

## Google Cloud Digital Leader Crash Course

**Practice Questions and Answers** 

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# Google Cloud Digital Leader Practice Questions

### **BEFORE YOU BEGIN**

The main objective of these mock exams is to validate you have understood the objectives for the exam.

Answers with explanations are on the following pages.

If you do well on these exam questions(Over 75%) you should feel confident to sit for and pass the Cloud Digital Leader exam immediately!

Additional FREE and Membership Practice Questions are available online at

https://TechCommanders.com

# GCP PROFESSIONAL SECURITY ENGINEER PRACTICE EXAM 50 QUESTIONS

- 1. Which of the following are the current options for paid support in GCP? (Select Three)
  - A. Standard
  - B. Enhanced
  - C. Premium
  - D. Role
  - E. Premier

- 2. You are looking for a one stop reference page for GCP support. What Page would you select? (Select One)
  - A. Compliance Hub
  - B. Support Hub
  - C. Google Cloud Platform Status
  - D. Pricing Page
- 3. A customer deploys an application to App Engine and needs to check for Open Web Application Security Project (OWASP) vulnerabilities. Which service should be used to accomplish this? (Select One)
  - A. Cloud Armor

- B. Binary Authorization
- C. Cloud Security Scanner
- D. Forseti Security
- 4. GCP provides three main compliance resource webpages. What are they? (Select Three)
  - A. Support Hub
  - B. Compliance Reports Manager
  - C. GDPR Home Page
  - D. Compliance Offerings
  - E. TechCentral

- 5. Which of the following statements describe the features of a preemptible VM instance? (Select Three)
  - A. Instance is alive for no more than 24 hours
  - B. Instance is alive for no more than 12 hours
  - C. Discounted Significantly
  - D. Can use free tier credits
  - E. Can be pre-empted with a 30 second notice
  - F. Can be pre-empted with a 30 minute notice

- 6. Virtual Machine vCPU and memory usage for each of these categories can receive one of the following discounts? (Select Three)
  - A. Sustained-Use
  - B. Committed-Use

- C. Spot Instances
- D. Military Discounts
- E. Preemptible VMs

- 7. All Google Cloud Platform services are associated with a project that is used to provide what functions? (Select Four)
  - A. Enable Services and APIs
  - B. Track Resource Usage
  - C. Manage Container Deployments
  - D. Manage DNS Services
  - E. Enable Billing
  - F. Manage Permissions and Credentials

- 8. What cloud deployment model is generally deployed between organizations such as non-profits, hospitals or even enterprises that share similar requirements or interests? (Select One)
  - A. Hybrid
  - B. Private
  - C. Public
  - D. Community

- 9 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? (Select One)
  - A. PaaS
  - B. IaaS

- C. SaaS
- D. CaaS
- 10 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"? (Select One)
  - A. Interconnection Agreement
  - B. Service Level Agreement
  - C. Warranty
  - D. Performance Agreement
- 11. Which of the following NIST Cloud characteristics uses the business model of shared resources in a cloud environment? (Select One)
  - A. Broad Network Access
  - B. Elasticity
  - C. Availability
  - D. Multi-Tenancy
- 12. 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? (Select One)
  - A. Lift and Shift
  - B. Improve and Move

	C.	Rip	and	Rep	lace
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- D. None, since the customer is not cloud native ready.
- 13. What load balancer type is supported with Cloud Armor security policies? (Select One)
  - A. Regional SSL
  - B. HTTP(S) Only
  - C. HTTP(S) and SSL
  - D. SSL Proxy, HTTP(S) and SSL
- 14. When creating a project in Google Cloud it is important to understand quotas limits of a project. By default you can create up to \_\_\_\_\_ networks per project. (Select One)
  - A. 10
  - B. 100
  - C. 5
  - D. 50
- 15. Compute Engine provides machine type recommendations to help you optimize the resource utilization of your virtual machine (VM) instances. What is this capability called? (Select One)
  - A. Recommendation Engine
  - B. Best Practice Recommendations
  - C. Rightsizing Recommendations
  - D. App Engine
  - E. None of the Above

- 16. App Engine has been deployed in your customers GCP cloud deployment. The customer would like to know more about the benefits of App Engine Flexible. Please advise them on the benefits of App Engine Flexible (Select Two)
  - A. Supports autoscaling
  - B. Supports Docker containers
  - C. Supports mainframe connectivity
  - D. Source code is written in specific versions of the supported programming languages only
- 17. Cloud Data Loss Prevention (DLP) is a fully managed service designed to help discover, classify, and protect the most sensitive data. DLP provides three key features (Select Two)
  - A. Classification
  - B. De-Identification
  - C. De-classification
  - D. Reinspection
- 18. What service is a fully managed real-time messaging service that allows you to send and receive messages between independent applications. (Select One)
  - A. Cloud Pub-Sub
  - B. Cloud BigTable
  - C. Cloud Spanner
  - D. Cloud DNS
  - E. Cloud Datastore

- 19. Projects are important from a cloud deployment perspective for several reasons and provide multiple benefits. What are the two main benefits of using a project? (Select Two).
  - A. A project associates objects and services with billing
  - B. A project facilitates organization of services and objects
  - C. A project facilitates monitoring and management
  - D. A project is responsible for linking APIS to organizations
- 20. You have been contacted by the enterprise support team which has told you there have reports of significant latency at specific times for an application running on GCP. They would like you to review the issue and provide them insight into why the application is latent at specific times? What Google Cloud service could you use to inspect latency data that has been collected in near real time? (Select One)
  - A. Cloud Debug
  - B. Cloud Trace
  - C. VPC Trace Logs
  - D. Cloud Profiler
- 21. The Organization resource is the root node in the Google Cloud Platform hierarchy and is the hierarchical super node of projects. What are the types of customers an organization resource is available for? (Select Two)
  - A. Google Workspace
  - B. Gmail
  - C. Google for Education
  - D. Cloud Identity

22 . Your development team is moving to a container-based application and will also be having a culture shift by moving to a DevOps based culture. The development lead has requested they use Google Container Registry(GCR) for their docker containers.

What would be some reasons your development team would want to use Container Registry instead of a third party application? (Select Two).

- A. GCR provides a single place for teams to manage Docker images, perform vulnerability analysis, and decide who can access what with fine-grained access control.
- B. Costs for use are based only on Google Cloud Platform usage.
- C. GCR allows for migration from any container solution and is licensed based per container.
- D. GCR does not provide fine grained access controls but allows you to extend third party solutions.
- 23. Which of the following features are supported by GCP Cloud Storage? (Select Two)
  - A. Object Versioning
  - B. Object Lifecycle Management
  - C. Object Analysis Management
  - D. Object Antivirus Scanning

- 24. "Scale to Zero" is phrase or common buzzword used in Cloud. Google has some great capabilities around this. What would be the best statement to describe what "Scale to Zero" really means for Google Cloud? (Select One)
  - A. Scaling to zero allows containers to be run only when there is demand.
  - B. Scaling to zero allows virtual machines to be run only when there is demand.
  - C. Scaling to zero allows containers to be run only when there is a budget.
  - D. Scaling to zero allows virtual machines to be run only when there is a budget.
- 25. Your development team has been migrating the enterprise data warehouse service to Google Cloud. They chose Google BigQuery specifically for large amounts of data they will query. What is the best reason below for selecting BigQuery over BigTable? (Select One)
  - A. BigQuery is what you use when you have collected a large amount of data and need to ask questions about it.
  - B. BigQuery is cheaper than AWS comparables.
  - C. Latency is critical and BigQuery is a low latency service as compared to BigTable
  - D. BigQuery is a low latency data warehouse.
- 26. Which Google Cloud Service or API has a use case for Machine Learning Teams with ML Expertise? (Select One)
  - A. Vision API
  - B. DLP API

- C. Vertex Al
- D. TensorFlow
- 27. You're currently considering moving your on-premises CI pipeline from on premises to Google Cloud Platform. You would like to have code maintained in a private Git repository which is hosted on the Google Cloud Platform. What service would you choose? (Select One)
  - A. Container Registry
  - B. Kubernetes Engine
  - C. Cloud Source Repositories
  - D. Cloud Build
  - E. Cloud Run

- 28. What is the term used for a set of techniques known in machine learning in the training and operation of deep learning models? (Select One)?
  - A. Tensors
  - B. TensorFlow
  - C. Pre-Trained
  - D. TPU
- 29. The machine learning team at your company has decided to start using Google Cloud ML based services. They are specifically interested in running cutting-edge machine learning models with AI services on Google Cloud backed by ASICs. What service would they select? (Select One)
  - A. Cloud TPU

- B. Cloud Tensor
- C. Cloud Vision
- D. Vision API

30 A data pipeline is a set of actions (workflow) that ingest raw data from disparate sources and move the data to a destination for storage and analysis. Your development would like to use a GCP service that can be used for data processing for both batch and real-time data streaming applications. It is important to note that the service must also be able to extract data to endpoints for a data analytics application.

What service on GCP would you select? (Select One)

- A. Cloud Dataflow
- B. Cloud Pub/Sub
- C. Cloud Datastore
- D. Cloud BigQuery
- 31. Your company has decided to migrate over 600 Petabytes of data from on premises to Cloud Storage. This data migration has a short migration window and is preferred to transfer online. The development team is aware that the network bandwidth is sufficient for transferring this data in less than two weeks. What option for data transfer would you select based on the information given for a network based transfer? (Select One)
  - A. Cloud Pub/Sub
  - B. Cloud Datastore
  - C. Cloud Storage Transfer Service
  - D. Transfer Appliance

- 32. Software Development Lifecycle (SDLC) is a widely used framework with application development teams. Which of the following two statements properly describe what SDLC is? (Select Two)
  - A. The Software Development Life Cycle (SDLC) is a process that produces software with the highest quality and lowest cost in the shortest time possible.
  - B. SDLC provides a baseline for developers so can they compare past performance of deployments.
  - C. SDLC is a proprietary method that is only used for on premise deployments. SDLC will not be a good framework for cloud deployments.
  - D. SDLC provides a well-structured flow of phases that help an organization to quickly produce high-quality software which is well-tested and ready for production use
- 33. The company that has hired you to design a cloud application that will transform their business is now requiring the following requirements. They want to utilize as many GCP data focused services as possible
- 1. Enterprise Data Warehouse (EDW) with SQL
- 2. Fast response times for OLAP workloads up to petabyte-scale,
- 3. Supports Big Data services and BI Tools.
- 4. Fully managed service

What service would you recommend the customer consider based on the limited information? (Select One)

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

34. The Google Cloud Adoption Framework serves both as a map for determining where your business information technology capabilities are now, and as a guide to where you want to be. What phase of the framework is when "The extent to which your IT departments are supported by a mandate from leadership to migrate to Google Cloud."? (Select One)

- A. Learn
- B. Lead
- C. Secure
- D. Scale

35. The Google Cloud Adoption Framework has three themes. Which of the following are NOT themes in the Google Cloud Adoption Framework? (Select Two)

(Note, ensure on the exam you do not confuse the "themes" and "topics" as they are documented.)

- A. Lead
- B. Learn
- C. Tactical
- D. Strategic
- E. Transformational

- 36. You're currently working a Google Cloud project for the company you for. The project you're on has now been fully migrated and the applications are currently deployed in production as of last week with cloud native capacity. When referring to the Google Cloud Adoption Framework what phase would this be your now in? (Select One)
  - A. Assess
  - B. Plan
  - C. Deploy
  - D. Optimize
- 37. \_\_\_\_\_\_is a sparsely populated table that can scale to billions of rows and thousands of columns with low latency. This feature will allow your enterprise to store terabytes or even petabytes of data.

What is the service being referenced? (Select One)

- A. Cloud Bigtable
- B. Cloud BigQuery
- C. Cloud Datastore
- D. Cloud Spanner
- 38. Your currently working on a Machine Language project for the customer. The customer has asked you to validate the supportability of machine language technologies with GCP. What capability is a Machine Language computation library solution that is directly supported by Google Cloud Platform and supports data flow graphing? (Select One)
  - A. Cloud TPU
  - B. TensorFlow
  - C. Cloud Tensor

### D. Vertex Al

- 39. Google Cloud Supports various international compliance standards. What is the international compliance standard that provides guidelines for information security controls applicable to the provision and use of cloud services? (Select One)
  - A. ISO 27001
  - B. ISO 27002
  - C. ISO 27017
  - D. ISO 27000
- 40. Your company is looking to utilize the power of the GCP Cloud. You need to setup you VMs with a stable block storage solution that is fully managed. What is the solution you need to specify? (Select One)
  - A. Cloud Storage
  - B. Persistent Disk
  - C. Cloud Spanner
  - D. Cloud FileStore

41. Your currently reviewing services in GCP for your deployments for container and cloud native solutions. Which of the following two statements would be correct regarding the main difference in use case for Cloud Run as opposed to Cloud Functions? (Select Two)

- A. Cloud Run uses containers and makes them invocable via HTTP requests while Cloud Functions is Google's event-driven serverless platform that does not use containers.
- B. Cloud Run is a cloud native service while Cloud Functions is not cloud native.
- C. Cloud Functions is based on Knative, which means that similar solutions will likely show up on other managed Kubernetes platforms.
- D. Cloud Run is a managed serverless service that is event based. (Triggers, Webhook)

- 42. Your organization has deployed services in GCP and now would like to access, manage, and monitor these services over an internet connection. Your organization does not need to have a well provisioned network, nor does it need to have a dedicated link. What connectivity option would you select? (Select One)
  - A. Cloud VPN
  - B. Cloud Interconnect
  - C. Carrier Peering
  - D. Partner Interconnect

- 43. Which of the following two statements are true about service accounts in GCP? (Select Two)
  - A. A service account is an identity for your programs to use to authenticate and gain access to GCP APIs. (Server to Server)

- B. A service account is an identity for your users to use to authenticate and gain access to GCP APIs. (User to Server)
- C. Each service account is associated with a key pair, which is managed by GCP
- D. Google Rotates the keys for service accounts weekly
- 44. You want to provide private access options that let virtual machine (VM) instances reach supported APIs and services without requiring an external IP address.

What solution with GCP would you select? (Select One)

- A. Cloud VPC
- B. Cloud VPN
- C. Private Access
- D. Cloud Interconnect
- 45. Cloud Identity is an Identity as a Service (IDaaS) solution that centrally manages users and groups. Cloud Identity has two specific versions. What are the two specific versions? (Select Two)
  - A. Free
  - B. Basic
  - C. Private
  - D. Premium
  - E. Commercial
- 46. Cloud SQL is a fully managed database service that makes it easy to set-up, maintain, manage, and administer your relational MySQL databases in the cloud. What are three benefits/features of using Cloud SQL? (Select Two)
  - A. Flexible Pricing

- B. Supports all SQL Versions
- C. A Managed Service
- D. Extends to your on-premises databases.
- 47. Which of the following statements would be true regarding Google Migrate for Compute Engine? (Select Two)
  - A. Formerly called Velostrata before Google purchased them
  - B. Google Migrate for Compute is a migration service which provides for data migrations transparently in the background.
  - C. Google Migrate for Compute is a partner service which provides for data migrations transparently in the foreground.
  - D. VCenter is not required for VMWare Migrations

- 48. Your new employer has hired you to help transform the current on premises environment to a cloud native deployment on Google Cloud. One of the first tasks you need to determine is focused on connecting securely to Google Cloud without a private link. You have been asked to provide a link that will be secure but also low overhead. What option would you select? (Select One)
  - A. Cloud Peering
  - B. Cloud VPN
  - C. Partner Interconnect
  - D. Direct Peering

- 49. Your new team is discussing cloud spending and is wanting to ensure they use a funding model that uses their monthly allocation of funds. They do not have authorization for a large procurement. What type of funding model should be selected?
  - A. CAPEX
  - B. OPEX
  - C. Public
  - D. Private
  - E. Hybrid
- 50. The National Institute for Science and Technology (NIST) provides five essential characteristics of cloud computing. Which of the following has the correct characteristics? (Select One)
  - A. Broad Network Access, Resource Pooling, Rapid Elasticity, Measured Service and Replication
  - B. On Demand Self Service , Broad Network Access, Resource Pooling, Rapid Elasticity, Measured Service
  - C. On Demand Self Service, Private Network Access, Resource Pooling, Rapid Elasticity, Measured Service
  - D. Broad Network Access, Resource Pooling, Rapid Elasticity, Measured Service and Performance

# GOOGLE CLOUD DIGITAL LEADER PRACTICE EXAM ONE 50 QUESTIONS WITH ANSWERS AND EXPLANATIONS

- 1. Which of the following are the current options for paid support in GCP? (Select Three)
  - F. Standard
  - G. Enhanced
  - H. Premium
  - I. Role
  - J. Premier

Correct Answer(s): A, B, C. 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

https://cloud.google.com/support

- 2. You are looking for a one stop reference page for GCP support. What Page would you select? (Select One)
  - E. Compliance Hub
  - F. Support Hub
  - G. Google Cloud Platform Status
  - H. Pricing Page

Correct Answer(s): B: Support Hub

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

- 3. A customer deploys an application to App Engine and needs to check for Open Web Application Security Project (OWASP) vulnerabilities. Which service should be used to accomplish this? (Select One)
  - E. Cloud Armor
  - F. Binary Authorization
  - G. Cloud Security Scanner
  - H. Forseti Security

Correct Answer(s): C. Cloud Security Scanner Explanation: Web Security Scanner identifies security vulnerabilities in your App Engine, Google Kubernetes Engine (GKE), and Compute Engine web applications. It crawls your application, following all links within the scope of your starting URLs, and attempts to exercise as many user inputs and event handlers as possible.

Currently, Web Security Scanner only supports public URLs and IPs that aren't behind a firewall. Web Security Scanner currently supports the App Engine standard environment and App Engine flexible environments, Compute Engine instances, and GKE resources.

Please review this page before the exam

https://cloud.google.com/security-command-center/docs/concepts-web-security-scanner-overview

- 4. GCP provides three main compliance resource webpages. What are they? (Select Three)
  - F. Support Hub
  - G. Compliance Reports Manager
  - H. GDPR Home Page
  - I. Compliance Offerings

### J. TechCentral

Correct Answer(s): B, C, D: Compliance Reports Manager, GDPR Home Page, Compliance Offerings

Explanation: GCP provides three main compliance resource webpages

Compliance Offerings -

https://cloud.google.com/security/compliance/offerings

Compliance Reports Manager -

https://cloud.google.com/security/compliance/compliance-reports-manager

GDPR Resource Center -

https://cloud.google.com/security/gdpr/resource-center

- 5. Which of the following statements describe the features of a preemptible VM instance? (Select Three)
  - G. Instance is alive for no more than 24 hours
  - H. Instance is alive for no more than 12 hours
  - I. Discounted Significantly
  - I. Can use free tier credits
  - K. Can be pre-empted with a 30 second notice
  - L. Can be pre-empted with a 30 minute notice

Correct Answer(s): A, C, E. Instance is alive for no more than 24 hours, Discounted Significantly, Can be pre-empted with a 30 second notice.

Explanation: 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

https://cloud.google.com/compute/docs/instances/preemptible

- 6. Virtual Machine vCPU and memory usage for each of these categories can receive one of the following discounts? (Select Three)
  - F. Sustained-Use
  - G. Committed-Use
  - H. Spot Instances
  - I. Military Discounts
  - J. Preemptible VMs

Correct Answer(s): A, B, E: Sustained, Committed and Preemptible Explanation: vCPU and memory usage for each of these categories can receive discounts

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

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

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

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

Sustained use discounts

https://cloud.google.com/compute/docs/sustained-use-discounts

Committed use discounts -

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

Discounts for preemptible VM instances - https://cloud.google.com/compute/docs/instances/preemptible

- 7. All Google Cloud Platform services are associated with a project that is used to provide what functions? (Select Four)
  - G. Enable Services and APIs
  - H. Track Resource Usage
  - I. Manage Container Deployments
  - J. Manage DNS Services
  - K. Enable Billing
  - L. Manage Permissions and Credentials

Correct Answer(s): A,B,E,F: Enable Services and APIs, Track Resource Usage, Enable Billing, Manage Permissions and Credentials.

Explanation A Project facilitates organization of services and objects and also use this method of segmentation for billing and accounting.

- Track resource and quota usage
- Enable billing
- Manage permissions and credentials

### Enable services and APIs

https://cloud.google.com/storage/docs/projects#:~:text=A%20project%2 <u>0consists%20of%20a,monitoring%20settings%20for%20those%20APIs.&</u> <u>text=You%20can%20have%20one%20project,Storage%20data%2C%20in</u> <u>to%20logical%20groups</u>.

- 8. What cloud deployment model is generally deployed between organizations such as non-profits, hospitals or even enterprises that share similar requirements or interests? (Select One)
  - E. Hybrid
  - F. Private
  - G. Public
  - H. Community

Correct Answer(s): D: Community

Explanation: Community Cloud – The cloud infrastructure is planned for selective use by a particular community of consumers from organizations that have mutual interests like security needs, policy, and compliance considerations.

https://csrc.nist.gov/glossary/term/community\_cloud

- 9 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? (Select One)
  - E. PaaS
  - F. laaS
  - G. SaaS
  - H. CaaS

Correct Answer(s): C. SaaS

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)

https://csrc.nist.gov/glossary/term/saas

- 10 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"? (Select One)
  - E. Interconnection Agreement
  - F. Service Level Agreement
  - G. Warranty
  - H. Performance Agreement

Correct Answer(s): B. Service Level Agreement (SLA)
Explanation: 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.

https://csrc.nist.gov/glossary/term/service level agreement

- 11. Which of the following NIST Cloud characteristics uses the business model of shared resources in a cloud environment? (Select One)
  - E. Broad Network Access
  - F. Elasticity
  - G. Availability
  - H. Multi-Tenancy

Correct Answer(s): D. Multi-Tenancy

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

https://www.cloudflare.com/learning/cloud/what-is-multitenancy/

https://www.nist.gov/system/files/documents/itl/cloud/NIST\_SP-500-291\_Version-2\_2013\_June18\_FINAL.pdf

- 12. 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? (Select One)
  - E. Lift and Shift
  - F. Improve and Move
  - G. Rip and Replace
  - H. None, since the customer is not cloud native ready.

Correct Answer(s): A. Lift and Shift

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.

Please review this page before the exam.

https://cloud.google.com/architecture/migration-to-gcp-gettingstarted

13. What load balancer type is supported with Cloud Armor security policies? (Select One)

- E. Regional SSL
- F. HTTP(S) Only
- G. HTTP(S) and SSL
- H. SSL Proxy, HTTP(S) and SSL

Correct Answer(s): B: HTTP(S) Only

Explanation. Google Cloud Armor security policies protect your application by providing Layer 7 filtering and by scrubbing incoming requests for common web attacks or other Layer 7 attributes to potentially block traffic before it reaches your load balanced backend services or backend buckets. Each security policy is made up of a set of rules that filter traffic based on conditions such as an incoming request's IP address, IP range, region code, or request headers.

Google Cloud Armor security policies are available only for backend services behind an external HTTP(S) load balancer. The load balancer can be in Premium Tier or Standard Tier.

Google Cloud Armor security policies and IP DENY lists and ALLOW lists are available only for HTTP(S) load balancing.

Please refer to this page before the exam.

https://cloud.google.com/armor/docs/security-policy-overview

14. When creating a project in Google Cloud it is important to understand quotas limits of a project. By default you can create up to \_\_\_\_\_ networks per project. (Select One)

E. 10

F. 100

G. 5

H. 50

Correct Answer(s): C. 5

Explanation. By default ,the limit is 5 per project. You can contact support to have this adjusted as needed. The exam has a few trivia around projects and quotas.

https://cloud.google.com/vpc/docs/using-vpc

- 15. Compute Engine provides machine type recommendations to help you optimize the resource utilization of your virtual machine (VM) instances. What is this capability called? (Select One)
  - F. Recommendation Engine
  - G. Best Practice Recommendations
  - H. Rightsizing Recommendations
  - I. App Engine
  - J. None of the Above

Correct Answer(s): C: Rightsizing Recommendations

Explanation: Compute Engine provides machine type recommendations to help you optimize the resource utilization of your virtual machine (VM) instances. These recommendations are generated automatically based on system metrics gathered by the Cloud Monitoring service over the previous 8 days. Use these recommendations to resize your instance's machine type to use the instance's resources more efficiently. This feature is also known as rightsizing recommendations

https://cloud.google.com/compute/docs/instances/apply-machine-type-recommendations-for-instances

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

E. Supports autoscaling

- F. Supports Docker containers
- G. Supports mainframe connectivity
- H. Source code is written in specific versions of the supported programming languages only

Correct Answer(s): A,B. Supports Autoscaling and Supports Docker Containers.

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

https://cloud.google.com/appengine/docs/the-appengine-environments

- 17. Cloud Data Loss Prevention (DLP) is a fully managed service designed to help discover, classify, and protect the most sensitive data. DLP provides three key features (Select Two)
  - E. Classification
  - F. De-Identification
  - G. De-classification
  - H. Reinspection

Correct Answer(s): A, B, E. Classification. De-classification and Inspection

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

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

Please review this page before the exam

https://cloud.google.com/dlp/docs

- 18. What service is a fully managed real-time messaging service that allows you to send and receive messages between independent applications. (Select One)
  - F. Cloud Pub-Sub
  - G. Cloud BigTable
  - H. Cloud Spanner
  - I. Cloud DNS
  - J. Cloud Datastore

Correct Answer(s): A. Cloud Pub/Sub

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

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

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

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

### https://cloud.google.com/pubsub/docs/overview

- 19. Projects are important from a cloud deployment perspective for several reasons and provide multiple benefits. What are the two main benefits of using a project? (Select Two).
  - E. A project associates objects and services with billing

- F. A project facilitates organization of services and objects
- G. A project facilitates monitoring and management
- H. A project is responsible for linking APIS to organizations

Correct Answer(s): A, B: A project associates objects and services with billing and a project facilitates organization of services and objects

Explanation: A project organizes all Google Cloud resources. A project consists of a set of users; a set of APIs; and billing, authentication, and monitoring settings for those APIs. A project does not manage monitoring or link APIS or link APIs to organizations <a href="https://cloud.google.com/docs/overview#projects">https://cloud.google.com/docs/overview#projects</a>

20. You have been contacted by the enterprise support team which has told you there have reports of significant latency at specific times for an application running on GCP. They would like you to review the issue and provide them insight into why the application is latent at specific times? What Google Cloud service could you use to inspect latency data that has been collected in near real time? (Select One)

- E. Cloud Debug
- F. Cloud Trace
- G. VPC Trace Logs
- H. Cloud Profiler

Correct Answer(s): A: Cloud Trace

Explanation: Cloud Trace formerly Stackdriver Trace is a distributed tracing system that collects latency data from your applications and displays it in the Google Cloud Console. You can track how requests propagate through your application and receive detailed near real-time performance insights. Cloud Trace automatically analyses all your application's traces to generate indepth latency reports to surface performance degradations, and can capture traces from all your VMs, containers, or App Engine projects.

Please review this page before the exam

https://cloud.google.com/trace

21. The Organization resource is the root node in the Google Cloud Platform hierarchy and is the hierarchical super node of projects. What are the types of customers an organization resource is available for? (Select Two)

- E. Google Workspace
- F. Gmail
- G. Google for Education
- H. Cloud Identity

Correct Answer(s): A and D: Gsuite and Cloud Identity

Explanation: An Organization resource is available for G Suite and Cloud Identity customers. Organizations are confusing at first, but for this exam we must understand the GCP cloud hierarchy details and what role an Org Administrator is about as well.

https://cloud.google.com/resource-manager/docs/creating-managing-organization

22. Your development team is moving to a container-based application and will also be having a culture shift by moving to a DevOps based culture. The development lead has requested they use Google Container Registry(GCR) for their docker containers.

What would be some reasons your development team would want to use Container Registry instead of a third party application? (Select Two).

- E. GCR provides a single place for teams to manage Docker images, perform vulnerability analysis, and decide who can access what with fine-grained access control.
- F. Costs for use are based only on Google Cloud Platform usage.
- G. GCR allows for migration from any container solution and is licensed based per container.
- H. GCR does not provide fine grained access controls but allows you to extend third party solutions.

Correct Answer(s): A, B.

Explanation: Google Container Registry (GCR) provides secure, private Docker image storage on Google Cloud Platform and is usage based. No licensing or subscription required. GCR does provide resource level access fully integrated with Cloud IAM. (fine grained access control)

https://cloud.google.com/container-registry

- 23. Which of the following features are supported by GCP Cloud Storage? (Select Two)
  - E. Object Versioning
  - F. Object Lifecycle Management
  - G. Object Analysis Management
  - H. Object Antivirus Scanning

Correct Answer(s): A. Object Versioning and Object Lifecycle Management

Explanation: Object Lifecycle and Object Versioning <a href="https://cloud.google.com/storage/docs/lifecycle">https://cloud.google.com/storage/docs/lifecycle</a>

- 24. "Scale to Zero" is phrase or common buzzword used in Cloud. Google has some great capabilities around this. What would be the best statement to describe what "Scale to Zero" really means for Google Cloud? (Select One)
  - E. Scaling to zero allows containers to be run only when there is demand.
  - F. Scaling to zero allows virtual machines to be run only when there is demand.
  - G. Scaling to zero allows containers to be run only when there is a budget.
  - H. Scaling to zero allows virtual machines to be run only when there is a budget.

Correct Answer(s): A: Scaling to zero allows containers to be run only when there is demand.

Explanation: Scaling to zero allows containers to be run only when there is demand.

For certain workloads, this can provide lower baseline resource usage and lets you scale down instances when in the public cloud to cost less. Cloud Run is a service that provides this capacity. <a href="https://dzone.com/articles/scale-to-zero-with-kubernetes">https://dzone.com/articles/scale-to-zero-with-kubernetes</a>

25. Your development team has been migrating the enterprise data warehouse service to Google Cloud. They chose Google BigQuery specifically for large amounts of data they will query. What is the best reason below for selecting BigQuery over BigTable? (Select One)

- E. BigQuery is what you use when you have collected a large amount of data and need to ask questions about it.
- F. BigQuery is cheaper than AWS comparables.
- G. Latency is critical and BigQuery is a low latency service as compared to BigTable
- H. BigQuery is a low latency data warehouse.

Correct Answer(s): A: BigQuery is what you use when you have collected a large amount of data and need to ask questions about it.

Explanation: BigQuery Vs BigTable

- •BigQuery is what you use when you have collected a large amount of data, and need to ask questions about it. (It's Serverless)
- •BigTable is a database which is designed to be the foundation for a large, scalable application.
- •Use BigTable when you are making any kind of app that needs to read and write data, and scale is a potential issue.(Low Latency)
- •Use BigQuery when you have collected a large amount of data, and then need to ask questions about it (Query).

  <a href="https://cloud.google.com/blog/topics/developers-practitioners/bigtable-vs-bigquery-whats-difference">https://cloud.google.com/blog/topics/developers-practitioners/bigtable-vs-bigquery-whats-difference</a>
- 26. Which Google Cloud Service or API has a use case for Machine Learning Teams with ML Expertise? (Select One)
  - E. Vision API
  - F. DLP API
  - G. Vertex Al
  - H. TensorFlow

Correct Answer(s): A Vision API

Explanation: The Google Cloud Vision API allows developers to easily integrate vision detection features within applications, including image labelling, face and landmark detection, optical character recognition (OCR), and tagging of explicit content.

- •Detect objects and faces, read printed and handwritten text, and build valuable metadata into your image catalog.
- •Meant for ML Teams with Expertise <a href="https://cloud.google.com/vision">https://cloud.google.com/vision</a>
- 27. You're currently considering moving your on-premises CI pipeline from on premises to Google Cloud Platform. You would like to have code maintained in a private Git repository which is hosted on the Google Cloud Platform. What service would you choose? (Select One)
  - F. Container Registry
  - G. Kubernetes Engine
  - H. Cloud Source Repositories
  - I. Cloud Build
  - J. Cloud Run

Correct Answer(s): C. Cloud Source Repositories

Explanation: Cloud Source Repositories is a secure hosted private Git on Google Cloud.

https://cloud.google.com/source-repositories/

28. What is the term used for a set of techniques known in machine learning in the training and operation of deep learning models? (Select One)?

- E. Tensors
- F. TensorFlow
- G. Pre-Trained
- H. TPU

Correct Answer(s): A. Tensors

Explanation: Tensors are a term and a set of techniques known in machine learning in the training and operation of deep learning models can be described in terms of tensors. Tensors play an important role in ML by encoding multi-dimensional data <a href="https://www.tensorflow.org/guide/tensor">https://www.tensorflow.org/guide/tensor</a>

29. The machine learning team at your company has decided to start using Google Cloud ML based services. They are specifically interested in running cutting-edge machine learning models with AI services on Google Cloud backed by ASICs. What service would they select? (Select One)

- E. Cloud TPU
- F. Cloud Tensor
- G. Cloud Vision
- H. Vision API

Correct Answer(s): A. Cloud TPU

Explanation: Cloud TPU is a custom-designed machine learning ASIC that powers Google products like Translate, Photos, Search, Assistant, and Gmail.

Built for AI on Google Cloud, Cloud TPU is designed to run cuttingedge machine learning models with AI services on Google Cloud. <a href="https://cloud.google.com/tpu">https://cloud.google.com/tpu</a> 30 A data pipeline is a set of actions (workflow) that ingest raw data from disparate sources and move the data to a destination for storage and analysis. Your development would like to use a GCP service that can be used for data processing for both batch and real-time data streaming applications. It is important to note that the service must also be able to extract data to endpoints for a data analytics application.

What service on GCP would you select? (Select One)

- E. Cloud Dataflow
- F. Cloud Pub/Sub
- G. Cloud Datastore
- H. Cloud BigQuery

Correct Answer(s): A. Cloud Dataflow

Explanation: Google Cloud Dataflow is a cloud-based data processing service for both batch and real-time data streaming applications. It enables developers to set up processing pipelines for integrating, preparing, and analysing large data sets, such as those found in Web analytics or big data analytics applications. Data Extraction to Endpoints

https://cloud.google.com/dataflow

- 31. Your company has decided to migrate over 600 Petabytes of data from on premises to Cloud Storage. This data migration has a short migration window and is preferred to transfer online. The development team is aware that the network bandwidth is sufficient for transferring this data in less than two weeks. What option for data transfer would you select based on the information given for a network based transfer? (Select One)
  - E. Cloud Pub/Sub
  - F. Cloud Datastore
  - G. Cloud Storage Transfer Service
  - H. Transfer Appliance

Correct Answer(s): C. Cloud Storage Transfer Service

Explanation: Cloud Storage Transfer Service would be the best option since Network bandwidth is not an issue. With Storage Transfer Service you can transfer petabytes of data from onpremises sources to Cloud Storage over networks. Cloud Storage Appliance would work as well however, that would be an offline transfer which was not the stated requirement in this scenario. Cloud Pub/Sub is meant for streaming data for GCP applications not for migrating data.

https://cloud.google.com/storage-transfer/docs/overview

32. Software Development Lifecycle (SDLC) is a widely used framework with application development teams. Which of the following two statements properly describe what SDLC is? (Select Two)

- E. The Software Development Life Cycle (SDLC) is a process that produces software with the highest quality and lowest cost in the shortest time possible.
- F. SDLC provides a baseline for developers so can they compare past performance of deployments.
- G. SDLC is a proprietary method that is only used for on premise deployments. SDLC will not be a good framework for cloud deployments.
- H. SDLC provides a well-structured flow of phases that help an organization to quickly produce high-quality software which is well-tested and ready for production use

Correct Answer(s): A, D:

Explanation: The Software Development Life Cycle (SDLC) is a process that produces software with the highest quality and lowest cost in the shortest time possible. SDLC provides a well-structured flow of phases that help an organization to quickly produce high-quality software which is well-tested and ready for production use. SDLC can be used with any software deployment that requires a rigorous framework and is not a proprietary process or framework.

https://stackify.com/what-is-sdlc/

- 33. The company that has hired you to design a cloud application that will transform their business is now requiring the following requirements. They want to utilize as many GCP data focused services as possible
- 1. Enterprise Data Warehouse (EDW) with SQL
- 2. Fast response times for OLAP workloads up to petabyte-scale,
- 3. Supports Big Data services and BI Tools.
- 4. Fully managed service

What service would you recommend the customer consider based on the limited information? (Select One)

- E. BigTable
- F. BigQuery
- G. Cloud Spanner
- H. Cloud SQL

Correct Answer(s): B. BigQuery

Explanation: BigQuery is correct answer. On the exam you must remember the difference use case between BigTable and BigQuery. <a href="https://cloud.google.com/bigquery">https://cloud.google.com/bigquery</a>

34. The Google Cloud Adoption Framework serves both as a map for determining where your business information technology capabilities are now, and as a guide to where you want to be. What phase of the framework is when "The extent to which your IT departments are supported by a mandate from leadership to migrate to Google Cloud."? (Select One)

E. Learn

F. Lead

G. Secure

H. Scale

Correct Answer(s): B. Lead

Explanation: Before taking the Cloud Leader exam you must review this page. Expect several questions on the adoption framework.

The framework assesses four themes:

- Learn. The quality and scale of your learning programs.
- Lead. The extent to which your IT departments are supported by a mandate from leadership to migrate to Google Cloud.
- Scale. The extent to which you use cloud-native services, and how much operational automation you currently have in place.
- Secure. The capability to protect your current environment from unauthorized and inappropriate access.

# https://cloud.google.com/architecture/migration-to-gcp-gettingstarted#gcp\_adoption\_framework

35. The Google Cloud Adoption Framework has three themes. Which of the following are NOT themes in the Google Cloud Adoption Framework? (Select Two)

(Note, ensure on the exam you do not confuse the "themes" and "topics" as they are documented.)

- F. Lead
- G. Learn
- H. Tactical
- Strategic
- J. Transformational

Correct Answer(s): A, B: Learn, Lead

Learn and Lead are "topics" not Themes.

We must review this page before the exam. We can expect several questions directly from this page.

https://cloud.google.com/architecture/migration-to-gcp-gettingstarted#gcp\_adoption\_framework

#### Themes are.

**Tactical.** There are no coherent plans covering all the individual workloads you have in place. You're mostly interested in a quick return on investments and little disruption to your IT organization. **Strategic.** There is a plan in place to develop individual workloads with an eye to future scaling needs. You're interested in the midterm goal to streamline operations to be more efficient than they are today.

**Transformational.** Cloud operations work smoothly, and you use data that you gather from those operations to improve your IT business. You're interested in the long-term goal of making the IT department one of the engines of innovation in your organization.

36. You're currently working a Google Cloud project for the company you for. The project you're on has now been fully migrated and the applications are currently deployed in production as of last week with cloud native capacity. When referring to the Google Cloud Adoption Framework what phase would this be your now in? (Select One)

- E. Assess
- F. Plan
- G. Deploy
- H. Optimize

Correct Answer(s): D. Optimize

Explanation: Optimize is correct and shows full cloud native capacity.

https://cloud.google.com/architecture/migration-to-gcp-gettingstarted#gcp\_adoption\_framework

There are four phases of your migration:

Assess. In this phase, you perform a thorough assessment and discovery of your existing environment in order to understand your app and environment inventory, identify app dependencies and requirements, perform total cost of ownership calculations, and establish app performance benchmarks.

Plan. In this phase, you create the basic cloud infrastructure for your workloads to live in and plan how you will move apps. This planning includes identity management, organization and project structure, networking, sorting your apps, and developing a prioritized migration strategy.

Deploy. In this phase, you design, implement, and execute a deployment process to move workloads to Google Cloud. You might also have to refine your cloud infrastructure to deal with new needs.

Optimize. In this phase, you begin to take full advantage of cloudnative technologies and capabilities to expand your business's potential to things such as performance, scalability, disaster recovery, costs, training, as well as opening the doors to machine learning and artificial intelligence integrations for your app.

37	is a sparsely populated table that can scale to
billions of	rows and thousands of columns with low latency. This
feature w	ill allow your enterprise to store terabytes or even
petabytes	of data.

What is the service being referenced? (Select One)

- E. Cloud Bigtable
- F. Cloud BigQuery
- G. Cloud Datastore
- H. Cloud Spanner

Correct Answer(s): A Cloud BigTable

Explanation: Use BigTable when you are making any kind of app that needs to read and write data, and scale is a potential issue.(Low Latency)

https://cloud.google.com/bigtable

- 38. Your currently working on a Machine Language project for the customer. The customer has asked you to validate the supportability of machine language technologies with GCP. What capability is a Machine Language computation library solution that is directly supported by Google Cloud Platform and supports data flow graphing? (Select One)
  - E. Cloud TPU
  - F. TensorFlow
  - G. Cloud Tensor
  - H. Vertex Al

Correct Answer(s): B. TensorFlow

Explanation: TensorFlow is an end-to-end open source platform for machine learning Core Libraries

- •Build and train ML models easily using intuitive high-level APIs
- •Train and deploy models in the cloud, on-prem, in the browser, or on-device no matter what language you use

https://www.tensorflow.org/

- 39. Google Cloud Supports various international compliance standards. What is the international compliance standard that provides guidelines for information security controls applicable to the provision and use of cloud services? (Select One)
  - E. ISO 27001
  - F. ISO 27002
  - G. ISO 27017
  - H. ISO 27000

Correct Answer(s): C. ISO 27017

Explanation: ISO/IEC 27017:2015 gives guidelines for information security controls applicable to the provision and use of cloud services by providing additional implementation guidance for relevant controls specified in ISO/IEC 27002 and additional controls with implementation guidance that specifically relate to cloud services

ISO 27001 outlines and provides the requirements for an information security management system (ISMS), specifies a set of best practices, and details the security controls that can help manage information risks but it's not specific to cloud. ISO 27002 is related to security controls to implement ISO 27001 and ISO 27018 relates to one of the most critical components of cloud privacy: the protection of Personally Identifiable Information (PII).

Please review the page below before the exam.

https://cloud.google.com/security/compliance/iso-27017

40. Your company is looking to utilize the power of the GCP Cloud. You need to setup you VMs with a stable block storage solution that is fully managed. What is the solution you need to specify? (Select One)

- E. Cloud Storage
- F. Persistent Disk
- G. Cloud Spanner
- H. Cloud FileStore

Correct Answer(s): B. Persistent Disk

Explanation: Compute Engine VM comes with a single root persistent disk which is hosted on Persistent Disk.

Persistent disks are durable network storage devices that your instances can access like physical disks in a desktop or a server. The data on each persistent disk is distributed across several physical disks. Compute Engine manages the physical disks and the data distribution for you to ensure redundancy and optimal performance.

Persistent disks are located independently from your virtual machine (VM) instances, so you can detach or move persistent disks to keep your data even after you delete your instances. Persistent disk performance scales automatically with size, so you can resize your existing persistent disks or add more persistent disks to an instance to meet your performance and storage space requirements.

Image is loaded onto root disk during boot process <a href="https://cloud.google.com/compute/docs/disks">https://cloud.google.com/compute/docs/disks</a>

- 41. Your currently reviewing services in GCP for your deployments for container and cloud native solutions. Which of the following two statements would be correct regarding the main difference in use case for Cloud Run as opposed to Cloud Functions? (Select Two)
  - E. Cloud Run uses containers and makes them invocable via HTTP requests while Cloud Functions is Google's event-driven serverless platform that does not use containers.
  - F. Cloud Run is a cloud native service while Cloud Functions is not cloud native.
  - G. Cloud Functions is based on Knative, which means that similar solutions will likely show up on other managed Kubernetes platforms.
  - H. Cloud Run is a managed serverless service that is event based. (Triggers, Webhook)

Correct Answer(s): A and B.

Explanation: Cloud Run uses containers and makes them invocable via HTTP requests while Cloud Functions is Google's event-driven serverless platform that does not use containers.

https://cloud.google.com/run

- 42. Your organization has deployed services in GCP and now would like to access, manage, and monitor these services over an internet connection. Your organization does not need to have a well provisioned network, nor does it need to have a dedicated link. What connectivity option would you select? (Select One)
  - E. Cloud VPN
  - F. Cloud Interconnect
  - G. Carrier Peering
  - H. Partner Interconnect

Correct Answer(s): A: Cloud VPN

Explanation: Cloud VPN provides private-to-private connectivity and your internet connection meets your business requirements.

- •Ensures VMs that you provisioned in GCP can communicate directly with on-premises resources via a private IP range.
- Private RFC1918 addresses
- IPSEC Tunnels
- •IPSEC VPN tunnels encrypt data by using industry-standard IPsec protocols as traffic traverses the public Internet.

https://cloud.google.com/hybrid-connectivity

43. Which of the following two statements are true about service accounts in GCP? (Select Two)

- E. A service account is an identity for your programs to use to authenticate and gain access to GCP APIs. (Server to Server)
- F. A service account is an identity for your users to use to authenticate and gain access to GCP APIs. (User to Server)
- G. Each service account is associated with a key pair, which is managed by GCP
- H. Google Rotates the keys for service accounts weekly

Correct Answer(s): A, C: A service account is an identity for your programs to use to authenticate and gain access to GCP APIs. (Server to Server) and Each service account is associated with a key pair, which is managed by GCP

Explanation: A service account is an identity for your programs to use to authenticate and gain access to GCP APIs. (Server to Server)

- •Service accounts authenticate applications running on your virtual machine instances to other GCP services.
- •Each service account is associated with a key pair, which is managed by GCP. It is used for service-to-service authentication within GCP.
- •Google rotates the keys daily..

https://cloud.google.com/iam/docs/service-accounts

44. You want to provide private access options that let virtual machine (VM) instances reach supported APIs and services without requiring an external IP address.

What solution with GCP would you select? (Select One)

E. Cloud VPC

- F. Cloud VPN
- G. Private Access
- H. Cloud Interconnect

Correct Answer(s): C: Private Access

Explanation: Google Cloud provides several private access options that let virtual machine (VM) instances reach supported APIs and services without requiring an external IP address.

- •Option supports the APIs and services that you need to access.
- •Private Google Access, Private Google Connect, etc <a href="https://cloud.google.com/vpc/docs/private-access-options">https://cloud.google.com/vpc/docs/private-access-options</a>
- 45. Cloud Identity is an Identity as a Service (IDaaS) solution that centrally manages users and groups. Cloud Identity has two specific versions. What are the two specific versions? (Select Two)
  - F. Free
  - G. Basic
  - H. Private
  - I. Premium
  - J. Commercial

Correct Answer(s): A, D: Free and Premium

Explanation: Cloud Identity is an Identity as a Service (IDaaS) solution that centrally manages users and groups.

- •Configure Cloud Identity to federate identities between Google and other identity providers, such as Active Directory and Azure Active Directory.
- •Use Identity and Access Management (IAM) to manage access to Google Cloud resources for each Cloud Identity account.

- •Use to create a GCP Organization (Super User is the Org Admin)
- •Two Editions Free and Premium https://support.google.com/cloudidentity/answer/7431902?hl=en# zippy=%2Cdevice-management
- 46. Cloud SQL is a fully managed database service that makes it easy to set-up, maintain, manage, and administer your relational MySQL databases in the cloud. What are three benefits/features of using Cloud SQL? (Select Two)
  - E. Flexible Pricing
  - F. Supports all SQL Versions
  - G. A Managed Service
  - H. Extends to your on-premises databases.

Correct Answer(s): A and C: Flexible Pricing and is a Managed Service

Explanation: Fully managed relational database service for MySQL, PostgreSQL, and SQL Server. Cloud SQL is a fully managed database service that makes it easy to set-up, maintain, manage, and administer your relational MySQL databases in the cloud. What are three benefits/features of using Cloud SQL? (Select Three)

- Flexible Pricing
- Managed Service
- Supports Application Replication

# https://cloud.google.com/sql

47. Which of the following statements would be true regarding Google Migrate for Compute Engine? (Select Two)

- E. Formerly called Velostrata before Google purchased them
- F. Google Migrate for Compute is a migration service which provides for data migrations transparently in the background.
- G. Google Migrate for Compute is a partner service which provides for data migrations transparently in the foreground.
- H. VCenter is not required for VMWare Migrations

Correct Answer(s): D: Formerly called Velostrata before Google purchased them and Google Migrate for Compute is a migration service which provides for data migrations transparently in the background.

Explanation: Google Migrate for Compute Engine is a migration service which provides for data migrations transparently in the background.

- •Enterprises can validate, run, and migrate applications into Google Cloud without rewriting them, modifying the image, or changing management processes.
- •Google bought Velostrata and rebranded to Google Cloud Migrate for Compute

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

- 48. Your new employer has hired you to help transform the current on premises environment to a cloud native deployment on Google Cloud. One of the first tasks you need to determine is focused on connecting securely to Google Cloud without a private link. You have been asked to provide a link that will be secure but also low overhead. What option would you select? (Select One)
  - E. Cloud Peering
  - F. Cloud VPN

G. Partner Interconnect

H. Direct Peering

Correct Answer(s): B: Cloud VPN.

Explanation: Cloud VPN provides private-to-private connectivity, and your internet connection meets your business requirements. Ensure VMs that you provisioned in GCP can communicate directly with on-premises resources via a private IP range.

https://cloud.google.com/blog/products/networking/google-cloud-network-connectivity-options-explained

- 49. Your new team is discussing cloud spending and is wanting to ensure they use a funding model that uses their monthly allocation of funds. They do not have authorization for a large procurement. What type of funding model should be selected?
  - F. CAPEX
  - G. OPEX
  - H. Public
  - I. Private
  - J. Hybrid

Correct Answer(s): B: Operational Expenditures (OPEX)

Explanation: Capital Expenditures (Capex) are investments made by an organization for long-term benefits in the future.

Operational Expenditures (Opex) are the ongoing costs related to day-to-day operations

https://www.cloudhealthtech.com/blog/capex-vs-opex-cloud-cost-management

50. The National Institute for Science and Technology (NIST) provides five essential characteristics of cloud computing. Which of the following has the correct characteristics? (Select One)

- E. Broad Network Access, Resource Pooling, Rapid Elasticity, Measured Service and Replication
- F. On Demand Self Service , Broad Network Access, Resource Pooling, Rapid Elasticity, Measured Service
- G. On Demand Self Service, Private Network Access, Resource Pooling, Rapid Elasticity, Measured Service
- H. Broad Network Access, Resource Pooling, Rapid Elasticity, Measured Service and Performance

Correct Answer(s): B: Broad Network Access, Resource Pooling, Rapid Elasticity, Measured Service and Replication

Explanation: The Five Essential Characteristics are.

On-demand self-service

A consumer can unilaterally provision computing capabilities, such as server time and network storage, as needed automatically without requiring human interaction with each service provider.

Broad network access.

Capabilities are available over the network and accessed through standard mechanisms that promote use on any device.

Resource pooling.

The provider's computing resources are pooled to serve multiple consumers using a multi-tenant model, with different physical and virtual resources dynamically assigned and reassigned according to consumer demand.

# Rapid elasticity

Capabilities can be elastically provisioned and released, in some cases automatically, to scale rapidly outward and inward commensurate with demand.

### Measured service

Cloud systems automatically control and optimize resource use by leveraging a metering capability at some level of abstraction appropriate to the type of service. Resource usage can be monitored, controlled, and reported, providing transparency for both the provider and consumer of the utilized service.

Services	Description	
On Demand Self Service	Resources are available as needed	
Broad Network Access	Access anytime or anywhere (Internet)	
Resource Pooling	Data Center resources are pooled together optimizing quality of service	
Rapid Elasticity	Ability to add or remove computing resources based as needed	
Measured Services	The ability to measure resources and charge customers	

https://www.nist.gov/news-events/news/2011/10/final-version-nist-cloud-computing-definition-published

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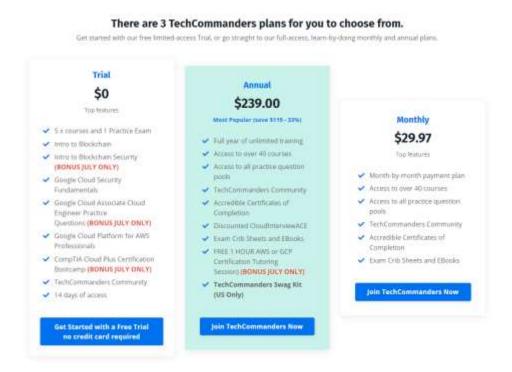
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