

Exam Questions Cloud-Digital-Leader

Google Cloud Digital Leader exam

<https://www.2passeasy.com/dumps/Cloud-Digital-Leader/>



NEW QUESTION 1

- (Exam Topic 2)

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

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

Answer: B

Explanation:

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

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

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

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

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

NEW QUESTION 2

- (Exam Topic 2)

Keeping Flavours of Apigee in mind, which of the following statements is/are correct?

- A. A hybrid version consisting of a runtime plane installed on-premises or in a cloud provider of your choice, and a management plane running in Apigee's cloud.
- B. In this model, API traffic and data are confined within your own enterprise-approved boundaries.
- C. A hosted SaaS version in which Apigee maintains the environment, allowing you to concentrate on building your services and defining the APIs to those services.
- D. There are two types of Flavours in Apigee i.
- E. Apigee & Apigee Hybrid.
- F. All of the above are correct.

Answer: D

Explanation:

Flavors of Apigee

Apigee comes in the following flavors:

Apigee: A hosted SaaS version in which Apigee maintains the environment, allowing you to concentrate on building your services and defining the APIs to those services.

Apigee hybrid: A hybrid version consisting of a runtime plane installed on-premises or in a cloud provider of your choice, and a management plane running in Apigee's cloud. In this model, API traffic and data are confined within your own enterprise-approved boundaries.

NEW QUESTION 3

- (Exam Topic 2)

You are a program manager in a company you need to submit a bare metal solution order for a secure, high performance connection with a low-latency network fabric. What network information you need to submit the order to Bare Metal Solutions.

- A. IP Ranges for example Client IP Address range used for communication between your Google Cloud and Bare Metal Solution environments.
- B. Google Cloud Project Id that you are using with your bare metal solution environment.
- C. Total number of VLANs you need in your Bare Metal Solution Environment.
- D. All of the above

Answer: D

Explanation:

What Bare Metal Solution provides

Bare Metal Solution is a managed solution that provides purpose-built HPE or Atos bare-metal servers in regional extensions that are connected to Google Cloud by a managed, high-performance connection with a low-latency network fabric.

With Bare Metal Solution, Google Cloud provides and manages the core infrastructure, the network, the physical and network security, and hardware monitoring capabilities in an environment from which you can access all of the Google Cloud services. The core infrastructure includes secure, controlled-environment facilities, and power.

The Bare Metal Solution also includes the provisioning and maintenance of custom, sole-tenancy servers with local SAN, and smart hands support.

The network, which is managed by Google Cloud, includes a low-latency Partner Interconnect connection into the customer Bare Metal Solution environment.

The available Google Cloud services include private API access, management tools, support, and billing.

NEW QUESTION 4

- (Exam Topic 2)

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

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

Answer: B

Explanation:

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

Choose a Google Cloud bare metal migration strategy

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

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

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

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

NEW QUESTION 5

- (Exam Topic 2)

You have a well established development and operations team. Your teams were managing the en-tire software delivery/deployment cycle on-premise. When migrating to the cloud, you want to con-tinue having this approach. Which is the ideal option for you?

- A. PaaS - Platform as a Service
- B. SaaS - Software as a Service
- C. IDaaS - Identity as a Service
- D. IaaS - Infrastructure as a Service

Answer: D

Explanation:

IaaS - you're given virtualized resources like VMs, Storage, Network. It is your responsibility to manage everything beyond that. This would be similar to what the organization had on-premise.

NEW QUESTION 6

- (Exam Topic 2)

A customer in the European Union region is very clear that their data should not go outside the Eu-ropean Union. Their end users are spread all over the European U. They have to choose a storage option that serves all the users within Asia via web browsers as quickly as possible. Which storage option will work for them?

Multi-regions

Multi-Region Name	Multi-Region Description
ASIA	Data centers in Asia
EU	Data centers within member states of the European Union*
US	Data centers in the United States

- A. Cloud Storage with a single region that is known to be within the European U
- B. Cloud Filestore is connected to virtual machines which are guaranteed to be within the European U
- C. Cloud Storage with the multi-region option of European U
- D. Cloud Storage with the dual-region option of European U

Answer: C

Explanation:

Multi-region option will use multiple datacenters that are within the European Union. More regions will also help with lower latency since users are spread across

the European U.
<https://cloud.google.com/storage/docs/locations#considerations>

NEW QUESTION 7

- (Exam Topic 2)

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

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

Answer: A

Explanation:

Because cross-team partnerships are part of the visibility cost management strategy.
https://wa.aws.amazon.com/wat.question.COST_1.en.html

NEW QUESTION 8

- (Exam Topic 2)

An organization wants to evaluate the performance of their entire cloud infrastructure, including metrics like server uptime and response rate reports. Which Google Cloud tool should the organization use?

- A. Cloud Trace
- B. Cloud Monitoring
- C. Cloud Profiler
- D. Cloud Debugger

Answer: B

Explanation:

Because Cloud Monitoring enables users to monitor the performance of their entire cloud infrastructure.

NEW QUESTION 9

- (Exam Topic 2)

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 Answers)

- 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

Answer: AB

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.

Reference link - <https://cloud.google.com/appengine/docs/the-appengine-environments>

NEW QUESTION 10

- (Exam Topic 2)

A large travel company has thus far invested heavily in their technology team. There is strategic pressure on the company to focus on their core business and innovate to survive in certain geographies and thrive in others. They are evaluating whether a move to Google Cloud will be good for them. Which of these reasons would be relevant for them? (choose two answer)

- A. Application architecture won't be too involved because of serverless options.
- B. The IT team won't have to manage software upgrades, security patches, et
- C. for the VMs.
- D. The IT team won't have to work on procuring and provisioning new hardware and refreshes to existing hardware.
- E. Budgeting won't be an issue since the cloud takes care of billing.

Answer: BC

NEW QUESTION 10

- (Exam Topic 1)

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

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

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

Answer: B

Explanation:

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

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

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

You can manually import boot disk images to Compute

Engine, but one disk at a time.

Graphical user interface, text, application, email Description automatically generated <https://cloud.google.com/compute/docs/images>

NEW QUESTION 12

- (Exam Topic 1)

Your large and frequently changing organization's user information is stored in an on-premises LDAP database. The database includes user passwords and group and organization membership.

How should your organization provision Google accounts and groups to access Google Cloud resources?

- A. Replicate the LDAP infrastructure on Compute Engine
- B. Use the Firebase Authentication REST API to create users
- C. Use Google Cloud Directory Sync to create users
- D. Use the Identity Platform REST API to create users

Answer: C

Explanation:

You can run a single instance of Google Cloud Directory Sync to synchronize user accounts and groups to Google Cloud.

Reference: <https://cloud.google.com/architecture/identity/federating-gcp-with-active-directory-introduction> Text Description automatically generated

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

NEW QUESTION 16

- (Exam Topic 1)

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

How should your organization set up support to minimize costs?

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

Answer: B

Explanation:

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

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

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NEW QUESTION 19

- (Exam Topic 1)

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

Which Google Cloud product or feature should you use?

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

Answer: A

Explanation:

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

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

NEW QUESTION 23

- (Exam Topic 1)

You are migrating workloads to the cloud. The goal of the migration is to serve customers worldwide as quickly as possible According to local regulations, certain data is required to be stored in a specific geographic area, and it can be served worldwide. You need to design the architecture and deployment for your workloads.

What should you do?

- A. Select a public cloud provider that is only active in the required geographic area
- B. Select a private cloud provider that globally replicates data storage for fast data access
- C. Select a public cloud provider that guarantees data location in the required geographic area
- D. Select a private cloud provider that is only active in the required geographic area

Answer: C

Explanation:

The goal of the migration is to serve customers worldwide as quickly as possible According to local regulations, certain data is required to be stored in a specific geographic area, and it can be served worldwide" This characteristic are inherent to the public cloud provider

NEW QUESTION 24

- (Exam Topic 1)

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

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

Answer: A

Explanation:

Comply with data security and privacy regulations in each geographical region For a multi-national corporation, they need to abide not just by international laws, but also regional laws where they do business.

NEW QUESTION 25

- (Exam Topic 1)

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

What should you do?

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

Answer: B

Explanation:

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

NEW QUESTION 27

- (Exam Topic 1)

Which of the following is/are true about Bare Metal Solutions?

- A. Enterprise-grade deployment platform
- B. All your existing investment in tooling and best practices will work as is
- C. Continue to run any version, and feature set, any database option, and any cus-tomizations (patchsets)
- D. All of the Above.

Answer: D

Explanation:

Bare Metal Solution for Oracle

Bring your Oracle workloads to Google Cloud with Bare Metal Solution and jumpstart your cloud journey with minimal risk.

- Continue to run any version, any feature set, any database option, and any customizations (patchsets)
- Enterprise-grade deployment platform
- High availability with Oracle RAC
- Works with any application, any Oracle versions
- All your existing investment in tooling and best practices will work as is

NEW QUESTION 30

- (Exam Topic 1)

An organization wants to scale their existing virtual machine architecture as quickly as possible. Why should the organization use VMware Engine?

- A. To archive virtual machine instances.
- B. To deploy custom APIs seamlessly.
- C. To migrate virtual machines to containers.
- D. To replatform virtual machines as they are.

Answer: D

Explanation:

VMware Engine helps migrate and run virtual machines in Google Cloud with minimal changes to the VM architecture.

Table Description automatically generated with medium confidence

A virtual machine (VM) is a digital version of a physical computer. Virtual machine software can run programs and operating systems, store data, connect to networks, and do other computing functions, and requires maintenance such as updates and system monitoring. Multiple VMs can be hosted on a single physical machine, often a server, and then managed using virtual machine software. This provides flexibility for compute resources (compute, storage, network) to be distributed among VMs as needed, increasing overall efficiency. This architecture provides the basic building blocks for the advanced virtualized resources we use today, including cloud computing.

Learn about virtual machines and [VM family types](#) that are available with [Compute Engine](#), the cloud-based computing infrastructure from Google Cloud.

<https://cloud.google.com/learn/what-is-a-virtual-machine>

NEW QUESTION 31

- (Exam Topic 1)

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

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

Answer: C

Explanation:

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

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

NEW QUESTION 36

- (Exam Topic 1)

Your organization uses Active Directory to authenticate users. Users' Google account access must be removed when their Active Directory account is terminated. How should your organization meet this requirement?

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

Answer: D

Explanation:

Configure single sign-on in the Google domain

Single sign-on: Whenever a user needs to authenticate, Google Cloud delegates the authentication to Active Directory by using the Security Assertion Markup Language (SAML) protocol. This delegation ensures that only Active Directory manages user credentials and that any applicable policies or multi-factor authentication (MFA) mechanisms are being enforced. For a sign-on to succeed.

Federating Google Cloud with Active Directory

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

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

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

Implementing federation

Google Cloud uses [Google Identities](#) for authentication and access management. Manually maintaining Google identities for each employee can add unnecessary management overhead when all employees already have an account in Active Directory. By federating user identities between Google Cloud and your existing identity management system, you can automate the maintenance of Google identities and tie their lifecycle to existing users in Active Directory.

<https://cloud.google.com/architecture/identity/federating-gcp-with-active-directory-introduction>
Reference Link- <https://cloud.google.com/architecture/identity/single-sign-on>

NEW QUESTION 38

- (Exam Topic 1)

An organization wants to move from a strategic cloud adoption maturity level to a trans-formational one. How should the organization change the way they scale?

- A. None of these
- B. Deploy changes when problems arise.
- C. Deploy changes programmatically.
- D. Review changes manually.

Answer: C

Explanation:

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

NEW QUESTION 42

- (Exam Topic 1)

Which of the following statements is/are correct about Bare Metal Solutions?

- A. The network, which Google Cloud manages includes a low-latency Cloud Inter-connect connection into the customer Bare Metal Solution environment.
- B. Bare Metal Solution also includes the provisioning and maintenance of the cus-tom, sole-tenancy hardware with local SAN, and smart hands support.
- C. Bare Metal Solution uses a bring-your-own-license (BYOL) model.
- D. All of the Above.

Answer: D

Explanation:

Option A is true

You are responsible for the licensing of all of your software. Bare Metal Solution uses a bring-your-own-license (BYOL) model.

Apart from this you are responsible for the software, applications, and data that you use and store in the Bare Metal Solution environment.

Responsibilities Data, including:

- Security and encryption
- Backups

Software and applications, including:

- Installation
- Configuration
- Upgrades and patching

Operating system and any hypervisor, including:

- Configuration changes
- Upgrades and patching Server clusters, including:
- Installation
- Configuration

- Maintenance Licensing

Option B & C is also true.

With Bare Metal Solution, Google Cloud provides and manages the core infrastructure, the net-work, the physical and network security, and hardware monitoring capabilities in an environment from which you can access all of the Google Cloud services. The core infrastructure includes secure, controlled-environment facilities, and power.

The Bare Metal Solution also includes the provisioning and maintenance of the custom, sole-tenancy hardware with local SAN, and smart hands support.

The network, which is managed by Google Cloud includes a low-latency Cloud Interconnect con-nection into the customer Bare Metal Solution environment.

The available Google Cloud services include private API access, management tools, support, and billing.

NEW QUESTION 45

- (Exam Topic 1)

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

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

Answer: D

Explanation:

Security Command Center is a centralized security and risk management platform for your Google Cloud resources. It is a single tool that offers a variety of security features including:

- * 1. Gain centralized visibility and control
- * 2. Discover misconfigurations and vulnerabilities
- * 3. Report on and maintain compliance
- * 4. Detect threats targeting your Google Cloud assets <https://cloud.google.com/security-command-center>

NEW QUESTION 46

- (Exam Topic 1)

Your company security team manages access control to production systems using an LDAP directory group. How is this access control managed in the Google Cloud production project?

- A. Assign the proper role to the Service Account in the project's IAM Policy
- B. Grant each user the roles/iam.serviceAccountUser role on a service account that exists in the Google Group.
- C. Assign the proper role to the Google Group in the project's IAM Policy.
- D. Create the project in a folder with the same name as the LDAP directory group.

Answer: C

Explanation:

Reference:

<https://cloud.google.com/blog/products/identity-security/achieving-identity-and-access-governance-on-google-c>
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NEW QUESTION 51

- (Exam Topic 1)

Your organization is developing and deploying an application on Google Cloud. Tracking your Google Cloud spending needs to stay as simple as possible. What should you do to ensure that workloads in the development environment are fully isolated from production workloads?

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

Answer: D

Explanation:

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

Project resources are components that are necessary for successful project implementation. They include people, equipment, money, time, knowledge planning to the project delivery phases.

NEW QUESTION 55

- (Exam Topic 1)

Your organization needs to process large amounts of data from an online application that operates continuously. You do not want to be required to provision infrastructure or create server clusters. What should your organization choose?

- A. Compute Engine with BigQuery
- B. Dataproc
- C. Google Kubernetes Engine with Cloud Bigtable
- D. Dataflow

Answer: D

Explanation:

You do not want to be required to provision infrastructure or create server clusters. Because Unified stream and batch data processing that's serverless, fast, and cost-effective.

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

NEW QUESTION 57

- (Exam Topic 1)

An organization's applications run on an inflexible, on-premises architecture. The organization has decided to modernize their existing applications with the cloud. What may have prompted this business decision?

- A. Developers want cloud providers to take full control of their application performance.
- B. IT managers want cloud providers to automatically deploy their infrastructure.
- C. IT managers want to stop making gradual changes.
- D. Developers want to test ideas and experiment with more ease.

Answer: D

Explanation:

Modernizing applications means they can make alterations and innovate more easily.

NEW QUESTION 62

- (Exam Topic 1)

Your customer has reliable information to indicate that they will use a certain amount of computing and analytics. The workloads are critical and they don't want to take a chance with VMs or BigQuery slots being unavailable during a peak period. How can they ensure that they allocate the capacity?

- A. Send in the filled form to Google Cloud support to reserve the Compute Engine and BigQuery resources required.
- B. Create reservations on Compute Engine and BigQuery.
- C. On the day the capacity is required, set a scheduled job that will provision as many resources as required and lock it in.
- D. Google Cloud is elastic for resource
- E. You cannot reserve resources in advance; it is pay per use.

Answer: B

Explanation:

Create reservations on Compute Engine and BigQuery. You can reserve capacity in advance and use it over a period of time. You could also get a cost advantage.

=> There is no need for involved support. It is self-serve via the console.

=> You can reserve resources in advance when you have the need for it. And when you want to take a pay-per-use approach, that is also possible.

=> It is not a good idea to be lock in/hoard resources; you'll pay unnecessarily for resources. Also, it is difficult to time exactly when the demand will be.

References:

<https://cloud.google.com/compute/docs/instances/reserving-zonal-resources> <https://cloud.google.com/bigquery/docs/reservations-intro>

NEW QUESTION 67

- (Exam Topic 1)

Your application is onboarding a number of users. The details of the users vary widely. What kind of database would be most suitable for this use case?

- A. NoSQL database like Firestore
- B. OLAP database like BigQuery which support SQL
- C. SQL database like MySQL or PostgreSQL
- D. OLTP database like Cloud Spanner

Answer: A

Explanation:

* 1. NoSQL databases are best suited for this use case. Firestore is an appropriate one to use here

* 2. Cloud Firestore is a NoSQL document database that lets you easily store, sync, and query data for your mobile and web apps - at global scale.

NEW QUESTION 71

- (Exam Topic 1)

Your organization wants to optimize its use of Google Cloud's discounts on virtual machine-based workloads. You plan to use 200 CPUs constantly for the next 3 years, and you forecast that spikes of up to 300 CPUs will occur approximately 30% of the time. What should you choose?

- A. 1-year committed use discount for 200 CPUs
- B. 3-year committed use discount for 300 CPUs
- C. 3-year committed use discount for 200 CPUs
- D. Regular pay-as-you-go pricing

Answer: C

Explanation:

you can get a 57% discount by agreeing to commit to a 3-year contract. Any usage over the commitment will just be billed at the standard rate. Since they only need 300 CPUs 30% of the time, will pick answer C so that we are not paying usage off 300 CPUs all of the time. This gives us a discount of 57% for 200 CPU's, huge cost savings.

NEW QUESTION 74

- (Exam Topic 1)

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

What should your organization do?

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

Answer: C

Explanation:

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

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

NEW QUESTION 77

- (Exam Topic 1)

Your organization runs a distributed application in the Compute Engine virtual machines. Your organization needs redundancy, but it also needs extremely fast

communication (less than 10 milliseconds) between the parts of the application in different virtual machines. Where should your organization locate this virtual machines?

- A. In a single zone within a single region
- B. In different zones within a single region
- C. In multiple regions, using one zone per region
- D. In multiple regions, using multiple zones per region

Answer: B

Explanation:

Multi zone is also redundant within the region and it provides the lowest latency.

Reference link:

<https://cloud.google.com/solutions/best-practices-compute-engine-region-selection>

NEW QUESTION 81

- (Exam Topic 1)

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

What should you do?

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

Answer: A

Explanation:

What is a preemptible instance?

Preemptible VM instances are available at much lower price—a 60-91% discount—compared to the price of standard VMs. However, Compute Engine might stop (preempt) these instances if it needs to reclaim the compute capacity for allocation to other VMs. Preemptible instances use excess Compute Engine capacity, so their availability varies with usage.

If your apps are fault-tolerant and can withstand possible instance preemptions, then preemptible instances can reduce your Compute Engine costs significantly. For example, batch processing jobs can run on preemptible instances. If some of those instances stop during processing, the job slows but does not completely stop. Preemptible instances complete your batch processing tasks without placing additional workload on your existing instances and without requiring you to pay full price for additional normal instances.

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

NEW QUESTION 83

- (Exam Topic 1)

Your team is working on building a machine learning model. There are a bunch of terminologies that are being used. What is an "instance" or an "example"?

- A. An input variable is used in making prediction
- B. E.
- C. number of rooms in a house price prediction model.
- D. One row of a dataset containing one or more input columns and possibly a prediction result.
- E. An answer for a prediction task, either the answer produced by a machine learning system or the right answer supplied in training data
- F. E.
- G. image contains a "cat".
- H. The "knobs" that you tweak during successive runs of training a model
- I. E.
- J. learning rate

Answer: B

Explanation:

One row of a dataset containing one or more input columns and possibly a prediction result. A picture containing timeline Description automatically generated

- **Instance:** The thing about which you want to make a prediction. For example, the instance might be a web page that you want to classify as either "about cats" or "not about cats".
- **Label:** An answer for a prediction task either the answer produced by a machine learning system, or the right answer supplied in training data. For example, the label for a web page might be "about cats".
- **Feature:** A property of an instance used in a prediction task. For example, a web page might have a feature "contains the word 'cat'".
- **Feature Column:** A set of related features, such as the set of all possible countries in which users might live. An example may have one or more features present in a feature column. "Feature column" is Google-specific terminology. A feature column is referred to as a "namespace" in the VW system (at Yahoo/Microsoft), or a **field**.
- **Example:** An instance (with its features) and a label.
- **Model:** A statistical representation of a prediction task. You train a model on examples then use the model to make predictions.

<https://developers.google.com/machine-learning/guides/rules-of-ml#terminology>

NEW QUESTION 84

- (Exam Topic 1)

An organization has completely migrated all their infrastructure to the cloud to benefit from its agility. Now they want to innovate faster and achieve a higher return on investment. What should the organization do?

- A. Manually provision all cloud infrastructure for increased control.
- B. Modernize their applications.
- C. Lower their service level objective (SLO).
- D. Move to a hybrid architecture with some of their infrastructure on-premises.

Answer: B

Explanation:

Because this will enable the business to better serve their users.

NEW QUESTION 87

- (Exam Topic 1)

Your organization meant to purchase a 3-year Committed Use Discount, but accidentally purchased a 1-year Committed Use Discount instead. What should your organization do?

- A. Contact your financial institution.
- B. Contact Trust and Safety.C Contact Cloud Billing Support.
- C. Contact Technical Support.

Answer: C

Explanation:

Graphical user interface, text, application Description automatically generated

★ **Important:** Once you enable discount sharing through the console, you can only disable it with the assistance of **Cloud Billing support**. If you disable discount sharing with the assistance of Cloud Billing support, all committed use discounts revert to the default setting of applying only to the projects through which they were purchased. The reverted setting becomes effective at the beginning of the following month.

Combining reservations with commitments

A committed use discount provides a 1- or 3-year discounted price agreement, but it does not reserve capacity in a specific zone. A reservation ensures that capacity is held in a specific zone even if the reserved VMs are not running. By combining a reservation with a commitment, you get discounted, reserved resources.

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

NEW QUESTION 88

- (Exam Topic 1)

A Multiple projects within your organization have long-term VM usage. Based on current demand, they are able to project into the future and estimate how many VM hours they will use every year. Going in for a committed use contract seems sensible. How can you configure committed use easily across all the projects?

- A. Enable committed use with discount sharing for the projects
- B. Review the usage of resources by each project on a daily basis
- C. Enable committed use for the following day based on that number, so that it gives maximum granularity without wastage.
- D. Take a report of each project's use in the last year
- E. Enable committed use on a per-project basis based on the previous year's numbers.
- F. Share a Google Sheet and request each project team to send in their estimates
- G. Enable committed use accordingly on a per-project basis.

Answer: A

Explanation:

Enable committed use discounts are applied to the project from which you purchased it. To share the discount across multiple projects linked to your Cloud Billing account, enable committed use discount sharing from the console. When you enable committed use discount sharing, all of your current active committed use discounts in all the projects under the same Cloud Billing account, including those you previously purchased and new ones you purchase in the future are shared across your Cloud Billing account. Your sustained use discounts are also pooled and shared across all projects within your Cloud Billing account.

NEW QUESTION 89

- (Exam Topic 1)

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

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

Answer: C

Explanation:

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

References:

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

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

NEW QUESTION 93

- (Exam Topic 1)

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
- E. Write only the code to integrate in-to your workflow.

Answer: B

Explanation:

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>

NEW QUESTION 97

- (Exam Topic 1)

An organization wants to search for and share plug-and-play AI components which can easily build ML services into their project. Which Google Cloud product should the organization use?

- A. Document AI
- B. AI Hub
- C. Cloud Talent Solution
- D. Recommendations AI

Answer: B

Explanation:

Because AI Hub is a hosted repository of plug-and-play AI components. Reference link:- <https://cloud.google.com/ai-hub/docs/release-notes>

NEW QUESTION 102

- (Exam Topic 1)

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

Which Google Cloud product should your organization choose?

- A. Cloud SQL
- B. Cloud Storage

- C. Firestore
- D. Cloud Spanner

Answer: D

Explanation:

Features of Cloud Spanner

Reference: <https://k21academy.com/google-cloud/cloud-sql-vs-cloud-spanner/> Text Description automatically generated

NEW QUESTION 107

- (Exam Topic 1)

Which Google Cloud product or feature makes specific recommendations based on security risks and compliance violations?

- A. Google Cloud firewalls
- B. Security Command Center
- C. Cloud Deployment Manager
- D. Google Cloud Armor

Answer: B

Explanation:

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

Security Command Center is Security and risk management platform for Google Cloud.

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

NEW QUESTION 109

- (Exam Topic 1)

Your organization is on a critical path with recently developed applications. They are going into production in a month. A few million users are expected to use the new application. They want to ensure minimum disruption when the application goes live. Any issues have to be dealt with within minutes and resolved as quickly as possible. Which Support package should they take?

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

Answer: D

Explanation:

Premium Support will have a 15-minute response time with 24/7 response for high & critical-impact issues. Graphical user interface, text, application, email
Description automatically generated

Premium Support overview

[Send feedback](#)

This page explains the features of Premium Support.

Premium Support is a paid support offering designed for enterprises that run mission critical workloads and require fast response times, platform stability, and increased operational efficiencies.

This overview covers the following aspects of Premium Support:

- How you work with a [Technical Account Manager](#) to optimize your Google Cloud operations and Premium Support experience.
- [Features](#) of the offering, including [support case features](#) and [Customer Aware Support](#).
- [Value Add Services](#) that you can purchase to customize your offering.

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

NEW QUESTION 113

- (Exam Topic 1)

Your organization is moving an application to Google Cloud. As part of that effort, it needs to migrate the application's working database from another cloud provider to Cloud SQL. The database runs on the MySQL engine. The migration must cause minimal disruption to users. Data must be secured while in transit. Which should your organization use?

- A. BigQuery Data Transfer Service
- B. MySQL batch insert
- C. Database Migration Service
- D. Cloud Composer

Answer: C

Explanation:

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

NEW QUESTION 116

- (Exam Topic 1)

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

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

Answer: C

Explanation:

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

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

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

NEW QUESTION 117

- (Exam Topic 1)

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

Which Google Cloud product or feature should your organization choose?

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

Answer: A

Explanation:

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

NEW QUESTION 118

- (Exam Topic 1)

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

What should you do?

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

Answer: D

Explanation:

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

NEW QUESTION 120

- (Exam Topic 1)

What would provide near-unlimited availability of computing resources without requiring your organization to procure and provision new equipment?

- A. Public cloud
- B. Containers
- C. Private cloud
- D. Microservices

Answer: A

Explanation:

Reference: <https://cloud.google.com/docs/overview>

NEW QUESTION 125

- (Exam Topic 1)

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

- A. Customers expect faster time to market for games.
- B. Employees expect source code changes to be deployed faster.

- C. Customers expect a personalized experience.
- D. Employees expect more predictable data management spending.

Answer: C

Explanation:

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

NEW QUESTION 130

- (Exam Topic 1)

Your company needs to segment Google Cloud resources used by each team from the others. The teams' efforts are changing frequently, and you need to reduce operational risk and maintain cost visibility. Which approach does Google recommend?

- A. One project per team.
- B. One organization per team.
- C. One project that contains all of each team's resources.
- D. One top-level folder per team.

Answer: A

Explanation:

Reference: <https://cloud.google.com/security/infrastructure/design>

The Teams need to segmented to have visibility on the resources each team consumes

NEW QUESTION 133

- (Exam Topic 1)

Your organization needs to plan its cloud infrastructure expenditures. Which should your organization do?

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

Answer: A

Explanation:

Review cloud resource costs frequently, because costs change often based on use because One need to know current usage/ trend for planning; While public cloud eliminates capex, and gets into pay as you go model, the usage pattern determines the cloud cost and hence needs to be measured frequently to enable better forecast

NEW QUESTION 136

- (Exam Topic 1)

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

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

Answer: A

Explanation:

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

<https://cloud.google.com/bigquery-ml/docs/introduction#:~:text=BigQuery%20ML%20lets%20you%20create,th>

Graphical user interface, text, application, email Description automatically generated <https://cloud.google.com/bigquery-ml/docs/introduction>

NEW QUESTION 137

- (Exam Topic 1)

Your organization needs to restrict access to a Cloud Storage bucket. Only employees who are based in Canada should be allowed to view the contents. What is the most effective and efficient way to satisfy this requirement?

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

Answer: D

Explanation:

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

Because you can use your own private VPN to access the Canada-only bucket from anywhere in the world.

NEW QUESTION 141

- (Exam Topic 1)

You are a program manager for a team of developers who are building an event-driven application to allow users to follow one another's activities in the app. Each time a user adds himself as a follower of another user, a write occurs in the real-time database.

The developers will develop a lightweight piece of code that can respond to database writes and generate a notification to let the appropriate users know that they

have gained new followers. The code should integrate with other cloud services such as Pub/Sub, Firebase, and Cloud APIs to streamline the orchestration process. The application requires a platform that automatically manages underlying infrastructure and scales to zero when there is no activity. Which primary compute resource should your developers select, given these requirements?

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

Answer: B

Explanation:

Reference: <https://firebase.google.com/docs/functions/use-cases>
Graphical user interface, text, application, email Description automatically generated

NEW QUESTION 142

- (Exam Topic 1)

Your organization is migrating to Google Cloud. As part of that effort, it needs to move terabytes of data from on-premises file servers to Cloud Storage. Your organization wants the migration process to be automated and to be managed by Google. Your organization has an existing Dedicated Interconnect connection that it wants to use. Which Google Cloud product or feature should your organization use?

- A. Storage Transfer Service
- B. Migrate for Anthos
- C. BigQuery Data Transfer Service
- D. Transfer Appliance

Answer: A

Explanation:

Reference: <https://cloud.google.com/architecture/migration-to-google-cloud-transferring-your-large-datasets> Text, application Description automatically generated
Graphical user interface, text, application, email Description automatically generated <https://cloud.google.com/architecture/migration-to-google-cloud-transferring-your-large-datasets>

NEW QUESTION 145

- (Exam Topic 1)

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

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

Answer: C

Explanation:

Deploy your application to App Engine using the `gcloud app deploy` command. This command automatically builds a container image by using the Cloud Build service and then deploys that image to the App Engine flexible environment.
Reference: <https://cloud.google.com/appengine/docs/flexible/nodejs/testing-and-deploying-your-app>

NEW QUESTION 150

- (Exam Topic 1)

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

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

Answer: B

Explanation:

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

NEW QUESTION 152

- (Exam Topic 1)

A partner of yours used to have their own private data center. Your company was already on Google Cloud and now they have also moved to Google Cloud. You are investigating whether there are ways to collaborate better or shared services. What would be one good option to consider?

- A. Use Private Service Access within Google Cloud.
- B. Use VPC Peering to share resources privately between your two organizations.
- C. Use public IP addresses as befor
- D. It will automatically be routed internally only.
- E. Use VPC Shared Networks to share common resources.

Answer: B

Explanation:

VPC Network Peering allows internal IP address connectivity across two Virtual Private Cloud (VPC) networks regardless of whether they belong to the same project or the same organization.

-> Shared VPC is only within an organization - it allows an organization to connect resources from multiple projects to a common Virtual Private Cloud (VPC) network, so that they can communicate with each other securely and efficiently using internal IPs from that network.

-> Private Google Access is only to access Google APIs and services References:

-> <https://cloud.google.com/vpc/docs/vpc-peering>

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

-> <https://cloud.google.com/vpc/docs/shared-vpc>

NEW QUESTION 154

- (Exam Topic 1)

You want to build an application that will allow customers to register and login. It would be great to have the ability to secure it with multi-factor authentication and the ability to reset credentials. As a small startup, you want to build the main application as quickly as possible and have minimum overhead. Which might be a suitable option for you on Google Cloud?

A. Since identity and credentials should be secure and private, do not trust other service providers.

B. Cloud Identity

C. Google Workspace

D. Cloud Identity Platform

Answer: D

Explanation:

Cloud Identity Platform

Cloud Identity Platform allows you to manage identity and credentials for your consumer-facing applications. So that's the right one in this case to use. "Identity Platform is a customer identity and access management (CIAM) platform that helps organizations add identity and access management functionality to their applications, protect user accounts, and scale with confidence on Google Cloud."

Reference link- <https://cloud.google.com/identity-platform>

NEW QUESTION 156

- (Exam Topic 3)

An organization delivers a proactive healthcare service. They want to efficiently and automatically collect patient data.

What should the organization encourage the patients to do?

A. Use at-home health screening devices and then upload their health data daily

B. Wear Internet of Things (IoT) devices that upload their health data in real time

C. Self-assess their health data and then document and upload it in real time

D. Visit a nurse who will use Internet of Things (IoT) devices to collect and upload their health data

Answer: B

NEW QUESTION 157

- (Exam Topic 3)

An organization wants to use Apigee to manage all their application programming interfaces (APIs). What will Apigee enable the organization to do?

A. Increase application privacy

B. Measure and track API performance Most Voted

C. Analyze application development speed

D. Market and sell APIs

Answer: B

Explanation:

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

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

NEW QUESTION 159

- (Exam Topic 3)

An online retail organization wants to optimize their service.

What is an example of unstructured data that they can use to make decisions?

A. Customer survey comments

B. Seller location coordinates

C. Product sales trends

D. Warehouse inventory records

Answer: A

Explanation:

<https://cloud.google.com/storage/docs/requester-pays>

NEW QUESTION 164

- (Exam Topic 3)

An organization relies on online seasonal sales for the majority of their annual revenue. Why should the organization use App Engine for their customer app?

- A. Automatically adjusts physical inventory in real time
- B. Autoscales during peaks in demand
- C. Runs maintenance during seasonal sales
- D. Recommends the right products to customers

Answer: B

NEW QUESTION 167

- (Exam Topic 3)

How does a large hotel chain benefit from storing their customer reservation data in the cloud?

- A. On-premises hardware access to transaction data
- B. Real-time data transformation at scale within an on-premises database
- C. Real-time business transaction accuracy at scale
- D. Physical hardware access during peak demand

Answer: C

NEW QUESTION 168

- (Exam Topic 3)

How is privacy defined in the context of cloud technology?

- A. Restrictions on data access and sharing
- B. Procedures to authenticate user identity
- C. Susceptibility to data breaches and cyber attacks
- D. Compliance with regulatory standards

Answer: A

NEW QUESTION 170

- (Exam Topic 2)

You are a program manager in a company and handling a project and you need to create a virtual machine on google cloud console that will be very simple to set up, by flipping a bit via command, API, or with developer console that gives you 30 seconds to shut down when you're preempted, allow you to save your work that also helps in the company budget upto 70-80% of less charges than the regular VMs.

- A. Bare Metal Solutions
- B. Preemptible Virtual Machines.
- C. Google Cloud VM Instances
- D. None of the above.

Answer: B

Explanation:

Preemptible VMs have all these features

Simple configuration

Create a preemptible instance simply by flipping a bit via command, API, or developer console.

Easy extensibility

Attach GPUs and local SSDs to preemptible instances for additional performance and savings.

Graceful shutdown

Compute Engine gives you 30 seconds to shut down when you're preempted, letting you save your work in progress for later.

Large scale computing

Spin up as many instances as you need and turn them off when you're done. You only pay for what you use.

Quickly reclaim capacity

Managed instance groups automatically recreate your instances when they're preempted (if capacity is available).

Fixed pricing

Preemptible VMs have fixed pricing up to 80% off regular instances. They show up on your bill separately so you'll see just how much you're saving.

NEW QUESTION 174

- (Exam Topic 2)

Your customer is moving from AWS to Google Cloud. Data also needs to be moved. There is about 50TB of data. On AWS, the data resides in an S3 bucket. It is going to be moved to Cloud Storage. Data is also being continuously generated on S3 prior to the cutover. It is preferable that this is also periodically transferred. What is the best way to move the data?

- A. Use the gsutil command-line option
- B. Use the Google Cloud console to drag and drop the files easily
- C. Use the Storage Transfer Service
- D. Use a Transfer Appliance

Answer: C

Explanation:

Storage Transfer Service provides options that make data transfers and synchronization easier. We can also schedule one-time transfer operations or recurring transfer operations.

Text Description automatically generated

Storage Transfer Service is a product that enables you to:

- Move or backup data to a Cloud Storage bucket either from other cloud storage providers or from a local or cloud POSIX file system.
- Move data from one Cloud Storage bucket to another, so that it is available to different groups of users or applications.
- Move data from Cloud Storage to a local or cloud file system
- Move data between file systems.
- Periodically move data as part of a data processing pipeline or analytical workflow.

Storage Transfer Service provides options that make data transfers and synchronization easier. For example, you can:

- Schedule one-time transfer operations or recurring transfer operations.
- Delete existing objects in the destination bucket if they don't have a corresponding object in the source.
- Delete data source objects after transferring them.
- Schedule periodic synchronization from a data source to a data sink with advanced filters based on file creation dates, filenames, and the times of day you prefer to import data.

Reference link- <https://cloud.google.com/storage-transfer/docs/overview>

Reference link <https://cloud.google.com/architecture/transferring-data-from-amazon-s3-to-cloud-storage-using-vpc-service-c>

NEW QUESTION 178

- (Exam Topic 2)

You are discussing scaling requirements with a gaming company. When the game launches, they are expecting incoming data surges of 2 million users or more during weekends and holidays. Their on-premise systems have had issues scaling and they want your advice on solving the issue. What do you recommend?

- A. Either Compute Engine VMs or Kubernetes nodes work, but it is better to keep a buffer of an extra 2 million users.
- B. We can deploy a Pub/Sub to ingest data which will grow to absorb demand and pass it on to other stages.
- C. We will allocate Compute Engine VMs estimating 80% capacity of 2 million users.
- D. We will allocate Kubernetes nodes estimating 80% capacity of 2 million users.

Answer: B

Explanation:

When there are huge surges in demand, it is preferable to use serverless technologies that automatically scale on demand. In this case, the key concern is data ingestion. Pub/Sub is a serverless system that can expand to absorb such demand.

NEW QUESTION 179

- (Exam Topic 2)

You are a cloud architect in a software solution provider company, one of the client that is a National Bank who wants to build an application that deals with transactions processing, and it needs a relational database with petabyte of scale data. Which of the following Google Cloud Services will you use?

- A. Cloud SQL
- B. Cloud Bigtable
- C. Cloud Spanner
- D. Google Cloud BigQuery

Answer: C

Explanation:

- Cloud Spanner is the online transaction processing solution that is relational and offers petabyte scalability. Cloud SQL is not designed for petabyte-scale data.

NEW QUESTION 180

- (Exam Topic 2)

You are consulting for a client who is migrating to Google Cloud. They presently have a matrix organization. Their IT environments were managed around projects. Each team had multiple projects. All the projects had a flat structure under the company. What would you advise them when planning for the move?

- A. On Google Cloud, create a folder corresponding to each team
- B. Under that, there could be projects or further sub folders as the team decides.
- C. In terms of not disturbing the project developers and testers, advise them that the strategic decision is to retain the structure on Google Cloud also.
- D. Since a Project could spawn other sub-Projects, on Google Cloud it is better to assign a folder for each Project.
- E. The flat structure is what is currently used in IT organizations, and this can be used as-is which will provide the best results.

Answer: A

Explanation:

Folders for a related group of projects are the recommended approach.

-> A flat structure under the organization node is possible on Google Cloud, but it is not recommended. It becomes tougher to manage.

-> Projects cannot have sub-projects; there can only be resources within Projects.

Reference link- <https://cloud.google.com/resource-manager/docs/cloud-platform-resource-hierarchy>

NEW QUESTION 185

- (Exam Topic 2)

An organization wants to measure everything as part of its new DevOps philosophy. What should the organization measure?

- A. The reliability and health of their systems.
- B. The satisfaction and happiness of their employees.
- C. The risk and reward of their investments.
- D. The speed of their cloud adoption process.

Answer: A

Explanation:

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

DevOps measurements for reliability and system health

DevOps teams can track system reliability, quality, and overall health using a few key metrics. In DevOps organizations, site reliability engineers, operations engineers, software developers, project managers, and engineering leadership will all find value in these measurements.

<https://newrelic.com/devops/measuring-devops#toc-devops-measurments-for-team-health>

NEW QUESTION 190

- (Exam Topic 2)

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

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

Answer: C

Explanation:

A top-level idea about Apigee API Management and its offered features can help you solve all questions related to Apigee in Cloud Digital Leader Practice Exam. Apigee is a platform for developing and managing APIs. By fronting services with a proxy layer, Apigee provides an abstraction or facade for your backend service APIs and provides security, rate limiting, quotas, analytics, and more.

Apigee services: The APIs that you use to create, manage, and deploy your API proxies.

Apigee runtime: A set of containerized runtime services in a Kubernetes cluster that Google maintains. All API traffic passes through and is processed by these services.

NEW QUESTION 194

- (Exam Topic 2)

Customer Managed Encryption Keys (CMEK) can be used for encrypting data inside Cloud BigTable, which of the following statements is/are correct. (Select two answer)

- A. Administrators can not rotate
- B. Not supported for instances that have clustered in more than one region.
- C. CMEK can only be configured at the cluster level.
- D. You can not use the same CMEK key in multiple projects

Answer: BC

Explanation:

Customer-managed encryption keys for Cloud BigTable.

By default, all the data at rest in Cloud Bigtable is encrypted using Google's default encryption. Bigtable handles and manages this encryption for you without any additional action on your part.

If you have specific compliance or regulatory requirements related to the keys that protect your data, you can use customer-managed encryption keys (CMEK) for BigTable. Instead of Google managing the encryption keys that protect your data, your BigTable instance is protected using a key that you control and manage in Cloud Key Management Service (Cloud KMS).

Features

Security: CMEK provides the same level of security as Google's default encryption but provides more administrative control.

Data access control: Administrators can rotate, manage access to, and disable or destroy the key used to protect data at rest in BigTable .

Auditability: All actions on your CMEK keys are logged and viewable in Cloud Logging.

Comparable performance: BigTable CMEK-protected instances offer comparable performance to BigTable instances that use Google default encryption.

Flexibility: You can use the same CMEK key in multiple projects or instances or you can use separate keys, depending on your business needs.

NEW QUESTION 199

- (Exam Topic 2)

You have deployed a new public web application that allows users to register and login with email ids, phone numbers, or user ids. You are seeing some unusual activity with user registrations and logins from a few IPs. A large number of accounts were created very quickly. Logins are also hap-pening quickly thereafter from these new accounts. Different parts of the application are being ex-plored, all of which are putting a heavy load on the application. What could be a problem and how can you solve it?

- A. A hacker group has hired a bunch of people to create accounts and manually use the system.
- B. Use Cloud Asset Inventory to see if there have been changes in the inventory.
- C. Bots are creating accounts and then using the system.
- D. Use Google Cloud's Web App and API Protection (WAAP).
- E. Bots are creating accounts and then using the system.
- F. Use Identity-Aware Proxy to restrict the users to known users.
- G. Automated testing tools might still be running and creating accounts.
- H. Use Identity-Aware Proxy to restrict the users to known users.

Answer: B

Explanation:

Bots attacking the application is the most likely scenario in this case. Using WAAP is the right protection plan: Anti-DDoS, anti-bot, WAF, and API protection help you protect against new and existing threats while helping you keep your apps and APIs compliant and continuously available.
<https://cloud.google.com/solutions/web-app-and-api-protection>

NEW QUESTION 204

- (Exam Topic 2)

What load balancer type is supported with Cloud Armor security policies?

- A. SSL Proxy, HTTP(S) and SSL
- B. HTTP(S) and SSL
- C. Regional SSL
- D. HTTP(S) Only

Answer: D

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.

Reference link- <https://cloud.google.com/armor/docs/security-policy-overview>

NEW QUESTION 208

- (Exam Topic 2)

A customer has an application running in virtual machines. They are migrating this application to Google Cloud. They have previously had scaling issues when on-premises as VMs had to be pre-allocated. Capacity planning was repeatedly off mark - it's either too many VMs or too less. They want to match the capacity to demand while keeping the application running always. They don't have the time or budget to re-architect the systems using containers and Kubernetes at the moment. What would be your recommendation?

- A. Run a load test on Compute Engine VM
- B. Get an estimate of usage
- C. Then plan for a VM capacity of 25% above the load test value.
- D. Use the Managed Instance Group with Compute Engine
- E. Inform them that new-age companies are using microservices, containers, and Kubernetes for this and they can plan to rewrite the app quickly.
- F. Inform them that using a serverless option will take care of the scaling and they can move to Cloud Run or App Engine.

Answer: B

Explanation:

Scalability. When your apps require additional compute resources, autoscaled MIGs can automatically grow the number of instances in the group to meet demand. If demand drops, autoscaled MIGs can automatically shrink to reduce your costs

Instance groups

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An instance group is a collection of virtual machine (VM) instances that you can manage as a single entity.

Compute Engine offers two kinds of VM instance groups, managed and unmanaged:

- **Managed instance groups (MIGs)** let you operate apps on multiple identical VMs. You can make your workloads scalable and highly available by taking advantage of automated MIG services, including: autoscaling, autohealing, regional (multiple zone) deployment, and automatic updating.
- **Unmanaged instance groups** let you load balance across a fleet of VMs that you manage yourself.

<https://cloud.google.com/compute/docs/instance-groups>

NEW QUESTION 213

- (Exam Topic 2)

"With cloud messaging you can customize and deliver messages accordingly to the predetermined time in the user's local time zone." Comment on the above statement.

- A. This statement is undefined.
- B. The above statement is partially true.
- C. The above statement is completely false.

D. The above statement is completely true.

Answer: D

Explanation:

Firestore Cloud Messaging:

Firestore Cloud Messaging (FCM) is a cross-platform messaging solution that lets you reliably send messages at no cost.

Using FCM, you can notify a client app that new email or other data is available to sync. You can send notification messages to drive user re-engagement and retention. For use cases such as instant messaging, a message can transfer a payload of up to 4000 bytes to a client app.

Key capabilities of Firestore Cloud Messaging:

Send notification messages or data messages: Send notification messages that are displayed to your user. Or send data messages and determine completely what happens in your application code.

Versatile message targeting: Distribute messages to your client app in any of 3 ways—to single devices, to groups of devices, or to devices subscribed to topics.

Send messages from client apps: Send acknowledgments, chats, and other messages from devices back to your server over FCM's reliable and battery-efficient connection channel.

NEW QUESTION 215

- (Exam Topic 2)

A customer of yours has an SLA with their client that a particular service will respond within 4 seconds. The end client has reported that it feels slower. Your engineers do a trial at the client site and notice that there seems to be a delay for many of the requests. It's your team's responsibility to identify the issue quickly within the strict timeline for fixes according to the contract, and then fix it. What should you do?

- A. Recommend a move to serverless technologies which will scale automatically on demand.
- B. Add logging statements at multiple points in the application, build it, and deploy it.
- C. Now new requests will give us information on latency in the logs.
- D. Check if the browsers used by the client are different from your
- E. If they are, that's most likely the issue. Ensure that everybody uses the latest version of the browser that you are also using.
- F. Use Cloud Trace to collect latency data and track how requests propagate and why there is a delay.

Answer: D

Explanation:

Cloud Trace is a built-in tool in the Operations suite to identify issues like latency.

-> Such fixes are unlikely to change core issues like the service itself being architected or written

sub-optimally. Though changes like browser, networking, etc. are helpful, it would be the wrong approach to first recommend that the customer upgrade all their hardware and software.

-> Rewriting code and logging information is going to be time consuming. In general though, logging should always be included in code and it can give good insights. But tracing is way more specific and comprehensive for this requirement.

-> In certain cases, we might identify scaling as the issue. But we should first identify the core problem. So, start with tracing. We can also achieve scale in serverful technologies.

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

NEW QUESTION 219

- (Exam Topic 2)

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

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

Answer: C

Explanation:

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

NEW QUESTION 222

- (Exam Topic 2)

An application has become very popular and the number of requests/users is increasing quickly. There is a meeting to figure out how to scale the systems so that they can accept user requests and still have the capacity to spare. What is the preferred option?

- A. Circular Scaling takes a round-robin approach to allocate and destroy VMs.
- B. Triangular Scaling takes an automated average of Cost, Effort, and Time.
- C. Vertical Scaling
- D. Horizontal Scaling

Answer: D

Explanation:

Horizontal scaling, also called scaling out, adds new VMs to increase application capacity.

NEW QUESTION 224

- (Exam Topic 2)

The government has mandated that companies in a particular section of healthcare must retain all the data they collect for a period of 10 years in case an audit needs to be done. Your client, who is in that industry, needs to follow regulations. In addition, your client wants to do an analysis of the data quite frequently in the first year. They also don't want to be liable for any data beyond year 10. What would you recommend for your customer?

- A. Use Cloud Storage with nearline storage in year one and Coldline storage thereafter
- B. Use Object lifecycle management to move between storage types and delete them after 10 years.
- C. Use Cloud Storage with standard storage in year one and Coldline storage thereafter
- D. Set a Cloud Scheduler trigger for 1 year to change storage types and 10 years to delete the data.
- E. Use Cloud Storage with standard storage in year one and archival storage thereafter
- F. Use Object lifecycle management to move between storage types and delete them after 10 years.
- G. Use Cloud Storage with standard storage in year one and Coldline storage thereafter
- H. Set a Cloud Tasks to trigger for 1 year to change storage types and 10 years to delete the data.

Answer: C

Explanation:

Cloud storage supports Object Lifecycle Management. To support common use cases like setting a Time to Live (TTL) for objects, retaining noncurrent versions of objects, or "downgrading" storage classes of objects to help manage costs, Cloud Storage offers the Object Lifecycle Management feature. Standard storage is recommended for frequently accessed data and Archive for data accessed less than once a year. Nearline, Coldline, and Archive offer ultra-low-cost, highly-durable, highly available archival storage. For data accessed less than once a year, Archive is a cost-effective storage option for the long-term preservation of data. Coldline is also ideal for cold storage—data your business expects to touch less than once a quarter. For warmer storage, choose Nearline: data you expect to access less than once a month, but possibly multiple times throughout the year.

NEW QUESTION 227

- (Exam Topic 2)

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

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

Answer: B

Explanation:

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

NEW QUESTION 230

- (Exam Topic 2)

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

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

Answer: A

Explanation:

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

NEW QUESTION 235

- (Exam Topic 2)

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

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

Answer: A

Explanation:

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

NEW QUESTION 236

- (Exam Topic 2)

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

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

Answer: ACD

Explanation:

Compliance Reports Manager, GDPR Home Page, Compliance Offerings

GCP provides three main compliance resource webpages

Compliance Reports Manager – <https://cloud.google.com/security/compliance/compliance-reports-manager> Text, timeline Description automatically generated

Compliance Reports Manager

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

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

Compliance Offerings – <https://cloud.google.com/security/compliance/offerings> Text Description automatically generated

Compliance offerings

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

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

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

GDPR Resource Center – <https://cloud.google.com/security/gdpr/resource-center>

At Google Cloud, we champion initiatives that prioritize and improve the security and privacy of customer personal data, and want you, as a Google Cloud customer, to feel confident using our services in light of GDPR requirements. If you partner with Google Cloud, we will support your GDPR compliance efforts

NEW QUESTION 239

- (Exam Topic 2)

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

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

Answer: A

Explanation:

AutoML Vision Edge model can be deployed to one of several types of edge devices, such as mobile phones, ARM-based devices, and the Coral Edge TPU

<https://cloud.google.com/vision/automl/docs/edge-quickstart>

NEW QUESTION 244

- (Exam Topic 2)

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

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

Answer: C

Explanation:

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

NEW QUESTION 245

- (Exam Topic 2)

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

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

Answer: B

Explanation:

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

NEW QUESTION 250

- (Exam Topic 2)

Which of the followings are core components of Anthos?

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

Answer: D

Explanation:

Table Description automatically generated

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

NEW QUESTION 252

- (Exam Topic 2)

What cloud service model would you want to select if you want to solve a particular business problem by providing CRM services in the cloud to your enterprises?

- A. CaaS
- B. SaaS
- C. PaaS
- D. IaaS

Answer: B

Explanation:

SaaS – Software as a Service (SaaS) provides you a complete product that is run and managed by the service provider. You worry only about using the software and not about infrastructure.

SaaS provides the lowest level of flexibility and management control over the infrastructure. (Example: Google Gsuite and MS O365)

NEW QUESTION 256

- (Exam Topic 2)

A large travel services company has been running all their workloads on Google Cloud in the previous year. They looked at their past usage of cloud resources and see that there is a consistent use of 10,000 virtual machines throughout the year. Based on the projections for the following year they have a strong indication that they will use at least this much or more capacity within Google Cloud. What is one way in which they can take advantage of this knowledge?

- A. They can use these numbers to negotiate a better contract with another public cloud number.
- B. They can cut costs by cutting down on the number of VMs used.
- C. They can get into a committed use contract with Google Cloud to get a significant discount on the usage of VMs.
- D. They can ask for a sustained use discount.

Answer: C

Explanation:

Compute Engine lets you purchase committed use contracts in return for deeply discounted prices for VM usage. These discounts are referred to as committed use discounts. Committed use discounts are ideal for workloads with predictable resource needs. When you purchase a committed use contract, you purchase Compute Engine resources—such as vCPUs, memory, GPUs, local SSDs, and sole-tenant nodes—at a discounted price in return for committing to paying for those resources for 1 year or 3 years. The discount is up to 57% for most resources like machine types or GPUs. The discount is up to 70% for memory-optimized machine types.

NEW QUESTION 258

- (Exam Topic 2)

Firebase Hosting provides the following services

- A. Dynamic content
- B. Static content.
- C. Microservices.
- D. All of the Above.

Answer: D

Explanation:

Firebase Hosting- Firebase Hosting provides fast and secure hosting for your web app, static and dynamic content, and microservices.

Firebase Hosting is production-grade web content hosting for developers. With a single command, you can quickly deploy web apps and serve both static and dynamic content to a global CDN (content delivery network). You can also pair Firebase Hosting with Cloud Functions or Cloud Run to build and host microservices on Firebase.

Key capabilities of Firebase Hosting:

Serve content over a secure connection:- The modern web is secure. Zero-configuration SSL is built into Firebase Hosting, so content is always delivered securely.

Host static and dynamic content plus microservices:- Firebase Hosting supports all kinds of content for hosting, from your CSS and HTML files to your Express.js microservices or APIs.

Deliver content fast: Each file that you upload is cached on SSDs at CDN edges around the world and served as gzip or Brotli. We auto-select the best compression method for your content. No matter where your users are, the content is delivered fast.

NEW QUESTION 263

- (Exam Topic 2)

Your customer has a reporting tool that is only occasionally used by the leadership team. Usage of it is frequent - once a week, once a month, or once the quarter. They want to run this application in a cost-effective manner. What are the compute options available on Google Cloud which would be suitable? (Choose Two answer)

- A. Cloud Run
- B. Cloud App Engine Standard
- C. Compute Engine
- D. Kubernetes Engine

Answer: AB

Explanation:

Since the use of the tool is infrequent/intermittent, you can choose to compute options that are serverless. Both Cloud Run and Cloud App Engine Standard are serverless options that can shut down to zero. Since cost-effectiveness is a requirement, this will not cost anything during the periods it is not used.

NEW QUESTION 264

- (Exam Topic 2)

What type of cloud computing service provides raw compute, storage, and network, organized in ways that are familiar to physical data centers?

- A. Database as a Service.
- B. Platform as a Service.
- C. Infrastructure as a Service.
- D. Software as a Service.

Answer: C

Explanation:

What is Infrastructure as a service :

IaaS (infrastructure as a service) is a computing model that offers resources on-demand to businesses and individuals via the cloud.

IaaS is attractive because acquiring computing resources to run applications or store data the traditional way requires time and capital. Enterprises must purchase

equipment through procurement processes that can take months. They must invest in physical spaces: typically specialized rooms with power and cooling. And after deploying the systems, enterprises need IT, professionals, to manage them.

All this is challenging to scale when demand spikes or the business grows. Enterprises risk running out of capacity or overbuilding and ending up with infrastructure that suffers from low utilization.

These challenges are why IaaS use is steadily growing. Learn more about Compute Engine, Cloud Storage, etc.

NEW QUESTION 268

- (Exam Topic 2)

In terms of Infrastructure as a Service (IaaS) what are the benefits of it?

- A. IaaS offers virtually infinite flexibility and scalability, enterprises can get their work done more efficiently, ensuring faster development life cycles.
- B. IaaS resources are regularly available to businesses when they need the
- C. As a result, enterprises reduce delays when expanding infrastructure and, alternatively, don't waste resources by overbuilding capacity.
- D. IaaS resources are used on demand and enterprises only have to pay for the compute, storage, and networking resources that are actually used, IaaS costs are fairly predictable and can be easily contained and budgeted for.
- E. All of the Above

Answer: D

Explanation:

These are the feature of Infrastructure as a Service (IaaS) It's economical

Because IaaS resources are used on demand and enterprises only have to pay for the compute, storage, and networking resources that are actually used, IaaS costs are fairly predictable and can be easily contained and budgeted for.

It's efficient

IaaS resources are regularly available to businesses when they need them. As a result, enterprises reduce delays when expanding infrastructure and, alternatively, don't waste resources by overbuilding capacity.

It boosts productivity

Because the cloud provider is responsible for setting up and maintaining the underlying physical infrastructure, enterprise IT departments save time and money and can redirect resources to more strategic activities.

It's reliable

IaaS has no single point of failure. Even if any one component of the hardware resources fails, the service will usually still remain available.

It's scalable

One of the biggest advantages of IaaS in cloud computing is the capability to scale the resources up and down rapidly according to the needs of the enterprise.

It drives faster time to market

Because IaaS offers virtually infinite flexibility and scalability, enterprises can get their work done more efficiently, ensuring faster development life cycles.

NEW QUESTION 269

- (Exam Topic 2)

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

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

Answer: B

Explanation:

Cloud BigTable Key features

High throughput at low latency

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

Cluster resizing without downtime

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

Flexible, automated replication to optimize any workload

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

NEW QUESTION 274

- (Exam Topic 3)

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

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

Answer: B

Explanation:

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

NEW QUESTION 276

- (Exam Topic 3)

An organization finds that the amount of cash in their vending machines doesn't match the value of items sold. They have decided to upgrade their vending machines with cloud-based mobile payment systems. How could the organization benefit from this upgrade?

- A. They could relax data access permissions.
- B. They could reduce their error budget overspend.
- C. They could improve their perimeter security.
- D. They could view data history to see transactions.

Answer: D

NEW QUESTION 277

- (Exam Topic 3)

Why should an organization consider the total cost of ownership (TCO) when moving from on-premises to the cloud?

- A. To evaluate error budget
- B. To understand service level availability
- C. To evaluate return on investment
- D. To calculate required compute power

Answer: C

NEW QUESTION 278

- (Exam Topic 3)

An organization's web developers and operations personnel use different systems. How will increasing communication between the teams reduce issues caused by silos?

- A. By assigning blame for failures and establishing consequences
- B. By combining job role responsibilities to ensure that everyone has shared access
- C. By increasing data encryption to strengthen workflows
- D. By emphasizing shared ownership of business outcomes

Answer: D

NEW QUESTION 281

- (Exam Topic 3)

An organization wants to use BigQuery data analytics to understand their website performance, but wants to move only some data into the cloud. Which environment should the organization use?

- A. Private cloud
- B. On-premises
- C. Multi-cloud
- D. Hybrid cloud

Answer: D

Explanation:

The assumption should be made that there is still a private network involved. Hybrid clouds always include a private cloud and are typically managed as one entity. Multi-clouds always include more than one public cloud service, which often perform different functions.

NEW QUESTION 284

- (Exam Topic 3)

An organization wants to move from a tactical cloud adoption approach to a transformational approach. How should they change their cloud security?

- A. Provide staff identities using only Google Cloud authentication.
- B. Provide multiple layers of network security using a zero-trust model.
- C. Emphasize strong perimeter security and trust in their private network.
- D. Emphasize three main Identity Access Management roles: owner, editor, and viewer.

Answer: B

NEW QUESTION 288

- (Exam Topic 3)

What does Cloud Logging help an organization do?

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

Answer: C

NEW QUESTION 292

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 296

- (Exam Topic 3)

How does Cloud SQL help organizations create business insights?

- A. Integrates with business intelligence and analytics platforms
- B. Generates predictions using machine learning models
- C. Generates real-time charts and intelligent analytics
- D. Transforms business data from unstructured to structured

Answer: A

Explanation:

<https://cloud.google.com/sql/docs/postgres/using-query-insights>

NEW QUESTION 298

- (Exam Topic 3)

An organization is training a machine learning model to predict extreme weather events in their country. How should they collect data to maximize prediction accuracy?

- A. Collect all weather data evenly across all cities
- B. Collect all weather data primarily from at-risk cities
- C. Collect extreme weather data evenly across all cities
- D. Collect extreme weather data primarily from at-risk cities

Answer: A

Explanation:

Collect all weather data evenly across all cities. Mainly because it seems that the emphasis for data collection for ML is to make sure there are no holes in your data collection.

NEW QUESTION 301

- (Exam Topic 3)

An organization wants a cost-effective relational database. Which Google Cloud service should the organization use?

- A. Cloud Storage
- B. BigQuery
- C. Cloud SQL
- D. Dataflow

Answer: C

NEW QUESTION 302

- (Exam Topic 3)

An organization wants to create a new application in the cloud to replace an existing on-premises application. Which application modernization approach should the organization use?

- A. Move the application to the cloud, and then change it.
- B. Change their application, and then move it to the cloud.
- C. Invent in greenfield.
- D. Invent in brownfield.

Answer: D

Explanation:

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

NEW QUESTION 303

- (Exam Topic 3)

An organization is using machine learning to make predictions. One of their datasets mistakenly includes mislabeled data. How will the prediction be impacted?

- A. Increased risk of privacy leaks
- B. Increased risk of inaccuracy
- C. Decreased model compatibility
- D. Decreased model training time

Answer: B

NEW QUESTION 308

- (Exam Topic 3)

An organization wants to leverage tooling and automation as part of its new DevOps philosophy. Which operational challenge will this resolve?

- A. Repetitive manual tasks that hinder workflows
- B. Time-consuming supervision of creative tasks
- C. Distribution and supply-chain issues
- D. Defective technical equipment that limits innovation

Answer: A

NEW QUESTION 311

- (Exam Topic 3)

An organization wants to migrate legacy applications currently hosted in their data center to the cloud. The current architecture dictates that each application needs its own operating system (OS) instead of sharing an OS.

Which infrastructure solution should they choose?

- A. Virtual machines
- B. Open source
- C. Serverless computing
- D. Containers

Answer: A

Explanation:

Virtual machines - you can install customized OS Containers - about applications

Virtualization enables you to run multiple operating systems on the hardware of a single physical server, while containerization enables you to deploy multiple applications using the same operating system on a single virtual machine or server. Serverless computing would be no OS required and the open source operating system allows the use of code that is freely distributed and available to anyone and for commercial purposes such as Linux and Free BSD.

NEW QUESTION 316

- (Exam Topic 3)

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

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

Answer: B

NEW QUESTION 319

- (Exam Topic 3)

Why do organizations often struggle to scale their on-premises application infrastructure?

- A. Scaling compute instances could breach compliance and/or regulation
- B. Increasing compute capacity is time-consuming and costly
- C. Their serverless compute functions struggle to meet the demand
- D. Their multi-cloud architecture is complex and expensive

Answer: B

NEW QUESTION 323

- (Exam Topic 3)

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

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

Answer: B

Explanation:

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

NEW QUESTION 324

- (Exam Topic 3)

What is logging within the context of cloud technology?

- A. Writing application and operating system events as text
- B. Monitoring network and resource limitations
- C. Tracking source code across an organization
- D. Recording infrastructure and hardware expenditure

Answer: A

Explanation:

Cloud Logging is a fully managed service that allows you to store, search, analyze, monitor, and alert on logging data and events from Google Cloud and Amazon Web Services

NEW QUESTION 326

- (Exam Topic 3)

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

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

Answer: A

NEW QUESTION 330

- (Exam Topic 3)

An organization wants to use multiple marketing datasets to forecast user acquisition. How should they use cloud technology to gain new insights from the data?

- A. Import the datasets into a custom data warehouse, and then archive old data
- B. Import and selectively archive the datasets in a custom data lake
- C. Separate the datasets and make predictions using machine learning
- D. Combine the datasets and make predictions using machine learning

Answer: D

NEW QUESTION 333

- (Exam Topic 3)

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

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

Answer: A

NEW QUESTION 337

- (Exam Topic 3)

A retail company stores their product inventory in a legacy system. Often, customers find products on the company's website and want to purchase them in-store. However, when they arrive, they discover that the products are out of stock. How could the company benefit from using an application programming interface (API)?

- A. To create personalized product recommendations for customers
- B. To optimize their on-premises legacy system stability
- C. By manually linking each inventory system to the website on a case-by-case basis
- D. By programmatically connecting the inventory system to their website

Answer: D

Explanation:

By programmatically connecting the inventory system to their website The issue is the website shows an item is available at the store, but when the customer gets to the store, they find out that item is out of stock.

NEW QUESTION 341

- (Exam Topic 3)

A food delivery service needs access to real-time menu information from all partner restaurants. They also need to share customer order information with the restaurants in real time.

What should the organization use?

- A. Site reliability engineering (SRE)
- B. An application programming interface (API)
- C. A customized machine learning model
- D. A multi-regional database

Answer: B

NEW QUESTION 343

- (Exam Topic 3)

An organization needs to store structured, semi-structured, and unstructured data in its raw, native format in the same repository. Which cloud data management solution should the organization use?

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

Answer: B

Explanation:

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

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

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

NEW QUESTION 346

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