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QUESTION 1

In terms of Cloud SQL for MySQL Features offered by Google Cloud Platform which of the statements is/are correct?

A. Do not support Private IP (private service access).

B. Customer data is encrypted on Google\\'s internal networks and in database tables, temporary files, and backups.

C. Do not Provide automated and on-demand backups and point-in-time recovery.

D. None of the above

Correct Answer: B

Explanation: Cloud SQL for MySQL: Features

-Fully managed MySQL Community Edition databases in the cloud.

- Cloud SQL instances support MySQL 8.0, 5.7 (default), and 5.6, and provide up to 624 GB of RAM and 64 TB of data storage, with the option to automatically increase the storage size, as needed.

-Create and manage instances in the Google Cloud Console.

-Instances are available in the Americas, EU, Asia, and Australia.

-Customer data is encrypted on Google\\'s internal networks and in database tables, temporary files, and backups.

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Support for secure external connections with the Cloud SQL Auth proxy or with the SSL/TLS protocol.

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Support for private IP (private services access).

-Data replication between multiple zones with automatic failover.

-Import and export databases using mysqldump, or import and export CSV files.

-Support for MySQL wire protocol and standard MySQL connectors.

-Automated and on-demand backups and point-in-time recovery.

-Instance cloning.

-Integration with Google Cloud\\'s operations suite logging and monitoring.

QUESTION 2

What conditions be true if a VM interface wants to send packets to the external IP addresses of Google APIs and services using Private Google Access?

A. VM interface does not have an external IP address assigned.

B. VM interface is connected to a subnet where Private Google Access is disabled

C. Both A and B

D. None of the Above.

Correct Answer: A

Explanation: A VM interface can send packets to the external IP addresses of Google APIs and services using Private Google Access if all these conditions are met:

-

The VM interface is connected to a subnet where Private Google Access is enabled.

-

The VPC network that contains the subnet meets the network requirements for Google APIs and services.

-

The VM interface does not have an external IP address assigned.

- The source IP address of packets sent from the VM matches the VM interface\\'s primary internal IP address or an internal IP address from an alias IP range. A VM with an external IP address assigned to its network interface doesn\\'t need Private Google Access to connect to Google APIs and services. However, the VPC network must meet the requirements for accessing Google APIs and services.

QUESTION 3

An organization wants to digitize and share large volumes of historical text and images. Why is a public cloud a better option than an on-premises solution?

A. In-house hardware management

B. Provides physical encryption key

C. Cost-effective at scale

D. Optimizes capital expenditure

Correct Answer: C

QUESTION 4

An organization wants to build an entirely new infrastructure and applications in the cloud. 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.

Correct Answer: C

Explanation: A Greenfield approach is a brand-new implementation , where companies then add their needed configurations and customizations. This approach provides a clean slate to start from, does not carry over needless customizations and technical debt, and provides a solid foundation for business process re-engineering. A greenfield deployment is the design, installation and configuration of computer infrastructure where none existed before, for example, in a new office. In contrast, a brownfield deployment is an upgrade or addition to existing infrastructure using legacy components.

QUESTION 5

Which of the following are the current options for paid support in GCP? (Select Three An- swer)

A. Premier

B. Standard

C. Enhanced

D. Role

E. Premium

Correct Answer: BCE

Explanation: Because GCP provides three options for paid support which are Standard, Enhanced and Premium.

Basic Support is included with your Google Cloud subscription which cover only Case, phone, and chat support for billing issues only

Reference link- https://cloud.google.com/support

QUESTION 6

Your organization is developing an application that will capture a large amount of data from millions of different sensor devices spread all around the world. Your organization needs a database that is suitable for worldwide, high-speed data storage of a large amount of unstructured data.

Which Google Cloud product should your organization choose?

A. Firestore

B. Cloud Data Fusion

C. Cloud SQL

D. Cloud Bigtable

Correct Answer: D

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

Cloud Bigtable is a sparsely populated table that can scale to billions of rows and thousands of columns, enabling you to store terabytes or even petabytes of data. A single value in each row is indexed; this value is known as the row key. Bigtable is ideal for storing very large amounts of single-keyed data with very low latency. It supports high read and write throughput at low latency, and it is an ideal data source for MapReduce operations.

Bigtable is exposed to applications through multiple client libraries, including a supported extension to the Apache HBase library for Java. As a result, it integrates with the existing Apache ecosystem of open-source Big Data software.

Bigtable\\'s powerful back-end servers offer several key advantages over a self-managed HBase installation:

Incredible scalability. Bigtable scales in direct proportion to the number of machines in your cluster. A self-managed HBase installation has a design bottleneck that limits the performance after a certain threshold is reached. Bigtable does not have this bottleneck, so you can scale your cluster up to handle more reads and writes.

Simple administration. Bigtable handles upgrades and restarts transparently, and it automatically maintains high data durability. To replicate your data, simply add a second cluster to your instance, and replication starts automatically. No more managing replicas or regions; just design your table schemas, and Bigtable will handle the rest for you.

Cluster resizing without downtime. 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. After you change a cluster\\'s size, it typically takes just a few minutes under load for Bigtable to balance performance across all of the nodes in your cluster.

QUESTION 7

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.

Correct Answer: D

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

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.

Table

Description automatically generated with medium confidence https://cloud.google.com/learn/what-is-a-virtual-machine

QUESTION 8

You are working with a government agency. A web application serves users of the country. It al-lows citizens to receive certain services in providing their national identity. Citizens have com-plained 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 for-eign. 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.

Correct 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."

QUESTION 9

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.

Correct Answer: C

> ★ **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 with 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

QUESTION 10

Your organization needs to minimize how much it pays for data traffic from the Google network to the internet. What should your organization do?

A. Choose the Standard network service tier.

B. Choose the Premium network service tier.

C. Deploy Cloud VPN.

D. Deploy Cloud NAT.

Correct Answer: A

Explanation: Choose the Standard network service tier. While Premium tier is the default for all egress traffic and offers the highest performance, when cost is a consideration. Standard tier is the more economical.

Every cloud deployment needs a network over which to move data. Without a network, you can't view cat videos or upload your selfies, much less allow microservices to talk to one another.

Google Cloud provides a global, scalable, flexible network for your cloud-based workloads and services, and how you utilize that network impacts four critical aspects of your deployment: cost, security, performance and availability.

When designing a reliable, sound, yet cost effective network architecture, you'll want multiple teams within the company to weigh in on these four elements, to determine your priorities. The following tips highlight a few considerations you should think about when architecting your network solution.

https://cloud.google.com/blog/products/networking/networking-cost-optimization-best- practices

QUESTION 11

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.

Correct Answer: A

Reference: https://cloud.google.com/security/infrastructure/design The Teams need to segmented to have visibility on the resources each team consumes

QUESTION 12

When an organization adopts cloud technology, how does their total cost of ownership (TCO) shift?

A. Away from cost management toward capital expenditure

B. Away from operational expenditure toward cost management

C. Away from capital expenditure toward operational expenditure

D. Away from operational expenditure toward capital expenditure

Correct Answer: C

QUESTION 13

A multinational retail company has approached you to help design its systems. They have millions of transactions at their point of sale systems across the world that need to be captured, stored, and analyzed. They are seeing more growth and expect to expand into even more geographies. Which database would be appropriate for them?

A. Cloud Datastore

B. Cloud Storage

C. Cloud Spanner

D. Cloud SQL

Correct Answer: C

Cloud Spanner: "Fully managed relational database with unlimited scale, strong consistency, and up to 99.999% availability." Reference:- https://cloud.google.com/spanner

QUESTION 14

Your large and frequently changing organization\\'s user information is stored in an on- premises LDAP database. The database includes user passwords and group and organization membership. How should your organization provision Google accounts and groups to access Google Cloud resources?

A. Replicate the LDAP infrastructure on Compute Engine

B. Use the Firebase Authentication REST API to create users

C. Use Google Cloud Directory Sync to create users

D. Use the Identity Platform REST API to create users

Correct Answer: C

You can run a single instance of Google Cloud Directory Sync to synchronize user accounts and groups to Google Cloud. Reference: https://cloud.google.com/architecture/identity/federating-gcp-with-active- directory-introduction

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

QUESTION 15

An organization is making a strategic change to customer support in response to feedback. They plan to extend their helpline availability hours. Why is the organization making this change?

A. Users expect professional expertise

B. Users require personalization

C. Users expect always-on services

D. Users require regional access

Correct Answer: C

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