Pub/Sub: Qwik Start - Console

Activate Cloud Shell

Cloud Shell is a virtual machine that is loaded with development tools. It offers a persistent 5GB home directory and runs on the Google Cloud. Cloud Shell provides command-line access to your Google Cloud resources.

- 1. Click **Activate Cloud Shell** 2 at the top of the Google Cloud console.
- 2. Click through the following windows:
 - Continue through the Cloud Shell information window.
 - Authorize Cloud Shell to use your credentials to make Google Cloud API calls.

When you are connected, you are already authenticated, and the project is set to your **Project_ID**, **PROJECT_ID**. The output contains a line that declares the **Project_ID** for this session:

Your Cloud Platform project in this session is set to "PROJECT ID" gcloud is the command-line tool for Google Cloud. It comes pre-installed on Cloud Shell and supports tab-completion.

3. (Optional) You can list the active account name with this command: ${\tt gcloud}$ auth ${\tt list}$

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4. Click Authorize.

Output:

```
ACTIVE: *
ACCOUNT: "ACCOUNT"

To set the active account, run:
$ gcloud config set account `ACCOUNT`
```

5. (Optional) You can list the project ID with this command: gcloud config list project Copied!

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Output:

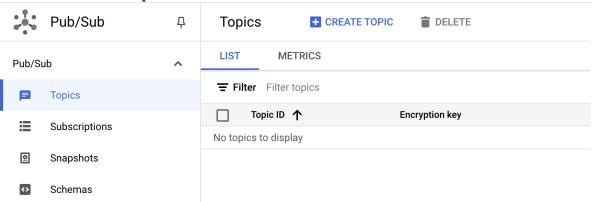
```
[core]
project = "PROJECT ID"
```

Note: For full documentation of gcloud, in Google Cloud, refer to the gcloud CLI overview guide.

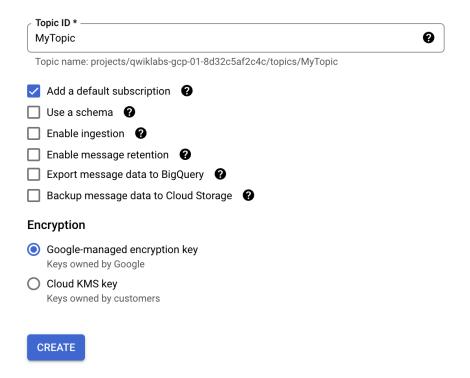
Task 1. Setting up Pub/Sub

To use Pub/Sub, you create a topic to hold data and a subscription to access data published to the topic.

- 1. From the **Navigation menu** () click **View All Products**. Go to **Analytics** section, click **Pub/Sub** > **Topics**.
- 2. Click **Create topic**.



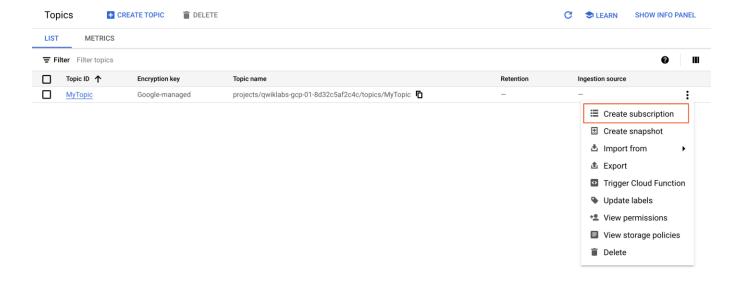
- 3. The topic must have a unique name. For this lab, name your topic MyTopic. In the **Create a topic** dialog:
 - For **Topic ID**, type MyTopic.
 - Leave other fields at their default value.
 - Click Create.



Task 2. Add a subscription

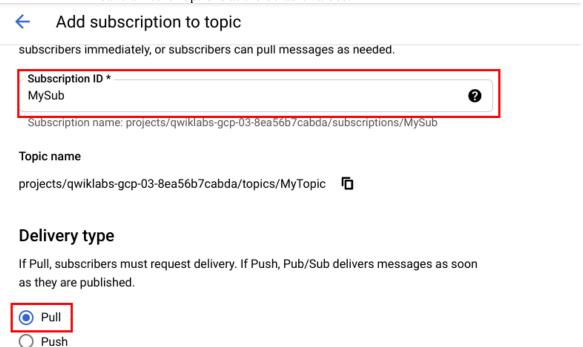
Now you'll make a subscription to access the topic.

1. Click **Topics** in the left panel to return to the **Topics** page. For the topic you just made click the three dot icon > **Create subscription**.



2. In the **Add subscription to topic** dialog:

- Type a name for the subscription, such as MySub
- Set the Delivery Type to **Pull**.
- Leave all other options at the default values.



3. Click Create.

Your subscription is listed in the Subscription list.

Task 4. Publish a message to the topic

- 1. Navigate back to **pub/sub** > **Topics** and open **MyTopics** page.
- 2. In the Topics details page, click **Messages** tab and then click **Publish Message**.
- 3. Enter Hello World in the Message field and click Publish.

Publish message	
Topic name projects/qwiklabs-gcp-04-417eafdb59c9/topics/MyTopic	
Publish count	
You can publish the given message once or multiple times in an interval. This can be way to publish messages multiple times, consider using Cloud Scheduler.	euseful for getting messages in new subscriptions and testing. For a more robust
Number of messages *	
1	
Enter an amount between 1-100.	
Message interval (seconds)	
How long to wait before publishing the next message	
The message you want to publish to this topic. Either message or attribute will be re	quired to publish.
Hello World	
Message size should not exceed 10MB.	
Message attributes	
PUBLISH CANCEL	

Task 5. View the message

To view the message, use the subscription (MySub) to pull the message (Hello World) from the topic (MyTopic).

• Enter the following command in Cloud Shell:

```
gcloud pubsub subscriptions pull --auto-ack MySub
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```

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The message appears in the DATA field of the command output.

```
student_01_8545be9b812e@cloudshell:~ (qwiklabs-gcp-01-8d32c5af2c4c)$ gcloud pubsub subscriptions pull --auto-ack MySub DATA: Hello World
MESSAGE ID: 11938495658530057
ORDERING_KEY:
ATRIBUTES:
DELIVERY_ATTEMPT:
ACK_STATUS: SUCCESS
student_01_8545be9b812e@cloudshell:~ (qwiklabs-gcp-01-8d32c5af2c4c)$
```

You created a Pub/Sub topic, published to the topic, created a subscription, then used the subscription to pull data from the topic.