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Cloud Digital Leader

Google Cloud Certified - Cloud Digital Leader

Version 1.0



Exam A

QUESTION 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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Many companies choose private cloud over public cloud because private cloud is an easier way (or the only way) to meet their regulatory compliance requirements. Others choose private cloud because their workloads deal with confidential documents, intellectual property, personally identifiable information (PII), medical records, financial data, or other sensitive data. Reference: <https://www.ibm.com/cloud/learn/cloud-computing>

Cloud Computing

Cloud computing transforms IT infrastructure into a utility: It lets you 'plug into' infrastructure via the internet, and use computing resources without installing and maintaining them on-premises.



QUESTION 2

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3 Your organization needs to plan its cloud infrastructure expenditures.

Which should your organization do?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

You decide to migrate your on-premises environment to the cloud. You need to determine which resource components still need to be assigned ownership.

Which two functions are owned by a public cloud provider? (Choose two.)

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

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

You are a program manager within a Software as a Service (SaaS) company that offers rendering software for animation studios. Your team needs the ability to allow scenes to be scheduled at will and to be interrupted at any time to restart later. Any individual scene rendering takes less than 12 hours to complete, and there is no service-level agreement (SLA) for the completion time for all scenes. Results will be stored in a global Cloud Storage bucket. The compute resources are not bound to any single geographical location. This software needs to run on Google Cloud in a cost-optimized way.

What should you do?

- A. Deploy the application on Compute Engine using preemptible instances
- B. Develop the application so it can run in an unmanaged instance group
- C. Create a reservation for the minimum number of Compute Engine instances you will use
- D. Start more instances with fewer virtual centralized processing units (vCPUs) instead of fewer instances with more vCPUs

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Your manager wants to restrict communication of all virtual machines with internet access; with resources in another network; or with a resource outside Compute Engine. It is expected that different teams will create new folders and projects in the near future.

How would you restrict all virtual machines from having an external IP address?

- A. Define an organization policy at the root organization node to restrict virtual machine instances from having an external IP address
- B. Define an organization policy on all existing folders to define a constraint to restrict virtual machine instances from having an external IP address
- C. Define an organization policy on all existing projects to restrict virtual machine instances from having an external IP address
- D. Communicate with the different teams and agree that each time a virtual machine is created, it must be configured without an external IP address

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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



Introduction to the Organization Policy Service [Send feedback](#)

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

Benefits

- Centralize control to configure restrictions on how your organization's resources can be used.
- Define and establish guardrails for your development teams to stay within compliance boundaries.

QUESTION 10 Your multinational organization has servers running mission-critical workloads on its premises around the world. You want to be able to manage these workloads consistently and centrally, and you want to stop managing infrastructure.

What should your organization do?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

Your organization stores highly sensitive data on-premises that cannot be sent over the public internet. The data must be processed both on-premises and in the cloud.

What should your organization do?

- A. Configure Identity-Aware Proxy (IAP) in your Google Cloud VPC network
- B. Create a Cloud VPN tunnel between Google Cloud and your data center
- C. Order a Partner Interconnect connection with your network provider
- D. Enable Private Google Access in your Google Cloud VPC network

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

After the service provider provisions your connection, you can start passing traffic between your networks by using the service provider's network.

Reference: <https://cloud.google.com/network-connectivity/docs/interconnect/concepts/partner-overview>



The screenshot shows the 'Partner Interconnect overview' page. It includes a title, a 'Send feedback' button, and a paragraph explaining that Partner Interconnect provides connectivity between on-premises networks and Virtual Private Cloud (VPC) networks. Below this, a section titled 'Before you use Partner Interconnect' lists requirements: being familiar with Cloud Interconnect terminology and working with a supported service provider to establish connectivity between their network and the on-premises network. Supported service providers offer Layer 2 connectivity, Layer 3

QUESTION 12

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

What should you do?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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

Container Registry > Container Registry documentation > Guides

Was this helpful?  

Pushing and pulling images

[Send feedback](#)

Pushing (uploading) and pulling (downloading) images are two of the most common Container Registry tasks. This document focuses on pushing and pulling images with Docker.

★ **Note:** Starting with GKE node version 1.19, the default node image for Linux nodes is the Container-Optimized OS with Containerd (**cos_containerd**) variant instead of the Container-Optimized OS with Docker (**cos**) variant.

For troubleshooting and logging using GKE with Containerd, use [crictl](#). For open source Kubernetes, refer to the [containerd documentation](#).

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QUESTION 13

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

Why would SaaS be the right choice of service model?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Benefits of SaaS

The main benefit of SaaS is that it offloads all infrastructure and application management to the SaaS vendor.

Reference: <https://www.ibm.com/cloud/learn/iaas-paas-saas>

What are IaaS, PaaS and SaaS?

IaaS, PaaS and SaaS are the three most popular types of cloud service offerings. (They are sometimes referred to as cloud service models or cloud computing service models.)

- IaaS, or infrastructure as a service, is on-demand access to cloud-hosted physical and virtual servers, storage and networking - the backend IT infrastructure for running applications and workloads in the cloud.
- PaaS, or platform as a service, is on-demand access to a complete, ready-to-use, cloud-hosted platform for developing, running,

QUESTION 14 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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://cloud.google.com/compute/docs/instance-groups/rolling-out-updates-to-managed-instance-groups>

Automatically rolling out updates to instances in a MIG

[Send feedback](#)

This document describes how to automatically apply configuration updates to the virtual machine (VM) instances in a [managed instance group \(MIG\)](#).

Compute Engine maintains the VMs in a MIG based on the configuration that you specify in an [instance template](#) and optional [stateful configuration](#). From time to time, you might want to update this configuration.

When you set up an automated update, the MIG rolls out a new version of an instance template automatically to all or to a subset of the group's VMs. If you have stateful configuration, the MIG also applies any unapplied per-instance configurations to the corresponding VMs.

You can control the speed of deployment, the level of disruption to your service, and, by using a canary update, the number of instances that the MIG updates with the new template. After you specify a new configuration, you do not need to provide additional input and the update completes.

QUESTION 15

Your organization uses Active Directory to authenticate users. Users' Google account access must be removed when their Active Directory account is terminated.

How should your organization meet this requirement?

- A. Configure two-factor authentication in the Google domain
- B. Remove the Google account from all IAM policies
- C. Configure BeyondCorp and Identity-Aware Proxy in the Google domain
- D. Configure single sign-on in the Google domain



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Which Google Cloud product gives you a consistent platform for multi-cloud application deployments and extends other Google Cloud services to your environment?

- A. Google Kubernetes Engine
- B. Virtual Public Cloud
- C. Compute Engine
- D. Anthos

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

Your organization is developing an application that will manage payments and online bank accounts located around the world. The most critical requirement for your database is that each transaction is handled consistently. Your organization anticipates almost unlimited growth in the amount of data stored.

Which Google Cloud product should your organization choose?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Features of Cloud Spanner

Reference: <https://k21academy.com/google-cloud/cloud-sql-vs-cloud-spanner/>

Google Cloud SQL is a fully managed service offered by Google Cloud Platform. **Google Cloud SQL is a MySQL database inside Google Cloud.** There is no need to install, maintain and create admin accounts because it is fully managed by Google Cloud. It helps you create, modify, configure and utilize a relational database, same as MySQL.

Google sends constant updates and adds new features to its services to fulfill the business requirements of its users.

Let's have a look at the improvements done in Google Cloud SQL.

- Google deliberately increased the storage space to **100 Gigabytes** which was 10 Gigabytes earlier.
- The modified version is loaded with the capacity of **16GB RAM** to run instances hassle-free.
- Increased RAM has helped users to keep **four times more cache** than earlier.
- Now Google provides both **replicated and non-replicated databases**.

QUESTION 18 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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.myamberlife.com/learn/top-ways-to-store-your-digital-files/>

Desktop Storage

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.

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QUESTION 19

Your organization wants to predict the behavior of visitors to its public website. To do that, you have decided to build a machine learning model. Your team has database-related skills but only basic machine learning skills, and would like to use those database skills.

Which Google Cloud product or feature should your organization choose?

- A. BigQuery ML
- B. LookML
- C. TensorFlow
- D. Cloud SQL

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://cloud.google.com/architecture/predicting-customer-propensity-to-buy>



Predicting customer propensity to buy by using BigQuery ML and AI Platform

[Send feedback](#)

Learn how to build a system to predict customer propensity to purchase by using BigQuery ML and AI Platform.

You can use a propensity to purchase system to predict customers who are most likely to make a purchase, so that you can personalize communications with them. Use online predictions to take real-time action based on user behavior on your website, or batch predictions to inform less time-sensitive communications like email.

This tutorial shows you how to create a [logistic regression](#) model to determine whether a customer will make a purchase. This type of model is used because it is good for evaluating the probability of an outcome. The model evaluates metrics that reflect customer behavior on a website, and assigns the customer a probability to purchase value between 0 and 1 based on this data. The model then sets a label indicating "likely to purchase" for any customer with a probability

QUESTION 20

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

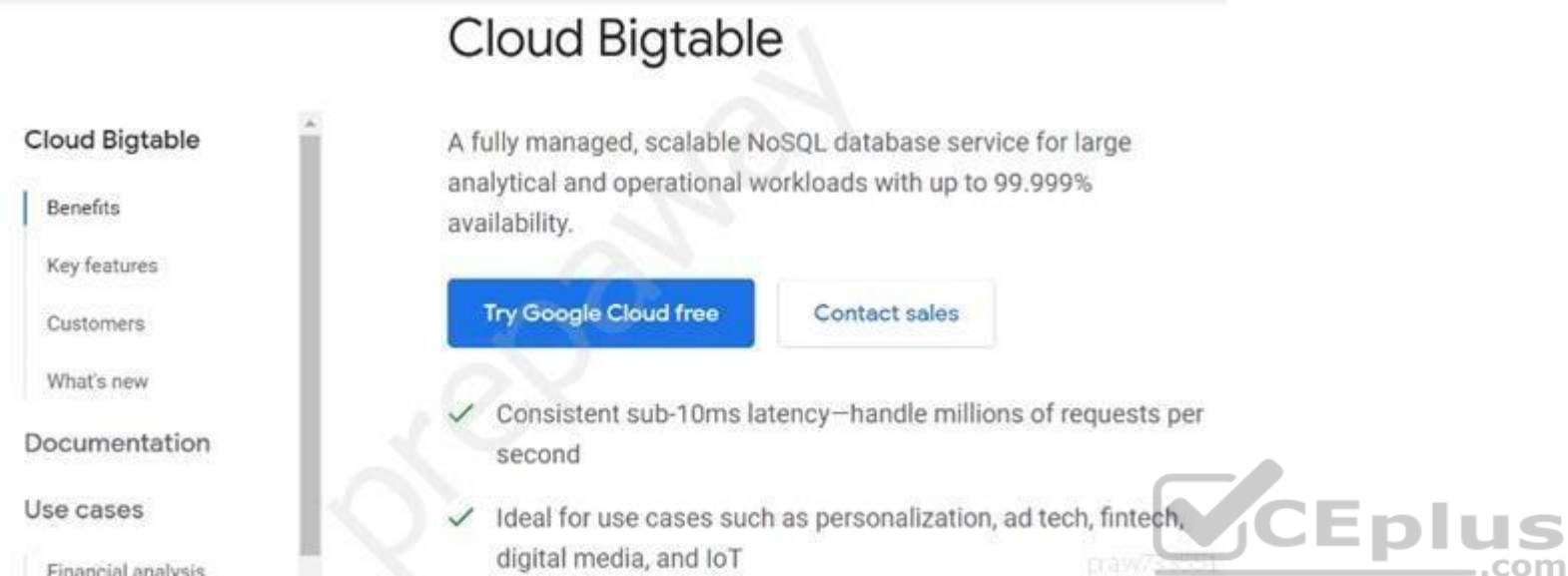
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

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



QUESTION 21

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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

Deploying a pipeline

[Send feedback](#)

★ This document explains in detail how Dataflow deploys and runs a pipeline, and covers advanced topics like optimization and load balancing. If you are looking for a step-by-step guide on how to create and deploy your first pipeline, use Dataflow's quickstarts for [Java](#), [Python](#) or [templates](#).

After you construct and test your Apache Beam pipeline, you can use the Dataflow managed service to deploy and execute it. Once on the Dataflow service, your pipeline code becomes a Dataflow job.

The Dataflow service fully manages Google Cloud services such as [Compute Engine](#) and [Cloud Storage](#) to run your Dataflow job, automatically spinning up and tearing down the necessary resources. The Dataflow service provides visibility into your job through tools like the [Dataflow monitoring interface](#) and the [Dataflow command-line interface](#).

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QUESTION 22

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



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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>



QUESTION 23

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

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

Which Google Cloud product or feature should you use?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

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

Configuring Private Google Access for on-premises hosts

[Send feedback](#)

Private Google Access for on-premises hosts provides a way for on-premises systems to connect to [Google APIs and services](#) by routing traffic through a [Cloud VPN](#) tunnel or a [Cloud Interconnect](#) attachment (VLAN). Private Google Access for on-premises hosts is an alternative to connecting to Google APIs and services over the internet.

This document describes how to enable Private Google Access for on-premises hosts.

These instructions also apply to host machines in a [Bare Metal Solution](#) region extension. Except in reference to name servers in the [DNS configuration](#) section, the term *on-premises* in these instructions is equivalent to *Bare Metal Solution*. For DNS name servers, the DNS name server that you use can be your own enterprise server in your actual on-premises environment, a DNS name server on Google Cloud, or, if you enable your Bare Metal Solution machines to connect to the internet, a public DNS name server.

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QUESTION 25 Your organization is developing a mobile app and wants to select a fully featured cloud-based compute platform for it.

Which Google Cloud product or feature should your organization use?

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

Correct Answer: D

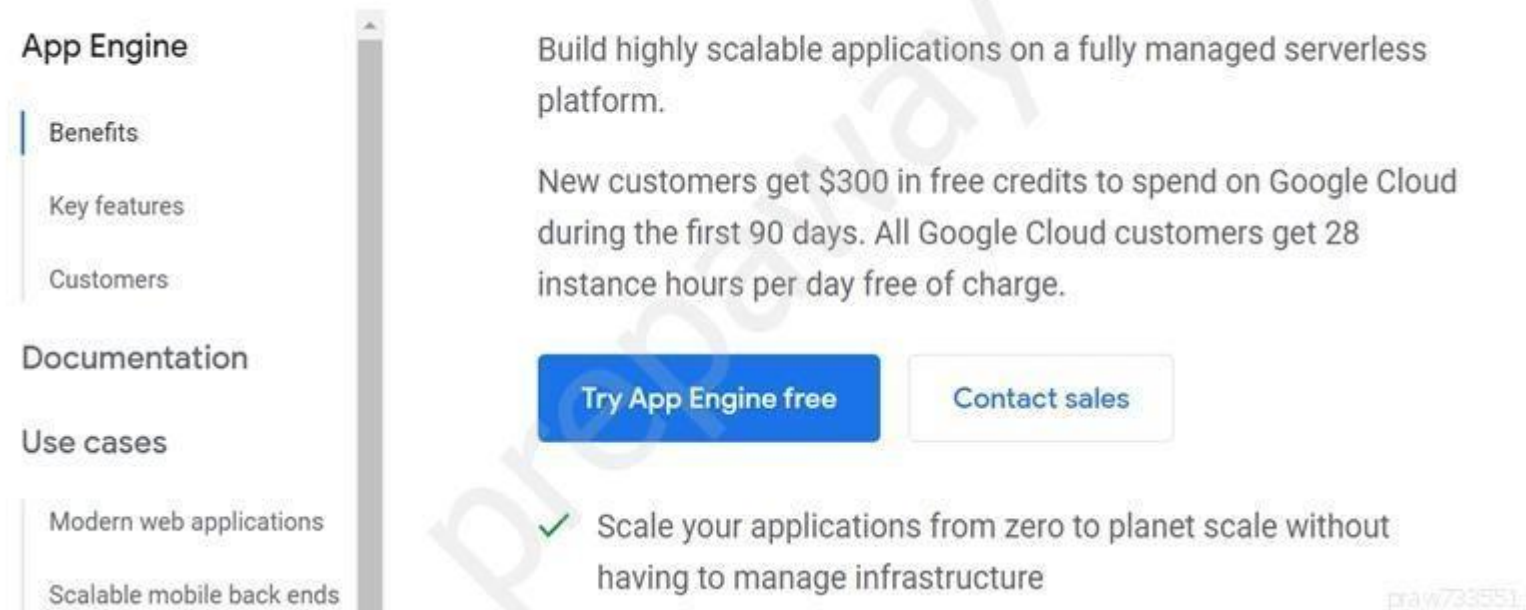
Section: (none)

Explanation

Explanation/Reference:

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





QUESTION 26

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



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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>

Federating Google Cloud with Active Directory

[Send feedback](#)

This article describes how you can configure Cloud Identity or Google Workspace to use [Active Directory as IdP and authoritative source](#).

The article compares the logical structure of Active Directory with the structure used by Cloud Identity and Google Workspace and describes how you can map Active Directory forests, domains, users, and groups. The article also provides a [flowchart](#) that helps you determine the best mapping approach for your scenario.

This article assumes that you're familiar with Active Directory.

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QUESTION 27 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



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Storage Transfer Service for large transfers of on-premises data

Reference: <https://cloud.google.com/architecture/migration-to-google-cloud-transferring-your-large-datasets>

Migration to Google Cloud: Transferring your large datasets

[Send feedback](#)

For many customers, the first step in adopting a Google Cloud product is getting their data into Google Cloud. This document explores that process, from planning a data transfer to using best practices in implementing a plan.

Transferring large datasets involves building the right team, planning early, and testing your transfer plan before implementing it in a production environment. Although these steps can take as much time as the transfer itself, such preparations can help minimize disruption to your business operations during the transfer.

This document is part of a multi-part series about migrating to Google Cloud. If you're interested in an overview of the series, see [Migration to Google Cloud: Choosing your migration path](#).

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QUESTION 28

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

How can you group these projects to meet this goal?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Create an Organization node

Reference: <https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations>

Documentation home

- ▶ The basics
- ▶ Compare platforms
- ▼ Enterprise guide
 - Enterprise setup checklist
 - Best practices for enterprise organizations**
 - ▶ Authentication
 - Keyboard shortcuts
 - Cloud Architecture Center

Release notes

- Recent product changes
- Index of release notes
- BigQuery dataset of release notes

Best practices for enterprise organizations

[Send feedback](#)

This guide introduces best practices to help enterprise customers like you on your journey to Google Cloud. The guide is not an exhaustive list of recommendations. Instead, its goal is to help enterprise architects and technology stakeholders understand the scope of activities and plan accordingly. Each section provides key actions and includes links for further reading.

Before you read this guide, we recommend reviewing the [Platform overview](#) in order to understand the overall Google Cloud landscape.

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QUESTION 29

Your organization needs to restrict access to a Cloud Storage bucket. Only employees who are based in Canada should be allowed to view the contents.

What is the most effective and efficient way to satisfy this requirement?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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

Choose between uniform and fine-grained access

When you create a bucket, you should decide whether you want to apply permissions using *uniform* or *fine-grained* access.

- **Uniform (recommended):** [Uniform bucket-level access](#) allows you to use [Identity and Access Management \(IAM\)](#) alone to manage permissions. IAM applies permissions to all the objects contained inside the bucket or groups of objects with common name prefixes. IAM also allows you to use features that are not available when working with ACLs, such as [IAM Conditions](#) and Cloud Audit Logs.
- **Fine-grained:** The fine-grained option enables you to use IAM and [Access Control Lists \(ACLs\)](#) together to manage permissions. ACLs are a legacy access control system for Cloud Storage designed for interoperability with Amazon S3. You can specify access and apply permissions at both the bucket level and per individual object.

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QUESTION 30

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



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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

QUESTION 31

Your organization is developing and deploying an application on Google Cloud. Tracking your Google Cloud spending needs to stay as simple as possible.

What should you do to ensure that workloads in the development environment are fully isolated from production workloads?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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

Deps is a private, hosted, Maven repository. While building it I had a critical decision to make - Where to host it? I evaluated many different hosting services but decided on Google Cloud Platform (GCP). I've been using it in pre-production and then production for over a year and a half now. I haven't seen too many experience reports on Google Cloud, so I wanted to share how I've found it, what went well, and what still needs improving. I've split my thoughts below into good, meh, bad, ugly, and opportunities for improvement. I have compared and contrasted with Amazon Web Services (AWS), the other hosting provider that I have the most experience with, and GCP's biggest competitor.

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QUESTION 32

Your company is running the majority of its workloads in a co-located data center. The workloads are running on virtual machines (VMs) on top of a hypervisor and use either Linux or Windows server editions. As part of your company's transformation strategy, you need to modernize workloads as much as possible by adopting cloud-native technologies. You need to migrate the workloads into Google Cloud.

What should you do?

- A. Export the VMs into VMDK format, and import them into Compute Engine
- B. Export the VMs into VMDK format, and import them into Google Cloud VMware Engine
- C. Migrate the workloads using Migrate for Compute Engine
- D. Migrate the workloads using Migrate for Anthos



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Migrate for Compute Engine is a product for migrating physical servers and virtual machines from on-premises and cloud environments to Google Cloud. Migrate for Compute Engine lets you migrate a virtual machine to Google Cloud in a few minutes, where the data is copied in the background but the virtual machines are completely operational.

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

Migration to Google Cloud: Getting started

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This document helps you plan, design, and implement the process of migrating your workloads to Google Cloud. Moving apps from one environment to another is a challenging task, even for experienced teams, so you need to plan and execute your migration carefully.

This document is part of a multi-part series about migrating to Google Cloud. If you're interested in an overview of the series, see [Migration to Google Cloud: Choosing your migration path](#).

This article is part of a series:

- Migration to Google Cloud: Getting started (this document)
- [Migration to Google Cloud: Assessing and discovering your workloads](#)
- [Migration to Google Cloud: Building your foundation](#)
- [Migration to Google Cloud: Transferring your large datasets](#)

QUESTION 33

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 maximim 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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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>

Customers across industries are **migrating applications** at scale to the cloud. Migrate for Compute Engine enables you to lift and shift workloads at scale to Google Cloud Compute Engine with minimal changes and risk. Recently, we delivered our latest release of **Migrate for Compute Engine** – Version 5 or V5. This version delivers a Google-managed cloud service that enables simple, frictionless, and large-scale enterprise migrations of virtual machines to Google Compute Engine with minimal downtime and risk. API-driven and integrated into your Google Cloud console for ease of use, this service uses agent-less replication to copy data without manual intervention and without VPN requirements. It also enables you to launch non-disruptive validations of your VMs prior to cutover. Rapidly migrate a single application or execute a sprint with hundred systems using migration groups with confidence.

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QUESTION 34

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



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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

SecureAuth is dedicated to providing the **industry-leading** enhanced **support** ensuring the long term success of your SecureAuth SaaS IAM deployment.

While our basic support offers industry leading coverage and response times for some customers, SecureAuth protects critical applications meaning delays and extended downtime is simply not an option. For these customers our **Enhanced Support** offerings provide **24*7 coverage** and the most responsive and **complete SLA's** available. That's why we offer three different levels of support, so you can choose the level of support that best works for your needs.

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QUESTION 35

Your organization offers public mobile apps and websites. You want to migrate to a Google Cloud-based solution for checking and maintaining your users' usernames and passwords and controlling their access to different resources based on their identity.

Which should your organization choose?

- A. VPN tunnels
- B. Identity Platform
- C. Compute Engine firewall rules
- D. Private Google Access



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

An identity platform is a modern solution for managing the identities of users and devices in a centralized fashion.

Reference: <https://www.okta.com/blog/2021/07/what-is-an-identity-platform/#:~:text=An%20identity%20platform%20is%20a,%2C%20integrations%2C%20and%20platform%20services>

An identity platform is a modern solution for managing the identities of users and devices in a centralized fashion. It enables organizations to securely authorize workforce and customer users to access their ecosystem using access management tools, programmable components, integrations, and platform services.

Today's organizations have a wide range of identity requirements. As they expand, embrace new innovations, and meet new customer demands, they need an identity solution that can grow with them. And as they grow, these organizations are also looking for offerings that centralize and consolidate identity, reducing the need for multiple access management, governance, and authentication products that don't necessarily talk to each other.

In short, although the concept of identity platforms is still new, the growth of disruptive technologies and highly personalized products and services has made a platform approach the key for effectively unifying identity management. But how did we get here?

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QUESTION 36 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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

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>

What is BigQuery ML?

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BigQuery ML lets you create and execute machine learning models in BigQuery using standard SQL queries. BigQuery ML democratizes machine learning by letting SQL practitioners build models using existing SQL tools and skills. BigQuery ML increases development speed by eliminating the need to move data.

BigQuery ML functionality is available by using:

- The Google Cloud Console
- The `bq` command-line tool
- The BigQuery REST API
- An external tool such as a Jupyter notebook or business intelligence platform

QUESTION 37

Your organization runs an application on virtual machines in Google Cloud. This application processes incoming images. This activity takes hours to create a result for each image. The workload for this application normally stays at a certain baseline level, but at regular intervals it spikes to a much greater workload. Your organization needs to control the cost to run this application.

What should your organization do?

- A. Purchase committed use discounts for the baseline load
- B. Purchase committed use discounts for the expected spike load
- C. Leverage sustained use discounts for your virtual machines
- D. Run the workload on preemptible VM instances

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The idea of the Sustained Use discount is that the longer you run a VM instance in any given month, the bigger discount you will get from the list price.

Reference: <https://www.parkmycloud.com/blog/google-sustained-use-discounts/>

price. The following shows the incremental discount, and its impact on a hypothetical \$100/month VM instance, where the are against the baseline 730-hour month.

Usage level		Hours usage before price break	discount	Base cost/mo
From	To			\$
0%	25%	-	0%	\$ 25.00
25%	50%	182.5	20%	\$ 20.00
50%	75%	365.0	40%	\$ 15.00
75%	100%	547.5	60%	\$ 10.00
			Net cost	\$ 70.00

QUESTION 38 Your organization is developing a plan for migrating to Google Cloud.

What is a best practice when initially configuring your Google Cloud environment?

- A. Create a project via Google Cloud Console per department in your company
- B. Define your resource hierarchy with an organization node on top
- C. Create projects based on tem members' requests
- D. Make every member of your company the project owner

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Billing contacts

Reference: <https://cloud.google.com/billing/docs/concepts>

Overview of Cloud Billing concepts

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You can configure billing on Google Cloud in a variety of ways to meet different needs. This section introduces the core concepts for your organization and for billing, and discusses how to use them effectively.

Resource Overview

What is a resource?

In the context of Google Cloud, a resource can refer to the service-level resources that are used to process your workloads (VMs, DBs, and so on) as well as to the account-level resources that sit above the services, such as projects, folders, and the organization.

QUESTION 40

How should a multinational organization that is migrating to Google Cloud consider security and privacy regulations to ensure that it is in compliance with global standards?

- A. Comply with data security and privacy regulations in each geographical region
- B. Comply with regional standards for data security and privacy, because they supersede all international regulations
- C. Comply with international standards for data security and privacy, because they supersede all regional regulations
- D. Comply with regional data security regulations, because they're more complex than privacy standards

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference: