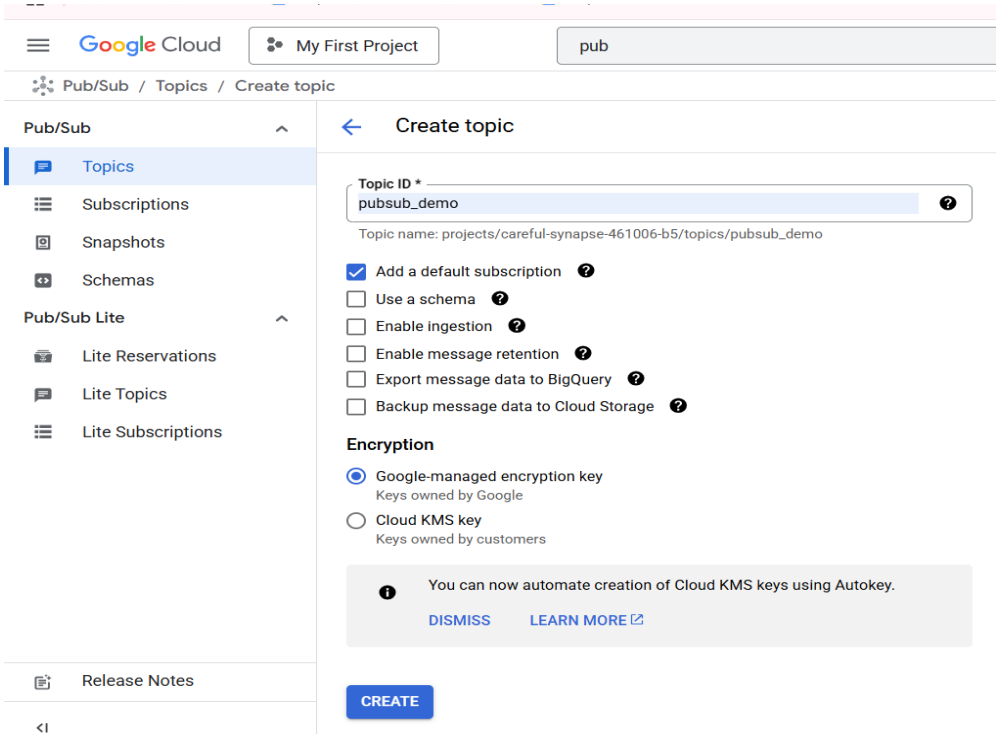
GCP Pub/Sub Implementation

This document provides a step-by-step guide to implementing Google Cloud Pub/Sub to Pub/Sub "GCP Pub/Sub Introduction | Create Topic, Subscription and Publish Messages, GCP Console and Cloud shell"

1. CREATE A PUB/SUB TOPIC:

• In the Google Cloud Console, go to the Pub/Sub section.
• Click on Create Topic.
• Enter a name for your topic (e.g. Pubsub_demo).
• Click Create to finalize the topic creation.

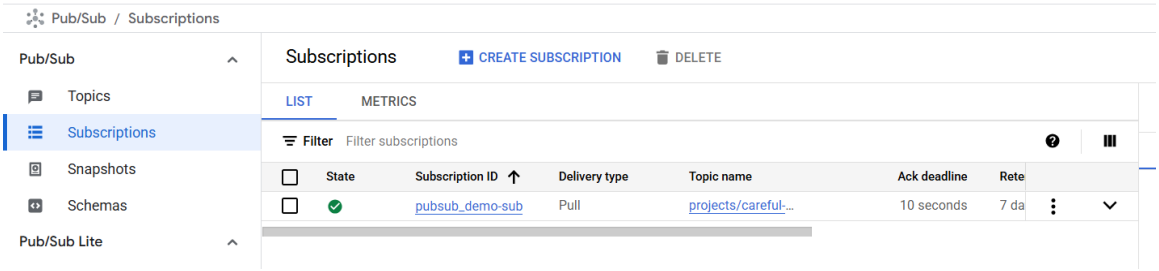


2. CREATE A SUBSCRIPTION:

• Within the same Pub/Sub section, select your newly created topic.
• Click on Create Subscription.
• Provide a name for the subscription (e.g., your-subscription-name).
• Choose the delivery type (Pull or Push).
• Configure other settings as needed, then click Create.

OR:

- In previously we creating topic there we select “add a default subscription”
- Go to Subscription
- View the default subscription are created.

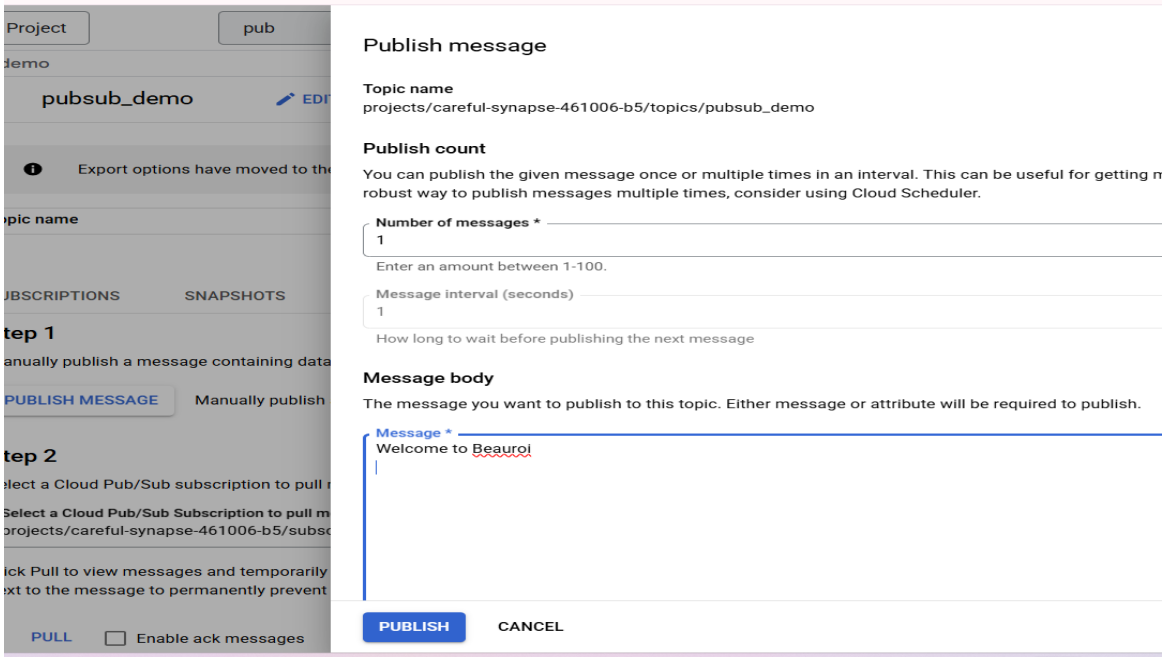


3. PUBLISH MESSAGES TO THE TOPIC:

We can publish messages using the Google Cloud Console.

Using Google Cloud Console:

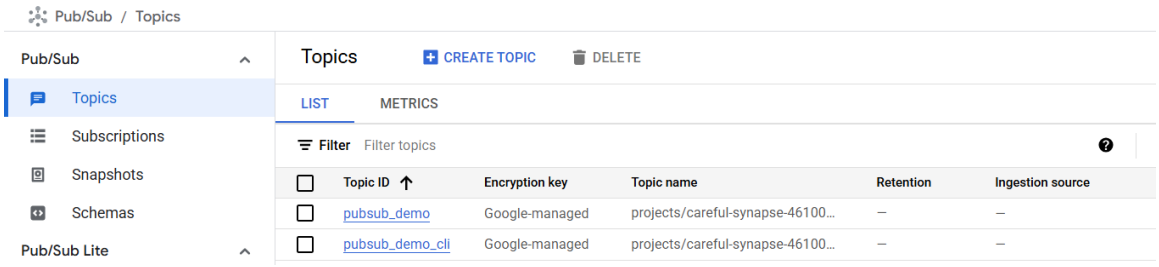
- Navigate to your topic in the Pub/Sub section.
- Choose subscription path
- Click on Publish Message
- Enter a message in the Message Body field.
- Click Publish to send the message to the topic.
- Click the Pull icon.
- View the output.



4. IMPLEMENTING GOOGLE CLOUD PUB/SUB IN THE COMMAND-LINE INTERFACE (CLI).

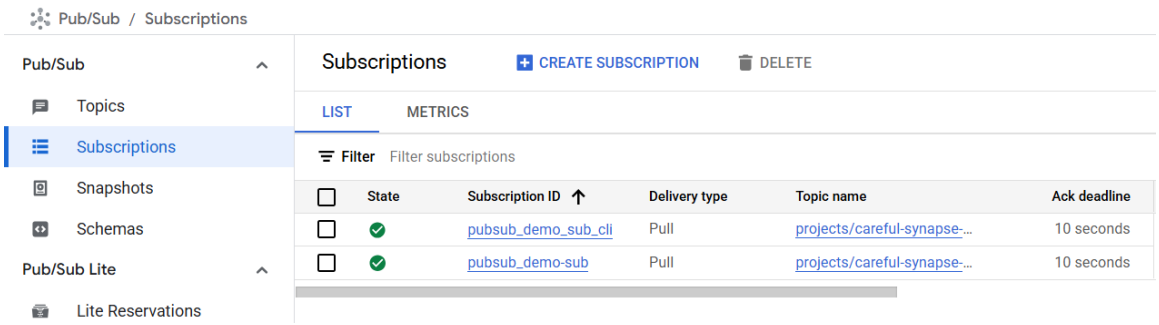
I. CREATE TOPIC:

COMMAND: gcloud pubsub topics create pubsub_demo_cli



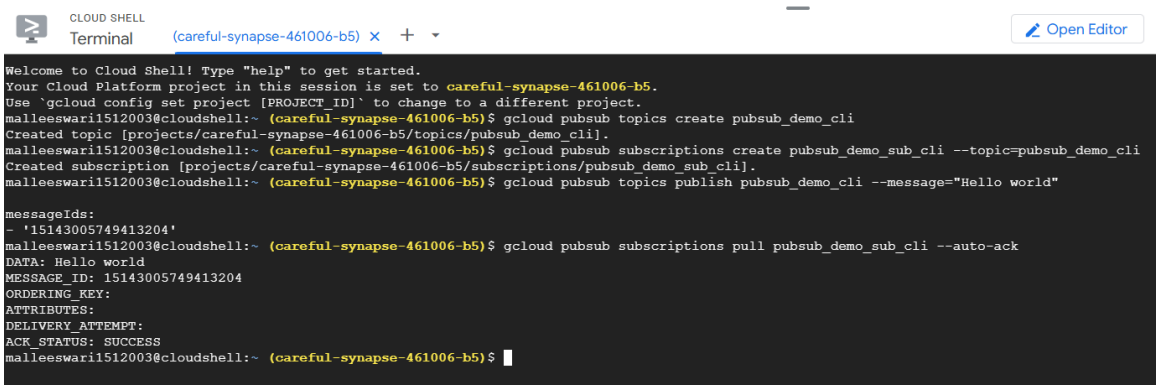
II. CREATE SUBSCRIPTION:

COMMAND: gcloud pubsub subscriptions create pubsub_demo_sub_cli--topic=pubsub_demo_cli



III. PUBLISH MESSAGE TO TOPIC:

COMMAND: gcloud pubsub topics publish pubsub_demo_cli --message="Hello world"

IV. RECEIVE MESSAGES:

COMMAND: gcloud pubsub subscriptions pull pubsub_demo_sub_cli --auto-ack