Cloud Scheduler: Qwik Start

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-02-d7ea725c5087`. The output contains a line that declares the **Project_ID** for this session:

```
Your Cloud Platform project in this session is set to qwiklabs-gcp-02-d7ea725c5087
```

`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-b310a26a707e@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
```

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Output:

```
[core]
project = qwiklabs-gcp-02-d7ea725c5087
```

Set the region

Set the project region for this lab:

```
gcloud config set compute/region us-central1
```
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Task 1. Enable Cloud Scheduler API

1. Click on **APIs & services** > **Library**:
2. In the search bar, type in "scheduler", then click on the Cloud Scheduler API tile.

3. Click **Enable**.

Task 2. Set up Cloud Pub/Sub

1. Create a Pub/Sub topic to use as a target for your cron job:

```
gcloud pubsub topics create cron-topic
```
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This command creates a topic called `cron-topic`.

2. Make a note of the name, you will use it later.

3. Create a Cloud Pub/Sub subscription:

```
gcloud pubsub subscriptions create cron-sub --topic cron-topic
```
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You need this to view the results of your job.

Task 3. Create a job

1. Visit the **Cloud Scheduler** page in the console - you can use the **Navigation menu** or the search bar:
2. Click the **Create job** button.

3. Give your job a name and optionally add a description.

4. Specify the **frequency** for your job, using the unix-cron format for "every minute":

```
* * * * *
```
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5. Select your Timezone. Click **Continue**.

6. In the **Target type** field, select **Pub/Sub** topic from the dropdown menu.

7. Under **Select a Cloud Pub/Sub topic** dropdown select the topic you created earlier (`cron-topic`).

8. Add a **Message body** string to be sent to your Cloud Pub/Sub target:

9. Click **Create**.

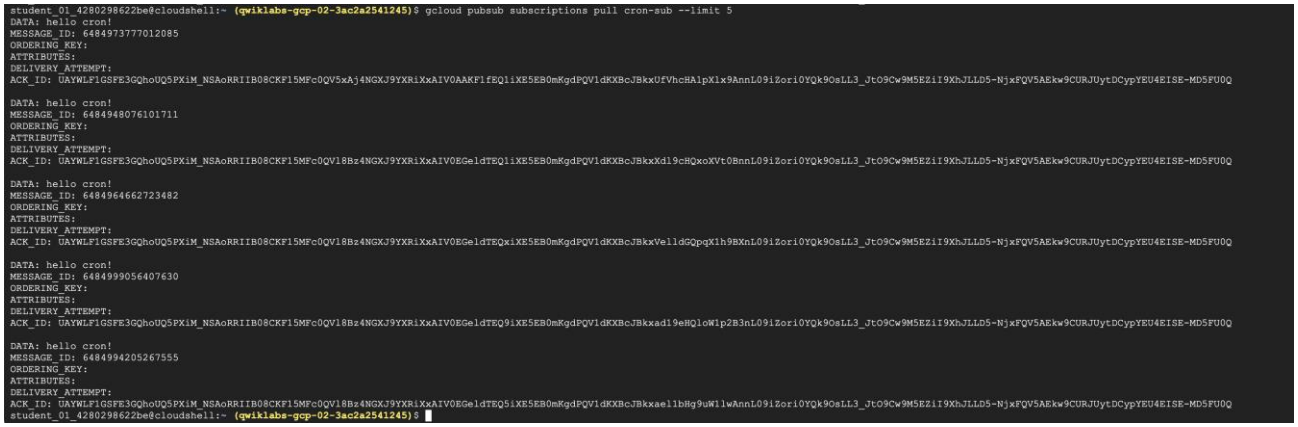
You now have a job that sends a message to your Cloud Pub/Sub topic every minute.
Wait a minute or 2 for the job to get succeeded.

Task 4. Verify the results in Cloud Pub/Sub

1. To verify that your Cloud Pub/Sub topic is receiving messages from your job, invoke the following command:

```
gcloud pubsub subscriptions pull cron-sub --limit 5
```

You should see output that looks similar to the following:



3. If you don't see 5 responses, run the command again until you do.