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Google Certified Professional Data Engineer Exam Sample Questions (Q225-Q230):

NEW QUESTION # 225

MJTelco's Google Cloud Dataflow pipeline is now ready to start receiving data from the 50,000 installations. You want to allow Cloud Dataflow to scale its compute power up as required. Which Cloud Dataflow pipeline configuration setting should you update?

- **A. The zone**
- B. The number of workers
- C. The maximum number of workers
- D. The disk size per worker

Answer: A

NEW QUESTION # 226

Which of these is NOT a way to customize the software on Dataproc cluster instances?

- A. Set initialization actions
- B. Modify configuration files using cluster properties
- C. Log into the master node and make changes from there
- **D. Configure the cluster using Cloud Deployment Manager**

Answer: D

Explanation:

You can access the master node of the cluster by clicking the SSH button next to it in the Cloud Console.

You can easily use the `--properties` option of the `dataproc` command in the Google Cloud SDK to modify many common configuration files when creating a cluster.

When creating a Cloud Dataproc cluster, you can specify initialization actions in executables and/or scripts that Cloud Dataproc will run on all nodes in your Cloud Dataproc cluster immediately after the cluster is set up.

[<https://cloud.google.com/dataproc/docs/concepts/configuring-clusters/init-actions>] Reference:

<https://cloud.google.com/dataproc/docs/concepts/configuring-clusters/cluster-properties>

NEW QUESTION # 227

Your company's customer and order databases are often under heavy load. This makes performing analytics against them difficult without harming operations. The databases are in a MySQL cluster, with nightly backups taken using `mysqldump`. You want to perform analytics with minimal impact on operations.

What should you do?

- A. Add a node to the MySQL cluster and build an OLAP cube there.
- **B. Connect an on-premises Apache Hadoop cluster to MySQL and perform ETL.**
- C. Mount the backups to Google Cloud SQL, and then process the data using Google Cloud Dataproc.
- D. Use an ETL tool to load the data from MySQL into Google BigQuery.

Answer: B

NEW QUESTION # 228

You are developing an Apache Beam pipeline to extract data from a Cloud SQL instance by using `JdbcIO`. You have two projects running in Google Cloud. The pipeline will be deployed and executed on Dataflow in Project A.

The Cloud SQL instance is running in Project B and does not have a public IP address. After deploying the pipeline, you noticed that the pipeline failed to extract data from the Cloud SQL instance due to connection failure. You verified that VPC Service Controls and shared VPC are not in use in these projects. You want to resolve this error while ensuring that the data does not go through the public internet. What should you do?

- A. Add the external IP addresses of the Dataflow worker as authorized networks in the Cloud SQL instance.
- B. Set up VPC Network Peering between Project A and Project B. Add a firewall rule to allow the peered subnet range to access all instances on the network.
- C. Turn off the external IP addresses on the Dataflow worker. Enable Cloud NAT in Project A.
- **D. Set up VPC Network Peering between Project A and Project B. Create a Compute Engine instance without external IP address in Project B on the peered subnet to serve as a proxy server to the Cloud SQL database.**

Answer: D

Explanation:

Option A is incorrect because VPC Network Peering alone does not enable connectivity to Cloud SQL instances with private IP addresses. You also need to configure private services access and allocate an IP address range for the service producer network¹.

Option B is incorrect because Cloud NAT does not support Cloud SQL instances with private IP addresses. Cloud NAT only provides outbound connectivity for resources that do not have public IP addresses, such as VMs, GKE clusters, and serverless instances².

Option C is correct because it allows you to use a Compute Engine instance as a proxy server to connect to the Cloud SQL database over the peered network. The proxy server does not need an external IP address because it can communicate with the

Dataflow workers and the Cloud SQL instance using internal IP addresses. You need to install the Cloud SQL Auth proxy on the proxy server and configure it to use a service account that has the Cloud SQL Client role.

Option D is incorrect because it requires you to assign public IP addresses to the Dataflow workers, which exposes the data to the public internet. This violates the requirement of ensuring that the data does not go through the public internet. Moreover, adding authorized networks does not work for Cloud SQL instances with private IP addresses.

NEW QUESTION # 229

You are migrating your on-premises data warehouse to BigQuery. One of the upstream data sources resides on a MySQL database that runs in your on-premises data center with no public IP addresses. You want to ensure that the data ingestion into BigQuery is done securely and does not go through the public internet.

What should you do?

- A. Update your existing on-premises ETL tool to write to BigQuery by using the BigQuery Open Database Connectivity (ODBC) driver. Set up the proxy parameter in the `Simba.googlebigqueryodbc.ini` file to point to your data center's NAT gateway.
- B. Use Datastream to replicate data from your on-premises MySQL database to BigQuery. Gather Datastream public IP addresses of the Google Cloud region that will be used to set up the stream. Add those IP addresses to the firewall allowlist of your on-premises data center. Use IP Allowlisting as the connectivity method and Server-only as the encryption type when setting up the connection profile in Datastream.
- C. Use Datastream to replicate data from your on-premises MySQL database to BigQuery. Use Forward-SSH tunnel as the connectivity method to establish a secure tunnel between Datastream and your on-premises MySQL database through a tunnel server in your on-premises data center. Use None as the encryption type when setting up the connection profile in Datastream.
- D. Use Datastream to replicate data from your on-premises MySQL database to BigQuery. Set up Cloud Interconnect between your on-premises data center and Google Cloud. Use Private connectivity as the connectivity method and allocate an IP address range within your VPC network to the Datastream connectivity configuration. Use Server-only as the encryption type when setting up the connection profile in Datastream.

Answer: D

Explanation:

To securely ingest data from an on-premises MySQL database into BigQuery without routing through the public internet, using Datastream with Private connectivity over Cloud Interconnect is the best approach.

Here's why:

* Datastream for Data Replication:

* Datastream provides a managed service for data replication from various sources, including on-premises databases, to Google Cloud services like BigQuery.

* Cloud Interconnect:

* Cloud Interconnect establishes a private connection between your on-premises data center and Google Cloud, ensuring that data transfer occurs over a secure, private network rather than the public internet.

* Private Connectivity:

* Using Private connectivity with Datastream leverages the established Cloud Interconnect to securely connect your on-premises MySQL database with Google Cloud. This method ensures that the data does not traverse the public internet.

* Encryption:

* Using Server-only encryption ensures that data is encrypted in transit between Datastream and BigQuery, adding an extra layer of security.

Steps to Implement:

* Set Up Cloud Interconnect:

* Establish a Cloud Interconnect between your on-premises data center and Google Cloud to create a private connection.

* Configure Datastream:

* Set up Datastream to use Private connectivity as the connection method and allocate an IP address range within your VPC network.

* Use Server-only encryption to ensure secure data transfer.

* Create Connection Profile:

* Create a connection profile in Datastream to define the connection parameters, including the use of Cloud Interconnect and Private connectivity.

Reference Links:

* Datastream Documentation

* Cloud Interconnect Documentation

* Setting Up Private Connectivity in Datastream

NEW QUESTION # 230

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