and cost-effective.

Reference link- <https://cloud.google.com/dataflow>

#### NEW QUESTION 76

- (Exam Topic 1)

An organization's applications run on an inflexible, on-premises architecture. The organization has decided to modernize their existing applications with the cloud. What may have prompted this business decision?

- A. Developers want cloud providers to take full control of their application performance.
- B. IT managers want cloud providers to automatically deploy their infrastructure.
- C. IT managers want to stop making gradual changes.
- D. Developers want to test ideas and experiment with more ease.

**Answer:** D

#### Explanation:

Modernizing applications means they can make alterations and innovate more easily.

#### NEW QUESTION 77

- (Exam Topic 1)

Your customer has reliable information to indicate that they will use a certain amount of computing and analytics. The workloads are critical and they don't want to take a chance with VMs or BigQuery slots being unavailable during a peak period. How can they ensure that they allocate the capacity?

- A. Send in the filled form to Google Cloud support to reserve the Compute Engine and BigQuery resources required.
- B. Create reservations on Compute Engine and BigQuery.
- C. On the day the capacity is required, set a scheduled job that will provision as many resources as required and lock it in.
- D. Google Cloud is elastic for resource
- E. You cannot reserve resources in advance; it is pay per use.

**Answer:** B

#### Explanation:

Create reservations on Compute Engine and BigQuery. You can reserve capacity in advance and use it over a period of time. You could also get a cost advantage.

=> There is no need for involved support. It is self-serve via the console.

=> You can reserve resources in advance when you have the need for it. And when you want to take a pay-per-use approach, that is also possible.

=> It is not a good idea to be lock in/hoard resources; you'll pay unnecessarily for resources. Also, it is difficult to time exactly when the demand will be.

References:

<https://cloud.google.com/compute/docs/instances/reserving-zonal-resources> <https://cloud.google.com/bigquery/docs/reservations-intro>

#### NEW QUESTION 82

- (Exam Topic 1)

Your application is onboarding a number of users. The details of the users vary widely. What kind of database would be most suitable for this use case?

- A. NoSQL database like Firestore
- B. OLAP database like BigQuery which support SQL
- C. SQL database like MySQL or PostgreSQL
- D. OLTP database like Cloud Spanner

**Answer:** A

#### Explanation:

\* 1. NoSQL databases are best suited for this use case. Firestore is an appropriate one to use here

\* 2. Cloud Firestore is a NoSQL document database that lets you easily store, sync, and query data for your mobile and web apps - at global scale.

#### NEW QUESTION 83

- (Exam Topic 1)

Your organization wants to optimize its use of Google Cloud's discounts on virtual machine-based workloads. You plan to use 200 CPUs constantly for the next 3 years, and you forecast that spikes of up to 300 CPUs will occur approximately 30% of the time. What should you choose?

- A. 1-year committed use discount for 200 CPUs
- B. 3-year committed use discount for 300 CPUs

- C. 3-year committed use discount for 200 CPUs
- D. Regular pay-as-you-go pricing

**Answer: C**

**Explanation:**

you can get a 57% discount by agreeing to commit to a 3-year contract. Any usage over the commitment will just be billed at the standard rate. Since they only need 300 CPUs 30% of the time, will pick answer C so that we are not paying usage off 300 CPUs all of the time. This gives us a discount of 57% for 200 CPU's, huge cost savings.

**NEW QUESTION 87**

- (Exam Topic 1)

Your organization needs to allow a production job to have access to a BigQuery dataset. The production job is running on a Compute Engine instance that is part of an instance group.

What should be included in the IAM Policy on the BigQuery dataset?

- A. The Compute Engine instance group
- B. The project that owns the Compute Engine instance
- C. The Compute Engine service account
- D. The Compute Engine instance

**Answer: C**

**Explanation:**

When an identity calls a Google Cloud API, BigQuery requires that the identity has the appropriate permissions to use the resource. You can grant permissions by granting roles to a user, a group, or a service account.

Reference link- <https://cloud.google.com/bigquery/docs/access-control>

**NEW QUESTION 88**

- (Exam Topic 1)

Your organization consists of many teams. Each team has many Google Cloud projects. Your organization wants to simplify the management of identity and access policies for these projects.

How can you group these projects to meet this goal?

- A. Group each team's projects into a separate domain
- B. Assign labels based on the virtual machines that are part of each team's projects
- C. Use folders to group each team's projects
- D. Group each team's projects into a separate organization node

**Answer: C**

**Explanation:**

Text Description automatically generated with medium confidence

Folders are nodes in the [Cloud Platform Resource Hierarchy](#). A folder can contain projects, other folders, or a combination of both. Organizations can **use folders to group projects** under the organization node in a hierarchy. For example, your organization might contain multiple departments, each with its own set of Google Cloud resources. Folders allow you to group these resources on a per-department basis. Folders are used to group resources that share common IAM policies. While a folder can contain multiple folders or resources, a given folder or resource can have exactly one parent.

<https://cloud.google.com/resource-manager/docs/creating-managing-folders>

**NEW QUESTION 93**

- (Exam Topic 1)

Your organization wants to migrate your on-premises environment to Google Cloud. The on-premises environment consists of containers and virtual machine instances. Which Google Cloud products can help to migrate the container images and the virtual machine disks?

- A. Compute Engine and Filestore
- B. Artifact Registry and Cloud Storage
- C. Dataflow and BigQuery
- D. Pub/Sub and Cloud Storage

**Answer: A**

**Explanation:**

Reference: <https://cloud.google.com/compute/docs/import/importing-virtual-disks> Graphical user interface, text, application, email Description automatically generated

**NEW QUESTION 94**

- (Exam Topic 1)

Your organization runs a distributed application in the Compute Engine virtual machines. Your organization needs redundancy, but it also needs extremely fast communication (less than 10 milliseconds) between the parts of the application in different virtual machines.

Where should your organization locate this virtual machines?

- A. In a single zone within a single region

- B. In different zones within a single region
- C. In multiple regions, using one zone per region
- D. In multiple regions, using multiple zones per region

**Answer:** B

**Explanation:**

Multi zone is also redundant within the region and it provides the lowest latency.

Reference link:

<https://cloud.google.com/solutions/best-practices-compute-engine-region-selection>

**NEW QUESTION 98**

- (Exam Topic 1)

Which of the following options is/are correct about Preemptible VMs?

- A. Preemptible VMs don't have fixed pricing.
- B. Both A & B
- C. None of the Above.
- D. You can not use Preemptible VMs at fault-tolerant workloads such as high-performance computing, big data and analytics, continuous integration/continuous delivery (CI/CD), rendering/transcoding, and testing.

**Answer:** C

**Explanation:**

Preemptible VMs: Predictable and low cost

Preemptible VMs are up to 80% cheaper than regular instances. Pricing is fixed so you will always get low cost and financial predictability, without worrying about variable market pricing.

Expand your batch processing

Supplement your regular VMs with lower-cost, preemptible instances to finish your compute-intensive work faster, saving you time and money. Throw preemptible VMs at fault-tolerant workloads such as high performance computing, big data and analytics, continuous integration/continuous delivery (CI/CD), rendering/transcoding, and testing.

Get more from your containers

Containers are naturally stateless and fault tolerant, making them a great fit for preemptible VMs! You save on your containerized workloads today with these affordable compute instances. Take advantage of Google Kubernetes Engine for your containerized workloads and Managed Instance Groups to painlessly and seamlessly recover from preemptions.

Enable it instantly

Simply add --preemptible to the gcloud command line and you're off to the races. There's no bidding to code for, and with per-second billing, just shut down your VMs as soon as you're done.

**NEW QUESTION 100**

- (Exam Topic 1)

Your team is using BigQuery as your central data warehouse. You are running a certain workload that you've run frequently over the last few days. It is a short, high capacity ana-lytics workload. Which of the following would be an appropriate pricing model to use?

- A. There is no need for any pricing model the first 1 TB of query data processed per month is free.
- B. On-demand pricing
- C. Flex Slots
- D. Flat-rate reservations

**Answer:** C

**Explanation:**

Option A is Correct- BigQuery Flex Slots for cyclical workloads that require extra capacity, or for workloads that need to process a lot of data in a short time, and so would be less expensive to run using reserved slots for a short time.

**NEW QUESTION 105**

- (Exam Topic 1)

Your multinational organization has servers running mission-critical workloads on its premises around the world. You want to be able to manage these workloads consistently and centrally, and you want to stop managing infrastructure.

What should your organization do?

- A. Migrate the workloads to a public cloud
- B. Migrate the workloads to a central office building
- C. Migrate the workloads to multiple local co-location facilities
- D. Migrate the workloads to multiple local private clouds

**Answer:** A

**Explanation:**

Only public cloud offers to centrally manage the infra. for Pvt cloud it may not be possible to get same Pvt Cloud provider across the globe.

**NEW QUESTION 110**

- (Exam Topic 1)

Your customer is making a decision on whether to move to Google Cloud. Their key concern is about 10,000 VMs that are part of their IT infrastructure used across more than 110 applications. They are apprehensive of too many changes at this stage. They want to get to Google Cloud in the easiest way possible with minimal disruption. What option would you recommend for them?

- A. Use Migrate for Anthos

- B. Lift and shift the VMs to serverless options like App Engine Flex.
- C. Re-architect on-prem to use Kubernetes and then slowly extend and bridge the on-prem data center to the Google Cloud data center.
- D. Use Migrate for Compute

**Answer:** D

**Explanation:**

Migrate for Compute Engine's advanced replication migration technology copies instance data to Google Cloud in the background with no interruptions to the source workload that's running.

Text Description automatically generated

Cloud migration creates a lot of questions. Migrate for Compute Engine by Google Cloud has the answers. Whether you're looking to migrate one application from on-premises or one thousand enterprise-grade applications across multiple data centers, Migrate for Compute Engine gives any IT team, large or small, the power to migrate their workloads to Google Cloud.

Watch the video to your right to hear what one of our customers, Rackspace Technology, thinks about Migrate for Compute Engine's speed and ease of use.

<https://cloud.google.com/migrate/compute-engine>

**NEW QUESTION 112**

- (Exam Topic 1)

Your organization runs all its workloads on Compute Engine virtual machine instances. Your organization has a security requirement: the virtual machines are not allowed to access the public internet. The workloads running on those virtual machines need to access BigQuery and Cloud Storage, using their publicly accessible interfaces, without violating the security requirement.

Which Google Cloud product or feature should your organization use?

- A. Identity-Aware Proxy
- B. Cloud NAT (network address translation)
- C. VPC internal load balancers
- D. Private Google Access

**Answer:** D

**Explanation:**

VM instances that only have internal IP addresses (no external IP addresses) can use Private Google Access. They can reach the external IP addresses of Google APIs and services. The source IP address of the packet can be the primary internal IP address of the network interface or an address in an alias IP range that is assigned to the interface. If you disable Private Google Access, the VM instances can no longer reach Google APIs and services; they can only send traffic within the VPC network.

## Configuring Private Google Access 🔖

[Send feedback](#)

By default, when a Compute Engine VM lacks an external IP address assigned to its network interface, it can only send packets to other internal IP address destinations. You can allow these VMs to connect to the set of external IP addresses used by [Google APIs and services](#) by enabling Private Google Access on the subnet used by the VM's network interface.

Private Google Access also allows access to the external IP addresses used by App Engine, including third-party App Engine-based services.

To view the eligible APIs and services that you can use with Private Google Access, see [supported services](#) in the Private Google Access overview.

See [Private Access Options for Services](#) for background information about Private Google Access and other private connectivity options offered by Google Cloud.

### Specifications

A VM interface can send packets to the external IP addresses of Google APIs and services using Private Google Access if all these conditions are met:

- The VM interface is connected to a subnet where Private Google Access is enabled.
- The VPC network that contains the subnet meets the [network requirements for Google APIs and services](#).
- The VM interface does not have an external IP address assigned.
- The source IP address of packets sent from the VM matches one of the following IP addresses.

If you're sending packets to the [default domains](#):

- The VM interface's primary internal IPv4 address
- The VM interface's internal IPv6 address
- An internal IPv4 address from an alias IP range

<https://cloud.google.com/vpc/docs/configure-private-google-access>

#### NEW QUESTION 113

- (Exam Topic 1)

An organization has completely migrated all their infrastructure to the cloud to benefit from its agility. Now they want to innovate faster and achieve a higher return on investment. What should the organization do?

- Manually provision all cloud infrastructure for increased control.
- Modernize their applications.
- Lower their service level objective (SLO).
- Move to a hybrid architecture with some of their infrastructure on-premises.

**Answer: B**

#### Explanation:

Because this will enable the business to better serve their users.

#### NEW QUESTION 116

- (Exam Topic 1)

Your organization meant to purchase a 3-year Committed Use Discount, but accidentally purchased a 1-year Committed Use Discount instead. What should your organization do?

- Contact your financial institution.
- Contact Trust and Safety.
- Contact Cloud Billing Support.
- Contact Technical Support.

**Answer: C**

#### Explanation:

Graphical user interface, text, application Description automatically generated

★ **Important:** Once you enable discount sharing through the console, you can only disable it with the assistance of **Cloud Billing support**. If you disable discount sharing with the assistance of Cloud Billing support, all committed use discounts revert to the default setting of applying only to the projects through which with they were purchased. The reverted setting becomes effective at the beginning of the following month.

## Combining reservations with commitments

A committed use discount provides a 1- or 3-year discounted price agreement, but it does not reserve capacity in a specific zone. A reservation ensures that capacity is held in a specific zone even if the reserved VMs are not running. By combining a reservation with a commitment, you get discounted, reserved resources.

<https://cloud.google.com/compute/docs/instances/signing-up-committed-use-discounts>

### NEW QUESTION 120

- (Exam Topic 1)

A Multiple projects within your organization have long-term VM usage. Based on current demand, they are able to project into the future and estimate how many VM hours they will use every year. Going in for a committed use contract seems sensible. How can you configure committed use easily across all the projects?

- A. Enable committed use with discount sharing for the projects
- B. Review the usage of resources by each project on a daily basis
- C. Enable committed use for the following day based on that number, so that it gives maximum granularity without wastage.
- D. Take a report of each project's use in the last year
- E. Enable committed use on a per-project basis based on the previous year's numbers.
- F. Share a Google Sheet and request each project team to send in their estimate
- G. Enable committed use accordingly on a per-project basis.

**Answer:** A

#### Explanation:

Enable committed use discounts are applied to the project from which you purchased it. To share the discount across multiple projects linked to your Cloud Billing account, enable committed use discount sharing from the console. When you enable committed use discount sharing, all of your current active committed use discounts in all the projects under the same Cloud Billing account, including those you previously purchased and new ones you purchase in the future are shared across your Cloud Billing account. Your sustained use discounts are also pooled and shared across all projects within your Cloud Billing account.

### NEW QUESTION 124

- (Exam Topic 1)

You are working with the head of the IT team and planning the move of computing systems. The questionnaire indicates that they have a reporting application that runs almost 24 hours every day of the week. When there is extra load, it queues up the processing and executes tasks when there is less demand. Which of these compute options would you recommend for them?

- A. Use a serverless option - App Engine Standard for Flex
- B. Use a server-based option - Compute Engine.
- C. Use a serverless option - Cloud Functions
- D. Serverless option - Cloud Run

**Answer:** C

#### Explanation:

- Because Compute Engine VMs are the preferred compute option as they are long-running.

### NEW QUESTION 129

- (Exam Topic 1)

Your organization wants to migrate its data management solutions to Google Cloud because it needs to dynamically scale up or down and to run transactional SQL queries against historical data at scale. Which Google Cloud product or service should your organization use?

- A. BigQuery
- B. Cloud Bigtable
- C. Pub/Sub
- D. Cloud Spanner

**Answer:** D

#### Explanation:

Reference: <https://cloud.google.com/terms/services>

Cloud Spanner is a fully-managed, mission-critical relational database service. It is designed to provide a scalable online transaction processing (OLTP) database with high availability and strong consistency at global scale

### NEW QUESTION 132

- (Exam Topic 1)

The government has ordered an audit of your company's data. You have hired an external company to conduct the audit. They need to be able to review the data stored in your Cloud Storage buckets across eight projects. How would you grant them access?

- A. Give the auditors an Owner role on the eight buckets so that they have proper access.
- B. Give them Storage Object Viewer access to the buckets in those eight projects.
- C. They might need access to all projects as the audit progresses; so give them access to all Storage buckets so that you don't have to do it repeatedly later on.
- D. They might need access to all projects as the audit progresses; so give them the Editor role on all Storage buckets so that you don't have to do it repeatedly later on.

**Answer: B**

**Explanation:**

Apply the Principle of Least Privilege and only provide read permissions on only the required buckets. No more, no less  
<https://cloud.google.com/storage/docs/access-control/iam-roles>

**NEW QUESTION 133**

- (Exam Topic 1)

Your organization wants an economical solution to store data such as files, graphical images, and videos and to access and share them securely. Which Google Cloud product or service should your organization use?

- A. Cloud Storage
- B. Cloud SQL
- C. Cloud Spanner
- D. BigQuery

**Answer: A**

**Explanation:**

- Google Storage is GCP's version of AWS Simple Storage Service (S3) and an S3 bucket would be equivalent to a Google Storage bucket across the two clouds  
Text Description automatically generated

Despite many external solutions for digital files, some people still store their photos, videos, and content files on their desktop or laptop. The only problem with this method is that your computer can quickly become cluttered with thousands of files. It slows your prized piece of hardware (computer) down.

When you want to find a digital file you probably *expect* that file to come flying up on your screen in an instant. Yet -- anyone who keeps a lot of photos on a computer knows it can take minutes, sometimes hours, to find one - even if you keep it on your desktop. It's just not all that convenient to store things this way. Most importantly, just storing these digital files on a desktop leaves them vulnerable to viruses, damage, or theft. Folks who rely on this also generally don't have a back-up plan.

**NEW QUESTION 136**

- (Exam Topic 1)

Your company provides car maintenance services. It is conducting an internal hackathon to identify new ideas that could expand their business. The teams have pitched different ideas and have started working on it. They have to present their application to the judges within 48 hours. A presentation alone is not enough; they have to demonstrate a working proof of concept. The team that you are mentoring is going to recommend additional services to drive in customers based on the brand of car they drive in. They need to be able to identify what brand of car the customer has, based on a photograph automatically taken at entry. They have already discovered an open source database of car images collected by online enthusiasts. How should they implement this solution?

- A. Use Deep Learning Containers that are preconfigured and optimized containers for deep learning environments.
- B. Use AutoML Image - upload the images and let it create a working model for you.
- C. Use TensorFlow to create a model that will identify the car brands; use the available data to train the model.
- D. Use Cloud Vision AI that is able to detect logo
- E. Write only the code to integrate in-to your workflow.

**Answer: B**

**Explanation:**

It would be most straightforward to use AutoML Image. Put the images in Cloud Storage, point to it from AutoML, and start the model building process.  
Reference Link- <https://cloud.google.com/automl>

**NEW QUESTION 137**

- (Exam Topic 1)

An organization wants to search for and share plug-and-play AI components which can easily build ML services into their project. Which Google Cloud product should the organization use?

- A. Document AI
- B. AI Hub
- C. Cloud Talent Solution
- D. Recommendations AI

**Answer: B**

**Explanation:**

Because AI Hub is a hosted repository of plug-and-play AI components. Reference link:- <https://cloud.google.com/ai-hub/docs/release-notes>

**NEW QUESTION 140**

- (Exam Topic 1)

A prospect wants to be able to store and analyze data. Their analysts already know SQL, but are not familiar with other technologies. Which of these databases can the analysts use without additional training?

- A. Cloud SQL, BigQuery, Datastore
- B. Spanner, Cloud SQL, BigQuery
- C. Cloud SQL, Firestore, Datastore
- D. Cloud SQL, Bigtable, BigQuery

**Answer: B**

**Explanation:**

Spanner, Cloud SQL, BigQuery

Spanner- Cloud Spanner is a fully managed, mission-critical, relational database service that offers transactional consistency at global scale, automatic, synchronous replication for high availability, and support for two SQL Google Standard SQL and PostgreSQL.

Cloud SQL- Cloud SQL is a fully-managed database service that helps you set up, maintain, manage, and administer your relational databases on Google Cloud Platform.

BigQuery- Google BigQuery is a cloud-based Architecture and provides exceptional performance as it can auto-scale up and down based on the data load and performs data analysis efficiently. On the other hand, SQL Server is based on client-server architecture and has fixed performance throughout unless the user scales it manually.

**NEW QUESTION 145**

- (Exam Topic 1)

Which Google Cloud product or feature makes specific recommendations based on security risks and compliance violations?

- A. Google Cloud firewalls
- B. Security Command Center
- C. Cloud Deployment Manager
- D. Google Cloud Armor

**Answer: B**

**Explanation:**

Reference: <https://cloud.google.com/security-command-center>

Security Command Center is Security and risk management platform for Google Cloud.

Reference link- <https://cloud.google.com/security-command-center>

**NEW QUESTION 150**

- (Exam Topic 1)

Your organization is moving an application to Google Cloud. As part of that effort, it needs to migrate the application's working database from another cloud provider to Cloud SQL. The database runs on the MySQL engine. The migration must cause minimal disruption to users. Data must be secured while in transit. Which should your organization use?

- A. BigQuery Data Transfer Service
- B. MySQL batch insert
- C. Database Migration Service
- D. Cloud Composer

**Answer: C**

**Explanation:**

Reference: <https://aws.amazon.com/dms/>

**NEW QUESTION 153**

- (Exam Topic 1)

As your organization increases its release velocity, the VM-based application upgrades take a long time to perform rolling updates due to OS boot times. You need to make the application deployments faster.

What should your organization do?

- A. Migrate your VMs to the cloud, and add more resources to them
- B. Convert your applications into containers
- C. Increase the resources of your VMs
- D. Automate your upgrade rollouts

**Answer: B**

**NEW QUESTION 155**

- (Exam Topic 1)

Your organization is running all its workloads in a private cloud on top of a hypervisor. Your organization has decided it wants to move to Google Cloud as quickly as possible. Your organization wants minimal changes to the current environment, while using the maximum amount of managed services Google offers.

What should your organization do?

- A. Migrate the workloads to Google Cloud VMware Engine

- B. Migrate the workloads to Compute Engine
- C. Migrate the workloads to Bare Metal Solution
- D. Migrate the workloads to Google Kubernetes Engine

**Answer:** B

**Explanation:**

Migrate for Compute Engine enables you to lift and shift workloads at scale to Google Cloud Compute Engine with minimal changes and risk.  
Reference: <https://dataintegration.info/simplify-vm-migrations-with-migrate-for-compute-engine-as-a-service>

**NEW QUESTION 158**

- (Exam Topic 1)

A multinational retail company has approached you to help design its systems. They have millions of transactions at their point of sale systems across the world that need to be captured, stored, and analyzed. They are seeing more growth and expect to expand into even more geographies. Which database would be appropriate for them?

- A. Cloud Datastore
- B. Cloud Storage
- C. Cloud Spanner
- D. Cloud SQL

**Answer:** C

**Explanation:**

Cloud Spanner: "Fully managed relational database with unlimited scale, strong consistency, and up to 99.999% availability."  
Reference: - <https://cloud.google.com/spanner>

**NEW QUESTION 162**

- (Exam Topic 1)

Your organization needs to plan its cloud infrastructure expenditures. Which should your organization do?

- A. Review cloud resource costs frequently, because costs change often based on use
- B. Review cloud resource costs annually as part of planning your organization's overall budget
- C. If your organization uses only cloud resources, infrastructure costs are no longer part of your overall budget
- D. Involve fewer people in cloud resource planning than your organization did for on-premises resource planning

**Answer:** A

**Explanation:**

Review cloud resource costs frequently, because costs change often based on use because One need to know current usage/ trend for planning; While public cloud eliminates capex, and gets into pay as you go model, the usage pattern determines the cloud cost and hence needs to be measured frequently to enable better forecast

**NEW QUESTION 164**

- (Exam Topic 1)

Your organization is developing a mobile app and wants to select a fully featured cloud-based compute platform for it. Which Google Cloud product or feature should your organization use?

- A. Google Kubernetes Engine
- B. Firebase
- C. Cloud Functions
- D. App Engine

**Answer:** B

**Explanation:**

Reference: <https://cloud.google.com/appengine>  
Firebase is Google's mobile development platform that empowers you to quickly build and grow your app

**NEW QUESTION 165**

- (Exam Topic 1)

How do Migrate for Compute Engine and Migrate for Anthos differ?

- A. Unlike Migrate for Anthos, Migrate for Compute Engine assumes that the migration source is VMware vSphere.
- B. Migrate for Compute Engine charges for ingress, but Migrate for Anthos does not.
- C. Migrate for Compute Engine is closed source, and Migrate for Anthos is open source.
- D. Migrate for Anthos migrates to containers, and Migrate for Compute Engine migrates to virtual machines.

**Answer:** D

**Explanation:**

Reference: <https://cloud.google.com/migrate/anthos>  
Migrate workloads to Compute Engine with Migrate for Compute Engine. Migrate from Compute Engine to containers with Migrate for Anthos and GKE. This method makes sense, for instance, in cases where you want to conduct a data-center migration and migrate all workloads into Compute Engine, and only at a second stage selectively modernize suitable workloads to containers.  
Graphical user interface, text, application, email Description automatically generated <https://cloud.google.com/migrate/containers/docs/architecture>

#### NEW QUESTION 168

- (Exam Topic 1)

Your organization needs to restrict access to a Cloud Storage bucket. Only employees who are based in Canada should be allowed to view the contents. What is the most effective and efficient way to satisfy this requirement?

- A. Deploy the Cloud Storage bucket to a Google Cloud region in Canada
- B. Configure Google Cloud Armor to allow access to the bucket only from IP addresses based in Canada
- C. Give each employee who is based in Canada access to the bucket
- D. Create a group consisting of all Canada-based employees, and give the group access to the bucket

**Answer: D**

#### Explanation:

Reference: <https://cloud.google.com/storage/docs/access-control>

Because you can use your own private VPN to access the Canada-only bucket from anywhere in the world.

#### NEW QUESTION 171

- (Exam Topic 1)

Which of the following NIST Cloud characteristics uses the business model of shared re-sources in a cloud environment?

- A. Elasticity
- B. Availability
- C. Broad Network Access
- D. Multi-Tenancy

**Answer: D**

#### Explanation:

In cloud computing, multitenancy means that multiple customers of a cloud vendor are using the same computing resources. Even though they share resources, cloud customers aren't aware of each other, and their data is kept totally separate. Multi-tenancy is a crucial component of cloud computing; without it, cloud services would be far less practical. Multitenant architecture is a feature in many types of public cloud computing, including IaaS, PaaS, SaaS, containers, and serverless computing.

#### NEW QUESTION 172

- (Exam Topic 1)

Your organization needs to minimize how much it pays for data traffic from the Google network to the internet. What should your organization do?

- A. Choose the Standard network service tier.
- B. Choose the Premium network service tier.
- C. Deploy Cloud VPN.
- D. Deploy Cloud NAT.

**Answer: A**

#### Explanation:

Choose the Standard network service tier. While Premium tier is the default for all egress traffic and offers the highest performance, when cost is a consideration, Standard tier is the more economical.

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Every cloud deployment needs a network over which to move data. Without a network, you can't view cat videos or upload your selfies, much less allow microservices to talk to one another.

Google Cloud provides a global, scalable, flexible network for your cloud-based workloads and services, and how you utilize that network impacts four critical aspects of your deployment: cost, security, performance and availability.

When designing a reliable, sound, yet cost effective network architecture, you'll want multiple teams within the company to weigh in on these four elements, to determine your priorities. The following tips highlight a few considerations you should think about when architecting your network solution.

<https://cloud.google.com/blog/products/networking/networking-cost-optimization-best-practices>

#### NEW QUESTION 174

- (Exam Topic 1)

Your organization is migrating to Google Cloud. As part of that effort, it needs to move terabytes of data from on-premises file servers to Cloud Storage. Your organization wants the migration process to be automated and to be managed by Google. Your organization has an existing Dedicated Interconnect connection that it wants to use. Which Google Cloud product or feature should your organization use?

- A. Storage Transfer Service
- B. Migrate for Anthos

- C. BigQuery Data Transfer Service
- D. Transfer Appliance

**Answer:** A

**Explanation:**

Reference: <https://cloud.google.com/architecture/migration-to-google-cloud-transferring-your-large-datasets> Text, application Description automatically generated Graphical user interface, text, application, email Description automatically generated <https://cloud.google.com/architecture/migration-to-google-cloud-transferring-your-large-datasets>

**NEW QUESTION 176**

- (Exam Topic 1)

What is the difference between Standard and Coldline storage?

- A. Coldline storage is for data for which a slow transfer rate is acceptable.
- B. Standard and Coldline storage have different durability guarantees.
- C. Standard and Coldline storage use different APIs.
- D. Coldline storage is for infrequently accessed data.

**Answer:** D

**Explanation:**

Reference: <https://www.msp360.com/resources/blog/google-cloud-nearline-storage-vs-coldline-vs-standard/> Google Cloud Coldline is a new cold-tier storage for archival data with access frequency of less than once per year. Unlike other cold storage options, Nearline has no delays prior to data access, so now it is the leading solution among competitors.

**NEW QUESTION 178**

- (Exam Topic 1)

Your customer currently has a hybrid cloud setup including their on-premises data center and AWS. They are consolidating all their services on Google Cloud as part of a modernization plan and want to spend less IT effort in the future. There are about 10 MySQL and 25 PostgreSQL databases across the two DCs. What is the best option to for them?

- A. Use the Data Catalog Service to manage the metadata of the databases
- B. Use Cloud Dataflow service and setup Google's Cloud SQL as the sink and the others as the source, which will cause the data to flow in as expected.
- C. Use the Database Migration Service
- D. Use the Bare Metal Solution and copy the databases directly as they are on-premises and on AWS.

**Answer:** C

**Explanation:**

Database Migration is the right one to use: "Simplifying migrations to Cloud SQL. Now available for MySQL and PostgreSQL migrations, with SQL Server coming soon." Since the customer also doesn't want to manage their own database installations in the future, Cloud SQL is the best option.

## Database Migration Service

Simplify migrations to Cloud SQL. Available now for MySQL and PostgreSQL, with SQL Server migrations and Oracle to PostgreSQL migrations in preview.

[Get started](#)

[Migration guide](#)

- ✓ Migrate databases to Cloud SQL from on premises, Google Compute Engine, and other clouds
- ✓ Replicate data continuously for minimal downtime migrations
- ✓ Serverless and easy to set up

<https://cloud.google.com/database-migration>

**NEW QUESTION 182**

- (Exam Topic 1)

The operating systems of some of your organization's virtual machines may have a security vulnerability. How can your organization most effectively identify all virtual machines that do not have the latest security update?

- A. View the Security Command Center to identify virtual machines running vulnerable disk images
- B. View the Compliance Reports Manager to identify and download a recent PCI audit

- C. View the Security Command Center to identify virtual machines started more than 2 weeks ago
- D. View the Compliance Reports Manager to identify and download a recent SOC 1 audit

**Answer:** A

**Explanation:**

Security Health Analytics and Web Security Scanner detectors generate vulnerabilities findings that are available in Security Command Center. Your ability to view and edit findings is determined by the Identity and Access Management (IAM) roles and permissions you are assigned. For more information about IAM roles in Security Command Center.

Reference link:

<https://cloud.google.com/security-command-center/docs/concepts-vulnerabilities-findings>

**NEW QUESTION 183**

- (Exam Topic 3)

An organization wants to use all available data to offer predictive suggestions on their website that improve over time. Which method should the organization use?

- A. Data automation
- B. Trends analysis
- C. Machine learning
- D. Multiple regression

**Answer:** C

**NEW QUESTION 185**

- (Exam Topic 3)

An organization delivers a proactive healthcare service. They want to efficiently and automatically collect patient data. What should the organization encourage the patients to do?

- A. Use at-home health screening devices and then upload their health data daily
- B. Wear Internet of Things (IoT) devices that upload their health data in real time
- C. Self-assess their health data and then document and upload it in real time
- D. Visit a nurse who will use Internet of Things (IoT) devices to collect and upload their health data

**Answer:** B

**NEW QUESTION 188**

- (Exam Topic 3)

An organization relies on online seasonal sales for the majority of their annual revenue. Why should the organization use App Engine for their customer app?

- A. Automatically adjusts physical inventory in real time
- B. Autoscales during peaks in demand
- C. Runs maintenance during seasonal sales
- D. Recommends the right products to customers

**Answer:** B

**NEW QUESTION 189**

- (Exam Topic 3)

How does a large hotel chain benefit from storing their customer reservation data in the cloud?

- A. On-premises hardware access to transaction data
- B. Real-time data transformation at scale within an on-premises database
- C. Real-time business transaction accuracy at scale
- D. Physical hardware access during peak demand

**Answer:** C

**NEW QUESTION 190**

- (Exam Topic 3)

What is an example of unstructured data that organizations can capture from social media?

- A. Post comments
- B. Tagging
- C. Profile picture
- D. Location

**Answer:** A

**Explanation:**

<https://treehousetechgroup.com/8-examples-of-unstructured-data/>

**NEW QUESTION 191**

- (Exam Topic 2)

You are a program manager in a company and handling a project and you need to create a virtual machine on google cloud console that will be very simple to set up, by flipping a bit via command, API, or with developer console that gives you 30 seconds to shut down when you're preempted, allow you to save your work

that also helps in the company budget upto 70-80% of less charges than the regular VMs.

- A. Bare Metal Solutions
- B. Preemptible Virtual Machines.
- C. Google Cloud VM Instances
- D. None of the above.

**Answer: B**

**Explanation:**

Preemptible VMs have all these features

Simple configuration

Create a preemptible instance simply by flipping a bit via command, API, or developer console.

Easy extensibility

Attach GPUs and local SSDs to preemptible instances for additional performance and savings.

Graceful shutdown

Compute Engine gives you 30 seconds to shut down when you're preempted, letting you save your work in progress for later.

Large scale computing

Spin up as many instances as you need and turn them off when you're done. You only pay for what you use.

Quickly reclaim capacity

Managed instance groups automatically recreate your instances when they're preempted (if capacity is available).

Fixed pricing

Preemptible VMs have fixed pricing up to 80% off regular instances. They show up on your bill separately so you'll see just how much you're saving.

**NEW QUESTION 194**

- (Exam Topic 2)

A customer is migrating their on-premises data analytics solution to Google Cloud. The current solution has a lot of data being read from and written to disk. The performance of this approach has occasionally been a bottleneck for a scale of operations that your customer has. The application is fault tolerant and can withstand machine going down frequently. In moving to Google Cloud they are asking your advice on any way to improve performance?

- A. Use Big Query Which has very fast data access and analysis
- B. Use Cloud Storage which can be central, scalable storage
- C. Use local SSDs with the VMs
- D. Use Persistent Disk with the VMs

**Answer: C**

**Explanation:**

Local SSDs are attached to the VM and have very high throughput. However, when the VM shuts down, the local SSD is also shut down. Since our workload here is fault tolerant, that is not an issue.

**NEW QUESTION 198**

- (Exam Topic 2)

Your customer is moving from AWS to Google Cloud. Data also needs to be moved. There is about 50TB of data. On AWS, the data resides in an S3 bucket. It is going to be moved to Cloud Storage. Data is also being continuously generated on S3 prior to the cutover. It is preferable that this is also periodically transferred. What is the best way to move the data?

- A. Use the gsutil command-line option
- B. Use the Google Cloud console to drag and drop the files easily
- C. Use the Storage Transfer Service
- D. Use a Transfer Appliance

**Answer: C**

**Explanation:**

Storage Transfer Service provides options that make data transfers and synchronization easier. We can also schedule one-time transfer operations or recurring transfer operations.

Text Description automatically generated

Storage Transfer Service is a product that enables you to:

- Move or backup data to a Cloud Storage bucket either from other cloud storage providers or from a local or cloud POSIX file system.
- Move data from one Cloud Storage bucket to another, so that it is available to different groups of users or applications.
- Move data from Cloud Storage to a local or cloud file system
- Move data between file systems.
- Periodically move data as part of a data processing pipeline or analytical workflow.

Storage Transfer Service provides options that make data transfers and synchronization easier. For example, you can:

- Schedule one-time transfer operations or recurring transfer operations.
- Delete existing objects in the destination bucket if they don't have a corresponding object in the source.
- Delete data source objects after transferring them.
- Schedule periodic synchronization from a data source to a data sink with advanced filters based on file creation dates, filenames, and the times of day you prefer to import data.

Reference link- <https://cloud.google.com/storage-transfer/docs/overview>

Reference link <https://cloud.google.com/architecture/transferring-data-from-amazon-s3-to-cloud-storage-using-vpc-service-c>

### NEW QUESTION 200

- (Exam Topic 2)

Which of these are defined by the following statement: a contract you have with your end custom-ers, which, if you don't meet, you might even have to pay fines?

- A. SLA - Service Level Agreement
- B. SLC - Service Level Contract
- C. SLO - Service Level Objective
- D. SLI - Service Level Indicator

**Answer:** A

**Explanation:**

## Service-Level Agreement (SLA)

At Google, we distinguish between an SLO and a Service-Level Agreement (SLA). An SLA normally involves a promise to someone using your service that its availability SLO should meet a certain level over a certain period, and if it fails to do so then some kind of penalty will be paid. This might be a partial refund of the service subscription fee paid by customers for that period, or additional subscription time added for free. The concept is that going out of SLO is going to hurt the service team, so they will push hard to stay within SLO. If you're charging your customers money, you will probably need an SLA.

Because of this, and because of the principle that availability shouldn't be much better than the SLO, the availability SLO in the SLA is normally a looser objective than the internal availability SLO. This might be expressed in availability numbers: for instance, an availability SLO of 99.9% over one month, with an internal availability SLO of 99.95%. Alternatively, the SLA might only specify a subset of the metrics that make up the internal SLO.

<https://cloud.google.com/blog/products/devops-sre/sre-fundamentals-slis-slas-and-slos>

### NEW QUESTION 202

- (Exam Topic 2)

Cloud Data Loss Prevention (DLP) is a fully managed service designed to help discover, classify, and protect the most sensitive data. DLP provides three key features (Select Three Answers)

- A. Classification
- B. De-identification
- C. De-classification
- D. Inspection
- E. Reinspection

**Answer:** ABD

**Explanation:**

Classification, De-classification and Inspection

Classification is the process to inspect the data and know what data we have, how sensitive it is, and the likelihood. Inspection and classification happen here.

De-identification is the process of removing, masking, replacing information from data.

Reference link- <https://cloud.google.com/dlp/docs>

#### NEW QUESTION 204

- (Exam Topic 2)

A bank wants to track the success of their existing ATM network, which has been modernized with APIs to instantly notify customers about their transfers. What is the benefit of using Apigee to achieve this goal?

- A. It has dashboards that chart dimensions and metrics to report on APIs.
- B. It replicates banking APIs to create new business value.
- C. It measures and tracks their total cost of ownership (TCO).
- D. It allows developers to connect the banking APIs with the public cloud.

**Answer:** A

#### Explanation:

Apigee includes analytics services which allow enterprises to report on various aspects of an API.

#### NEW QUESTION 205

- (Exam Topic 2)

The customer has applications that do data processing on-premise. They have been built using Hadoop and Spark. What product should I use on Google Cloud?

- A. Dataproc
- B. Dataflow
- C. Dataprep
- D. Dataplex

**Answer:** A

#### Explanation:

Because Dataproc is used to run Hadoop/Spark workloads

#### NEW QUESTION 207

- (Exam Topic 2)

Virtual Machine vCPU and memory usage for each of these categories can receive one of the following discounts? (Select Three Answer)

- A. Military Discounts
- B. Spot Instances
- C. Committed-Use
- D. Sustained-Use
- E. Preemptible VMs

**Answer:** CDE

#### Explanation:

Sustained, Committed and Preemptible

vCPU and memory usage for each of these categories can receive discounts VM vCPU and memory usage for each of these categories can receive discounts

Sustained-use discounts—Google offers up to 30% off for workloads that run for most of the billing month on GCP services.

Committed-use discounts—users can save up to 57% by committing to use an instance for a certain time period, with no upfront payment and with the flexibility to change instances during the commitment period.

Preemptible VMs—similar to the concept of AWS spot instances, Google offers up to 79% off for Virtual Machines that may be shut down at any time and replaced by others.

Reference link- <https://cloud.google.com/compute/docs/sustained-use-discounts>

Reference link— <https://cloud.google.com/compute/docs/instances/signing-up-committed-use-discounts>

Reference link— <https://cloud.google.com/compute/docs/instances/preemptible>

#### NEW QUESTION 208

- (Exam Topic 2)

Which of the following statements is/are true about Cloud Spanner offered by Google Cloud Plat-form.

- A. It can scale horizontally to support additional capacity.
- B. It comes with Zero Downtime, No Maintenance windows, and is proven for large and small workloads.
- C. You don't need to shard or replicate data.
- D. All of the above.

**Answer:** D

#### Explanation:

Cloud Spanner:

Fully managed relational database with unlimited scale, strong consistency, and up to 99.999% availability.

- Get all the benefits of relational semantics and SQL with unlimited scale
- Start at any size and scale with no limits as your needs grow
- Enjoy high availability with zero scheduled downtime and online schema changes
- Deliver high-performance transactions with strong consistency across regions and continents
- Focus on innovation, eliminating manual tasks with capabilities like automatic sharding.

#### NEW QUESTION 209

- (Exam Topic 2)

You are a cloud architect in a software solution provider company, one of the client that is a National Bank who wants to build an application that deals with transactions processing, and it needs a relational database with petabyte of scale data. Which of the following Google Cloud Services will you use?

- A. Cloud SQL
- B. Cloud Bigtable
- C. Cloud Spanner
- D. Google Cloud BigQuery

**Answer: C**

#### Explanation:

- Cloud Spanner is the online transaction processing solution that is relational and offers petabyte scalability. Cloud SQL is not designed for petabyte-scale data.

#### NEW QUESTION 214

- (Exam Topic 2)

A client is currently running software on their on-premise systems that is bound by a certain type of license. They are allowed to run the software on virtualized machines. However, they cannot run them on virtualized machines that are shared by two different companies, teams, or projects. What option do they have on Google Cloud?

- A. Google Cloud is a public cloud accessed by multiple customers.
- B. Allocate a Bare Metal machine.
- C. Setup exclusive login to the VM with self-generated security keys.
- D. Allocate sole-tenant nodes

**Answer: D**

#### Explanation:

Sole-tenancy lets you have exclusive access to a sole-tenant node, which is a physical Compute Engine server that is dedicated to hosting only your project's VMs. Use sole-tenant nodes to keep your VMs physically separated from VMs in other projects, or to group your VMs together on the same host hardware.  
<https://cloud.google.com/compute/docs/nodes/sole-tenant-nodes>

#### NEW QUESTION 219

- (Exam Topic 2)

You are consulting for a client who is migrating to Google Cloud. They presently have a matrix organization. Their IT environments were managed around projects. Each team had multiple projects. All the projects had a flat structure under the company. What would you advise them when planning for the move?

- A. On Google Cloud, create a folder corresponding to each team
- B. Under that, there could be projects or further sub folders as the team decides.
- C. In terms of not disturbing the project developers and testers, advise them that the strategic decision is to retain the structure on Google Cloud also.
- D. Since a Project could spawn other sub-Projects, on Google Cloud it is better to assign a folder for each Project.
- E. The flat structure is what is currently used in IT organizations, and this can be used as-is which will provide the best results.

**Answer: A**

#### Explanation:

Folders for a related group of projects are the recommended approach.

-> A flat structure under the organization node is possible on Google Cloud, but it is not recommended. It becomes tougher to manage.

-> Projects cannot have sub-projects; there can only be resources within Projects.

Reference link- <https://cloud.google.com/resource-manager/docs/cloud-platform-resource-hierarchy>

#### NEW QUESTION 221

- (Exam Topic 2)

You are a DevOps Engineer in an E-commerce company that sells products globally, across the countries, Customers buy products, add them to carts or check-in stock from different parts of the world with different timestamps, you need to choose a database that can scale globally without any hassle and lots of developer support, it should be consistent across regions, can scale horizontally to support enormous user, automatically replicates, shards and even auto transaction processing. Which of the following database do you choose?

- A. Cloud SQL
- B. Cloud Spanner
- C. Cloud Firestore.
- D. Cloud Storage.

**Answer: B**

#### Explanation:

Cloud Spanner:

Fully managed relational database with unlimited scale, strong consistency, and up to 99.999% availability.

- Get all the benefits of relational semantics and SQL with unlimited scale
- Start at any size and scale with no limits as your needs grow
- Enjoy high availability with zero scheduled downtime and online schema changes
- Deliver high-performance transactions with strong consistency across regions and continents
- Focus on innovation, eliminating manual tasks with capabilities like automatic sharding

Automatic sharding

Cloud Spanner optimizes performance by automatically sharding the data based on request load and size of the data. As a result, you can spend less time worrying about how to scale your database and instead focus on scaling your business.

Strong transactional consistency

Purpose-built for external, strong, global transactional consistency.

Regional and multi-regional configurations

No matter where your users may be, apps backed by Cloud Spanner can read and write up-to-date strongly consistent data globally. Additionally, when running a multi-region instance, your database is able to survive a regional failure, and offers industry-leading 99.999% availability.

Online schema changes with no downtime

Cloud Spanner users can make a schema change, whether it's adding a column or adding an index while serving traffic with zero downtime. Hence you now have the flexibility to adapt your database to your business needs without compromising on the availability of your application.

#### NEW QUESTION 225

- (Exam Topic 2)

One of your customers used to have a private data center. While within their data center itself, they were consuming some Google services via API calls and other public, well-known addresses published by Google. Now they're evacuating their private data center and are moving to Google Cloud. Could they improve some of their existing architecture with respect to security?

- A. Use VPC Peering with the Google Cloud organization so that you can directly use services using only private IPs.
- B. Use private addresses only
- C. No additional configuration is required
- D. All Google services will be accessible within Google Cloud on private addresses.
- E. Use Shared VPCs with the Google Cloud organization so that you can directly use services using only private IPs.
- F. Enable Private Google Access so that they can remove public IP addresses.

**Answer: D**

#### Explanation:

"VM instances that only have internal IP addresses (no external IP addresses) can use Private Google Access. They can reach the external IP addresses of Google APIs and services. If you disable Private Google Access, the VM instances can no longer reach Google APIs and services; they can only send traffic within the VPC network."

Graphical user interface, text, application Description automatically generated

### Private Google Access

[Send feedback](#)

VM instances that only have internal IP addresses (no external IP addresses) can use Private Google Access. They can reach the external IP addresses of Google APIs and services. The source IP address of the packet can be the primary internal IP address of the network interface or an address in an alias IP range that is assigned to the interface. If you disable Private Google Access, the VM instances can no longer reach Google APIs and services; they can only send traffic within the VPC network.

Private Google Access has no effect on instances that have external IP addresses. Instances with external IP addresses can access the internet, according to the [internet access requirements](#). They don't need any special configuration to send requests to the external IP addresses of Google APIs and services.

You enable Private Google Access on a subnet by subnet basis; it's a setting for subnets in a VPC network. To enable a subnet for Private Google Access and to view the requirements, see [Configuring Private Google Access](#).

<https://cloud.google.com/vpc/docs/private-google-access>

#### NEW QUESTION 230

- (Exam Topic 2)

What service is a fully managed real-time messaging service that allows you to send and receive messages between independent applications.

- A. Cloud Datastore
- B. Cloud Pub/Sub
- C. Cloud DNS
- D. Cloud BigTable
- E. Cloud Spanner

**Answer: B**

#### Explanation:

Google Cloud Pub/Sub is a scalable, durable event ingestion and delivery system.

-> Pub/Sub allows services to communicate asynchronously, with latencies on the order of 100 milliseconds.

-> Pub/Sub is used for streaming analytics and data integration pipelines to ingest and distribute data. It is equally effective as messaging-oriented middleware for service integration or as a queue to parallelize tasks.

-> Pub/Sub enables you to create systems of event producers and consumers, called publishers and subscribers. Publishers communicate with subscribers asynchronously by broadcasting events, rather than by synchronous remote procedure calls (RPCs).

Reference link- <https://cloud.google.com/pubsub/docs/overview>

#### NEW QUESTION 231

- (Exam Topic 2)

You are working with a user to set up an application in a new VPC behind a firewall and it is noticed that the user is concerned about data egress. Therefore, to provide assistance you want to configure the fewest open egress ports. Which of the following statements is correct?

- A. Set up a high-priority (1000) rule that blocks all egress and a low-priority (65534) rule that allows only the appropriate ports.
- B. Set up a low-priority (65534) rule that blocks all egress and a high-priority rule (1000) that allows only the appropriate ports.
- C. Set up a high-priority (1000) rule to allow the appropriate ports.
- D. Set up a high-priority (1000) rule that pairs both ingress and egress ports.

**Answer: B**

**Explanation:**

Implied rules Every VPC network has two implied firewall rules. These rules exist, but are not shown in the Cloud Console:

Implied allow egress rule. An egress rule whose action is allow, destination is 0.0.0.0/0, and priority is the lowest possible (65535) lets any instance send traffic to any destination, except for traffic blocked by Google Cloud. A higher priority firewall rule may restrict outbound access. Internet access is allowed if no other firewall rules deny outbound traffic and if the instance has an external IP address or uses a Cloud NAT instance. For more information, see Internet access requirements.

If IPv6 is enabled, the VPC network also has these two implied rules:

- **Implied IPv6 allow egress rule.** An egress rule whose action is allow, destination is ::/0, and priority is the lowest possible (65535) lets any instance send traffic to any destination, except for traffic blocked by Google Cloud. A higher priority firewall rule may restrict outbound access. Internet access is allowed if no other firewall rules deny outbound traffic and if the instance has an external IP address.
- **Implied IPv6 deny ingress rule.** An ingress rule whose action is deny, source is ::/0, and priority is the lowest possible (65535) protects all instances by blocking incoming connections to them. A higher priority rule might allow incoming access.

The implied rules cannot be removed, but they have the lowest possible priorities. You can create rules that override them as long as your rules have higher priorities (priority numbers less than 65535). Because deny rules take precedence over allow rules of the same priority, an ingress allow rule with a priority of 65535 never takes effect.

Reference link- <https://cloud.google.com/vpc/docs/firewalls>

**NEW QUESTION 232**

- (Exam Topic 2)

You have deployed a new public web application that allows users to register and login with email ids, phone numbers, or user ids. You are seeing some unusual activity with user registrations and logins from a few IPs. A large number of accounts were created very quickly. Logins are also happening quickly thereafter from these new accounts. Different parts of the application are being explored, all of which are putting a heavy load on the application. What could be a problem and how can you solve it?

- A. A hacker group has hired a bunch of people to create accounts and manually use the system.
- B. Use Cloud Asset Inventory to see if there have been changes in the inventory.
- C. Bots are creating accounts and then using the system.
- D. Use Google Cloud's Web App and API Protection (WAAP).
- E. Bots are creating accounts and then using the system.
- F. Use Identity-Aware Proxy to restrict the users to known users.
- G. Automated testing tools might still be running and creating accounts.
- H. Use Identity-Aware Proxy to restrict the users to known users.

**Answer: B**

**Explanation:**

Bots attacking the application is the most likely scenario in this case. Using WAAP is the right protection plan: Anti-DDoS, anti-bot, WAF, and API protection help you protect against new and existing threats while helping you keep your apps and APIs compliant and continuously available.

<https://cloud.google.com/solutions/web-app-and-api-protection>

**NEW QUESTION 234**

- (Exam Topic 2)

One of your clients is in the retail sector. They have a small team supporting their operations and a small development team taking care of application development. They have heard of the benefits of machine learning, but they do not have the capacity to hire data scientists or the work to retain them. They have a team of analysts who works primarily on BigQuery and knows how to run SQL queries. They want to be able to get into the new age of machine learning and artificial intelligence. What options are available to run on Google Cloud?

- A. Use the popular open-source libraries SciPy and NumPy to create machine learning models.
- B. Use the Unified AI Platform to create a custom TensorFlow model.
- C. Use BigQuery ML to create machine learning models using SQL queries.
- D. Integrate the Cloud Vision API and the Cloud Speech API to create a custom model that will suit the retail sector.

**Answer: C**

**Explanation:**

BigQuery ML allows you to create ML models using standard SQL queries. Those familiar with BigQuery and ML will be able to create ML models with just a basic understanding of machine learning.

<https://cloud.google.com/bigquery-ml/docs/>

**NEW QUESTION 239**

- (Exam Topic 2)

You are looking for a one stop reference page for GCP support. What Page would you select?

- A. Compliance Hub
- B. Google Cloud Platform Status
- C. Support Hub
- D. Pricing Page

**Answer: C**

**Explanation:**

Google provides a page that brings together everything needed around support. Its called the Support Hub  
Reference link- <https://cloud.google.com/support-hub>

**NEW QUESTION 241**

- (Exam Topic 2)

How does a least privilege resource access model contribute to cloud security?

- A. Google is responsible for determining access to cloud resources.
- B. Employees may only access on-premises software with special permission.
- C. Only managers and other senior employees have cloud resource access.
- D. Employees only have access to the cloud resources necessary for their job.

**Answer:** D

**Explanation:**

This is the definition of a least privilege model.

A supporting principle that helps organizations achieve these goals is the principle of least privilege. The principle of least privilege addresses access control and states that an individual should have only the minimum access privileges necessary to perform a specific job or task and nothing more

**NEW QUESTION 246**

- (Exam Topic 2)

Your customer's IT team is in the process of modernizing their customer-facing applications. They've witnessed others getting good results from employing microservices, and they're keen to adopt it themselves. The first application that they are modernizing has about 5 different sub-parts, which they have identified will be the services. They also identify that each of them has different scale requirements - some services like user login are less frequently used while others like transactions are heavily used. What technical strategy would you recommend for them?

- A. Containerize the services and orchestrate them with Google Kubernetes Engine.
- B. Retain the original application in Compute Engine and scale it as needed using Managed Instance Groups.
- C. Retain the original application as a backup and also for separately scaling the services, create new application binaries.
- D. Retain the original application in Compute Engine and scale it as needed using Unmanaged Instance Groups.

**Answer:** A

**Explanation:**

Containers and Kubernetes are ideal for the kind of requirement mentioned here - separate microservices that need to scale independently.

Google Kubernetes Engine (GKE) provides a managed environment for deploying, managing, and scaling your containerized applications using Google infrastructure. The GKE environment consists of multiple machines (specifically, Compute Engine instances) grouped together to form a cluster.

Reference link- <https://cloud.google.com/kubernetes-engine/docs/concepts/kubernetes-engine-overview>

**NEW QUESTION 251**

- (Exam Topic 2)

Which Firebase quality tools help the developer track, prioritize & fix stability issues that erode the application quality?

- A. Performance
- B. App Distribution
- C. Crashlytics
- D. Test Lab

**Answer:** C

**Explanation:**

Firestore Crashlytics:

Get clear, actionable insight into app issues with this powerful crash reporting solution for iOS, Android, and Unity.

Firestore Crashlytics is a lightweight, real-time crash reporter that helps you track, prioritize, and fix stability issues that erode your app quality. Crashlytics saves you troubleshooting time by intelligently grouping crashes and highlighting the circumstances that lead up to them.

Find out if a particular crash is impacting a lot of users. Get alerts when an issue suddenly increases in severity. Figure out which lines of code are causing crashes.

**NEW QUESTION 252**

- (Exam Topic 2)

When creating machine learning models, a key initial step is to identify the type of model required. One of these is the classification model. Which of these statements define a classification model?

- A. A type of machine learning model for distinguishing among two or more discrete value
- B. E.
- C. "book", "car".
- D. A type of machine learning model is a meta-model maker, which classifies algorithms based on the quality of their output.
- E. A type of machine learning model that outputs continuous (typically, floating-point) value
- F. E.
- G. the predicted price of the house is \$120,000.
- H. A type of classic model approach that is less used today and which has been replaced by the regression model.

**Answer:** A

**Explanation:**

A classification model classifies the incoming data into one or more discrete classes.

### NEW QUESTION 253

- (Exam Topic 2)

"With cloud messaging you can Customize and deliver messages accordingly to the predetermined time in the user's local time zone." Comment on the above statement.

- A. This statement is undefined.
- B. The above statement is partially true.
- C. The above statement is completely false.
- D. The above statement is completely true.

**Answer: D**

#### Explanation:

Firestore Cloud Messaging:

Firestore Cloud Messaging (FCM) is a cross-platform messaging solution that lets you reliably send messages at no cost.

Using FCM, you can notify a client app that new email or other data is available to sync. You can send notification messages to drive user re-engagement and retention. For use cases such as instant messaging, a message can transfer a payload of up to 4000 bytes to a client app.

Key capabilities of Firestore Cloud Messaging:

Send notification messages or data messages: Send notification messages that are displayed to your user. Or send data messages and determine completely what happens in your application code.

Versatile message targeting: Distribute messages to your client app in any of 3 ways—to single devices, to groups of devices, or to devices subscribed to topics.

Send messages from client apps: Send acknowledgments, chats, and other messages from devices back to your server over FCM's reliable and battery-efficient connection channel.

### NEW QUESTION 254

- (Exam Topic 2)

All Google Cloud Platform services are associated with a project that is used to provide what functions?

- A. Manage Container Deployments
- B. Enable Services and APIs
- C. Manage DNS Services
- D. None of the Above

**Answer: B**

#### Explanation:

Enable Services and APIs

Graphical user interface, text Description automatically generated

A project organizes all your Google Cloud resources. A project consists of a set of users; a set of APIs; and billing, authentication, and monitoring settings for those APIs. So, for example, all of your Cloud Storage buckets and objects, along with user permissions for accessing them, reside in a project. You can have one project, or you can create multiple projects and use them to organize your Google Cloud resources, including your Cloud Storage data, into logical groups.

Reference link- <https://cloud.google.com/storage/docs/projects>

### NEW QUESTION 259

- (Exam Topic 2)

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

- A. Scan the bucket using the Data Loss Prevention API.
- B. Enable Data Access audit logs for the Cloud Storage API.
- C. Enable the Identity Aware Proxy API on the project.
- D. Allow only a single Service Account access to read the data.

**Answer: B**

#### Explanation:

Logged information

Your Google Cloud projects contain only the audit logs for resources that are directly within the Cloud project. Other Google Cloud resources, such as folders, organizations, and billing accounts, contain the audit logs for the entity itself.

Graphical user interface, text, application Description automatically generated

## Available audit logs

The following types of audit logs are available for Cloud Storage:

- **Admin Activity audit logs:** Entries for `ADMIN_WRITE` operations that modify the configuration or metadata of a Cloud project, bucket, or object. You can't disable Admin Activity audit logs.
- **Data Access audit logs:** Entries for operations that modify objects or read a Cloud project, bucket, or object. There are several sub-types of Data Access audit logs:
  - `ADMIN_READ`: Entries for operations that read the configuration or metadata of a Cloud project, bucket, or object.
  - `DATA_READ`: Entries for operations that read an object.
  - `DATA_WRITE`: Entries for operations that create or modify an object.

To receive Data Access audit logs, you must **explicitly enable** them.

For fuller descriptions of the audit log types, see [Types of audit logs](#).

Reference link- <https://cloud.google.com/storage/docs/audit-logging>

### NEW QUESTION 262

- (Exam Topic 2)

In discussions with a prospective customer who wants to move to Google Cloud to make use of the latest, scalable technologies available therein, you learn that there are very strict regulations concerning the storage of data. They only have the approval to store it in their current private data center. What would you advise them?

- A. Retain on-premise itself those portions of data and compute which are under regulation
- B. Take advantage of all the other cloud capabilities for remaining work-loads.
- C. It is too risky to touch anything in such a scenario
- D. It is best to remain entirely on-premise.
- E. Regulations are a guideline
- F. As long as the data remains encrypted, you can move it anywhere.
- G. Petition the government for changes to such regulations as all industries are moving to the public cloud. Then, when the regulations are eased, move to Google Cloud.

**Answer:** A

#### Explanation:

Moving to Google Cloud is not an all-or-nothing option. Certain workloads can continue to remain on-premise while the predominant chunk moves to Google Cloud

### NEW QUESTION 266

- (Exam Topic 2)

Which of the following methods should you use when you require a dynamic way of provisioning VMs on Compute Engine when it is observed that the exact specifications will be in a dedicated configuration file and you want to follow Google's recommended practices.

- A. Managed Instance Group
- B. Deployment Manager
- C. Cloud Composer
- D. Unmanaged Instance Group

**Answer:** B

#### Explanation:

The question is about a dynamic way to provision VM, it can be achieved by a Deployment manager or by using terraform. MIG is creating multiple machines based on templates by load balancing

### NEW QUESTION 268

- (Exam Topic 2)

Considering Different Storage and database options e.g. Cloud Datastore, Cloud SQL, Cloud Storage, etc. Which of the following statements is/are correct? (Select two answers)

- A. Cloud DataStore and Cloud SQL have Terabytes + and Terabytes Capacity respectively.
- B. Cloud Bigtable and Cloud Storage both have Petabytes + capacity.
- C. Cloud Bigtable and Cloud Storage both have not Petabytes + capacity.
- D. None of the above.

**Answer:** AB

### NEW QUESTION 273

- (Exam Topic 2)

A small scale retailer has been collecting its point of sale transaction in a PostgreSQL Database. They have raised funding for a strategic expansion goal in the next year that will see them grow significantly in Asia, Europe, North America, Which Database option should they choose in Google Cloud?

- A. BigQuery
- B. Spanner
- C. Cloud SQL
- D. Bigtable

**Answer:** B

**Explanation:**

Spanner is a global scale Database that Support SQL querying, Similar to PostgreSQL, Which will be regional. So that will be a fairly smooth move, Since they have the time and the funding, they can plan for this migration.

**NEW QUESTION 276**

- (Exam Topic 2)

What is a key difference between VMs and containers?

- A. Virtual Machines take less time to launch; containers take longer to launch.
- B. Virtual Machines can only run Linux; containers can run any operating system.
- C. Virtual Machines use a shared operating system and are therefore lighter; containers are heavier on resources.
- D. Each Virtual Machine in a machine has its own operating system; containers will share the same operating system.

**Answer:** D

**Explanation:**

VMs have their individual OSs. All containers on a node use the host operating system.

**NEW QUESTION 277**

- (Exam Topic 2)

Your client is building a custom machine learning pipeline to identify lesions in the lungs based on x-rays. Different teams of data scientists are sharing common source data and building many ver-sions of ML models. Which of these Cloud Storage options would be best for them?

- A. Retain the data in use in a single region bucket with nearline storag
- B. Retain the data in use in a dual-region bucket.
- C. Retain the data in use in a single region bucket with standard storage.
- D. Retain the data in use in a multi-region bucket.
- E. Retain the data in use in a dual-region bucket.

**Answer:** B

**Explanation:**

Integrated repository for analytics and ML: The highest level of availability and performance within a single region is ideal for compute, analytics, and machine learning workloads in a particular region. Cloud Storage is also strongly consistent, giving you confidence and accuracy in analytics workloads.

Table Description automatically generated with medium confidence

**Standard storage**

Standard storage is best for data that is frequently accessed ("hot" data) and/or stored for only brief periods of time.

When used in a region, Standard storage is appropriate for storing data in the same location as [Google Kubernetes Engine clusters](#) or [Compute Engine instances](#) that use the data. Co-locating your resources maximizes the performance for data-intensive computations and can reduce network charges.

When used in a dual-region, you still get optimized performance when accessing Google Cloud products that are located in one of the associated regions, but you also get the improved availability that comes from storing data in geographically separate locations.

When used in a multi-region, Standard storage is appropriate for storing data that is accessed around the world, such as serving website content, streaming videos, executing interactive workloads, or serving data supporting mobile and gaming applications.

**Availability**

The availability of Standard storage data is:

Location Type	Availability SLA <sup>1</sup>	Typical monthly availability
multi-region	99.95%	>99.99%
dual-region	99.95%	>99.99%

<https://cloud.google.com/storage/docs/storage-classes>

**NEW QUESTION 281**

- (Exam Topic 2)

What cloud service model would you want to select if you want to solve a particular busi-ness problem by providing CRM services in the cloud to your enterprises?

- A. CaaS
- B. SaaS
- C. PaaS
- D. IaaS

**Answer:** B

**Explanation:**

SaaS – Software as a Service (SaaS) provides you a complete product that is run and managed by the service provider. You worry only about using the software and not about infrastructure.

SaaS provides the lowest level of flexibility and management control over the infrastructure. (Example: Google Gsuite and MS O365)

**NEW QUESTION 284**

- (Exam Topic 2)

Considering Google Cloud Storage different Options which of the following is / are correct on the basis of their real world use cases?

- A. Cloud Storage : Images, Large Media, files , backups.
- B. Google Cloud BigTable : AdTech, Financial and IoT Data.
- C. Cloud SQL : User Credentials, customer orders.
- D. All of the Above.

**Answer:** D

**Explanation:**

Cloud Datastore is the best for semi-structured application data that is used in app engines' applications. Bigtable is best for analytical data with heavy read/write events like AdTech, Financial or IoT data. Cloud Storage is best for structured and unstructured, binary or object data like images, large media files and backups. SQL is best for web frameworks and in existing applications like storing user credentials and customer orders. Cloud Spanner is best for large scale database applications that are larger than two terabytes; for example, for financial trading and e-commerce use cases. As I mentioned at the beginning of the module, depending on your application, you might use one or several of these services to get the job done.

**NEW QUESTION 288**

- (Exam Topic 2)

Firebase Hosting provides the following services

- A. Dynamic content
- B. Static content.
- C. Microservices.
- D. All of the Above.

**Answer:** D

**Explanation:**

Firebase Hosting- Firebase Hosting provides fast and secure hosting for your web app, static and dynamic content, and microservices.

Firebase Hosting is production-grade web content hosting for developers. With a single command, you can quickly deploy web apps and serve both static and dynamic content to a global CDN (content delivery network). You can also pair Firebase Hosting with Cloud Functions or Cloud Run to build and host microservices on Firebase.

Key capabilities of Firebase Hosting:

Serve content over a secure connection:- The modern web is secure. Zero-configuration SSL is built into Firebase Hosting, so content is always delivered securely.

Host static and dynamic content plus microservices:- Firebase Hosting supports all kinds of content for hosting, from your CSS and HTML files to your Express.js microservices or APIs.

Deliver content fast: Each file that you upload is cached on SSDs at CDN edges around the world and served as gzip or Brotli. We auto-select the best compression method for your content. No matter where your users are, the content is delivered fast.

**NEW QUESTION 291**

- (Exam Topic 2)

In terms of Cloud SQL for MySQL Features offered by Google Cloud Platform which of the statements is/are correct?

- A. Do not support Private IP (private service access).
- B. Customer data is encrypted on Google's internal networks and in database tables, temporary files, and backups.
- C. Do not Provide automated and on-demand backups and point-in-time recovery.
- D. None of the above

**Answer:** B

**Explanation:**

Cloud SQL for MySQL:

Features

- Fully managed MySQL Community Edition databases in the cloud.
- Cloud SQL instances support MySQL 8.0, 5.7 (default), and 5.6, and provide up to 624 GB of RAM and 64 TB of data storage, with the option to automatically increase the storage size, as needed.
- Create and manage instances in the Google Cloud Console.
- Instances are available in the Americas, EU, Asia, and Australia.
- Customer data is encrypted on Google's internal networks and in database tables, temporary files, and backups.
- Support for secure external connections with the Cloud SQL Auth proxy or with the SSL/TLS protocol.
- Support for private IP (private services access).
- Data replication between multiple zones with automatic failover.
- Import and export databases using mysqldump, or import and export CSV files.
- Support for MySQL wire protocol and standard MySQL connectors.
- Automated and on-demand backups and point-in-time recovery.
- Instance cloning.
- Integration with Google Cloud's operations suite logging and monitoring.

**NEW QUESTION 293**

- (Exam Topic 2)

Your customer has a reporting tool that is only occasionally used by the leadership team. Usage of it is frequent - once a week, once a month, or once the quarter. They want to run this application in a cost-effective manner. What are the compute options available on Google Cloud which would be suitable? (Choose Two answer)

- A. Cloud Run
- B. Cloud App Engine Standard
- C. Compute Engine
- D. Kubernetes Engine

**Answer:** AB

**Explanation:**

Since the use of the tool is infrequent/intermittent, you can choose to compute options that are serverless. Both Cloud Run and Cloud App Engine Standard are serverless options that can shut down to zero. Since cost-effectiveness is a requirement, this will not cost anything during the periods it is not used.

**NEW QUESTION 295**

- (Exam Topic 2)

What type of cloud computing service provides raw compute, storage, and network, organized in ways that are familiar to physical data centers?

- A. Database as a Service.
- B. Platform as a Service.
- C. Infrastructure as a Service.
- D. Software as a Service.

**Answer:** C

**Explanation:**

What is Infrastructure as a service :

IaaS (infrastructure as a service) is a computing model that offers resources on-demand to businesses and individuals via the cloud.

IaaS is attractive because acquiring computing resources to run applications or store data the traditional way requires time and capital. Enterprises must purchase equipment through procurement processes that can take months. They must invest in physical spaces: typically specialized rooms with power and cooling. And after deploying the systems, enterprises need IT, professionals, to manage them.

All this is challenging to scale when demand spikes or the business grows. Enterprises risk running out of capacity or overbuilding and ending up with infrastructure that suffers from low utilization.

These challenges are why IaaS use is steadily growing. Learn more about Compute Engine, Cloud Storage, etc.

**NEW QUESTION 300**

- (Exam Topic 2)

In terms of Infrastructure as a Service (IaaS) what are the benefits of it?

- A. IaaS offers virtually infinite flexibility and scalability, enterprises can get their work done more efficiently, ensuring faster development life cycles.
- B. IaaS resources are regularly available to businesses when they need the
- C. As a result, enterprises reduce delays when expanding infrastructure and, alternatively, don't waste resources by overbuilding capacity.
- D. IaaS resources are used on demand and enterprises only have to pay for the compute, storage, and networking resources that are actually used, IaaS costs are fairly predictable and can be easily contained and budgeted for.
- E. All of the Above

**Answer:** D

**Explanation:**

These are the feature of Infrastructure as a Service (IaaS) It's economical

Because IaaS resources are used on demand and enterprises only have to pay for the compute, storage, and networking resources that are actually used, IaaS costs are fairly predictable and can be easily contained and budgeted for.

It's efficient

IaaS resources are regularly available to businesses when they need them. As a result, enterprises reduce delays when expanding infrastructure and, alternatively, don't waste resources by overbuilding capacity.

It boosts productivity

Because the cloud provider is responsible for setting up and maintaining the underlying physical infrastructure, enterprise IT departments save time and money and can redirect resources to more strategic activities.

It's reliable

IaaS has no single point of failure. Even if any one component of the hardware resources fails, the service will usually still remain available.

It's scalable

One of the biggest advantages of IaaS in cloud computing is the capability to scale the resources up and down rapidly according to the needs of the enterprise.

It drives faster time to market

Because IaaS offers virtually infinite flexibility and scalability, enterprises can get their work done more efficiently, ensuring faster development life cycles.

**NEW QUESTION 303**

- (Exam Topic 3)

An organization is altering their gaming product so that it is compatible with cloud technology. What can they expect when moving from traditional technology to cloud technology?

- A. No change to existing responsibilities
- B. A shift toward OpEx
- C. A shift toward using structured data
- D. Increased hardware maintenance

**Answer:** B

### NEW QUESTION 305

- (Exam Topic 3)

An organization has an on-premises IT infrastructure. Their customer-facing application repeatedly fails during peak usage. What could be causing this issue?

- A. A serverless compute function struggles to scale.
- B. The application contains unclean data.
- C. They don't have enough servers to meet the demand.
- D. The application is only configurable on-premises.

**Answer: C**

### NEW QUESTION 309

- (Exam Topic 3)

An organization has servers running mission-critical workloads on-premises around the world. They want to modernize their infrastructure with a multi-cloud architecture.

What benefit could the organization experience?

- A. Ability to disable regional network connectivity during cyber attacks
- B. Ability to keep backups of their data on-premises in case of failure
- C. Full management access to their regional infrastructure
- D. Reduced likelihood of system failure during high demand events

**Answer: D**

### NEW QUESTION 312

- (Exam Topic 3)

An organization finds that the amount of cash in their vending machines doesn't match the value of items sold. They have decided to upgrade their vending machines with cloud-based mobile payment systems.

How could the organization benefit from this upgrade?

- A. They could relax data access permissions.
- B. They could reduce their error budget overspend.
- C. They could improve their perimeter security.
- D. They could view data history to see transactions.

**Answer: D**

### NEW QUESTION 317

- (Exam Topic 3)

Why should an organization consider the total cost of ownership (TCO) when moving from on-premises to the cloud?

- A. To evaluate error budget
- B. To understand service level availability
- C. To evaluate return on investment
- D. To calculate required compute power

**Answer: C**

### NEW QUESTION 319

- (Exam Topic 3)

An organization wants to build an entirely new infrastructure and applications in the cloud. Which application modernization approach should the organization use?

- A. Move the application to the cloud, and then change it.
- B. Change their application, and then move it to the cloud.
- C. Invent in greenfield.
- D. Invent in brownfield.

**Answer: C**

#### Explanation:

A Greenfield approach is a brand-new implementation, where companies then add their needed configurations and customizations. This approach provides a clean slate to start from, does not carry over needless customizations and technical debt, and provides a solid foundation for business process re-engineering. A greenfield deployment is the design, installation and configuration of computer infrastructure where none existed before, for example, in a new office. In contrast, a brownfield deployment is an upgrade or addition to existing infrastructure using legacy components.

### NEW QUESTION 320

- (Exam Topic 3)

An organization wants to use BigQuery data analytics to understand their website performance, but wants to move only some data into the cloud. Which environment should the organization use?

- A. Private cloud
- B. On-premises
- C. Multi-cloud
- D. Hybrid cloud

**Answer: D**

**Explanation:**

The assumption should be made that there is still a private network involved. Hybrid clouds always include a private cloud and are typically managed as one entity. Multi-clouds always include more than one public cloud service, which often perform different functions.

**NEW QUESTION 323**

- (Exam Topic 3)

An organization is training a machine learning model to make predictions. What could improve the prediction accuracy of their model?

- A. An increase in storage capacity
- B. Higher network bandwidth
- C. An increase in training data
- D. Faster CPU processors

**Answer: C**

**NEW QUESTION 327**

- (Exam Topic 3)

A global organization is developing an application to manage payments and online bank accounts in multiple regions. Each transaction must be handled consistently in their database, and they anticipate almost unlimited growth in the amount of data stored. Which Google Cloud product should the organization choose?

- A. Cloud SQL
- B. Cloud Spanner
- C. Cloud Storage
- D. BigQuery

**Answer: B**

**NEW QUESTION 332**

- (Exam Topic 3)

Why is data stored in Google Cloud secure and private?

- A. Data is encrypted by the Security Command Center
- B. Data is encrypted by Cloud Data Loss Prevention
- C. Data is encrypted by default
- D. Data is encrypted when an appropriate tag is applied

**Answer: C**

**Explanation:**

<https://cloud.google.com/docs/security/encryption/default-encryption#:~:text=Google%20uses%20the%20Adva>

**NEW QUESTION 337**

- (Exam Topic 3)

An organization wants a cost-effective relational database. Which Google Cloud service should the organization use?

- A. Cloud Storage
- B. BigQuery
- C. Cloud SQL
- D. Dataflow

**Answer: C**

**NEW QUESTION 339**

- (Exam Topic 3)

An organization needs to categorize text-based customer reviews on their website using a pre-trained machine learning model. Which Google Cloud product or service should the organization use?

- A. Cloud Natural Language API
- B. Dialogflow
- C. Recommendations AI
- D. TensorFlow

**Answer: A**

**Explanation:**

<https://cloud.google.com/natural-language>

Use entity analysis to find and label fields within a document—including emails, chat, and social media—and then sentiment analysis to understand customer opinions to find actionable product and UX insights.

**NEW QUESTION 341**

- (Exam Topic 3)

An organization wants to leverage tooling and automation as part of its new DevOps philosophy. Which operational challenge will this resolve?

- A. Repetitive manual tasks that hinder workflows
- B. Time-consuming supervision of creative tasks

- C. Distribution and supply-chain issues
- D. Defective technical equipment that limits innovation

**Answer:** A

#### NEW QUESTION 342

- (Exam Topic 3)

A manager wants to review Google Cloud data access among their employees. Who is responsible for defining data access policies?

- A. Cloud Identity
- B. Google Cloud Customer Care team
- C. Their organization's IT team
- D. Their organization's end users

**Answer:** C

#### Explanation:

Cloud Identity and Access Management (IAM) helps customers to define fine-grained access policies and precisely control access to Google Cloud-hosted data.

#### NEW QUESTION 344

- (Exam Topic 3)

An organization wants to migrate legacy applications currently hosted in their data center to the cloud. The current architecture dictates that each application needs its own operating system (OS) instead of sharing an OS.

Which infrastructure solution should they choose?

- A. Virtual machines
- B. Open source
- C. Serverless computing
- D. Containers

**Answer:** A

#### Explanation:

Virtual machines - you can install customized OS Containers - about applications

Virtualization enables you to run multiple operating systems on the hardware of a single physical server, while containerization enables you to deploy multiple applications using the same operating system on a single virtual machine or server. Serverless computing would be no OS required and the open source operating system allows the use of code that is freely distributed and available to anyone and for commercial purposes such as Linux and Free BSD.

#### NEW QUESTION 345

- (Exam Topic 3)

What does Cloud Debugger help an organization do?

- A. Implement code updates in real time without affecting the service level objective (SLO).
- B. Inspect source code in real time without affecting user downtime.
- C. Manage code and accelerate application development.
- D. Analyze live source code during user downtime.

**Answer:** B

#### Explanation:

Cloud Debugger is a feature of Google Cloud Platform that lets you inspect the state of an application, at any code location, without stopping or slowing down the running app. Cloud Debugger makes it easier to view the application state without adding logging statements.

#### NEW QUESTION 348

- (Exam Topic 3)

Why do organizations often struggle to scale their on-premises application infrastructure?

- A. Scaling compute instances could breach compliance and/or regulation
- B. Increasing compute capacity is time-consuming and costly
- C. Their serverless compute functions struggle to meet the demand
- D. Their multi-cloud architecture is complex and expensive

**Answer:** B

#### NEW QUESTION 350

- (Exam Topic 3)

Which technology allows organizations to run multiple computer operating systems on a single piece of physical hardware?

- A. Hypervisor
- B. Containers
- C. Serverless computing
- D. Open source

**Answer:** A

#### NEW QUESTION 355

- (Exam Topic 3)

An organization needs to search an application's source code to identify a potential issue. The application is distributed across multiple containers. Which Google Cloud product should the organization use?

- A. Google Cloud Console
- B. Cloud Trace
- C. Cloud Monitoring
- D. Cloud Logging

**Answer: B**

**Explanation:**

Cloud Trace is supposed to be the correct answer. It's an application performance management tool. It's a Google solution for monitoring application performance. It is a distributed tracing system that helps developers debug or fix and optimize their code

**NEW QUESTION 358**

- (Exam Topic 3)

What is monitoring within the context of cloud operations?

- A. Observing cloud expenditure in real time to ensure that budgets are not exceeded
- B. Collecting predefined and custom metrics from applications and infrastructure
- C. Tracking user activities to guarantee compliance with privacy regulations
- D. Tracing user location to document regional access and utilization

**Answer: B**

**NEW QUESTION 361**

- (Exam Topic 3)

What is an example of structured data that a healthcare facility stores in their system?

- A. X-ray images
- B. Surgery video recordings
- C. Blood pressure history
- D. Physician-written notes

**Answer: C**

**Explanation:**

Physical measures like height, weight, blood pressure, blood type, and stage of the disease can be recorded numerically and they are structured.

**NEW QUESTION 365**

- (Exam Topic 3)

What is logging within the context of cloud technology?

- A. Writing application and operating system events as text
- B. Monitoring network and resource limitations
- C. Tracking source code across an organization
- D. Recording infrastructure and hardware expenditure

**Answer: A**

**Explanation:**

Cloud Logging is a fully managed service that allows you to store, search, analyze, monitor, and alert on logging data and events from Google Cloud and Amazon Web Services

**NEW QUESTION 366**

- (Exam Topic 3)

An organization is migrating their business applications from on-premises to the cloud. How could this impact their operations and personnel costs?

- A. Reduced on-premises infrastructure management costs
- B. Increased on-premises hardware maintenance costs
- C. Reduced cloud software licensing costs
- D. Increased cloud hardware management costs

**Answer: A**

**NEW QUESTION 368**

- (Exam Topic 3)

An organization's developers are growing increasingly frustrated by the limitations of their on-premises infrastructure. How would they benefit from leveraging cloud technology?

- A. They can expect 100% service availability.
- B. They can avoid the limitations of serverless computing.
- C. They can have new tools to innovate and optimize resource usage.
- D. They can optimize maintenance for their on-premises infrastructure.

**Answer: C**

**Explanation:**

Google cloud have vast majority of products/tools that you can use to innovate. Additionally, there are products in google that scale automatically based from usage (Ex. App Engine, Cloud Run, etc.)

**NEW QUESTION 373**

- (Exam Topic 3)

An organization provides a loyalty program for its customers. It recently partnered with other businesses so that customers can get loyalty points at a range of other stores.

Why should the organization use application programming interfaces (APIs)?

- A. To migrate all partner data for disaster recovery
- B. To analyze and publish loyalty program statistics to a dashboard
- C. To personalize recommendations for loyalty card users
- D. To connect third-party systems to ensure up-to-date information

**Answer: D**

**NEW QUESTION 376**

- (Exam Topic 3)

An organization recently launched a virtual customer support agent, generating vast amounts of text and speech data.

Why should they use a cloud data warehouse to interpret this data?

- A. To natively visualize both types of data using a dashboard in real time
- B. To ingest and analyze structured and unstructured data at scale, in real time
- C. To secure data transmission between cloud and on-premises environments
- D. To transform data from structured to unstructured

**Answer: B**

**Explanation:**

Real-time data ingestion and updates. A simple and universal solution for continually ingesting your enterprise data into popular cloud-based data warehouses in real time.

<https://www.qlik.com/us/cloud-data-migration/cloud-data-warehouse>

**NEW QUESTION 378**

- (Exam Topic 3)

How would an organization benefit from using Looker?

- A. Optimal identity and access management
- B. Leading serverless warehousing technology
- C. Robust data roll-back accuracy
- D. Advanced business intelligence and analytics

**Answer: D**

**Explanation:**

Looker is a business intelligence software and big data analytics platform that helps you explore, analyze and share real-time business analytics easily.

**NEW QUESTION 381**

- (Exam Topic 3)

A retail company stores their product inventory in a legacy system. Often, customers find products on the company's website and want to purchase them in-store. However, when they arrive, they discover that the products are out of stock.

How could the company benefit from using an application programming interface (API)?

- A. To create personalized product recommendations for customers
- B. To optimize their on-premises legacy system stability
- C. By manually linking each inventory system to the website on a case-by-case basis
- D. By programmatically connecting the inventory system to their website

**Answer: D**

**Explanation:**

By programmatically connecting the inventory system to their website The issue is the website shows an item is available at the store, but when the customer gets to the store, they find out that item is out of stock.

**NEW QUESTION 384**

- (Exam Topic 3)

An e-commerce organization is reviewing their cloud data storage.

What type of raw data can they store in a relational database without any processing?

- A. Product inventory
- B. Product photographs
- C. Instructional videos
- D. Customer chat history

**Answer: A**

**NEW QUESTION 386**

- (Exam Topic 3)

A food delivery service needs access to real-time menu information from all partner restaurants. They also need to share customer order information with the restaurants in real time.

What should the organization use?

- A. Site reliability engineering (SRE)
- B. An application programming interface (API)
- C. A customized machine learning model
- D. A multi-regional database

**Answer: B**

**NEW QUESTION 387**

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## Relate Links

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