

[GDSC India] CDL Practice quiz Slot 1

Total points 36/50 ?

Hello everyone,

Welcome to CDL Practice quiz Slot 1

Instructions

- Exam contains **50 questions** and is of **1 hour 30 mins duration**
- The link opens at **7:00PM** and it will automatically close at **8:30PM IST**. Ensure you submit at least 5 Mins before the time.
- Attempt the exam using the **same email address** that you used during signup
- Ensure you have a stable internet connection while you take the quiz
- You are allowed to submit only once, make sure that you have correctly attempted all the questions before submission
- Any issues faced during the exam please write to gdsc-india-connect@google.com

All the best :)

Email *

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0 of 0 points

Name *

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Please ensure you select your Institution name as per Advocu. To check the latest view here (<https://gdsc.advocu.com/>)

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Practice Test Questions

36 of 50 points

✓ All cloud computing applications suffer from the inherent _____ that 1/1 is intrinsic in their WAN connectivity

- ☐ Propagation
- ☐ all the above
- ☒ Latency
- ☐ noise



✓ What are the three components of Google Cloud's defense-in-depth data 1/1 security design? Select the correct answer.

- ☐ Categorized data, data encryption keys, globally distributed encryption keys
- ☐ Perimeter security, fingerprint authentication, globally distributed data storage
- ☐ Sharding, biometric authentication, 2-factor authentication
- ☒ Sharding, encryption key, key encryption key



✓ A company is working on a project that requires the ingestion of user interaction from end-user apps and server events from many clients simultaneously. Which service best fits the requirement? 1/1

☒ Pub/Sub



☐ Firebase

☐ Dataflow

✓ What primary factors contribute to the complexity of calculating the total cost of ownership (TCO) when migrating to the cloud? Select the two correct answers. 1/1

☒ Qualified personnel (i.e. Financial controller with expertise in cloud)



☒ Cloud architecture (i.e. private, hybrid, and multi-cloud architecture)



☐ Product or service features (i.e. the ability to export or visualize data directly in a tool)

☐ Government regulations (i.e. location of data storage per 3rd part regulations)



✗ What security principle does an organization gain upon utilizing Identity and Access Management (IAM)? 0/1

- ☐ Confidentiality
- ☐ Integrity
- ☐ Least Privilege
- ☒ Availability

✗

Correct answer

- ☒ Least Privilege

✓ In GCP, to change the machine type of an existing VM instance, the instance must be in which state 1/1

- ☐ Start
- ☐ Running
- ☐ Suspend
- ☒ Stop

✓



✓ Michelle wants to manage her team's APIs and provide security policies for identity verification, authentication, and access control. What Google Cloud solution should she choose? Select the correct answer. 1/1

- ☐ BigQuery
- ☐ Google Kubernetes Engine
- ☒ Apigee
- ☐ Cloud Identity



✗ An organization is reviewing its monthly operational expenditure on the Google Cloud platform and breaking down spending per region. Which built-in cloud billing report would be ideal for visualization regional spending? 0/1

- ☐ Committed use discounts reports
- ☒ Cost Breakdown Report
- ☐ Cost Table Reports
- ☐ Billing Reports



Correct answer

- ☒ Billing Reports



✓ You are the team leader assigned to the development of an application. 1/1
You must optimize the efficient workflow of multiple developers working on the development project while ensuring great flexibility for the entire process. Which of the following cloud computing services is best suited for the task?

- ☐ Platform as a Service (PaaS)
- ☒ Function as a Service (FaaS) ✓
- ☐ Infrastructure as a Service (IaaS)
- ☐ Software as a Service (SaaS)

✗ _____ has many of the characteristics of what is now being called cloud computing. 0/1

- ☐ None of the above
- ☐ Internet
- ☐ Softwares
- ☒ Web Service ✗

Correct answer

- ☒ Internet



✗ Talent, Environment, and Empowerment are three focus areas that Google 0/1 has identified as foundational to organizational transformation. What are the other three focus areas? Select the correct answer.

☐ Management, Tactics, Innovation

☒ Structure, Tactics, Creativity

✗

☐ Structure, Strategy, Innovation

☐ Management, Strategy, Creativity

Correct answer

☒ Structure, Strategy, Innovation

✗ An organization has a mobile workforce that frequently meets customers 0/1 at their offices or in public spaces. There is a concern within your organization that internal company data visualizations from Looker should only be accessible from cooperating devices when being accessed within the corporate offices. Which security service allows for limiting access in this scenario?

☒ Cloud Identity

✗

☐ IAM

☐ BeyondCorp and Identity-Aware Proxy

☐ Organization Policy Service

Correct answer



☒ BeyondCorp and Identity-Aware Proxy

✓ Your organization has virtual machines running on-premise that they want to migrate to the cloud. Which choice would be suited for this migration? 1/1

- ☒ Migrate for Compute Engine
- ☐ Migrate for Anthos
- ☐ Google Cloud VMWare Engine
- ☐ Migration waves



✗ An organization is migrating to Google Cloud and has a legacy PHP application running on Windows 2012 server. This legacy application is designed for internal business purposes and is not heavily used but cannot be eliminated due to its critical business function. The organization wants to eliminate the cost for a Windows License and ideally have a near-zero cost while also being as fully managed as possible. Which computing service would be most ideal for their use case? 0/1

- ☐ Cloud Functions
- ☒ Compute Engine
- ☐ Cloud Run
- ☐ Google Kubernetes Engines (GKE)



Correct answer

- ☒ Cloud Functions



✓ Sajid is a developer for an online apparel retail company. What kind of architecture should he use for the applications he develops, and why? Select the correct answer. 1/1

- ☒ Microservice pattern, because it's modular and therefore easy to update. ✓
- ☐ API gateway pattern, because it's modular and therefore easy to update.
- ☐ Monolithic pattern, because it's modular and therefore easy to update.
- ☐ Client-server pattern, because it's modular and therefore easy to update.

✓ A financial services firm wants to migrate an existing application to the cloud but doesn't want to risk service downtime. For this reason, they have chosen to opt for redundancy and build a new application in the cloud while continuing to run their old application on-premises. Which standard pattern of cloud migration describes this scenario? Select the correct answer. 1/1

- ☒ Invent in brownfield ✓
- ☐ Move then change
- ☐ Invent in greenfield
- ☐ Change then move



✓ What is App Engine? Select the correct answer.

1/1

- ☒ A platform for building scalable web applications and mobile backends. ✓
- ☐ A platform for managing the software and infrastructure required to run your code.
- ☐ An application for powering the hardware and data services for scalable features.
- ☐ An application for visibility and management into backend software platforms.

✓ How is data integrity achieved? Select the two correct answers.

1/1

- a. Through ongoing error checking and validation routines as data is collected
- b. By implementing a set of rules when a database is first designed
- c. By fully migrating all types of data into a database
- d. By converting all unstructured data into structured data
- e. By including all types of data regardless of type

- ☐ C&D
- ☐ A&C
- ☐ A&D
- ☒ A&B



✗ What are the key benefits of using cloud technology to unlock value from data, especially for traditional Enterprises? Select the two correct answers. 0/1

- a. Businesses can process terabytes of data in real-time.
- b. Customers can collaborate with corporations to create industry trends.
- c. Customers can now gain access to their own data instantly.
- d. Businesses can query their data and retrieve results instantly.
- e. Businesses can access open source data like never before.

☐ A&D

☐ A&E

☒ A&B

☐ A&C



Correct answer

☒ A&D

✓ You are a mobile gaming company and you need to process real-time game metrics to be analyzed for business intelligence. The metrics of logs are stored in Cloud Storage buckets collected from Cloud Logging. You want a service that can process the data so it can be analyzed in BigQuery. Which service is best suited to process the logs and generate aggregate metrics to be analyzed? 1/1

☒ Dataflow

☐ Cloud SQL



- ☐ DataProc
- ☐ Dataprep

✓ In google cloud pricing of a VM can ve vary based on -----

1/1

- ☒ All of the above
- ☐ Type and Size of storage disk
- ☐ Server Location
- ☐ Machine Type



✗ A VP of a large enterprise is trying to convince the executives of the cost- 0/1 saving benefits of moving their on-premise workloads to the cloud. Which of the following are characteristics of OPEX? (Choose 2)

- a.You pay based on usage
- b.You can stop paying for on-premise licenses
- c.You pay a single time cost for hardware
- d.The cloud service provider is responsible for everything

- ☒ A&B
- ☐ A&D
- ☐ A&C
- ☐ D&B



Correct answer

- ☒ D&B



✓ The finance team just posted an open role for a Financial Manager. Jessica, the recruiter, wants to use a machine learning (ML) model to predict when the new position would be filled. Why is this use case not suitable for ML? Select the correct answer. 1/1

- ☐ Once the prediction is made, the ML model is no longer useful.
- ☐ The problem statement is too vague and wouldn't benefit the overall company.
- ☐ Jessica would need access to sensitive employee data to train a custom ML model.
- ☒ This is an infrequent decision for a specific role and department. ✓

✓ Which Google cloud offering is best suitable for Apache Spark and Presto solutions? 1/1

- ☒ Dataproc ✓
- ☐ Dataprep
- ☐ Google Kubernetes Engine
- ☐ Cloud Run



✓ A game company is set to release their new sports title next week and it's expected to receive large amounts of traffic for the first quarter. It is important the reads have very low latency. Which data store is ideal for this use case? 1/1

- ☐ Firestore
- ☐ Cloud Storage
- ☒ Cloud BigTable
- ☐ BigQuery



✓ What is Google Kubernetes Engine (GKE)? Select the correct answer. 1/1

- ☐ An open-source container-orchestration system.
- ☒ A Google Cloud managed service for container orchestration.
- ☐ A Google Cloud managed service for virtual machine (VM) integration.
- ☐ An open-source virtual machine (VM) integration system.



✓ Google Cloud's tools offer four key benefits for managing cloud costs. What are they? Select the correct answer. 1/1

- ☐ Usability, accountability, control, measurability.

☐ Scalability, availability, control, affordability.



- ☐ Scalability, visibility, control, affordability.
- ☐ Measurability, scalability, accountability, intelligent recommendations.
- ☒ Visibility, accountability, control, intelligent recommendations. ✓

✓ The most fundamental unit of cloud computing is?

1/1

- ☐ Block
- ☐ Subnet
- ☒ VM ✓
- ☐ Physical Server

✓ An organization has an LDAP(Lightweight Directory Access Protocol) server where they want to allow their users to access Google Cloud resources. Whenever an LDAP user is removed, it should also remove access to Google Cloud.Which service will meet this requirement?

1/1

- ☐ BeyondCorp
- ☐ Cloud Identity
- ☐ Identity-Aware-Proxy
- ☒ Google Cloud Directory Sync ✓



✗ Your organization has a large amount of sensitive data they want to analyze using cloud services. They are looking for a cloud networking solution to establish a secure connection to their Virtual Private Cloud(VPC). The method must be cost-effective, and the connection does not require low latency and high availability. What cloud networking solution will meet the requirements to establish a secure connection to their Virtual Private Cloud(VPC)? 0/1

- ☐ Partner Interconnect
- ☐ Cloud VPN
- ☐ Anthos
- ☒ Dedicated Interconnect

✗

Correct answer

- ☒ Cloud VPN

✗ An organization with a GCP account has 50 TB of data residing on their local storage and they want to quickly transfer the data to Google Cloud for analysis. Which service can the organization use to meet this requirement? 0/1

- ☒ Cloud Storage
- ☐ Transfer Appliance Service
- ☐ Dataproc

✗

Correct answer



☒ Transfer Appliance Service

✓ You are migrating virtual machines from your on-premise environment to Google Cloud. In case of failure, you want to be able to experiment and try the migrated VMs before putting them in production. Which option will meet this requirement? 1/1

- ☐ Migration waves Runbook
- ☐ Migrate for Anthos
- ☒ Migrate for Compute Engine Test Clones ✓
- ☐ Cloud Run

✗ You are a developer startup developing a new food delivery service for popular dine-in and fast food restaurants. An important component to the design is having real-time updates reflected as soon as they are added or changed to the database, ensuring that customers and drivers are aware of when food is ready for pickup and when food is in transit to their end destination. Which Google offering best meets these requirements? 0/1

- ☐ Firestore
- ☐ Cloud Storage
- ☒ Pub/Sub ✗
- ☐ Dataflow

Correct answer

☒ Firestore



✓ Your startup is a social trading platform that brokers used items between buyers and sellers. The platform could be described as yard-sale as a service. The platform allows buyers to take a picture of single items or a group of items and will categorize these products. Which of the following solutions would be ideal for the categorization of products? 1/1

- ☐ AI Platform
- ☐ TensorFlow
- ☐ Vertex AI
- ☒ Vision AI



✓ The technology team of a pharmaceutical business decides to adopt an automated continuous integration and deployment (CI/CD) approach. What is the primary value of using a CI/CD approach for the overall business? Select the correct answer. 1/1

- ☐ It improves security of services and solutions.
- ☒ It increases application release velocity and reliability.
- ☐ It prevents infrastructure failures and downtime.
- ☐ It allows developers to build using APIs.



✗ You are a developer working for a well-established organization building its first Business-to-consumer(B2C) web application. There is uncertainty about the popularity of this new web application. You have been asked to make sure the operational costs can scale to zero. Which two Google offerings are viable options to meet the requirements? (Select 2) 0/1

☒ Cloud Run



☐ Dataproc

☒ Pub/Sub



☐ Firebase

Correct answer

☒ Cloud Run

☒ Firebase

✓ Which specific cloud computing feature helps businesses serve their customers without service interruption and in a cost-effective way? Select the correct answer. 1/1

☐ On-demand service

☐ Large Network Access

☒ Elasticity



☐ Agility



✗ Your organization has customer data on-premise but wants to take advantage of the cloud's storage security and durability. The data contains Personally Identifiable Information (PII) and the organization wants to ensure PII's are de-identified via masking to keep this information safe. What service would offer this protection? 0/1

- ☒ BeyondCorp
- ☐ Cloud Storage
- ☐ Cloud Data Loss Prevention
- ☐ HIPAA Compliance Program



Correct answer

- ☒ Cloud Data Loss Prevention

✓ What is a critical outcome of API management? Select the correct answer. 1/1

- ☐ Distributing and creating regular new business features.
- ☒ Measuring and tracking business performance.
- ☐ Updating and repairing outdated business components.
- ☐ Digitizing and modernizing siloed business data.



✓ Customers now expect instant access to services anytime, anywhere. 1/1
What do businesses need to prioritize to meet these changing needs?
Select the correct answer.

- ☐ Localizing existing applications
- ☐ Streamlining existing hardware
- ☐ Updating hardware systematically
- ☒ Launching new applications quickly



✓ Cloud computing is a concept that involves pooling physical resources 1/1
and offering them as which sort of resource?

- ☒ Virtual
- ☐ Cloud
- ☐ Real
- ☐ None of the mentioned



✗ You have been tasked to transfer on-premises data from your network to your Virtual Private Cloud (VPC) networks in Google Cloud. The method of transfer requires that you fully control the interconnect, high availability, and a 10 Gbps pipe. Cost is not a factor. Which of the following methods fulfills the requirement? 0/1

- ☐ Cloud Partner Interconnect
- ☐ Direct Peering
- ☒ Cloud VPN
- ☐ Cloud Dedicated Interconnect

✗

Correct answer

- ☒ Cloud Dedicated Interconnect

✓ Your organization is considering adopting cloud service but there is concern about Google Cloud meeting regulatory compliance. You need to download audit documents performed by third-party providers to prove to key stakeholders. Which choice will satisfy this requirement? 1/1

- ☐ Compliance Reports Manager
- ☐ BeyondCorp
- ☐ Assured Workloads
- ☒ Security Command Center

✓



✓ Which of these businesses failed to adapt as breakthrough technology became available? Select the two correct answers. 1/1

- a.Video game designers Video rental stores
- b.Encyclopedia companies
- c.Music playing devices
- d.Apparel retail stores

- ☐ b&c
- ☐ d&a
- ☐ c&d
- ☒ a&b



✓ Which of the following is an advantage for storing and managing data in the public cloud? Select the two correct answers. 1/1

- a.Elasticity
- b.Increased CapEx
- c.Speed
- d.Accessibility
- e.increased coverage

- ☐ A&D
- ☐ C&D
- ☐ A&B

☒ A&C





✓ Julia is worried that some of her team members will accidentally overspend on Google Cloud. How would creating a custom dashboard help address her concern? Select the correct answer. 1/1

- ☒ It would give her (and her teammates) greater visibility into costs. ✓
- ☐ It would streamline her budget allocation.
- ☐ It would centralize their spending on cloud resources.
- ☐ It would limit the number of people who could spin up resources.

✓ Stackdriver service that alerts when the CPU utilization of a virtual machine exceeds 80% limit? 1/1

- ☐ Cloud Debug
- ☒ Monitoring ✓
- ☐ logging
- ☐ Cloud Trace

✓ ____ is a complete operating environment with applications, management, and user interface. 1/1

- ☐ all the above



- ☐ PaaS
- ☒ IaaS
- ☐ SaaS



✓ How do databases and data warehouses differ? Select the correct answer.

1/1

- ☐ Data warehouses efficiently process structured data, while databases rapidly process software data.
- ☐ Data warehouses efficiently ingest large amounts of real-time data, while databases rapidly analyze large, multi-dimensional datasets.
- ☒ Databases efficiently ingest large amounts of real-time data, while data warehouses rapidly analyze multi-dimensional datasets.
- ☐ Databases efficiently process structured data, while data warehouses rapidly process unstructured data.



✓ A national hotel chain is using a combination of on-premises data centers and public cloud services for their IT infrastructure. What type of IT infrastructure model is this? Select the correct answer.

1/1

- ☐ Virtualization
- ☒ Hybrid cloud
- ☐ Multi-cloud
- ☐ Colocation



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