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Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q257-Q262):

NEW QUESTION # 257

Your web application has several VM instances running within a VPC. You want to restrict communications between instances to only the paths and ports you authorize, but you don't want to rely on static IP addresses or subnets because the app can autoscale. How should you restrict communications?

- A. Use separate VPCs to restrict traffic
- B. Use service accounts and configure the web application particular service accounts to have access
- C. Use firewall rules based on network tags attached to the compute instances
- D. Use Cloud DNS and only allow connections from authorized hostnames

Answer: C

NEW QUESTION # 258

Your company is planning to perform a lift and shift migration of their Linux RHEL 6.5+ virtual machines. The virtual machines are running in an on-premises VMware environment. You want to migrate them to Compute Engine following Google-recommended practices. What should you do?

- A. 1. Perform an assessment of virtual machines running in the current VMware environment.
2. Install a third-party agent on all selected virtual machines.
3. Migrate all virtual machines into Compute Engine.
- B. 1. Perform an assessment of virtual machines running in the current VMware environment.
2. Create images of all disks. Import disks on Compute Engine.
3. Create standard virtual machines where the boot disks are the ones you have imported.
- C. 1. Perform an assessment of virtual machines running in the current VMware environment.
2. Define a migration plan, prepare a Migrate for Compute Engine migration RunBook, and execute the migration.
- D. 1. Define a migration plan based on the list of the applications and their dependencies.
2. Migrate all virtual machines into Compute Engine individually with Migrate for Compute Engine.

Answer: C

Explanation:

The framework illustrated in the preceding diagram has four phases:

- * Assess. In this phase, you assess your source environment, assess the workloads that you want to migrate to Google Cloud, and assess which VMs support each workload.
- * Plan. In this phase, you create the basic infrastructure for Migrate for Compute Engine, such as provisioning the resource hierarchy and setting up network access.
- * Deploy. In this phase, you migrate the VMs from the source environment to Compute Engine.
- * Optimize. In this phase, you begin to take advantage of the cloud technologies and capabilities.

NEW QUESTION # 259

Case Study: 2 - TerramEarth Case Study

Company Overview

TerramEarth manufactures heavy equipment for the mining and agricultural industries: About 80% of their business is from mining and 20% from agriculture. They currently have over 500 dealers and service centers in 100

countries. Their mission is to build products that make their customers more productive.

Company Background

TerramEarth formed in 1946, when several small, family owned companies combined to retool after World War II. The company cares about their employees and customers and considers them to be extended members of their family.

TerramEarth is proud of their ability to innovate on their core products and find new markets as their customers' needs change. For the past 20 years trends in the industry have been largely toward increasing productivity by using larger vehicles with a human operator.

Solution Concept

There are 20 million TerramEarth vehicles in operation that collect 120 fields of data per second.

Data is stored locally on the vehicle and can be accessed for analysis when a vehicle is serviced.

The data is downloaded via a maintenance port. This same port can be used to adjust operational parameters, allowing the vehicles to be upgraded in the field with new computing modules.

Approximately 200,000 vehicles are connected to a cellular network, allowing TerramEarth to collect data directly. At a rate of 120 fields of data per second, with 22 hours of operation per day.

TerramEarth collects a total of about 9 TB/day from these connected vehicles.

Existing Technical Environment



TerramEarth's existing architecture is composed of Linux-based systems that reside in a data center. These systems gzip CSV files from the field and upload via FTP, transform and aggregate them, and place the data in their data warehouse. Because this process takes time, aggregated reports are based on data that is 3 weeks old.

With this data, TerramEarth has been able to preemptively stock replacement parts and reduce unplanned downtime of their vehicles by 60%. However, because the data is stale, some customers are without their vehicles for up to 4 weeks while they wait for replacement parts.

Business Requirements

- Decrease unplanned vehicle downtime to less than 1 week, without increasing the cost of carrying surplus inventory
- Support the dealer network with more data on how their customers use their equipment IP better position new products and services.
- Have the ability to partner with different companies—especially with seed and fertilizer suppliers in the fast-growing agricultural business—to create compelling joint offerings for their customers

CEO Statement

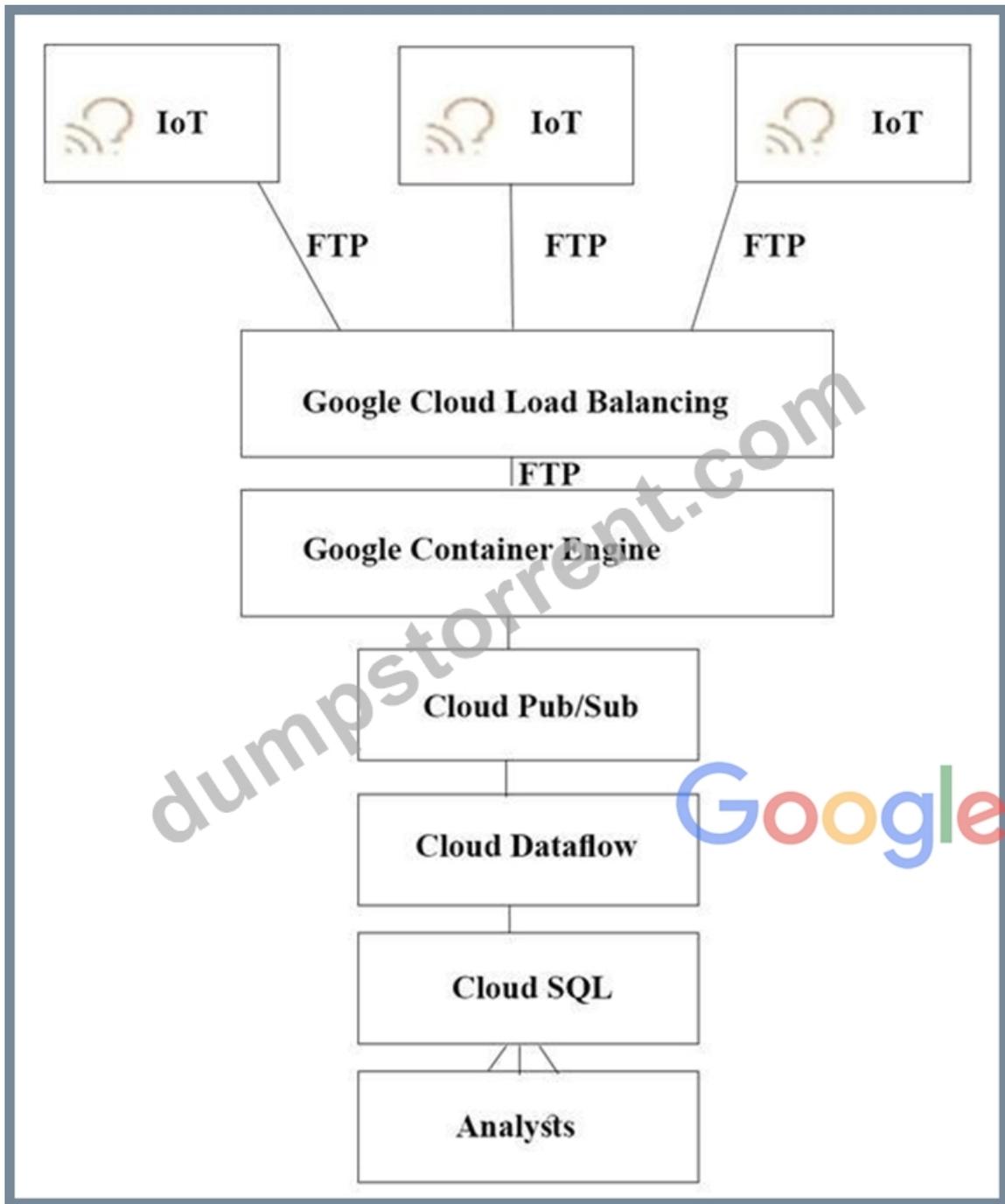
We have been successful in capitalizing on the trend toward larger vehicles to increase the productivity of our customers.

Technological change is occurring rapidly and TerramEarth has taken advantage of connected devices technology to provide our customers with better services, such as our intelligent farming equipment. With this technology, we have been able to increase farmers' yields by 25%, by using past trends to adjust how our vehicles operate. These advances have led to the rapid growth of our agricultural product line, which we expect will generate 50% of our revenues by 2020.

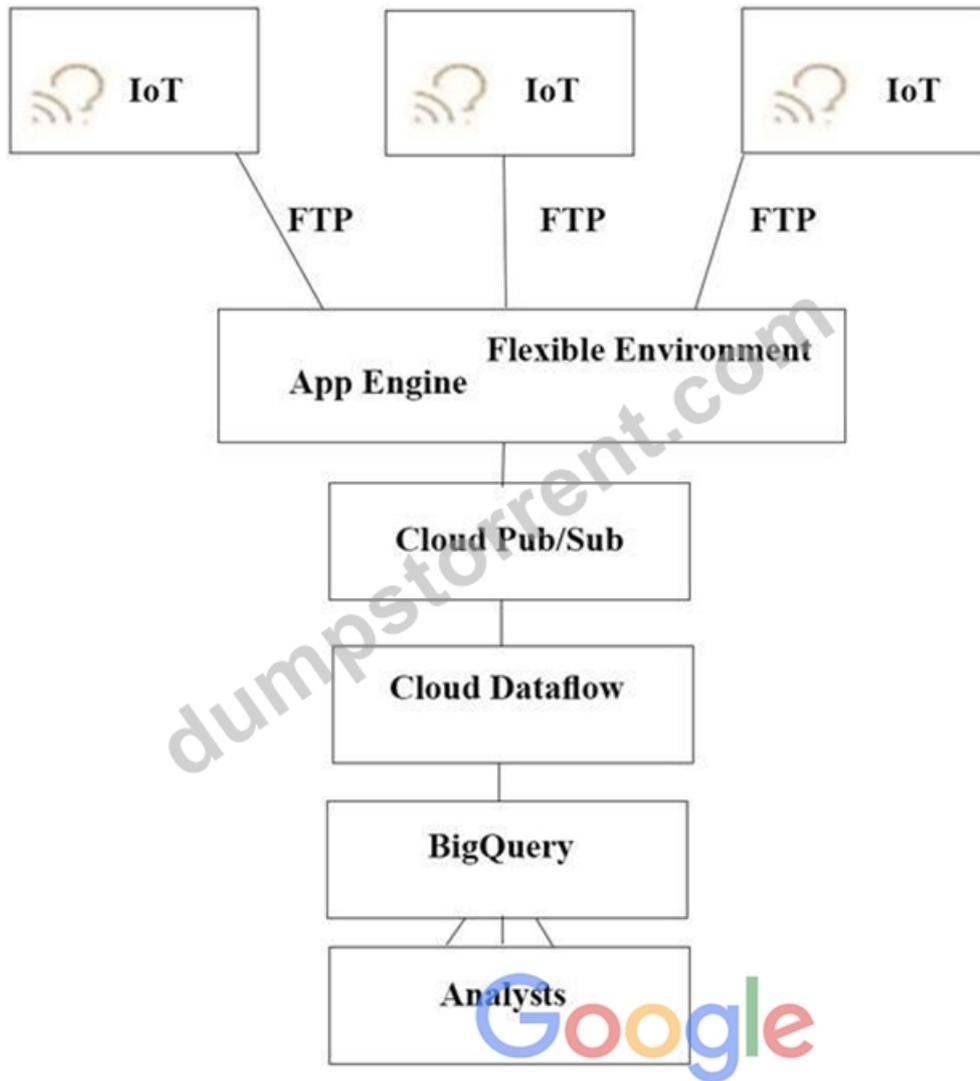
CTO Statement

Our competitive advantage has always been in the manufacturing process with our ability to build better vehicles for tower cost than our competitors. However, new products with different approaches are constantly being developed, and I'm concerned that we lack the skills to undergo the next wave of transformations in our industry. Unfortunately, our CEO doesn't take technology obsolescence seriously and he considers the many new companies in our industry to be niche players. My goals are to build our skills while addressing immediate market needs through incremental innovations.

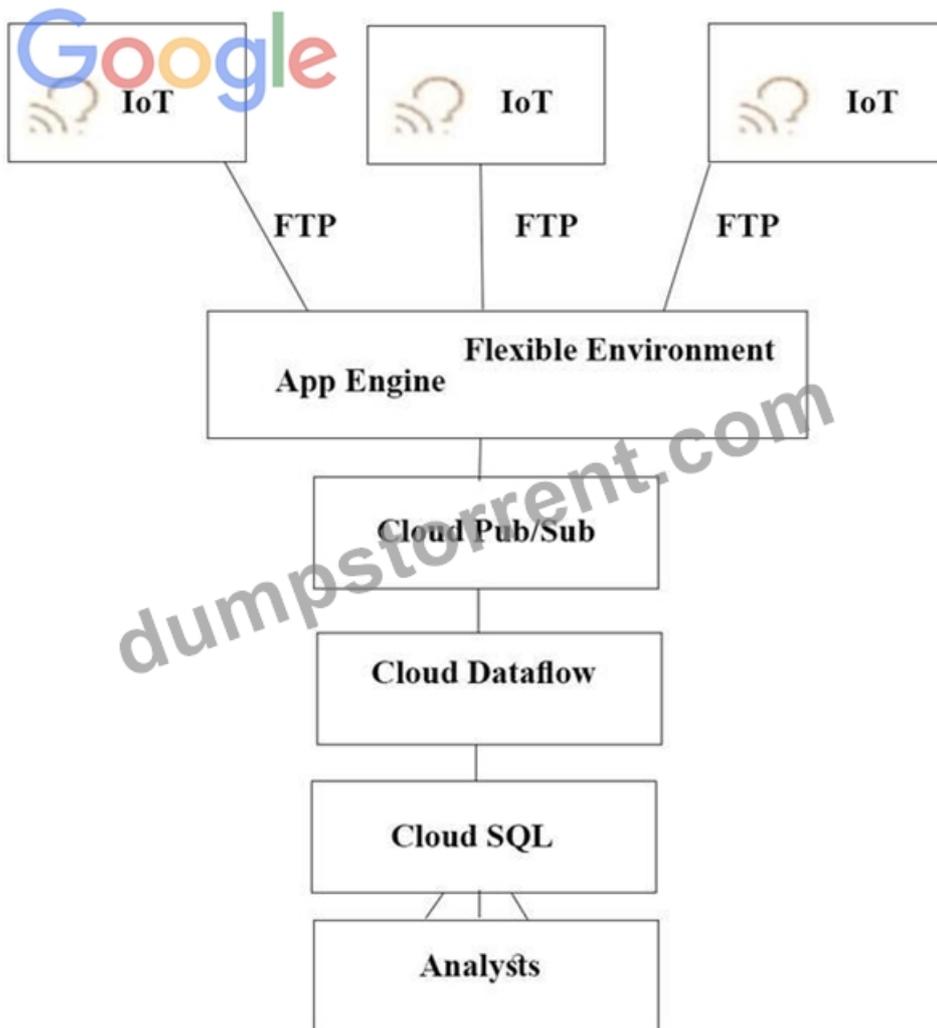
For this question, refer to the TerramEarth case study. TerramEarth's CTO wants to use the raw data from connected vehicles to help identify approximately when a vehicle in the field will have a catastrophic failure. You want to allow analysts to centrally query the vehicle data. Which architecture should you recommend?



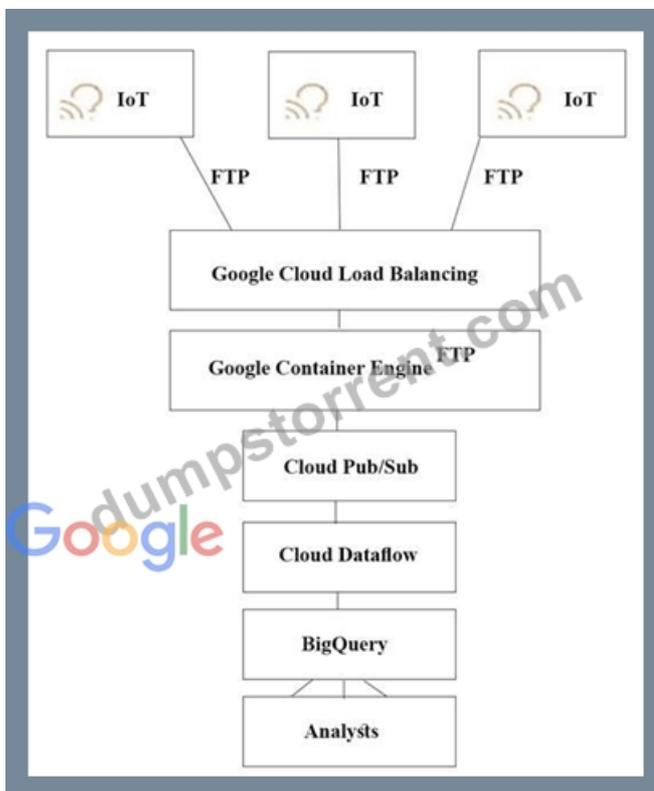
• A.



- B.



• C.



• D.

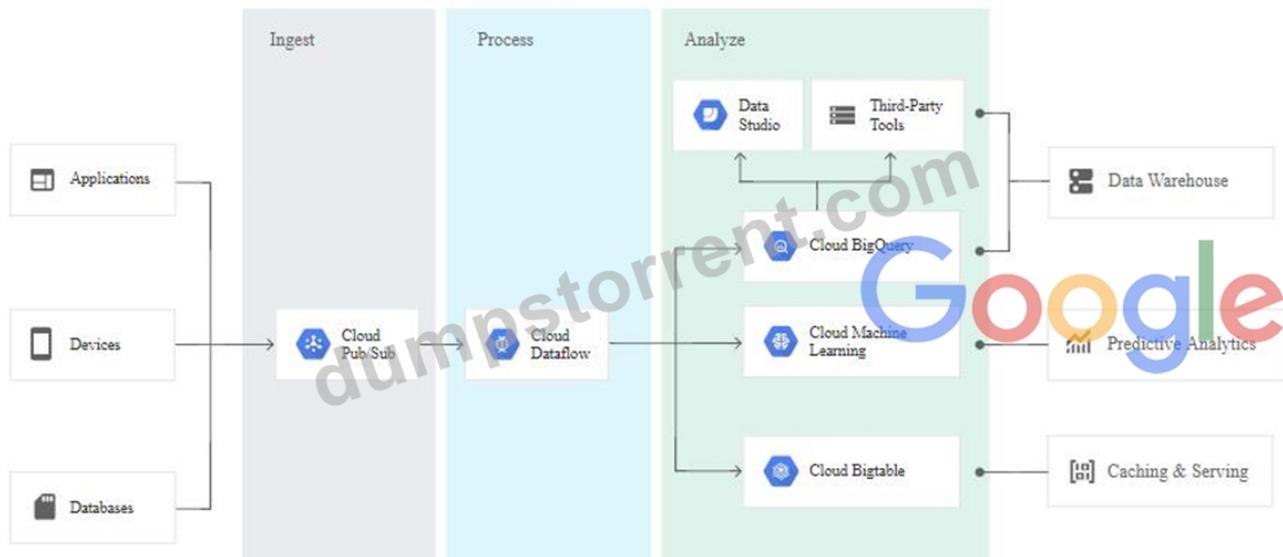
Answer: D

Explanation:

The push endpoint can be a load balancer.

A container cluster can be used.

Cloud Pub/Sub for Stream Analytics



References: <https://cloud.google.com/pubsub/>

<https://cloud.google.com/solutions/iot/>

<https://cloud.google.com/solutions/designing-connected-vehicle-platform>

https://cloud.google.com/solutions/designing-connected-vehicle-platform#data_ingestion

<http://www.eweek.com/big-data-and-analytics/google-touts-value-of-cloud-iot-core-for-analyzing-connected-car-data>

<https://cloud.google.com/solutions/iot/>

NEW QUESTION # 260

You need to develop procedures to test a disaster plan for a mission-critical application. You want to use Google-recommended practices and native capabilities within GCP.

What should you do?

- A. Use Deployment Manager to automate service provisioning. Use Stackdriver to monitor and debug your tests.
- B. Use gcloud scripts to automate service provisioning. Use Stackdriver to monitor and debug your tests.
- C. Use Deployment Manager to automate service provisioning. Use Activity Logs to monitor and debug your tests.
- D. Use gcloud scripts to automate service provisioning. Use Activity Logs monitor and debug your tests.

Answer: A

NEW QUESTION # 261

Your company wants to migrate their 10-TB on-premises database export into Cloud Storage. You want to minimize the time it takes to complete this activity, the overall cost and database load. The bandwidth between the on-premises environment and Google Cloud is 1 Gbps. You want to follow Google-recommended practices. What should you do?

- A. Use a commercial partner ETL solution to extract the data from the on-premises database and upload it into Cloud Storage.
- B. Develop a Dataflow job to read data directly from the database and write it into Cloud Storage.
- C. Use the Data Transfer appliance to perform an offline migration.
- D. Compress the data and upload it with `gsutil -m` to enable multi-threaded copy.

Answer: C

Explanation:

The Data Transfer appliance is a Google-provided hardware device that can be used to transfer large amounts of data from on-premises environments to Cloud Storage. It is suitable for scenarios where the bandwidth between the on-premises environment and Google Cloud is low or insufficient, and the data size is large. The Data Transfer appliance can minimize the time it takes to complete the migration, the overall cost and database load, by avoiding network bottlenecks and reducing bandwidth consumption. The Data

Transfer appliance also encrypts the data at rest and in transit, ensuring data security and privacy. The other options are not optimal for this scenario, because they either require a high-bandwidth network connection (B, C, D), or incur additional costs and complexity (B, C). Reference:

<https://cloud.google.com/data-transfer-appliance/docs/overview>

<https://cloud.google.com/blog/products/storage-data-transfer/introducing-storage-transfer-service-for-on-premises-data>

NEW QUESTION # 262

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