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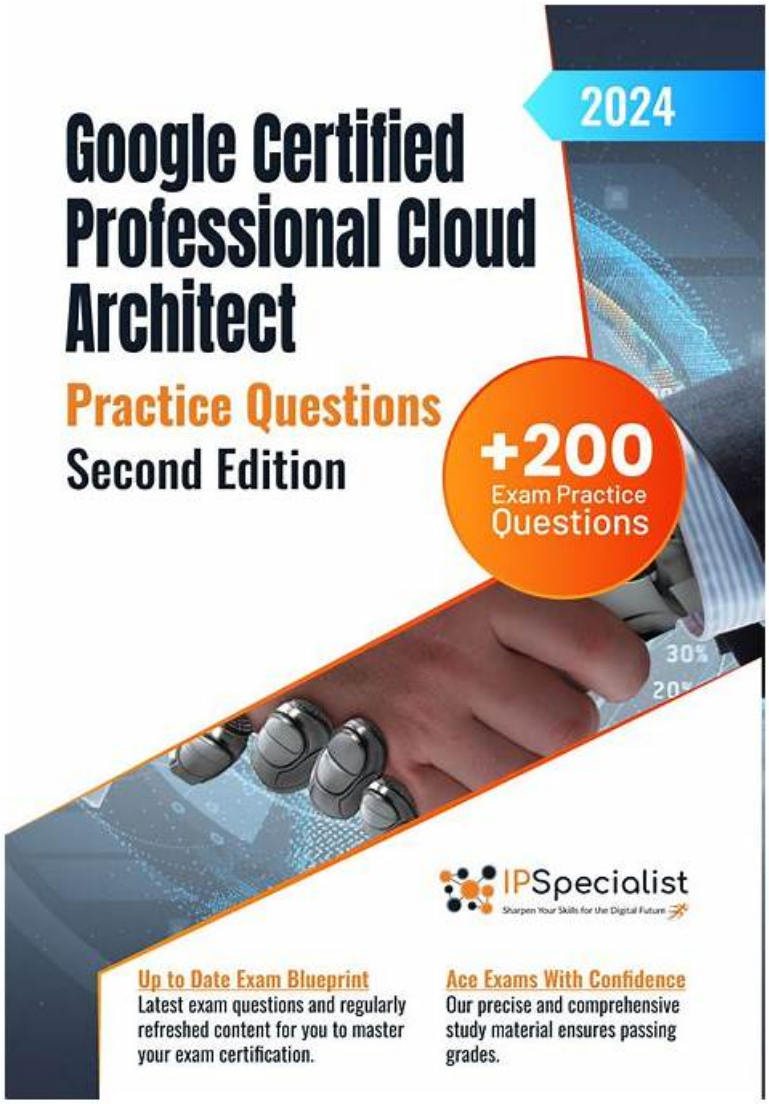

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Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q50-Q55):

NEW QUESTION # 50
Case Study: 4 - Dress4Win case study
Company Overview
Dress4win is a web-based company that helps their users organize and manage their personal wardrobe using a website and mobile application. The company also cultivates an active social network that connects their users with designers and retailers. They monetize their services through advertising, e-commerce, referrals, and a freemium app model.
Company Background
Dress4win's application has grown from a few servers in the founder's garage to several hundred servers and appliances in a colocated data center. However, the capacity of their infrastructure is now insufficient for the application's rapid growth. Because of this growth and the company's desire to innovate faster, Dress4win is committing to a full migration to a public cloud.
Solution Concept
For the first phase of their migration to the cloud, Dress4win is considering moving their development and test environments. They are also considering building a disaster recovery site, because their current infrastructure is at a single location. They are not sure which components of their architecture they can migrate as is and which components they need to change before migrating them.
Existing Technical Environment
The Dress4win application is served out of a single data center location.
Databases:
MySQL - user data, inventory, static data
Redis - metadata, social graph, caching
Application servers:
Tomcat - Java micro-services
Nginx - static content
Apache Beam - Batch processing
Storage appliances:
iSCSI for VM hosts
Fiber channel SAN - MySQL databases
NAS - image storage, logs, backups
Apache Hadoop/Spark servers:
Data analysis
Real-time trending calculations
MQ servers:
Messaging
Social notifications
Events
Miscellaneous servers:
Jenkins, monitoring, bastion hosts, security scanners
Business Requirements
Build a reliable and reproducible environment with scaled parity of production. Improve security by defining and adhering to a set of

security and Identity and Access Management (IAM) best practices for cloud.
Improve business agility and speed of innovation through rapid provisioning of new resources.
Analyze and optimize architecture for performance in the cloud. Migrate fully to the cloud if all other requirements are met.
Technical Requirements
Evaluate and choose an automation framework for provisioning resources in cloud. Support failover of the production environment to cloud during an emergency. Identify production services that can migrate to cloud to save capacity.
Use managed services whenever possible.
Encrypt data on the wire and at rest.
Support multiple VPN connections between the production data center and cloud environment.
CEO Statement
Our investors are concerned about our ability to scale and contain costs with our current infrastructure. They are also concerned that a new competitor could use a public cloud platform to offset their up-front investment and freeing them to focus on developing better features.
CTO Statement
We have invested heavily in the current infrastructure, but much of the equipment is approaching the end of its useful life. We are consistently waiting weeks for new gear to be racked before we can start new projects. Our traffic patterns are highest in the mornings and weekend evenings; during other times, 80% of our capacity is sitting idle.
CFO Statement
Our capital expenditure is now exceeding our quarterly projections. Migrating to the cloud will likely cause an initial increase in spending, but we expect to fully transition before our next hardware refresh cycle. Our total cost of ownership (TCO) analysis over the next 5 years puts a cloud strategy between 30 to 50% lower than our current model.
For this question, refer to the Dress4Win case study.
As part of their new application experience, Dress4Wm allows customers to upload images of themselves. The customer has exclusive control over who may view these images. Customers should be able to upload images with minimal latency and also be shown their images quickly on the main application page when they log in. Which configuration should Dress4Win use?

- A. Store image files in a Google Cloud Storage bucket. Add custom metadata to the uploaded images in Cloud Storage that contains the customer's unique ID.
- B. Store image files in a Google Cloud Storage bucket. Use Google Cloud Datastore to maintain metadata that maps each customer's ID and their image files.
- C. Use a distributed file system to store customers' images. As storage needs increase, add more persistent disks and/or nodes. Assign each customer a unique ID, which sets each file's owner attribute, ensuring privacy of images.
- D. Use a distributed file system to store customers' images. As storage needs increase, add more persistent disks and/or nodes. Use a Google Cloud SQL database to maintain metadata that maps each customer's ID to their image files.

Answer: A

NEW QUESTION # 51
You want to enable your running Google Container Engine cluster to scale as demand for your application changes.
What should you do?

- A. Update the existing Container Engine cluster with the following command:
  gcloud alpha container clusters update mycluster --enable-autoscaling --min-nodes=1 --max-nodes=10
- B. Add a tag to the instances in the cluster with the following command:
  gcloud compute instances add-tags INSTANCE --tags enable --autoscaling max-nodes-10
- C. Create a new Container Engine cluster with the following command:
  gcloud alpha container clusters create mycluster --enable-autocaling --min-nodes=1 --max-nodes=10
  and redeploy your application.
- D. Add additional nodes to your Container Engine cluster using the following command:
  gcloud container clusters resize CLUSTER_NAME --size 10

Answer: B

Explanation:
https://cloud.google.com/kubernetes-engine/docs/concepts/cluster-autoscaler
Cluster autoscaling
--enable-autoscaling
Enables autoscaling for a node pool.
Enables autoscaling in the node pool specified by --node-pool or the default node pool if --node-pool is not provided.
Where:

--max-nodes=MAX_NODES
Maximum number of nodes in the node pool.
Maximum number of nodes to which the node pool specified by --node-pool (or default node pool if unspecified) can scale.
Incorrect Answers:
C, D: Warning: Do not use Alpha Clusters or alpha features for production workloads.
Note: You can experiment with Kubernetes alpha features by creating an alpha cluster. Alpha clusters are short-lived clusters that run stable Kubernetes releases with all Kubernetes APIs and features enabled. Alpha clusters are designed for advanced users and early adopters to experiment with workloads that take advantage of new features before those features are production-ready. You can use Alpha clusters just like normal Kubernetes Engine clusters.

NEW QUESTION # 52
You are moving an application that uses MySQL from on-premises to Google Cloud. The application will run on Compute Engine and will use Cloud SQL. You want to cut over to the Compute Engine deployment of the application with minimal downtime and no data loss to your customers. You want to migrate the application with minimal modification. You also need to determine the cutover strategy. What should you do?

- A. 1. Stop the on-premises application.
  2.Create a mysqldump of the on-premises MySQL server.
  3.Upload the dump to a Cloud Storage bucket.
  4.Import the dump into Cloud SQL.
  5.Start the application on Compute Engine.
- B. 1. Set up Cloud VPN to provide private network connectivity between the Compute Engine application and the on-premises MySQL server.
  2.Stop the on-premises application.
  3.Start the Compute Engine application, configured to read and write to the on-premises MySQL server.
  4.Create the replication configuration in Cloud SQL.
  5.Configure the source database server to accept connections from the Cloud SQL replica.
  6.Finalize the Cloud SQL replica configuration.
  7.When replication has been completed, stop the Compute Engine application.
  8.Promote the Cloud SQL replica to a standalone instance.
  9.Restart the Compute Engine application, configured to read and write to the Cloud SQL standalone instance.
- C. 1. Set up Cloud SQL proxy and MySQL proxy.
  2.Create a mysqldump of the on-premises MySQL server.
  3.Upload the dump to a Cloud Storage bucket.
  4.Import the dump into Cloud SQL.
  5.Stop the on-premises application.
  6.Start the Compute Engine application.
- D. 1. Set up Cloud VPN to provide private network connectivity between the Compute Engine application and the on-premises MySQL server.
  2.Stop the on-premises application.
  3.Create a mysqldump of the on-premises MySQL server.
  4.Upload the dump to a Cloud Storage bucket.
  5.Import the dump into Cloud SQL.
  6.Modify the source code of the application to write queries to both databases and read from its local database.
  7.Start the Compute Engine application.
  8.Stop the on-premises application.

Answer: D

NEW QUESTION # 53
TerramEarth's 20 million vehicles are scattered around the world. Based on the vehicle's location, its telemetry data is stored in a Google Cloud Storage (GCS) regional bucket (US, Europe, or Asia). The CTO has asked you to run a report on the raw telemetry data to determine why vehicles are breaking down after 100 K miles.
You want to run this job on all the data.
What is the most cost-effective way to run this job?

- A. Launch a cluster in each region to preprocess and compress the raw data, then move the data into a region bucket and use a Cloud Dataproc cluster to finish the job

- B. Move all the data into 1 zone, then launch a Cloud Dataproc cluster to run the job
- C. Launch a cluster in each region to preprocess and compress the raw data, then move the data into a multi- region bucket and use a Dataproc cluster to finish the job
- D. Move all the data into 1 region, then launch a Google Cloud Dataproc cluster to run the job

Answer: C

Explanation:
Storageguarantees 2 replicates which are geo diverse (100 miles apart) which can get better remote latency and availability.
More importantly, is that multiregional heavily leverages Edge caching and CDNs to provide the content to the end users.
All this redundancy and caching means that Multiregional comes with overhead to sync and ensure consistency between geo-diverse areas. As such, it's much better for write-once-read-many scenarios. This means frequently accessed (e.g. "hot" objects) around the world, such as website content, streaming videos, gaming or mobile applications.
References: https://medium.com/google-cloud/google-cloud-storage-what-bucket-class-for-the-best- performance-5c847ac8f9f2

NEW QUESTION # 54
For this question, refer to the JencoMart case study.
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. Deploy a custom authentication service on GCE/Google Container Engine (GKE) for the on-premises infrastructure and use GCP managed keys for the 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. Provision service account keys for the on-premises infrastructure and for the GCE virtual machines (VMs).

Answer: D

Explanation:
Explanation
https://cloud.google.com/iam/docs/understanding-service-accounts
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
Topic 4, Dress4Win case study
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NEW QUESTION # 55
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