



**Google**

## **Exam Questions Cloud-Digital-Leader**

Google Cloud Digital Leader exam

### NEW QUESTION 1

- (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

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 2

- (Topic 1)

You are leading projects in an IT services company. Your customer's project requires analyzing images. They have many 10s of 1000s of raw images that they have made available to you. Your small technology team needs to build a machine learning model. The images are unlabeled. You don't have the people or the capacity to label the images. What is your approach?

- A. Look for open-source labeled images that closely resemble the given images.
- B. Request data labeling service from Google.
- C. Tell the customer it is their duty to label the images.
- D. Hire temporary workers who can quickly label the images.

**Answer:** C

#### Explanation:

Google's Data Labeling Service lets you work with human labelers to generate highly accurate labels for a collection of data that you can use in machine learning models.

References:

-> <https://cloud.google.com/vertex-ai/docs/datasets/data-labeling-job>

-> <https://cloud.google.com/ai-platform/data-labeling/docs>

### NEW QUESTION 3

- (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 4

- (Topic 1)

Your organization needs to ensure that the Google Cloud resources of each of your departments are segregated from one another. Each department has several environments of its own: development, testing, and production. Which strategy should your organization choose?

- A. Create a project per department, and create a folder per environment in each project.
- B. Create a folder per department, and create a project per environment in each folder.

- C. Create a Cloud Identity domain per department, and create a project per environment in each domain.  
D. Create a Cloud Identity domain per environment, and create a project per department in each domain.

**Answer:** B

**Explanation:**

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.

```
# Template for new folder & new project

folder_resource = {
  'name': 'new-folder',
  'type': 'gcp-types/cloudresourcemanager-v2:folders',
  'properties': {
    'parent': 'organizations/99999',
    'displayName': 'new-folder'
  }
}

project_resource = {
  'name': 'new-project',
  'type': 'clouresourcemanager.v1.project',
  'metadata': { 'dependsOn': ['new-folder'] },
  'properties': {
    'name': 'new-project',
    'parent': {
      'type': 'folder',
      # HERE it is -- the problem!
      'id': '${ref.new-folder.name}'
    }
  }
}

return { 'resources': [folder_resource, project_resource] }
```

Rectangular Snip

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

Reference link- <https://stackoverflow.com/questions/59460623/how-to-create-a-folder-a-project-under-it-with-deployment-manager-google-cloud>

## NEW QUESTION 5

- (Topic 1)

Your organization is releasing its first publicly available application in Google Cloud. The application is critical to your business and customers and requires a 2-hour SLA.

How should your organization set up support to minimize costs?

- A. Enroll in Premium Support  
B. Enroll in Enhanced Support  
C. Enroll in Standard Support  
D. Enroll in Basic Support

**Answer:** B

**Explanation:**

Reference: <https://www.secureauth.com/enhanced-support-offering/>

SecureAuth is dedicated to providing the industry-leading enhancedsupport ensuring the long term success of your SecureAuth SaaS IAM deployment

## NEW QUESTION 6

- (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.

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 7

- (Topic 1)

Your organization is building an application running in Google Cloud. Currently, software builds, tests, and regular deployments are done manually, but you want to reduce work for the team. Your organization wants to use Google Cloud managed solutions to automate your build, testing, and deployment process. Which Google Cloud product or feature should your organization use?

- A. Cloud Scheduler
- B. Cloud Code
- C. Cloud Build
- D. Cloud Deployment Manager

**Answer: C**

#### Explanation:

Deploy your application to App Engine using the gcloud app deploy command. This command automatically builds a container image by using the Cloud Build service and then deploys that image to the App Engine flexible environment.

Reference: <https://cloud.google.com/appengine/docs/flexible/nodejs/testing-and-deploying-your-app>

#### NEW QUESTION 8

- (Topic 1)

An IoT platform is providing services to home security systems. They have more than a million customers, each with many home devices. Burglaries or child safety issues are concerns that the clients customers. Therefore, the platform has to respond very quickly in near real time. What could be a typical data pipeline used to support this platform on Google Cloud?

- A. Cloud Pub/Sub, Cloud Dataflow, Data Studio
- B. Cloud Functions, Cloud Dataproc, Looker
- C. Cloud Pub/Sub, Cloud Dataflow, BigQuery
- D. Cloud Functions, Cloud Dataproc, BigQuery

**Answer: A**

#### Explanation:

Explanation

=> Cloud Pub/Sub- Cloud Pub/Sub is the best to be the end-point for ingesting large amounts of data. It will grow as required, can stream data to downstream systems, and can also work with intermittently available backends.

=> Cloud Dataflow- supports streaming data and therefore is an appropriate option for processing the data that is ingested.

=> BigQuery- BigQuery also supports streaming data and its possible to do real time analytics on it.

=> DataStudio- DataStudio and Looker are for visualization. They don't have any in-built analysis.

=> Cloud Functions- Cloud Functions is a useful serverless endpoint. However, Pub/Sub is better in this case because it can also retain messages for a set period if it was not possible to deliver it first time.

=>Cloud Dataproc- Cloud Dataproc is used for Hadoop/Spark workloads and won't be a good fit here.

#### NEW QUESTION 9

- (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 10

- (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 10

- (Topic 1)

Your company has recently acquired three growing startups in three different countries. You want to reduce overhead in infrastructure management and keep your costs low without sacrificing security and quality of service to your customers. How should you meet these requirements?

- A. Host all your subsidiaries' services on-premises together with your existing services.
- B. Host all your subsidiaries' services together with your existing services on the public cloud.
- C. Build a homogenous infrastructure at each subsidiary, and invest in training their engineers.
- D. Build a homogenous infrastructure at each subsidiary, and invest in hiring more engineers.

**Answer: B**

#### Explanation:

Host all your subsidiaries' services together with your existing services on the public cloud.

#### NEW QUESTION 14

- (Topic 1)

Your organization is developing an application that will capture a large amount of data from millions of different sensor devices spread all around the world. Your organization needs a database that is suitable for worldwide, high-speed data storage of a large amount of unstructured data. Which Google Cloud product should your organization choose?

- A. Firestore
- B. Cloud Data Fusion
- C. Cloud SQL
- D. Cloud Bigtable

**Answer: D**

#### Explanation:

Reference: <https://cloud.google.com/bigtable>

Cloud Bigtable is a sparsely populated table that can scale to billions of rows and thousands of columns, enabling you to store terabytes or even petabytes of data. A single value in each row is indexed; this value is known as the row key. Bigtable is ideal for storing very large amounts of single-keyed data with very low latency. It supports high read and write throughput at low latency, and it is an ideal data source for MapReduce operations.

Bigtable is exposed to applications through multiple client libraries, including a supported extension to the Apache HBase library for Java. As a result, it integrates with the existing Apache ecosystem of open-source Big Data software.

Bigtable's powerful back-end servers offer several key advantages over a self-managed HBase installation:

Incredible scalability. Bigtable scales in direct proportion to the number of machines in

your cluster. A self-managed HBase installation has a design bottleneck that limits the performance after a certain threshold is reached. Bigtable does not have this bottleneck, so you can scale your cluster up to handle more reads and writes.

Simple administration. Bigtable handles upgrades and restarts transparently, and it automatically maintains high data durability. To replicate your data, simply add a second cluster to your instance, and replication starts automatically. No more managing replicas or regions; just design your table schemas, and Bigtable will handle the rest for you.

Cluster resizing without downtime. You can increase the size of a Bigtable cluster for a few hours to handle a large load, then reduce the cluster's size again—all without any downtime. After you change a cluster's size, it typically takes just a few minutes under load for Bigtable to balance performance across all of the nodes in your cluster.

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#### NEW QUESTION 18

- (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 21

- (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 23

- (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 26

- (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 27

- (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 29

- (Topic 1)

A company with its own private data center has called you in for help with their disaster recovery planning. News of multiple ransomware attacks has made them very anxious. They want to make they are well prepared for such an eventuality. Which of these would be good recommendations?

- A. It is better to have redundancy; so, set up another private data center nearby so that you can quickly go over in case of an emergency.
- B. It is better to have redundancy; use one or many of the Google Cloud datacenters as a backup location.
- C. The one data center is enough, as long as the data is encrypted; attackers won't be able to read the data.
- D. The one data center is enough as long as you regularly back up data and save it in another place in the same DC.

**Answer:** B

**Explanation:**

A single data center is vulnerable. So any option involving that is not good. Reference Link:- <https://www.coresite.com/blog/data-center-redundancy>

#### NEW QUESTION 32

- (Topic 1)

Your organization recently migrated its compute workloads to Google Cloud. You want these workloads in Google Cloud to privately and securely access your large volume of on- premises data, and you also want to minimize latency.

What should your organization do?

- A. Use Storage Transfer Service to securely make your data available to Google Cloud
- B. Create a VPC between your on-premises data center and your Google resources
- C. Peer your on-premises data center to Google's Edge Network
- D. Use Transfer Appliance to securely make your data available to Google Cloud


**Answer:** C

**Explanation:**

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## Direct Peering overview

[Send feedback](#)

Direct Peering enables you to establish a direct [peering](#)  connection between your business network and Google's edge network and exchange high-throughput cloud traffic.

This capability is available at any of more than 100 locations in 33 countries around the world. For more information about Google's edge locations, see [Google's peering site](#).

When established, Direct Peering provides a direct path from your on-premises network to Google services, including Google Cloud products that can be exposed through one or more public IP addresses. Traffic from Google's network to your on-premises network also takes that direct path, including traffic from VPC networks in your projects. Google Cloud customers must request that direct egress pricing be enabled for each of their projects after they have established Direct Peering with Google. For more information, see [Pricing](#).

Direct Peering exists outside of Google Cloud. Unless you need to access Google Workspace applications, the recommended methods of access to Google Cloud are [Dedicated Interconnect](#) or [Partner Interconnect](#).

For a description of the differences between Direct Peering and Cloud Interconnect, see the [comparison table](#).

Description automatically generated <https://cloud.google.com/network-connectivity/docs/direct-peering>

#### NEW QUESTION 35

- (Topic 1)

What are the key features of Google Cloud Identity.

- A. Multi-factor authentication (MFA)
- B. Single sign-on (SSO)
- C. Works with your favorite apps and Endpoint management
- D. All of the Above

**Answer:** D

**Explanation:**

Cloud Identity:

A unified identity, access, app, and endpoint management (IAM/EMM) platform.

- Give users easy access to apps with single sign-on.
- Multi-factor authentication protects user and company data.
- Endpoint management enforces policies for personal and corporate devices

KEY FEATURES :

Modernize IT and strengthen security Multi-factor authentication (MFA)

Help protect your user accounts and company data with a wide variety of MFA verification methods such as push notifications, Google Authenticator, phishing-resistant Titan Security Keys, and using your Android or iOS device as a security key.

Endpoint management

Improve your company's device security posture on Android, iOS, and Windows devices using a unified console. Set up devices in minutes and keep your company data more secure with endpoint management. Enforce security policies, wipe company data, deploy apps, view reports, and export details.

Single sign-on (SSO)

Enable employees to work from virtually anywhere, on any device, with single sign-on to thousands of pre-integrated apps, both in the cloud and on-premises.

Works with your favorite apps

Cloud Identity integrates with hundreds of cloud applications out of the box—and we're constantly adding more to the list so you can count on us to be your single identity platform today and in the future.

#### NEW QUESTION 38

- (Topic 1)

Your organization runs many workloads in different Google Cloud projects, each linked to the same billing account. Each project's workload costs can vary from month to month, but the overall combined cost of all projects is relatively stable. Your organization needs to optimize its cost.

What should your organization do?



- A. Purchase a commitment per project for each project's usual minimum
- B. Create a billing account per project, and link each project to a different billing account
- C. Turn on committed use discount sharing, and create a commitment for the combined usage
- D. Move all workloads from all different projects into one single consolidated project

Answer: C

Explanation:

Turn on committed use discount sharing, and create a commitment for the combined usage  
Sharing your committed use discounts across all your projects reduces the overhead of managing discounts on a per-project basis, and maximizes your savings by pooling all your discounts across your projects' resource usage. If you have multiple projects that share the same Cloud Billing account, you can enable committed use discount sharing so all of your projects within that Cloud Billing account share all of your committed use discount contracts. Your sustained use discounts are also pooled at the same time. That is, sustained use discounts are calculated using the total resources across these projects, rather than just the resources within a single project.

Sharing committed use discounts across projects

Sharing your committed use discounts across all your projects reduces the overhead of managing discounts on a per-project basis, and maximizes your savings by pooling all your discounts across your projects' resource usage.

If you have multiple projects that share the same Cloud Billing account, you can [enable committed use discount sharing](#) so all of your projects within that Cloud Billing account share all of your committed use discount contracts. Your sustained use discounts are also pooled at the same time. That is, sustained use discounts are calculated using the total resources across these projects, rather than just the resources within a single project.

For example, if you purchase two commitment contracts for a total of 160 cores, and you run 200 cores during the month, you will receive committed use discounts for 160 cores across the projects that used them. The additional 40 cores will be billed at on-demand, non-committed use rates. After you purchase a set amount of commitments, you're billed for those commitments monthly, even if you don't use them. For example, if you purchase commitments for 160 cores, you're billed the committed use rates for those 160 cores for the whole month, even if don't use them. See [Understanding discount sharing](#) for cost-saving utilization recommendations.

Reference link- [https://cloud.google.com/compute/docs/instances/signing-up-committed-use-discounts#sharing\\_committed\\_use\\_discounts\\_across\\_projects](https://cloud.google.com/compute/docs/instances/signing-up-committed-use-discounts#sharing_committed_use_discounts_across_projects)

NEW QUESTION 41

- (Topic 1)  
A retail store has discovered a cost-effective solution for creating self-service kiosks. They can use existing check-out hardware and purchase a virtual customer service application. Why do they also need an API?

- A. To connect the check-out hardware to the public cloud.
- B. To connect the new application with the legacy system.
- C. To migrate all customer data for disaster recovery.
- D. To update the check-out hardware remotely.

Answer: B

Explanation:

APIs can create new business value by connecting legacy systems (the checkout hardware) with new software (the virtual customer service application).

NEW QUESTION 42

- (Topic 1)  
Your organization wants to be sure that is expenditures on cloud services are in line with the budget. Which two Google Cloud cost management features help your organization gain greater visibility into its cloud resource costs? (Choose two.)

- A. Billing dashboards
- B. Resource labels
- C. Sustained use discounts
- D. Financial governance policies
- E. Payments profile

Answer: AB

Explanation:

Resource hierarchy	Structure and organize your <a href="#">resource hierarchy</a> for fine-grained management and cost allocation using organizations, folders, projects, and labels.
Billing access control	Enforce organizational policies with granular <a href="#">permissions</a> at different levels in the resource hierarchy to control who can spend and who has administrative and cost-viewing permissions.

Description automatically generated with medium confidence  
A label is a key-value pair that helps you organize your Google Cloud resources. You can attach a label to each resource, then filter the resources based on their



labels. Information about labels is forwarded to the billing system, so you can break down your billed charges by label.  
Reference link- <https://cloud.google.com/cost-management>

#### NEW QUESTION 45

- (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 47

- (Topic 1)

Your company has been using a shared facility for data storage and will be migrating to Google Cloud. One of the internal applications uses Linux custom images that need to be migrated.

Which Google Cloud product should you use to maintain the custom images?

- A. App Engine flexible environment
- B. Compute Engine
- C. App Engine standard environment
- D. Google Kubernetes Engine

**Answer:** B

#### Explanation:

Reference: <https://cloud.google.com/compute/docs/images/create-delete-deprecate-private-images>

A custom image is a boot disk image that you own and control access to. Use custom images for the following tasks:

Import a virtual disk to Compute Engine from your on-premises environment or from VMs that are running on your local workstation or on another cloud platform.

You can manually import boot disk images to Compute Engine, but one disk at a time.

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

<https://cloud.google.com/compute/docs/images>

#### NEW QUESTION 50

- (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:

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 51

- (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-cloud>

## NEW QUESTION 52

- (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 55

- (Topic 1)

A video game organization has invested in cloud technology to generate insights from user behaviors. They want to ensure recommendations of games are aligned to players' interests. What may have prompted this business decision?

- A. Customers expect faster time to market for games.
- B. Employees expect source code changes to be deployed faster.
- C. Customers expect a personalized experience.
- D. Employees expect more predictable data management spending.

**Answer:** C

### Explanation:

Because in the cloud era, users expect more personalization and customization.

## NEW QUESTION 57

- (Topic 1)

Which Google Cloud service or feature lets you build machine learning models using Standard SQL and data in a data warehouse?

- A. BigQuery ML
- B. TensorFlow
- C. AutoML Tables
- D. Cloud Bigtable ML

**Answer:** A

**Explanation:**

BigQuery ML lets you create and execute machine learning models in BigQuery using standard SQL queries.

Reference: <https://cloud.google.com/bigquery-ml/docs/introduction#:~:text=BigQuery%20ML%20lets%20you%20create,the%20need%20to%20move%20data>

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

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

**NEW QUESTION 62**

- (Topic 1)

Your team has developed a machine learning model for your customer. The test results indicate very strong predictive capability. The model is then deployed in production. Evaluation of the predictions in production show that they are off by a pronounced margin. What is the issue and how can you solve for it?

- A. The model is under fitted
- B. Train with less data.
- C. The model is over fitted
- D. Add more features to the model to fix it.
- E. The model is fine since the test results are good
- F. Fix the production of incoming data.
- G. The model is overfitted
- H. Train with more data.

**Answer:** D

**Explanation:**

If our ML model does well on the training set than on the production set, then we're likely over fitting. Training with more data would be one solution.

**NEW QUESTION 64**

- (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 66**

- (Topic 3)

An organization needs frequent access to only a subset of their data. They want to reduce costs by depositing the rest of their data across Nearline Coldline and Archive repositories

Which Google Cloud product should the organization use?

- A. Filestore
- B. Cloud Spanner
- C. Data Catalog
- D. Cloud Storage

**Answer:** D

**Explanation:**

Per Google docs, specifically for GCP Cloud Storage there exists four types of storage with one of them, standard storage, being described as "storage for data that is frequently accessed ("hot" data) and/or stored for only brief periods of time." <https://cloud.google.com/storage>

**NEW QUESTION 69**

- (Topic 3)

An organization needs to categorize a large group of photographs using pre-trained machine learning.

Which Google Cloud product or service should the organization use?

- A. Vision API
- B. BigQuery ML
- C. AutoML Vision
- D. Looker

**Answer:** A

**Explanation:**



<https://cloud.google.com/vision>

#### NEW QUESTION 70

- (Topic 3)

An organization is looking for a storage solution that will help them serve content to users worldwide. They need a solution that offers a high level of availability. What feature of Cloud Storage would they benefit from?

- A. Global metadata
- B. Object versioning
- C. Data encryption
- D. Multi-regional storage

**Answer:** D

#### NEW QUESTION 71

- (Topic 3)

A large retail organization uses traditional technology for their ecommerce website. During peaks in traffic, resources are often underutilized or overprovisioned. They have decided to migrate to cloud technology. What aspect of cloud technology will benefit their ecommerce business?

- A. Agile infrastructure means that they only pay for what they need, when they need it
- B. Shared responsibility means that the cloud provider brings increased visibility during peaks in traffic
- C. Operational expenditure means that their total cost of ownership is more predictable
- D. Unlimited storage means that their website will never experience downtime

**Answer:** A

#### NEW QUESTION 73

- (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 75

- (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 80

- (Topic 3)

An organization is making a strategic change to customer support in response to feedback. They plan to extend their helpline availability hours. Why is the organization making this change?

- A. Users expect professional expertise
- B. Users require personalization
- C. Users expect always-on services
- D. Users require regional access

**Answer:** C

#### NEW QUESTION 82

- (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 85

- (Topic 3)

How can a streaming service meet global compliance requirements using the cloud?

- A. By automatically encrypting personally identifiable information
- B. By obtaining a business license to operate in a new market
- C. By allowing users to disable two-factor authentication
- D. By adhering only to data polices of the country in which the head office is registered

**Answer:** A

#### NEW QUESTION 90

- (Topic 3)

An organization wants to build autoscaling web applications without having to manage application infrastructure  
Which Google Cloud product should they use?

- A. App Engine
- B. AutoML
- C. Anthos
- D. Apigee

**Answer:** A

#### Explanation:

Per Google docs, App Engine, allows for "freeing up your developers with zero server management and zero configuration deployments".  
<https://cloud.google.com/appengine>

#### NEW QUESTION 92

- (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 97

- (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 102

- (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%20Advanced%20Encryption,to%202015%20that%20use%20AES128>

#### NEW QUESTION 105

- (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 109

- (Topic 3)

An organization needs to migrate specialized workloads to the cloud while maintaining their existing complex licensing and architecture.

What Google Cloud solution should the organization use?

- A. Compute Engine
- B. Bare Metal Solution
- C. Cloud Run
- D. Cloud Functions

**Answer:** B

#### Explanation:

“This solution provides a path to modernize your application infrastructure landscape, while maintaining your existing investments and architecture. With Bare Metal Solution, you can bring your specialized workloads to Google Cloud, allowing you access and integration with GCP services with minimal latency.”

#### NEW QUESTION 114

- (Topic 3)

An organization decides to migrate their on-premises environment to the cloud. They need to determine which resource components still need to be assigned ownership.

Which two functions does a public cloud provider own? (Choose 2) Choose 2 answers

- A. Fixing application security issues
- B. Infrastructure architecture
- C. Hardware capacity management
- D. Hardware maintenance
- E. Infrastructure deployment automation

**Answer:** CD

#### NEW QUESTION 116

- (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 118

- (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 122

- (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 124

- (Topic 3)

An organization operates their entire IT infrastructure from Google Cloud. What should they do to prepare for data breaches?



- A. Reduce reliance on multi-factor authentication
- B. Data security is Google's responsibility, so preparation is minimal
- C. Create an incident plan to mitigate impacts
- D. Strengthen their data center perimeter security

**Answer:** C

#### NEW QUESTION 127

- (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 132

- (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 135

- (Topic 3)

An organization is struggling to meet user demand for change and wants to modernize their legacy applications by moving the applications to the cloud. Why would this help the organization satisfy user expectations'?

- A. Toil automation helps make automatic updates
- B. Updates can be pushed out more quickly to repair bugs
- C. Customer data can be used to offer tailored content
- D. DevOps requires that industry trends be measured and tracked

**Answer:** B

#### Explanation:

Moving legacy applications to the cloud can help organizations satisfy user expectations by enabling them to push out updates more quickly to repair bugs.

#### NEW QUESTION 138

- (Topic 3)

An organization needs a platform to create custom end-to-end artificial intelligence models. Which Google Cloud product or service should the organization use?

- A. Dataproc
- B. Compute Engine
- C. Recommendations AI
- D. Vertex AI

**Answer:** D

#### Explanation:

Recommendations AI enables you to build an end-to-end personalized recommendation system based on state-of-the-art deep learning ML models, without a need for expertise in ML or recommendation systems. With Vertex AI, both AutoML training and custom training are available options. Whichever option you choose for training, you can save models, deploy models, and request predictions with Vertex AI. <https://cloud.google.com/vertex-ai>

#### NEW QUESTION 139

- (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 142

- (Topic 3)

An organization is moving away from an on-premises infrastructure. Instead, they want to create, access, and share information virtually in the cloud. What should the organization consider?

- A. Built-in security when moving their data to the cloud
- B. Replacing their perimeter security with data encryption keys
- C. Optimizing cost-management with a capital expenditure model
- D. Increased hardware capacity when moving their data to the cloud

**Answer:** A

#### NEW QUESTION 143

- (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 144

- (Topic 3)

How would a global organization benefit from managing their data with Cloud Spanner?

- A. Cloud Spanner is optimized for cold storage
- B. Cloud Spanner replicates data across regions in real time
- C. Cloud Spanner is optimized to ingest unstructured data
- D. Cloud Spanner visualizes and analyzes data in real time

**Answer:** B

#### Explanation:

Spanner is Google's scalable, multi-version, globally-distributed, and synchronously-replicated database.

#### NEW QUESTION 146

- (Topic 3)

An organization has decided to modernize their applications in the cloud to keep up with their customers' needs. What may have prompted this business decision?

- A. Their on-premises applications only autoscale to meet demand.
- B. They want to change from a pay-as-you-go model to a capital expenditure model.
- C. Their source code changes erroneously without developer interaction.
- D. Their on-premises applications take months to update and deploy.

**Answer:** D

#### NEW QUESTION 147

- (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 151

- (Topic 3)

An organization wants to write and run small pieces of code in a serverless way that respond to events like huge discounts. Which Google Cloud compute solution should the organization use?

- A. Google Kubernetes Engine
- B. Cloud Functions
- C. Bare Metal Solution
- D. Compute Engine

**Answer:** B

#### NEW QUESTION 154

- (Topic 3)

What DevOps practice should an organization use when developing their application to help minimize disruption caused by bugs?

- A. Pause production until all bugs have been eliminated
- B. Prioritize fixing large bugs during production because they are easier to review
- C. Implement small changes incrementally to reduce recovery time when bugs appear
- D. Implement large changes together to make rolling back easier when bugs appear

**Answer:** C

**Explanation:**

One of the key principles of DevOps is to release changes frequently and in small batches. This helps to reduce the risk of disruption caused by bugs. If a bug is introduced in a small change, it is easier to identify and fix the bug without affecting a large number of users.

**NEW QUESTION 157**

- (Topic 3)

An organization notices that some of their cloud expenditures are too high. What should the organization do to control costs?

- A. Streamline the hardware procurement process to reduce costs.
- B. Share cost views with the departments to establish more accountability.
- C. Change the cost model from operational expenditure to capital expenditure.
- D. Ensure that all cloud resources are tagged with a single tag.

**Answer:** B

**NEW QUESTION 160**

- (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 162**

- (Topic 3)

An organization wants to upskill their IT staff. How can they do this in a transformational way?

- A. Prioritize training current employees instead of hiring new recruits with cloud experience.
- B. Prioritize giving privileged access to third-party partners and contractors to fill IT knowledge gaps.
- C. Create a culture of self-motivated, isolated learning with official training materials.
- D. Create a culture of continuous peer-to-peer learning with official training materials.

**Answer:** D

**NEW QUESTION 163**

- (Topic 3)

An organization wants to use Apigee to manage all their application programming interfaces (APIs).

What will Apigee enable the organization to do?

- A. Increase application privacy
- B. Measure and track API performance Most Voted
- C. Analyze application development speed
- D. Market and sell APIs

**Answer:** B

**Explanation:**

Apigee's API Monitoring enables you to track your APIs to make sure they are up and running correctly. API Monitoring provides near real-time insights into API traffic and performance, to help you quickly diagnose and solve issues as they arise.

Apigee works with APIs not necessarily applications. It allows organizations to gain actionable insights across the entire API value chain and monetize API products and maximize the business value of digital assets. <https://cloud.google.com/apigee#section-11>

**NEW QUESTION 168**

- (Topic 3)

An organization needs to store structured, semi-structured, and unstructured data in its raw, native format in the same repository.

Which cloud data management solution should the organization use?

- A. Data field
- B. Data lake
- C. Database
- D. Data warehouse

**Answer:** B

**Explanation:**



A data lake can store all types of data with no fixed limitation on account size or file and with no specific purpose defined yet. The data comes from disparate sources and can be structured, semi-structured, or even unstructured. Data-lake data can be queried as needed.

<https://cloud.google.com/learn/what-is-a-data-lake>

A data lake is a centralized repository designed to store, process, and secure large amounts of structured, semistructured, and unstructured data. It can store data in its native format and process any variety of it, ignoring size limits.

#### NEW QUESTION 172

- (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 173

- (Topic 3)

An organization needs to run frequent updates for their business app. Why should the organization use Google Kubernetes Engine (GKE)?

- A. Customer expectations can be adjusted without using marketing tools
- B. Seamless changes can be made without causing any application downtime.
- C. GKE handles version control seamlessly and out of the box
- D. GKE is well suited for all monolithic applications

**Answer:** B

#### Explanation:

<https://cloud.google.com/architecture/migrating-a-monolithic-app-to-microservices-gke>

#### NEW QUESTION 175

- (Topic 3)

An organization is searching for an open-source machine learning platform to build and deploy their own custom machine learning applications using TPUs. Which Google Cloud product or service should the organization use?

- A. TensorFlow
- B. BigQuery ML
- C. Vision API
- D. AutoML Vision

**Answer:** A

#### Explanation:

<https://en.wikipedia.org/wiki/TensorFlow> TensorFlow is a free and open-source software library for machine learning and artificial intelligence. Developer Google Brain Team

#### NEW QUESTION 176

- (Topic 3)

Several departments in an organization are working together on a project. The organization wants to customize access to resources for each department. What is the quickest and most efficient way to achieve this?

- A. By mapping IAM roles to job functions for each department
- B. By assigning IAM primitive roles to each employee
- C. By applying least-privilege to roles for each employee
- D. By creating a single shared service account for all departments

**Answer:** A

#### NEW QUESTION 181

- (Topic 3)

An organization wants its users to validate a series of new features for their app. Why should they use App Engine?

- A. Because their app is containerized and enabled by microservices
- B. Because the updated app will only include new features
- C. To run different versions of the app for different users
- D. To run different versions of the app for the same user

**Answer:** C

#### NEW QUESTION 185

- (Topic 3)

An organization wants to move from a tactical cloud adoption approach to a transformational approach. How should they adapt the way they lead the organization?

- A. Increase top-down visibility and foster a culture of blamelessness
- B. Shift from an operational expenditure model to capital expenditure
- C. Drive cloud adoption with an individual contributor focus
- D. Invest in on-premises infrastructure to redesign relationships between IT and employees

**Answer:** A

#### NEW QUESTION 186

- (Topic 3)

A retail organization has moved all of their inventory data to a relational database in the cloud. What functionality does a relational database offer?

- A. It analyzes unstructured data which can then be accessed in multiple regions
- B. It stores transactional data which can then be accessed electronically
- C. It stores large amounts of raw data in its original format
- D. It rapidly analyzes large and multi-dimensional datasets

**Answer:** B

#### Explanation:

A relational database offers the functionality of storing transactional data, which can then be accessed electronically. Relational databases store structured data that can be organized in tables with defined relationships between them. This makes them well- suited for transactional data, such as inventory data, that needs to be accessed and updated frequently.

#### NEW QUESTION 187

- (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 192

- (Topic 3)

What is an organization exclusively responsible for when they access an application through a software as a service (SaaS) model?

- A. Maintaining overall system operability
- B. Maintaining customer-facing content
- C. Monitoring data center servers
- D. Monitoring computer networks

**Answer:** B

#### NEW QUESTION 194

- (Topic 3)

What is artificial intelligence?

- A. Any system that ingests data in real time
- B. Any system that automatically structures data
- C. Any system capable of a task that requires smart analytics to generate predictions
- D. Any system capable of a task that normally requires human cognition

**Answer:** D

#### NEW QUESTION 199

- (Topic 3)

What does Cloud Logging help an organization do?

- A. Analyze live source code and log code updates.
- B. Deploy infrastructure as code.
- C. Analyze logs and accelerate application troubleshooting.
- D. Manage storage of custom VM images.

**Answer:** C

#### NEW QUESTION 202

- (Topic 3)

An organization wants to introduce a new image recognition login system What should the organization do to follow SRE principles?

- A. Roll out the new system to a subset of employees to test it out

- B. Roll out the new system to all employees to collect as much data as possible
- C. Avoid rolling out the new system because it may have security flaws
- D. Avoid rolling out the new system because it may violate privacy policy

**Answer:** A

#### NEW QUESTION 206

- (Topic 3)

An organization wants to create a new application in the cloud to replace an existing on- premises application. 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:** D

#### Explanation:

This approach carries over as much custom components as possible from the source system and minimizes initial reengineering efforts.

#### NEW QUESTION 209

- (Topic 3)

An organization meets their service level objective (SLO) of 99 999% ("five nines") How much downtime do their end users experience per year?

- A. 5 minutes
- B. 500 minutes
- C. 5 hours
- D. 5 days

**Answer:** A

#### NEW QUESTION 212

- (Topic 3)

An organization cannot afford to modernize their infrastructure but they want to process data from their legacy system in a modern platform hosted by a business partner

What solution should the organization choose to make their data accessible?

- A. Compute Engine
- B. Anthos
- C. An application programming interlace
- D. Google Kubernetes Engine

**Answer:** C

#### NEW QUESTION 213

- (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 215

- (Topic 2)

If you increase the size of a subnet in a custom VPC network, the IP addresses of virtual machines already on that subnet might be affected. Which options are Correct.

- A. False
- B. None of the above
- C. True
- D. Not Defined by Google Cloud Platform

**Answer:** A

#### Explanation:

You can dynamically increase the size of a subnet in a custom network by expanding the range of IP addresses allocated to it. Doing that doesn't affect already configured VMs.



## NEW QUESTION 216

- (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.

#### 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%

Table Description automatically generated with medium confidence <https://cloud.google.com/storage/docs/storage-classes>

## NEW QUESTION 219

- (Topic 2)

You are working with a user to set up an application in a new VPC behind a firewall and it is no-ticed that the user is concerned about data egress. Therefore, to provide assistance you want to con-figure the fewest open egress ports. Which of the following statement 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 222

- (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, etc. for the VMs.
- 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 226

- (Topic 2)

You are working with a government agency. A web application serves users of the country. It allows citizens to receive certain services in providing their national identity. Citizens have complained that they are seeing delays in web page loading compared to before. On investigating, they are seeing a lot of spurious traffic coming in from a few IPs which they have identified as foreign. What should they do?

- A. Setup Firewall rules to deny access to the malicious IPs.
- B. Setup Cloud Armor and add the malicious IPs to the deny list.
- C. Setup Firewall rules to allow access only to the IPs from within the country.
- D. Setup Cloud NAT and remove all the internal IPs and replace it with a single public IP.

**Answer:** B

#### Explanation:

Cloud Armor provides DDoS protection for applications. It can also "Filter your incoming traffic based on IPv4 and IPv6 addresses or CIDRs. Enforce geography-based access controls to allow or deny traffic based on source geo using Google's geoIP mapping."

#### NEW QUESTION 231

- (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."

### 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 232

- (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 answer)

- 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 237

- (Topic 2)

A large organization is struggling to manage their cloud costs effectively. They want to increase vis-ibility into cloud costs. Which cost management approach should the organization use?

- A. Establish a partnership between finance, technology, and business teams.
- B. Appoint a single person to monitor cloud spending across the organization.
- C. Review any cloud spending that exceeds the organization's error budget.
- D. Increase monitoring of on-premises infrastructure and services.

**Answer:** A

#### Explanation:

Because cross-team partnerships are part of the visibility cost management strategy.  
[https://wa.aws.amazon.com/wat.question.COST\\_1.en.html](https://wa.aws.amazon.com/wat.question.COST_1.en.html)

#### NEW QUESTION 241

- (Topic 2)

DriveSuper Inc. teaches its clients to drive cars and bikes and helps them get their license. They are planning to build a mobile application where users can sign up, plan their schedules, and take stock of progress. They want the onboarding process to be smooth and frictionless, giving users a great experience from the get-go. They want this done as quickly as possible and not be expensive. What is their best option on Google Cloud?

- A. Build the mobile app with Cloud SQL as the backend
- B. Build the mobile app with Cloud Storage as the backend
- C. Build the mobile application with Firebase as the backend
- D. Build the mobile app with Cloud Spanner as the backend

**Answer:** C

#### Explanation:

Firebase/Firestore is easy to build and is suitable for user information that could bvary in nature.

#### NEW QUESTION 245

- (Topic 2)

Google Cloud Platform (GCP) provides three main compliance resource webpages. What are they? (Select Three Answer)

- A. Compliance Reports Manager
- B. Support Hub
- C. Compliance Offerings
- D. GDPR Home Page
- E. TechCentral

**Answer:** ACD

#### Explanation:

Compliance Reports Manager, GDPR Home Page, Compliance Offerings GCP provides three main compliance resource webpages  
Compliance Reports Manager  
– <https://cloud.google.com/security/compliance/compliance-reports-manager>

## Compliance Reports Manager

Google Cloud's industry-leading security, third-party audits and certifications, documentation, and contract commitments help support your compliance. Compliance reports manager provides you with easy, on-demand access to these critical compliance resources, at no additional cost. Key resources include our latest ISO/IEC certificates, SOC reports, and self assessments.

Select resources may require sign-in with your Google Cloud or Google Workspace account. If you would like to access previous reports please reach out to [support](#) for more information. Anything marked "Google Confidential Information" is shared subject to the confidentiality obligations described in the customer or partner agreement(s) covering Cloud Services. Please contact your sales representative for permission to share confidential resources outside of your organization with customers or other third parties not expressly permitted by your agreement.

Text, timeline Description automatically generated

Compliance Offerings – <https://cloud.google.com/security/compliance/offerings>



# Compliance offerings

To help you with compliance and reporting, we share information, best practices, and easy access to documentation.

Our products regularly undergo independent verification of security, privacy, and compliance controls, achieving certifications against global standards to earn your trust. We're constantly working to expand our coverage.

This site contains information about Google's certifications and compliance standards it satisfies as well as general information about certain region or sector-specific regulations.

Text Description automatically generated

GDPR Resource Center – <https://cloud.google.com/security/gdpr/resource-center> At Google Cloud, we champion initiatives that prioritize and improve the security and privacy of customer personal data, and want you, as a Google Cloud customer, to feel confident using our services in light of GDPR requirements. If you partner with Google Cloud, we will support your GDPR compliance efforts

## NEW QUESTION 246

- (Topic 2)

Google offers Firebase, In terms of Firebase Console, any particular message that has to be delivered to a customer at a certain degree of change in behavior can be managed through\_\_\_\_\_.

- A. A/B testing
- B. Notification Composer
- C. Firebase Remote config.
- D. None of the above

**Answer:** B

### Explanation:

You can send notification messages using the Notifications composer in the Firebase console. Though this does not provide the same flexibility or scalability as sending messages with the Admin SDK or the HTTP and XMPP protocols, it can be very useful for testing or for highly targeted marketing and user engagement. The Firebase console provides analytics-based A/B testing to help refine and improve marketing messages. After you have developed logic in your app to receive messages, you can allow non-technical users to send messages per the instructions on the Notifications page in the Firebase Help Center.

## NEW QUESTION 250

- (Topic 2)

A financial services company is running an experimental application workload that has a very large number of mathematical calculations involving floating-point numbers. The current application that is running on compute engine is not providing enough speed and throughput. What are the options to increase the processing performance?

- A. Use a serverless option like Cloud Functions that will automatically scale as much as required.
- B. Instead of using a "general purpose" machine family, use "compute-optimized" machine family.
- C. Since processing could also be dependent on reading and writing data to the disk, use a fast Local SSD.
- D. Attach GPUs to the virtual machine for number crunching.

**Answer:** D

### Explanation:

Compute Engine provides graphics processing units (GPUs) that you can add to your virtual machines (VMs). You can use these GPUs to accelerate specific workloads on your VMs such as machine learning and data processing. <https://cloud.google.com/compute/docs/gpus>

## NEW QUESTION 253

- (Topic 2)

Which of the following are the current options for paid support in GCP? (Select Three Answer)

- A. Premier
- B. Standard
- C. Enhanced
- D. Role
- E. Premium

**Answer:** BCE

### Explanation:

Because GCP provides three options for paid support which are Standard, Enhanced and Premium. Basic Support is included with your Google Cloud subscription which cover only Case, phone, and chat support for billing issues only Reference link- <https://cloud.google.com/support>

## NEW QUESTION 254

- (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:**

Firebase Crashlytics:

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

Firebase 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 257**

- (Topic 2)

Your company has signed up with a cloud provider and you will be using storage and virtual machines with the provider. The provider has provided your organization some expectations for what the service should perform at. What type of agreement provides a guarantee of a certain level of service such as “Uptime”?

- A. Performance Agreement
- B. Interconnection Agreement
- C. Warranty
- D. Service Level Agreement

**Answer:** D

**Explanation:**

Service Level Agreement (SLA)

A service level agreement (SLA) is a contract between a service provider (either internal or external) and the end user that defines the level of service expected from the service provider. Some common SLA's are uptime, Response Time, etc.

**NEW QUESTION 261**

- (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 264**

- (Topic 2)

Which of the followings are core components of Anthos?

- A. Infrastructure, container, and cluster management
- B. Secure software supply chain
- C. Multicloud & Configuration management
- D. All of the above are correct.

**Answer:** D

**Explanation:**

Core Anthos components	Google Cloud	On-premises	Multi-cloud	Attached clusters
Infrastructure, container, and cluster management	GKE Multi Cluster Ingress	Anthos clusters on VMware	Anthos clusters on AWS, Anthos clusters on Azure	
Multicloud management	Fleets, fleet-enabled components, and Connect	Fleets, fleet-enabled components, and Connect	Fleets, fleet-enabled components, and Connect	Fleets, fleet-enabled components, and Connect
Configuration management	Anthos Config Management	Anthos Config Management	Anthos Config Management	Anthos Config Management
Migration	Migrate for Anthos and GKE	Migrate for Anthos and GKE	Migrate for Anthos and GKE	
Service management	Anthos Service Mesh Anthos Service Mesh dashboards MeshCA certificate authority	Anthos Service Mesh Grafana and Kiali dashboards Istiod certificate authority	Anthos Service Mesh (AWS only)	Anthos Service Mesh
Serverless	Cloud Run for Anthos	Cloud Run for Anthos		
Secure software supply chain	Binary Authorization	Binary Authorization (preview)		
Logging and monitoring	Cloud Logging and Cloud Monitoring for system components	Cloud Logging and Cloud Monitoring for system components		
Marketplace	Kubernetes Applications in Cloud Marketplace	Kubernetes Applications in Cloud Marketplace		

#### NEW QUESTION 265

- (Topic 2)

certain devices for cracks, rust, etc. Some of these issues are difficult to identify for a human and your company has seen increasing customer complaints - the customer has paid for an inspection and the field agent said there was no problem, but it later turned out there actually was. The team has come up with a proposal to engage AI to identify issues. On evaluating the existing system, it is seen that the mobile phone network connection is not good or consistent. What solution can work for them?

- A. Use AutoML Vision Edge models.
- B. Use the Rust programming language instead of Python to identify issues like rust.
- C. Use Cloud TPUs which will be able to do the analysis faster on the cloud
- D. Thus re-sponses also will be fast.
- E. Use TensorFlow to create custom models and deploy it as TensorFlow Lite models.

**Answer:** A

#### Explanation:

AutoML Vision Edge model can be deployed to one of several types of edge devices, such as mobile phones, ARM-based devices, and the Coral Edge TPU  
<https://cloud.google.com/vision/automl/docs/edge-quickstart>

#### NEW QUESTION 268

- (Topic 2)

A customer has contacted you about migrating to Google Cloud. The customer would like to migrate 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 271

- (Topic 2)

You are working for a hospital that stores its medical images in an on-premises data room and it is provided that the hospitals want to use Cloud Storage for archival storage of these images. You are required to design and implement a solution where the hospital wants an automated process to up-load any new medical images to Cloud Storage. On the basis of this statements which of the follow-ing statement is correct.

- A. Create a Pub/Sub topic, and enable a Cloud Storage trigger for the Pub/Sub topic.
- B. Create an application that sends all medical images to the Pub/Sub topic.
- C. Create a script that uses the gsutil command line interface to synchronize the on-premises storage with Cloud Storage.
- D. Schedule the script as a cron job.
- E. In the Cloud Console, go to Cloud Storage.
- F. Upload the relevant images to the appropriate bucket.
- G. Deploy a Dataflow job from the batch template, "Datastore to Cloud Storage" Schedule the batch job on the desired interval.

**Answer: B**

#### Explanation:

Using sync for new images implies that you will continue to use your onprem and keep synchronizing it forever, Sync just once for the old images, new images go directly to google cloud via pub/sub, and eventually get rid of the onprem.

### NEW QUESTION 275

- (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.



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-controls-and-storage-transfer-service>

### NEW QUESTION 278

- (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 280

- (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 283

- (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> <a href="#">↗</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 288

- (Topic 2)

While on-premise, an enterprise had multiple teams, each with its own analytics data store. Attempts to converge the storage for centralized, company-wide analysis failed because of speed and scaling issues. What would be the preferred destination architecture on Google Cloud?

- A. Migrate to Bigtable which provides high throughput reads and writes.
- B. Migrate to Cloud Spanner as a globally scalable SQL database.
- C. Migrate to BigQuery as a central data warehouse.
- D. Migrate to Cloud SQL which supports multiple databases like MySQL, PostgreSQL, and SQL Server - all of the customer's SQL databases can be accommodated here.

**Answer:** C

##### Explanation:

BigQuery is the data warehousing option on Google Cloud. Since the source data has already been used for analysis, it should easily fit the BigQuery structure too.

#### NEW QUESTION 289

- (Topic 2)

A Customer has their current SAP systems using Microsoft SQL Server as the Database. They are migrating to Google Cloud and also preparing to later migrate to the latest ver- sion of SAP. The entire IT team is being directed to focus on the migration to the new ver- sion of SAP. The new version of SAP does not use Microsoft SQL Server as the Database, Any but the most critical IT management tasks are being deprioritized, How should they migrate their current database to Google Cloud?

- A. Spanner
- B. Bare Metal
- C. BigQuery
- D. Cloud SQL

**Answer:** D

##### Explanation:

Cloud SQL supports SQL Server, Since the IT team's attention is being focused on other activities, they will have less time for existing admin tasks, It would be best to take a managed/hosted version.

#### NEW QUESTION 294

- (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 297**

- (Topic 2)

You are a program manager in a company you need to submit a bare metal solution order for a se-cure, high performance connection with a low-latency network fabric. What network information 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 environ-ment.
- 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 299**

- (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 301**

- (Topic 2)

Your Coustomer's Organization has decided to move to the cloud. They currently run VMs on-promise but their goal on Google cloud is to run containers, primarily on Google Kuber- nete's Engine. They have a lease for their private data center for another year that they have already paid for. What could be strategy they could adopt in migrating?

- A. Jump and Ramp.
- B. Improve and Move.
- C. Rip and Replace.
- D. Left and Shift.

**Answer: B**

**Explanation:**

Since they have already paid for data center for another year. They have the time and resources to work with, They can make the change to their workloads locally/on- promise Improve and MigrateMove to Google Cloud later on.

**NEW QUESTION 306**

- (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 309**

- (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 314**

- (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 hap-pening quickly thereafter from these new accounts. Different parts of the application are being ex-plored, 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 syste
- B. Use Cloud Asset Inventory to see if there have been changes in the inventor
- C. Bots are creating accounts and then using the
- D. Use Google Cloud's Web App and API Protection (WAAP).
- E. Bots are creating accounts and then using the
- F. Use Identity-Aware Proxy to re-strict the users to known users.
- G. Automated testing tools might still be running and creating account
- 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 315**

- (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 316

- (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 320

- (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 325

- (Topic 2)

A customer has a tens of applications that are dependent on Oracle databases in their on- premise data centers. The customer wants to migrate to Google Cloud. Their long term goal is to move to other cloud native database technologies. What options do they have to initially move their data?

- A. Migrate to a Bare Metal server.
- B. Migrate to Cloud SQL.
- C. Since there is no hosted Oracle solution, leave the Oracle data on-premise while doing analytics on Google Cloud.
- D. Containerize Oracle and run it using Cloud Run.

**Answer:** B

#### Explanation:

The Bare Metal solution is the recommended approach. You can deploy Oracle capabilities like clustered databases, replication, and all performance features at licensing costs that are similar to on-premise systems



# Choose a Google Cloud bare metal migration strategy

Send feedback

This article describes the three most common options for migrating your bare metal workloads to Google Cloud along with a framework for understanding your workload requirements. It also explains how to choose the bare metal option that's right for your situation. Finally, it provides practical use cases for each migration strategy.

This article is designed for IT managers and staff who want to understand the capabilities of the Google Cloud offerings [Migrate for Compute Engine](#), [Bare Metal Solution](#), and [Mainframe Modernization](#), and how each can facilitate the migration of bare-metal workloads. The article also discusses an IBM offering for working on Google Cloud.

Migrating to bare metal in Google Cloud serves as an important step toward transforming your IT strategy to focus on the cloud. By running your bare metal workloads closer to Google Cloud services, you can take advantage of those services while implementing your application modernization strategy in parallel.

<https://cloud.google.com/architecture/migrating-bare-metal-workloads>

## NEW QUESTION 328

- (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 331

- (Topic 2)

An e-commerce company's business has been booming. To keep up with the growth the IT team also grew. Many new people are being added and new resources are being set up. The CIO is in conversation with you over coffee one day and expresses her growing concern that they might be moving too fast. Their security checks and policies have not kept pace. She worries that somebody would make a misconfiguration or compliance violation thus exposing the company to data and privacy loss. What can you advise her?

- A. Use Cloud Identity-Aware Proxy to allow only specific users to access the data.
- B. Use Security Command Center to have a centralized view of assets and get notified on misconfigurations and vulnerabilities.
- C. Use Cloud Data Loss Prevention to prevent the loss of any data.
- D. Use Cloud Armor to block any DDoS attacks that could be a threat.

**Answer: B**

### Explanation:

Security Command Center is the right tool for this use case. It can check resources for security issues and notify you when issues are found.

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

## NEW QUESTION 336

- (Topic 2)

What characteristics should an organization adopt to be a DevOps organization?

- A. Teamwork over individual work
- B. Obsession with Automation over preoccupation with manual work
- C. Product based teams over component teams.
- D. All of the Above

**Answer: D**

### Explanation:

What characteristics should an organization adopt to be a DevOps organization?

**Below are my top 5 characteristics of a DevOps organization.**

- Product based teams over component teams. ...
- Obsession with Automation over preoccupation with manual work. ...
- Evidence-based over gut feel. ...
- Teamwork over individual work. ...
- Fail fast over delayed learning.

#### NEW QUESTION 339

- (Topic 2)

Which of the following statements is/are true about Google Cloud BigTable?

- A. It is not compatible with Hadoop.
- B. It Scales from Giga Byte to Peta Byte with No Downtime.
- C. It can not be used in Real-time Ad analytics and tracking thousands of IoT Devices Data.
- D. It is an enterprise-level Database that offers relational and non-relational features

**Answer: B**

#### Explanation:

Cloud Bigtable

A fully managed, scalable NoSQL database service for large analytical and operational workloads with up to 99.999% availability.

- Consistent sub-10ms latency—handle millions of requests per second
- Ideal for use cases such as personalization, ad tech, fintech, digital media, and IoT
- Seamlessly scale to match your storage needs; no downtime during reconfiguration
- Designed with a storage engine for machine learning applications leading to better predictions
- Easily connect to Google Cloud services such as BigQuery or the Apache ecosystem

#### NEW QUESTION 341

- (Topic 2)

You are a cloud architect in a software solution provider company, one of the client that is a Na-tional 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 343

- (Topic 2)

A customer is migrating there on-promises data analytics solution to Google Cloud. The current solution has a lot of data being read form and written to disk. The performance of this approach has occasionally been a bottleneck for a scale of operations that your cus- tomer has. The application is fault tolerant and can with stand machine going down fre- quently. 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 foulst tolerant, than is not an issue.

#### NEW QUESTION 345

- (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 transac-tions 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 ser-vices, 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 350**

- (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 352**

- (Topic 2)

Your client is a financial services company giving loans based on customer profiles. As part of the regulatory compliance, they have to collect a bunch of different documents with know your customer (KYC) information. They want to be able to process the information in these documents quickly and at scale. They want to integrate the chosen solution as quickly as possible. What are your options on Google Cloud?

- A. Integrate the Cloud Vision API to create a custom model to handle the documents.
- B. Create a model using TensorFlow and integrated it into the process workflow.
- C. Integrate the Lending DocAI and Document AI in two there processes workflow of the processing loan requests.
- D. Integrate the Natural Language API to read the request sent in by clients and to process the forms.

**Answer:** C

**Explanation:**

Lending DocAI is a pre-packaged AI solution that speeds "up the mortgage workflow processes to easily process loans and automate document data capture, while ensuring the accuracy and breadth of different documents (e.g., tax statements and asset documents)."  
<https://cloud.google.com/solutions/lending-doc-ai>

**NEW QUESTION 354**

- (Topic 2)

You are a database manager working for a new product that will need millions of reading and writing from the database, with zero downtime, key-value i.e. NoSQL features, no manual steps should be required to ensure consistency, repair data, synchronize writes and deletes, Which of the following database you choose?

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

**Answer:** B

**Explanation:**

Cloud BigTable

Key features

High throughput at low latency

Bigtable is ideal for storing very large amounts of data in a key-value store and supports high read and write throughput at low latency for fast access to large amounts of data. Throughput scales linearly—you can increase QPS (queries per second) by adding Bigtable nodes. Bigtable is built with proven infrastructure that powers Google products used by billions such as Search and Maps.

Cluster resizing without downtime

Scale seamlessly from thousands to millions of reads/writes per second. Bigtable throughput can be dynamically adjusted by adding or removing cluster nodes without restarting, meaning you can increase the size of a Bigtable cluster for a few hours to handle a large load, then reduce the cluster's size again—all without any downtime. Flexible, automated replication to optimize any workload

Write data once and automatically replicate where needed with eventual consistency—giving you control for high availability and isolation of reading and write workloads. No manual steps are needed to ensure consistency, repair data, or synchronize writes and deletes. Benefit from a high availability SLA of 99.999% for instances with multi-cluster routing across 3 or more regions (99.9% for single-cluster instances).

**NEW QUESTION 356**

- (Topic 2)

Your client's IT environment has so far been on-premises. They run a mix of applications and data-bases on Linux and Windows. They want to move to Google Cloud in the easiest manner possible. What are their best options?

- A. Compute Engine with VMs with either Linux or Windows OS.
- B. App Engine Standard
- C. Cloud Functions
- D. Cloud Run

**Answer:** A



**Explanation:**

Compute Engine allows you to allocate VMs with different OSs - Windows and Linux, included.

**NEW QUESTION 360**

- (Topic 2)

What cloud service model would you want to select if you want to solve a particular business 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 362**

- (Topic 2)

You have experimented with Google Cloud using your own credit card and expensed the costs to your company. Your company wants to streamline the billing process and charge the costs of your projects to their monthly invoice. What should you do?

- A. Grant the financial team the IAM role of €Billing Account User€ on the billing account linked to your credit card.
- B. Change the billing account of your projects to the billing account of your company.
- C. Create a ticket with Google Billing Support to ask them to send the invoice to your company.
- D. Set up BigQuery billing export and grant your financial department IAM access to query the data.

**Answer: B**

**Explanation:**

To change the Cloud Billing account for a project, you need to be able to move a project from one Cloud Billing account to another. To accomplish this task, you need permissions adequate to unlink the project from the existing Cloud Billing account AND to link the project to the target Cloud Billing account. Roles with adequate permissions to perform this task: Project Owner or Project Billing Manager on the project, AND Billing Account Administrator or Billing Account User for the target Cloud Billing account

interface, text, application, email Description automatically generated

Reference link- <https://cloud.google.com/billing/docs/how-to/modify->

A Cloud Billing account is used to define who pays for a given set of resources, and it can be linked to one or more projects. Project usage is charged to the linked Cloud Billing account.

If you are a billing administrator on only one Cloud Billing account, new projects you create are automatically linked to your existing Cloud Billing account. If you create or have access to multiple Cloud Billing accounts, you can change the Cloud Billing account a project is billed to. This article describes how to change the Cloud Billing account for your project, as well as how to enable and disable billing for a project.

**NEW QUESTION 366**

- (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:**

The recommended approach is to have folders corresponding to teams/departments and they manage the projects within that.

-> Sharing a single project will cause a conflict of resources, billing, concerns, etc.

-> One folder per project is unnecessary overuse of abstraction/grouping.

-> Teams and projects in a company should ideally be centrally managed in a single Organization.

**NEW QUESTION 370**

- (Topic 2)

You are working in a company that provides different services to its customer. Now it also wants to offer some paid API services to its B2B customers for e.g. google provides google maps API, cloud vision API, and language translation API. You need to figure out the best solution for the service.

- A. Java Programming Spring Boot Framework for to solve the problem of APIs management.
- B. Cloud Functions with Firestore and payment gateways integration development.
- C. Apigee API Management
- D. Frontend & Backend Development with NodeJs and angular etc.

**Answer: C**

**Explanation:**



A top-level idea about Apigee API Management and its offered features can help you solve all questions related to Apigee in Cloud Digital Leader Practice Exam. Apigee is a platform for developing and managing APIs. By fronting services with a proxy layer, Apigee provides an abstraction or facade for your backend service APIs and provides security, rate limiting, quotas, analytics, and more. Apigee services: The APIs that you use to create, manage, and deploy your API proxies. Apigee runtime: A set of containerized runtime services in a Kubernetes cluster that Google maintains. All API traffic passes through and is processed by these services.

#### NEW QUESTION 374

- (Topic 1)

Your organization needs to build streaming data pipelines. You don't want to manage the individual servers that do the data processing in the pipelines. Instead, you want a managed service that will automatically scale with the amount of data to be processed.

Which Google Cloud product or feature should your organization choose?

- A. Pub/Sub
- B. Dataflow
- C. Data Catalog
- D. Dataprep by Trifacta

**Answer: B**

#### Explanation:

Reference: <https://cloud.google.com/dataflow/docs/guides/deploying-a-pipeline>

Reference link- <https://cloud.google.com/dataflow/docs/guides/deploying-a-pipeline>

#### NEW QUESTION 375

- (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 are inherent to the public cloud provider

#### NEW QUESTION 380

- (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 382

- (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 383

- (Topic 1)

Your Google Cloud Platform [GCP] admin has to manage a bunch of API keys for external services that are accessed by different applications, which are used by a few teams. What is the best way to manage them?

- A. Share the information in a Github repository and grant access to the repo in IAM asrequired.
- B. Store the information in Secret Manager and give IAM read permissions as re-quired.
- C. Store the information in Kubernetes Secrets and only grant read permissions to users as required.
- D. Encrypt the information and store it in Cloud Storage for centralized acces
- E. Give the decrypt key only to the users who need to access it.

**Answer:** B

#### Explanation:

Store the information in Secret Manager is a secure and convenient storage system for API keys, passwords, certificates, and other sensitive data. Secret Manager provides a central place and single source of truth to manage access, and audit secrets across Google Cloud.  
<https://cloud.google.com/secret-manager>

#### NEW QUESTION 388

- (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 391

- (Topic 1)

Your organization needs to categorize objects in a large group of static images using machine learning. Which Google Cloud product or service should your organization use?

- A. BigQuery ML
- B. AutoML Video Intelligence
- C. Cloud Vision API
- D. AutoML Tables

**Answer:** C

#### Explanation:

Reference: <https://cloud.google.com/vision>

Derive insights from your images in the cloud or at the edge with AutoML Vision or use pre- trained Vision API models to detect emotion, understand text, and more.

Vision API offers powerful pre-trained machine learning models through REST and RPC APIs. Assign labels to images and quickly classify them into millions of predefined categories. Detect objects and faces, read printed and handwritten text, and build valuable metadata into your image catalog.

#### NEW QUESTION 392

- (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 397

- (Topic 1)

What are the network requirements for Private Google Access?

- A. Private Google Access automatically enables any API.
- B. Your network must have appropriate routes for the destination IP ranges used by Google APIs and services.
- C. Both A and B
- D. None of the Above

**Answer:**

B

**Explanation:**

Network requirements for Private Google Access:

- Because Private Google Access is enabled on a per-subnet basis, you must use a VPC network. Legacy networks are not supported because they don't support subnets.
- Private Google Access does not automatically enable any API. You must separately enable the Google APIs you need to use via the APIs & services page in the Google Cloud Console.
- If you use the private.googleapis.com or therestricted.googleapis.com domain names, you'll need to create DNS records to direct traffic to the IP addresses associated with those domains.
- Your network must have appropriate routes for the destination IP ranges used by Google APIs and services. These routes must use the default internet gateway next hop. If you use the private.googleapis.com or therestricted.googleapis.com domain names, you only need one route (per domain). Otherwise, you'll need to create multiple routes.
- Egress firewalls must permit traffic to the IP address ranges used by Google APIs and services. The implied allow egress firewall rule satisfies this requirement. For other ways to meet the firewall requirement.

**NEW QUESTION 402**

- (Topic 1)

Your ed-tech start-up was originally launched in a small geography. Any user sign-ups, course progress, tests taken, etc. are captured on a self-managed MySQL database. Every user generates many such transactions. Now you're taking the application globally and preparing for a much larger influx of users from all over the world. The existing MySQL server is unlikely to be able to scale. Which convenient option can be considered?

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

**Answer: B**

**Explanation:**

Cloud Spanner is a global scale SQL database that scales extremely well. That would be the best choice.

**NEW QUESTION 405**

- (Topic 1)

Your organization needs a large amount of extra computing power within the next two weeks.

After those two weeks, the need for the additional resources will end. Which is the most cost-effective approach?

- A. Use a committed use discount to reserve a very powerful virtual machine
- B. Purchase one very powerful physical computer
- C. Start a very powerful virtual machine without using a committed use discount
- D. Purchase multiple physical computers and scale workload across them

**Answer: C**

**Explanation:**

When you purchase a committed use contract, you purchase Compute Engine resources—such as vCPUs, memory, GPUs, local SSDs, and sole-tenant nodes—at a discounted price in return for committing to paying for those resources for 1 year or 3 years

**NEW QUESTION 409**

- (Topic 1)

You are currently managing workloads running on Windows Server for which your company owns the licenses. Your workloads are only needed during working hours, which allows you to shut down the instances during the weekend. Your Windows Server licenses are up for renewal in a month, and you want to optimize your license cost.

What should you do?

- A. Renew your licenses for an additional period of 3 year
- B. Renew your licenses for an additional period of 3 year
- C. Negotiate a cost reduction with your current hosting provider wherein infrastructure cost is reduced when workloads are not in use
- D. Renew your licenses for an additional period of 2 year
- E. Negotiate a cost reduction by committing to an automatic renewal of the licenses at the end of the 2 year period
- F. Migrate the workloads to Compute Engine with a bring-your-own-license (BYOL) model
- G. Migrate the workloads to Compute Engine with a pay-as-you-go (PAYG) model

**Answer: D**

**Explanation:**

The PAYG model is more convenient because you only pay for usage. And the case describes that the workloads are only run on certain days.

**NEW QUESTION 412**

.....

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