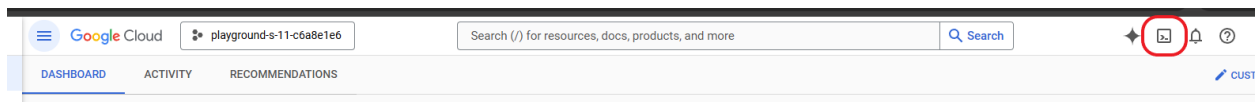


## Lab – Working with Web Hooks

- Execute the tutorial at <https://github.com/hayo03/Dialogflow-CX-Start-Tutorial>
- Depending on level of comfort (and/or interest) with digging into Python, ngrok, and coding, you can either follow along with the instructor or watch
- Use the following instructions to install ngrok in your Google Cloud sandbox. Python is already installed in the environment, and you won't need Visual Studio Code as we're going to do minimal coding. The focus of this lab is on wiring up and testing a webhook in your DialogFlow CX agent:
  - Go to the tab where the Google Cloud dashboard is displayed and click the “Cloud Shell” icon in the upper right



- When prompted, click “Continue”
  - When prompted to authorize Cloud Shell, click “Authorize”
  - In a new tab, navigate to <https://ngrok.com>
  - Click “Get started for free”
  - If you are following along, you can sign up for a new account
  - On the “Welcome” page, in the upper right under “Agents”, click “Linux”
  - Follow the instructions to install in Google Cloud Shell (you can copy and paste the provided statements to complete the installation)
  - Use “which ngrok” to find out where it is installed in the Cloud Shell (it's probably in “/usr/local/bin”)
  - Navigate to the location using the “cd” command – e.g., “cd /usr/local/bin”
  - Copy and paste the provide statement for adding the ngrok auth token to Cloud Shell
  - To provide a “wrapper” for a locally hosted API, use “./ngrok http <port number>” (e.g., “./ngrok http 8081”)
  - When ready to exit from the running instance of ngrok, use Ctrl+C
- Use the following instructions to clone and run the API locally in Google Cloud Shell:

- Open a new terminal tab by clicking the “+” in Cloud Shell
- In Google Cloud Shell, execute “git clone <https://github.com/hayo03/Dialogflow-CX-Start-Tutorial.git>”
- Run “cd Dialogflow-CX-Start-Tutorial/webhook\_service/” in the terminal to navigate to the API code location
- You can look at the Python code using “nano webhook.py”; use Ctrl+X to exit
- In the terminal, run “pip install -r requirements.txt”
- To launch the API, run “python webhook.py”; this should start up the weather API on port 8081
- In the first terminal window, run “./ngrok http 8081”
- Use Ctrl+C to exit from the running ngrok session and use Ctrl+C to exit from the running API
- In the terminal navigated to the API folder, use “nano webhook\_external.py”
- Arrow down to this line of code  
‘appid="25e5d7b2ff948d0749a8b9e9e14f5f9"’
- Erase the text that starts with 25e5d... and past the following in its place:  
401c75ff9cfef7faab2f93ca82664eb7
- Use Ctrl+X to exit – when prompted to save changes, hit “Y” and when asked about filename, hit enter to keep the filename intact
- Run “python webhook\_external.py”
- Relaunch your ngrok “wrapper” using “./ngrok http 8081”
- In your DialogFlow CX webhook, you’ll have to update the URL since ngrok generates a new one on each execution