Assignment and Exam Content

Cloud pubsub

Cloud Gurus Seattle, USA Training material

Always Delete your Cloud Resources to Avoid \$\$ Charges.

Cloud Pub/Sub Lab

Cloud Pub/Sub Lab Contains following topics

Create Topic , Create Subscriptions , Publish topic and Pull Message

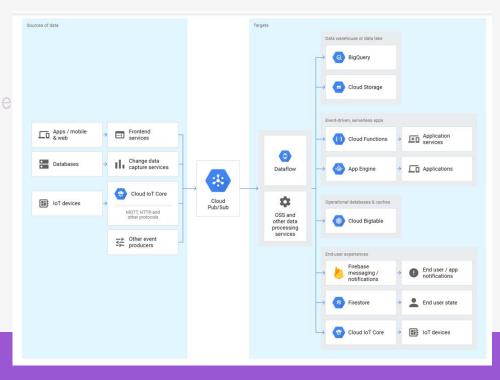
Console and CLI

B Create Cloud Storage Notification using Cloud PubSub (Console and CLI) aterial

C Exam TIPS

Cloud Pub/Sub is a fully-managed real-time messaging service that allows you to send and receive messages between independent applications.

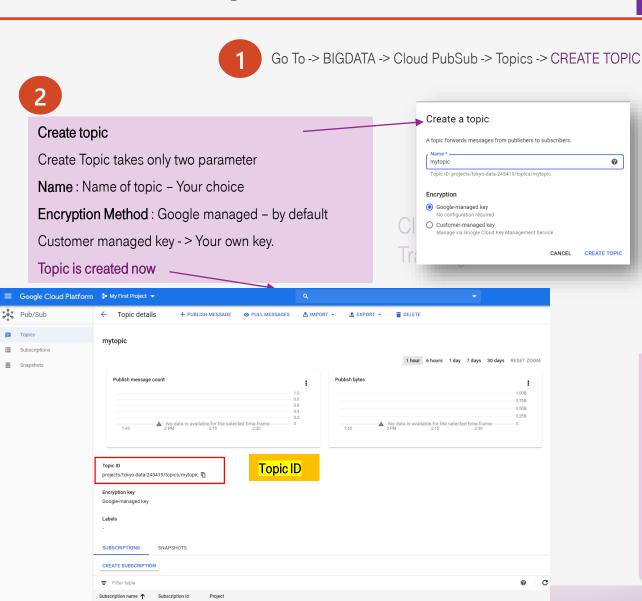
https://cloud.google.com/pubsub/

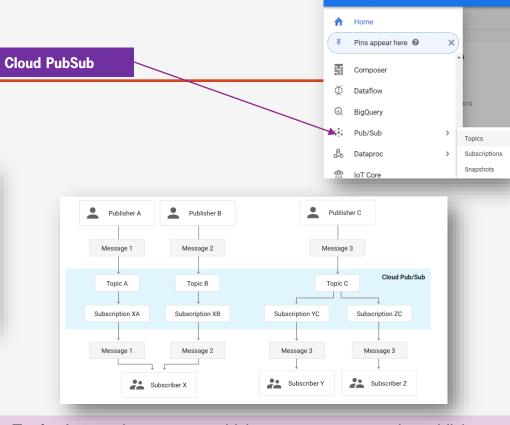


Always Delete your Cloud Resources to Avoid \$\$ Charges.



Create PubSub Topic





■ Google Cloud Platform My First Project

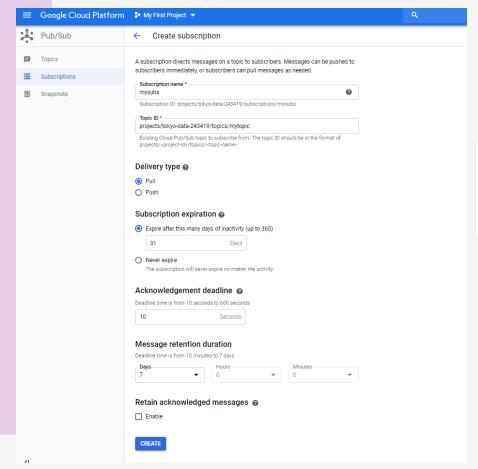
- •Topic: A named resource to which messages are sent by publishers.
- •Subscription: A named resource representing the stream of messages from a single, specific topic, to be delivered to the subscribing application. For more details about subscriptions and message delivery semantics, see the Subscriber Guide.
- •Message: The combination of data and (optional) attributes that a publisher sends to a topic and is eventually delivered to subscribers.
- •Message attribute: A key-value pair that a publisher can define for a message. For example, keyiana.org/language_tag and value en could be added to messages to mark them as readable by an English-speaking subscriber.



Create PubSub Subscription



Create Subscription Provide name of subscription Topic ID - from topic created. **Delivery Type** – Pull and Push Subscription expiry in number of days or you can choose non Expiry. Acknowledgement deadline for delivery of message. - 10 Sec by default Message retention duration - Amount of time the message saved Retain ack. Messages: Saved for 7 days if enabled.



Push Delivery type needs endpoint URL

Delivery type
Pull
Push

Endpoint URL*
Endpoint URL is required for push subscriptions.

Enable authentication Learn More

Your subscriptions is created.



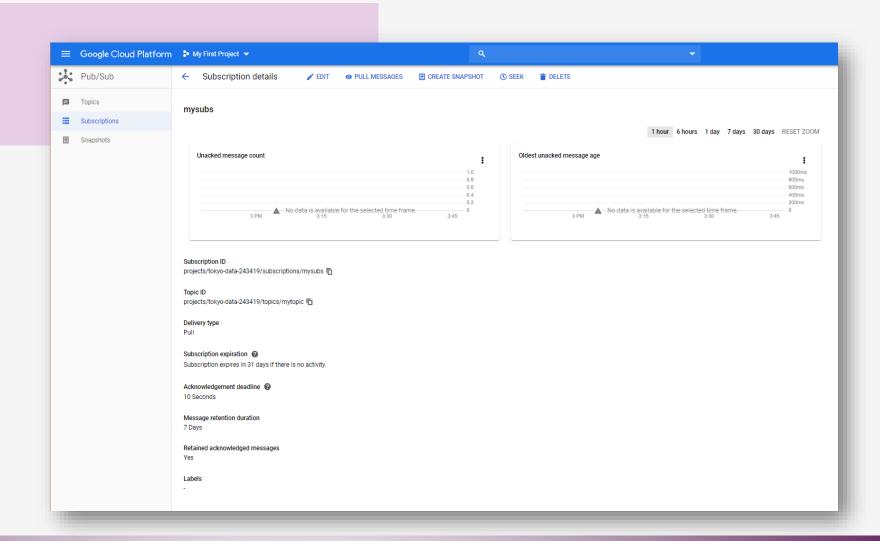
Cloud Pub/Sub -

Subscriptions Details -

Observe subscription ID, Topic ID, Monitoring Graphs

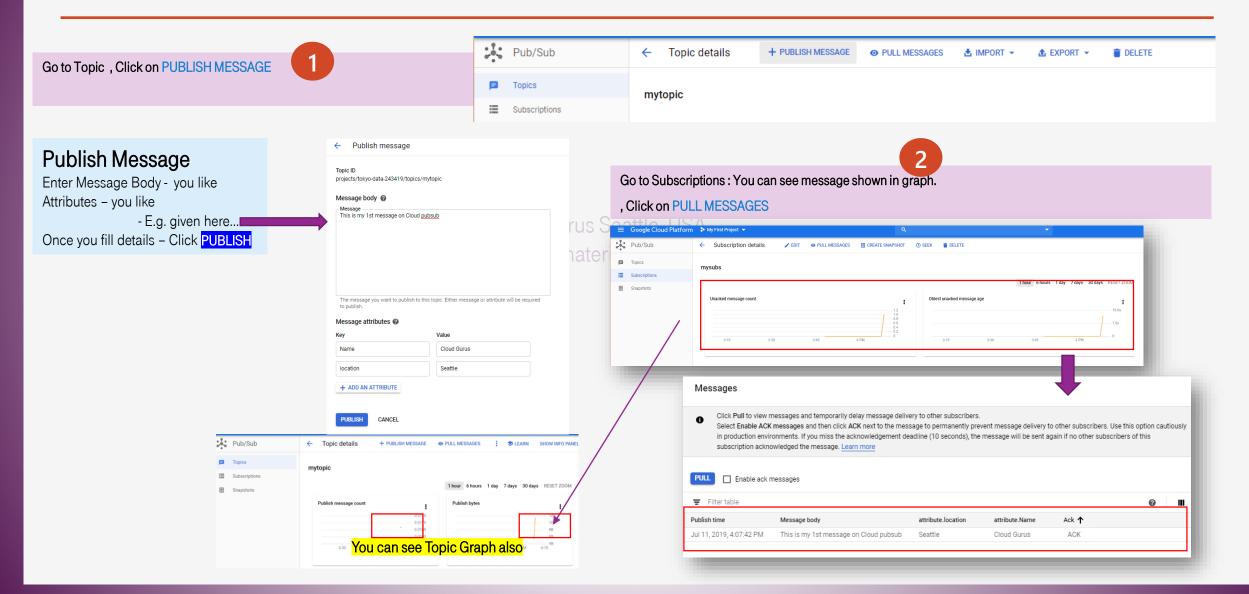
Pull Messages

You can also create Snapshots -





Cloud Pub/sub - Publish and Pull message





Try Sample Commands using CLI.



Create Topic

gcloud pubsub topics create my-topic

Create Subscription

gcloud pubsub subscriptions create -topic my-topic my-sub

Publish Message on Topic

gcloud pubsub topics publish my-topic -message "hello"

Pull Message using Subscriptions

gcloud pubsub subscriptions pull –auto-ack my-sub gcloud pubsub subscriptions pull –auto-ack cloudstorage gcloud pubsub subscriptions pull –auto-ack cloudstorage

Gsutils used for Cloud Storage

Seattle, USA

Update Dataset

bq update –description "Description of mydataset" mydataset bq update –default_table_expiration 7200 mydataset

Remove

bq rm -r -f -d [PROJECT_ID]:[DATASET]

Access Control Access.

bq show –format=prettyjson [PROJECT_ID]:[DATASET] > [PATH_TO_FILE] bq update –source [PATH_TO_FILE] [PROJECT_ID]:[DATASET]

Listing Dataset

Listing

bq ls --format=prettyjson --project_id bq ls --format=prettyjson

bq show –format=prettyjson [PROJECT_ID]:[DATASET]
bq query –nouse_legacy_sql \
'SELECT * EXCEPT(schema_owner) FROM INFORMATION_SCHEMA.SCHEMATA'



Try Yourself - Follow demo and create Cloud Storage Notifications on Cloud PubSub



Cloud Storage Notification

Create Cloud Storage Bucket

gsutil notification create -f json gs://mycsdemobucket gsutil notification create -f json -t files-to-process gs://example-bucket gsutil notification create -p photos/ gs://example-bucket gsutil notification list gs://example-bucket gsutil notification delete gs://example-bucket gsutil notification delete projects/_/buckets/example-bucket/notificationConfigs/1

Pull the message from Cloud PubSub.

gcloud pubsub subscriptions pull –auto-ack mycsdemobucket gcloud pubsub subscriptions create –topic mycsdemobucket mycs gcloud pubsub subscriptions pull –auto-ack mycs Gsutils used for Cloud Storage

Any Problems executing – Please check Demo for Cloud Pub Sub.

Cloud Pub/Sub: Try Yourself

1

Try Different Notifications - Cloud Function / Cloud Storage

Delete all Topics and Subscriptions

2 Exam Tips

Important concepts are

- 1. Integration framework High performance
- 2. Scalability Fully Scalable integration framework
- 3. Automatic Scalable No infrastructure to manage.

loud Gurus Seattle, USA

Always Delete your Cloud Resources to Avoid \$\$ Charges.

Cloud Pub/Sub

Cloud Gurus Seattle, USA Training material

End of Cloud Pub/Sub Assignment