

# CLOUD-DIGITAL-LEADER<sup>Q&As</sup>

Cloud Digital Leader

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### QUESTION 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.

Correct Answer: B

A single data center is vulnerable. So any option involving that is not good. Reference Link:-

<https://www.coresite.com/blog/data-center-redundancy>

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### QUESTION 2

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

Correct Answer: A

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

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### QUESTION 3

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

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>

<https://support.google.com/a/answer/106368?hl=en>

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#### QUESTION 4

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

Correct 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).

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#### QUESTION 5

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

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

Correct Answer: A

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

Use entity analysis to find and label fields within a document--including emails, chat, and social media--and then

sentiment analysis to understand customer opinions to find actionable product and UX insights.

## QUESTION 6

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

Correct 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.

### QUESTION 7

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

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

Correct Answer: B

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

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### QUESTION 8

There are internal compliance requirements that demand that we do not use any APIs or services that are not backed by SLAs. Which of these are acceptable for us? (Choose two answer)

- A. Alpha, Beta
- B. Early Access, Preview
- C. General Availability
- D. Deprecated, but ensure that the SLA support period is still valid.

Correct Answer: CD

General Availability is the stage where SLAs apply. Deprecated - in the deprecated stage, you should start moving away from those APIs and products. Depending on the deprecation policy, SLAs could still be valid.

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### QUESTION 9

Your organization is defining the resource hierarchy for its new application in Google Cloud. You need separate development and production environments. The production environment will be deployed in Compute Engine in two regions. Which structure should your organization choose?

- A. Create a single project for all environments. Use labels to segregate resources by environment.
- B. Create a single project for all environments. Use tags to segregate resources by environment.
- C. Create one project for the development environment and one project for the production environment.

D. Create two projects for the development environment and two projects for the production environment (one for each region).

Correct Answer: C

Explanation: Many organizations have separate development and production environments so they can build and test new features without disturbing production traffic. In Optimizely, you can create separate projects for each environment to

help with governance.

With separate development and production projects, your organization can safely build and QA experiments and Personalization campaigns in a development environment before deploying to production. This approach allows multiple

stakeholders in your organization to act as gatekeepers for running new experiments in production.

## Set up projects

First, you'll start by creating two new projects: one for development and one for production. Each project will need its own snippet:

1. Create a project for your development environment.
2. Implement the snippet in the head tag for that environment.
3. Add the collaborators who you'd like to have access to your development project.
4. Next, create a project for your production environment.
5. Implement the production project snippet in the head tag of the production environment.
6. Add collaborators who you'd like to have access to your production project.

Description automatically generated with medium confidence Reference link- <https://support.optimizely.com/hc/en-us/articles/4410284353805-Set-up-projects-for-development-and-production-environments>

## QUESTION 10

The CFO is attending one of the preliminary meetings in the migration strategy meeting. She brings up the concern about costs. They have contracts with their vendors and the payments they will need to make when purchasing any kind of infrastructure. This gives them a clear view of numbers for resource budgeting and planning. Can she get the same kind of clarity on Google Cloud?

- A. Yes. Do a trial run of typical workloads. See the billing amount and that becomes the base reference.
- B. Yes, the Cloud Native Computing Foundation publishes yearly numbers on the cost of running the cloud. Use that as a reference.
- C. Yes, the Pricing Calculator can be used to estimate the cost of resources.
- D. Yes, Google provides a typical cost of application workloads by region and industry. Use that as a reference.

Correct Answer: C

Explanation: The pricing calculator can be used to give clear estimates of resource usage. -> Running test loads is as closely indicative as using the pricing calculator. -> There are no cloud cost references published, either by Google or CNCF. Even if some companies have published such info. It might not apply to you.

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

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### QUESTION 11

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

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

Correct Answer: A

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

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### QUESTION 12

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

Correct 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

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### QUESTION 13

An organization wants to search hundreds of scanned documents for key information like dates, names, and other specific words. Why should the organization use application programming interfaces (APIs)?

- A. To replace the scanned documents with an online survey
- B. To ingest data in real time and encrypt unmatched words

- C. To create digital versions of the documents and locate key information
- D. To transform the documents into unstructured data.

Correct Answer: C

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#### QUESTION 14

Your customer is moving to Google Cloud. They have many teams, each working on many projects. How should they organize resources?

- A. Let each team have one shared Folder with multiple Projects within it so that there is a separation of concerns.
- B. Let each Project have one Folder so that there is a clear separation of concerns.
- C. Let each team have an Organization so that they can entirely manage themselves with their own identity.
- D. Let each team have one shared Project so that it is easy to manage.

Correct Answer: A

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.

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#### QUESTION 15

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.

Correct Answer: C

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

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