Q&As

Professional Cloud Architect on Google Cloud Platform

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QUESTION 1

JencoMart has built a version of their application on Google Cloud Platform that serves traffic to Asia. You want to measure success against their business and technical goals.

Which metrics should you track?

A. Error rates for requests from Asia

B. Latency difference between US and Asia

C. Total visits, error rates, and latency from Asia

D. Total visits and average latency for users from Asia

E. The number of character sets present in the database

Correct Answer: C

From scenario: Business Requirements include: Expand services into Asia Technical Requirements include: Decrease latency in Asia

QUESTION 2

A production database virtual machine on Google Compute Engine has an ext4-formatted persistent disk for data files. The database is about to run out of storage space. How can you remediate the problem with the least amount of downtime?

A. In the Cloud Platform Console, increase the size of the persistent disk and use the resize2fs command in Linux.

B. Shut down the virtual machine, use the Cloud Platform Console to increase the persistent disk size, then restart the virtual machine

C. In the Cloud Platform Console, increase the size of the persistent disk and verify the new space is ready to use with the fdisk command in Linux

D. In the Cloud Platform Console, create a new persistent disk attached to the virtual machine, format and mount it, and configure the database service to move the files to the new disk

E. In the Cloud Platform Console, create a snapshot of the persistent disk restore the snapshot to a new larger disk, unmount the old disk, mount the new disk and restart the database service

Correct Answer: A

On Linux instances, connect to your instance and manually resize your partitions and file systems to use the additional disk space that you added. Extend the file system on the disk or the partition to use the added space. If you grew a

partition on your disk, specify the partition. If your disk does not have a partition table, specify only the disk ID.

sudo resize2fs /dev/[DISK_ID][PARTITION_NUMBER]

where [DISK_ID] is the device name and [PARTITION_NUMBER] is the partition number for the device where you are resizing the file system.

References: https://cloud.google.com/compute/docs/disks/add-persistent-disk

QUESTION 3

Your company has multiple on-premises systems that serve as sources for reporting. The data has not been maintained well and has become degraded over time. You want to use Google-recommended practices to detect anomalies in your company data. What should you do?

A. Upload your files into Cloud Storage. Use Cloud Datalab to explore and clean your data.

B. Upload your files into Cloud Storage. Use Cloud Dataprep to explore and clean your data.

C. Connect Cloud Datalab to your on-premises systems. Use Cloud Datalab to explore and clean your data.

D. Connect Cloud Dataprep to your on-premises systems. Use Cloud Dataprep to explore and clean your data.

Correct Answer: B

https://cloud.google.com/dataprep/

QUESTION 4

Your agricultural division is experimenting with fully autonomous vehicles. You want your architecture to promote strong security during vehicle operation.

Which two architectures should you consider? (Choose two.)

A. Treat every micro service call between modules on the vehicle as untrusted.

B. Require IPv6 for connectivity to ensure a secure address space.

C. Use a trusted platform module (TPM) and verify firmware and binaries on boot.

D. Use a functional programming language to isolate code execution cycles.

E. Use multiple connectivity subsystems for redundancy.

F. Enclose the vehicle\\'s drive electronics in a Faraday cage to isolate chips.

Correct Answer: AC

QUESTION 5

For this question, refer to the Helicopter Racing League (HRL) case study. Your team is in charge of creating a payment card data vault for card numbers used to bill tens of thousands of viewers, merchandise consumers, and season ticket holders. You need to implement a custom card tokenization service that meets the following requirements:

1.

It must provide low latency at minimal cost.

2.

It must be able to identify duplicate credit cards and must not store plaintext card numbers.

3.

It should support annual key rotation.

Which storage approach should you adopt for your tokenization service?

A. Store the card data in Secret Manager after running a query to identify duplicates.

B. Encrypt the card data with a deterministic algorithm stored in Firestore using Datastore mode.

C. Encrypt the card data with a deterministic algorithm and shard it across multiple Memorystore instances.

D. Use column-level encryption to store the data in Cloud SQL.

Correct Answer: B

QUESTION 6

Your company has just acquired another company, and you have been asked to integrate their existing Google Cloud environment into your company\\'s data center. Upon investigation, you discover that some of the RFC 1918 IP ranges being used in the new company\\'s Virtual Private Cloud (VPC) overlap with your data center IP space. What should you do to enable connectivity and make sure that there are no routing conflicts when connectivity is established?

A. Create a Cloud VPN connection from the new VPC to the data center, create a Cloud Router, and apply new IP addresses so there is no overlapping IP space.

B. Create a Cloud VPN connection from the new VPC to the data center, and create a Cloud NAT instance to perform NAT on the overlapping IP space.

C. Create a Cloud VPN connection from the new VPC to the data center, create a Cloud Router, and apply a custom route advertisement to block the overlapping IP space.

D. Create a Cloud VPN connection from the new VPC to the data center, and apply a firewall rule that blocks the overlapping IP space.

Correct Answer: A

To connect two networks together we need (1) either VPN or interconnect and (2) peering. When there is peering, you cannot have conflicting IP addresses. You can use either Cloud VPN or Cloud Interconnect to securely connect your on-premises network to your VPC network. (https://cloud.google.com/vpc/docs/vpc-peering#transit-network) At the time of peering, Google Cloud checks to see if there are any subnet IP ranges that overlap subnet IP ranges in the other network. If there is any overlap, peering is not established. (https://cloud.google.com/vpc/docs/vpc-peering#considerations) NAT is used to translate private to public IP and vice versa, however because we are connecting 2 networks together, they become private IPs. So it is not applicable.

QUESTION 7

Your company is moving 75 TB of data into Google Cloud. You want to use Cloud Storage and follow Google-recommended practices. What should you do?

A. Move your data onto a Transfer Appliance. Use a Transfer Appliance Rehydrator to decrypt the data into Cloud Storage.

B. Move your data onto a Transfer Appliance. Use Cloud Dataprep to decrypt the data into Cloud Storage.

C. Install gsutil on each server that contains data. Use resumable transfers to upload the data into Cloud Storage.

D. Install gsutil on each server containing data. Use streaming transfers to upload the data into Cloud Storage.

Correct Answer: A

Reference: https://cloud.google.com/solutions/transferring-big-data-sets-to-gcp

QUESTION 8

You need to implement a network ingress for a new game that meets the defined business and technical requirements. Mountkirk Games wants each regional game instance to be located in multiple Google Cloud regions. What should you do?

A. Configure a global load balancer connected to a managed instance group running Compute Engine instances.

B. Configure kubemci with a global load balancer and Google Kubernetes Engine.

C. Configure a global load balancer with Google Kubernetes Engine.

D. Configure Ingress for Anthos with a global load balancer and Google Kubernetes Engine.

Correct Answer: D

QUESTION 9

JencoMart has decided to migrate user profile storage to Google Cloud Datastore and the application servers to Google Compute Engine (GCE). During the migration, the existing infrastructure will need access to Datastore to upload the data.

What service account key-management strategy should you recommend?

A. Provision service account keys for the on-premises infrastructure and for the GCE virtual machines (VMs)

B. Authenticate the on-premises infrastructure with a user account and provision service account keys for the VMs

C. Provision service account keys for the on-premises infrastructure and use Google Cloud Platform (GCP) managed keys for the VMs

D. Deploy a custom authentication service on GCE/Google Kubernetes Engine (GKE) for the on-premises infrastructure and use GCP managed keys for the VMs

Correct Answer: C

Migrating data to Google Cloud Platform

Let\\'s say that you have some data processing that happens on another cloud provider and you want to transfer the processed data to Google Cloud Platform. You can use a service account from the virtual machines on the external cloud to push the data to Google Cloud Platform. To do this, you must create and download a service account key when you create the service account and then use that key from the external process to call the Cloud Platform APIs.

References: https://cloud.google.com/iam/docs/understanding-service-accounts#migrating_data_to_google_cloud_platform

QUESTION 10

Your company has a Google Workspace account and Google Cloud Organization. Some developers in the company have created Google Cloud projects outside of the Google Cloud Organization.

You want to create an Organization structure that allows developers to create projects, but prevents them from modifying production projects. You want to manage policies for all projects centrally and be able to set more restrictive policies for production projects.

You want to minimize disruption to users and developers when business needs change in the future. You want to follow Google-recommended practices. Now should you design the Organization structure?

A. 1. Create a second Google Workspace account and Organization.

2.

Grant all developers the Project Creator IAM role on the new Organization.

3.

Move the developer projects into the new Organization.

4.

Set the policies for all projects on both Organizations.

5.

Additionally, set the production policies on the original Organization.

B. 1. Create a folder under the Organization resource named "Production."

2.

Grant all developers the Project Creator IAM role on the new Organization.

3.

Move the developer projects into the new Organization.

4.

Set the policies for all projects on the Organization.

5.

Additionally, set the production policies on the "Production" folder.

C. 1. Create folders under the Organization resource named "Development" and "Production."

2.

Grant all developers the Project Creator IAM role on the "Development" folder.

3.

Move the developer projects into the "Development" folder.

4.

Set the policies for all projects on the Organization.

5.

Additionally, set the production policies on the "Production" folder.

D. 1. Designate the Organization for production projects only.

2.

Ensure that developers do not have the Project Creator IAM role on the Organization.

3.

Create development projects outside of the Organization using the developer Google Workspace accounts.

4.

Set the policies for all projects on the Organization.

5.

Additionally, set the production policies on the individual production projects.

Correct Answer: C

QUESTION 11

For this question, refer to the Dress4Win case study. To be legally compliant during an audit, Dress4Win must be able to give insights in all administrative actions that modify the configuration or metadata of resources on Google Cloud. What should you do?

A. Use Stackdriver Trace to create a trace list analysis.

B. Use Stackdriver Monitoring to create a dashboard on the project\\'s activity.

C. Enable Cloud Identity-Aware Proxy in all projects, and add the group of Administrators as a member.

D. Use the Activity page in the GCP Console and Stackdriver Logging to provide the required insight.

Correct Answer: D

QUESTION 12

You are migrating your on-premises solution to Google Cloud in several phases. You will use Cloud VPN to maintain a connection between your on-premises systems and Google Cloud until the migration is completed. You want to make sure all your on-premises systems remain reachable during this period. How should you organize your networking in Google Cloud?

A. Use the same IP range on Google Cloud as you use on-premises

B. Use the same IP range on Google Cloud as you use on-premises for your primary IP range and use a secondary range that does not overlap with the range you use on-premises

C. Use an IP range on Google Cloud that does not overlap with the range you use on-premises

D. Use an IP range on Google Cloud that does not overlap with the range you use on-premises for your primary IP range and use a secondary range with the same IP range as you use on-premises

Correct Answer: C

QUESTION 13

The application reliability team at your company this added a debug feature to their backend service to send all server events to Google Cloud Storage for eventual analysis. The event records are at least 50 KB and at most 15 MB and are expected to peak at 3,000 events per second. You want to minimize data loss.

Which process should you implement?

A. Append metadata to file body Compress individual files Name files with serverName Timestamp Create a new bucket if bucket is older than 1 hour and save individual files to the new bucket. Otherwise, save files to existing bucket.

B. Batch every 10,000 events with a single manifest file for metadata Compress event files and manifest file into a single archive file Name files using serverName EventSequence Create a new bucket if bucket is older than 1 day and save the single archive file to the new bucket. Otherwise, save the single archive file to existing bucket.

C. Compress individual files Name files with serverName EventSequence Save files to one bucket Set custom metadata headers for each object after saving

D. Append metadata to file body Compress individual files Name files with a random prefix pattern Save files to one bucket

Correct Answer: D

In order to maintain a high request rate, avoid using sequential names. Using completely random object names will give you the best load distribution. Randomness after a common prefix is effective under the prefix https://cloud.google.com/storage/docs/request-rate

QUESTION 14

Your company wants you to build a highly reliable web application with a few public APIs as the backend. You don\\'t expect a lot of user traffic, but traffic could spike occasionally. You want to leverage Cloud Load Balancing, and the solution must be cost-effective for users. What should you do?

A. Store static content such as HTML and images in Cloud CDN. Host the APIs on App Engine and store the user data in Cloud SQL.

B. Store static content such as HTML and images in a Cloud Storage bucket. Host the APIs on a zonal Google Kubernetes Engine cluster with worker nodes in multiple zones, and save the user data in Cloud Spanner.

C. Store static content such as HTML and images in Cloud CDN. Use Cloud Run to host the APIs and save the user data in Cloud SQL.

D. Store static content such as HTML and images in a Cloud Storage bucket. Use Cloud Functions to host the APIs and save the user data in Firestore.

Correct Answer: D

QUESTION 15

Your development team has created a mobile game app. You want to test the new mobile app on Android and iOS devices with a variety of configurations. You need to ensure that testing is efficient and cost-effective. What should you do?

A. Upload your mobile app to the Firebase Test Lab, and test the mobile app on Android and iOS devices.

B. Create Android and iOS VMs on Google Cloud, install the mobile app on the VMs, and test the mobile app.

C. Create Android and iOS containers on Google Kubernetes Engine (GKE), install the mobile app on the containers, and test the mobile app.

D. Upload your mobile app with different configurations to Firebase Hosting and test each configuration.

Correct Answer: A