


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**  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**, `qwiklabs-gcp-01-ee869e25e1bf`. The output contains a line that declares the **Project_ID** for this session:

```
Your Cloud Platform project in this session is set to quiklabs-gcp-01-ee869e25e1bf
```

`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:
`gcloud auth list`

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4. Click **Authorize**.
Output:

```
ACTIVE: *  
ACCOUNT: student-01-18574e1091e2@qwiklabs.net  
  
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`


Output:

```
[core]  
project = qwiklabs-gcp-01-ee869e25e1bf
```

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**.

Topic ID * ?

Topic name: projects/qwiklabs-gcp-01-8d32c5af2c4c/topics/MyTopic

- ☒ Add a default subscription ?
- ☐ Use a schema ?
- ☐ Enable ingestion ?
- ☐ Enable message retention ?
- ☐ Export message data to BigQuery ?
- ☐ Backup message data to Cloud Storage ?

Encryption

- ☒ Google-managed encryption key
Keys owned by Google
- ☐ Cloud KMS key
Keys owned by customers

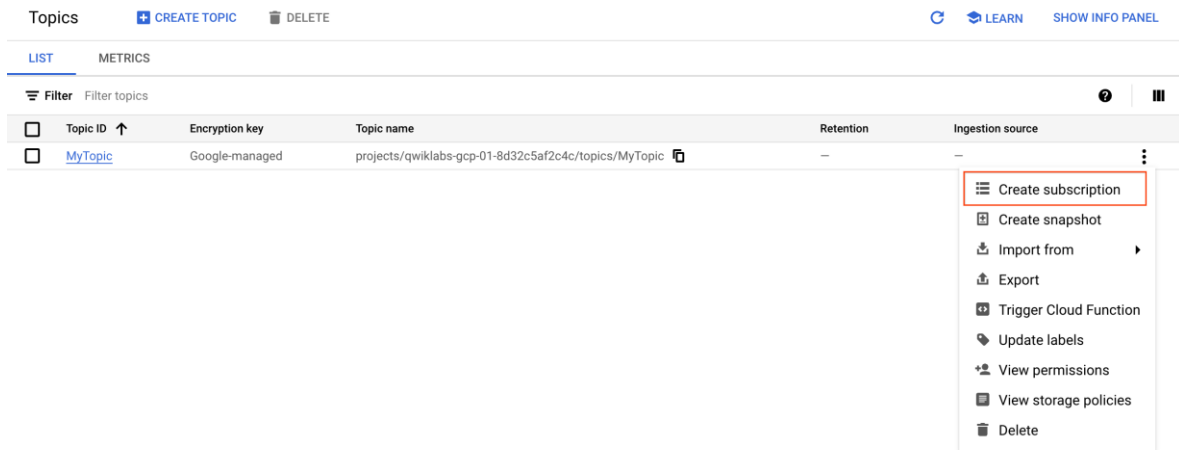
CREATE

You've created a topic.

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 useful for getting messages in new subscriptions and testing. For a more robust way to publish messages multiple times, consider using Cloud Scheduler.

Number of messages *

1

Enter an amount between 1-100.

Message interval (seconds)

1

How long to wait before publishing the next message

Message body

The message you want to publish to this topic. Either message or attribute will be required to publish.

Message *

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`

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:
ATTRIBUTES:
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.