

# QATIP Intermediate

## AWS Lab0

### Initial access to AWS Console and Cloud9 IDE.

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#### Background

This initialization lab will provision you with an AWS account and access to the AWS console via your local web browser. It will also provision a Cloud9 instance that will act as your Integrated Development Environment (IDE). This initialization lab should be run at the start of each day or if you inadvertently end your lab prematurely during the day.

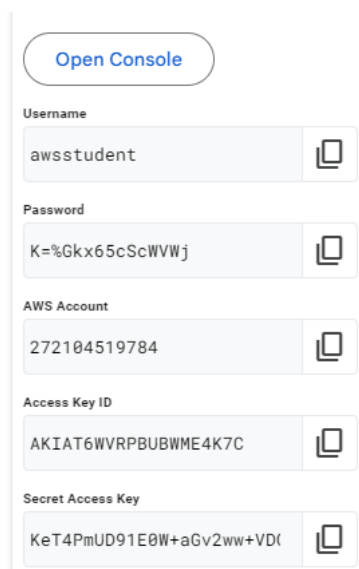
#### Accessing the lab environment

1. Close any browser sessions/tabs that you may have open other than the one displaying this document.
2. Navigate to <https://qa.gwiklabs.com>
3. If you have an account already, then log in. Communicate your username (email) to the instructor. Goto Step 5.
4. Register using an accessible email. You will be sent a confirmation email. Communicate your username (email) to the instructor

5. The instructor will ensure your account is given access to the course and notify you accordingly. Refresh your browser and you should see your course in progress widget. Click to open the class.
6. In the Labs tab, click on the lab you are attempting

## Starting your Lab

1. Launch your lab by choosing **`Start Lab`**
2. This starts the process of provisioning your lab resources. An estimated amount of time to provision your lab resources is displayed. You must wait for your resources to be provisioned before continuing. Once initialized, information regarding your provisioned AWS account will be displayed...

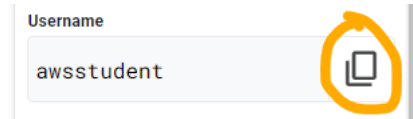


The screenshot shows a web interface for starting a lab. At the top is a button labeled 'Open Console'. Below it are five input fields, each with a copy icon to its right:

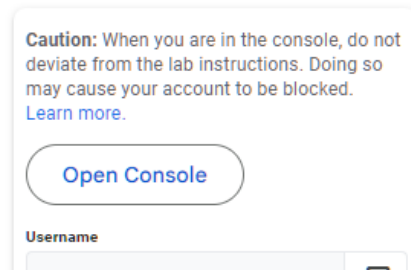
- Username:** awsstudent
- Password:** K=%Gkx65cScWVWj
- AWS Account:** 272104519784
- Access Key ID:** AKIAT6WVRPBUBWME4K7C
- Secret Access Key:** KeT4PmUD91E0W+aGv2ww+VD(

3. For future reference, record and save the following information in the provided **session-info** file, using the copy option to avoid typos.

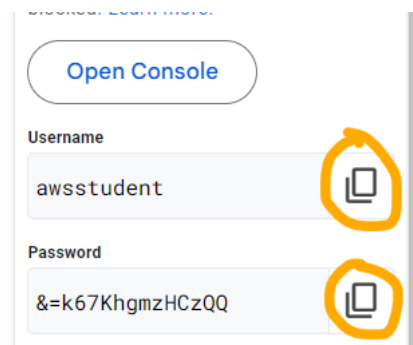
Username	:	awsstudent
Password	:	
Account ID:	:	
AWS Access key	:	
AWS Secret key	:	



4. Ensure you have no active AWS sessions open in any other browser tabs and then Open your lab by choosing **`Open Console`**...

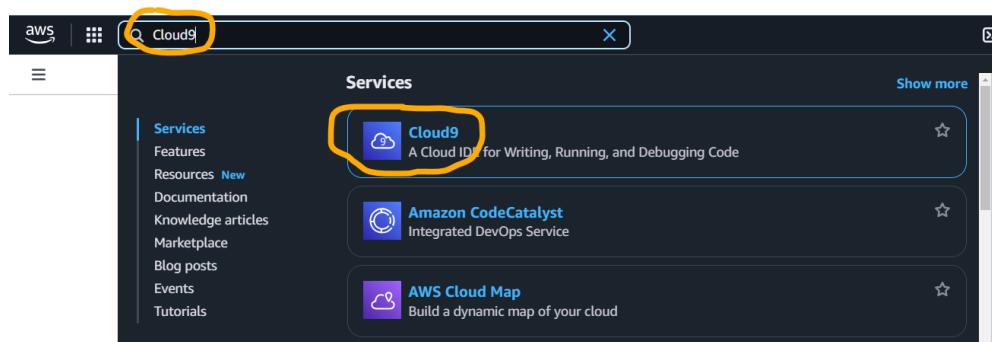


5. The AWS Management Console sign-in page opens in a new web browser tab. On the Sign in as IAM user page, enter **'awsstudent'** as the username and use the password displayed on the left side of the lab page (use the copy option if preferred) ....

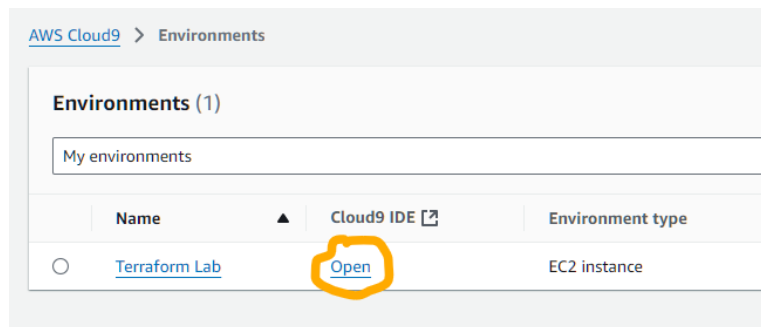


## Launching your Cloud9 IDE

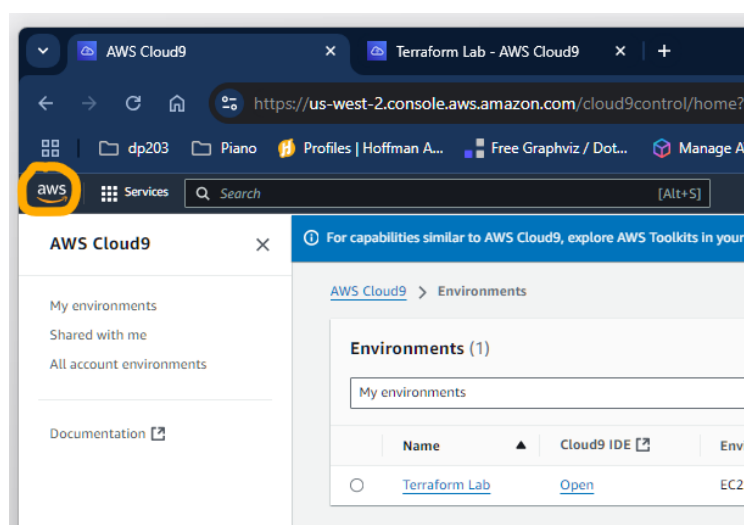
1. The AWS Console Home screen will now be displayed. On the AWS Console tab, enter **"Cloud9"** in the search bar and then select **Cloud9** from the list of services...



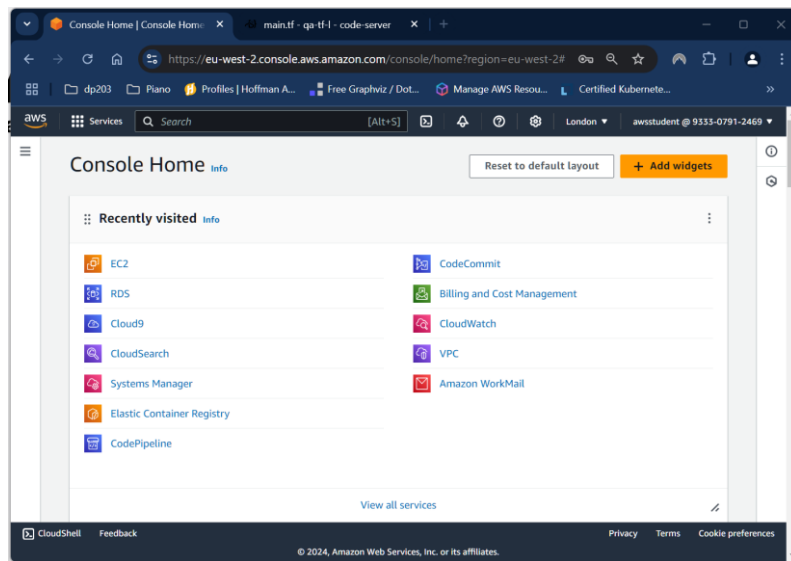
2. A listing of AWS Cloud9 environments is now displayed. An environment named **Terraform Lab** has been created for you. To access the IDE, click on **“Open”** ....



3. A new browser tab will open, giving you access to the Cloud9 IDE.
4. Provided you have recorded your session information, you can now safely close the qa.qwiklabs browser tabs. You should now have a tab open accessing the AWS console, currently listing your Cloud9 environments, and another accessing the Terraform Lab IDE. Should you inadvertently close these tabs at any point then simply open a new tab, browse to **https://aws.amazon.com/console** and log in using the information in your **session-info** file.
5. On the AWS **console** tab click on the AWS logo to return to Console Home...

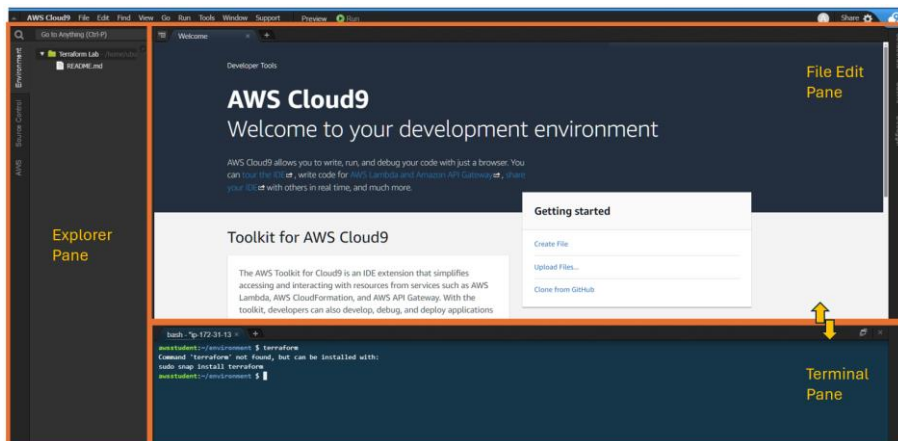


6. This tab will be referred to as **‘the console’** throughout all labs...



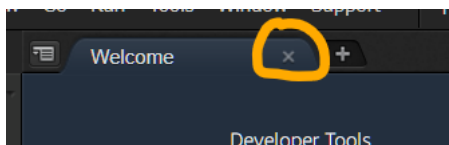
- The second tab is your Cloud9 IDE, and it is here where you will write and run your terraform code. Throughout the labs, this will be referred to as **‘the IDE’**

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## Configuring the IDE

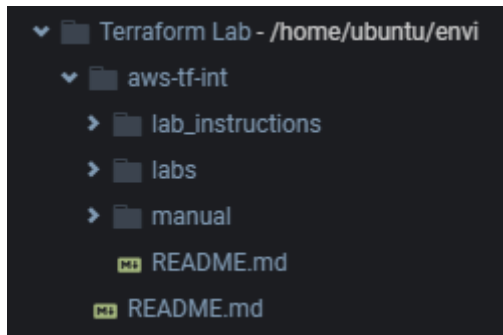
- In the IDE, close the Welcome page...



- Enter the following command into the terminal window...

**git clone https://github.com/qatip/aws-tf-int.git**

3. In your home directory, there should now be a folder called **aws-tf-int** with a labs folder for your labs. There are also course manual and lab instructions folders. These can be viewed in the Explorer pane...



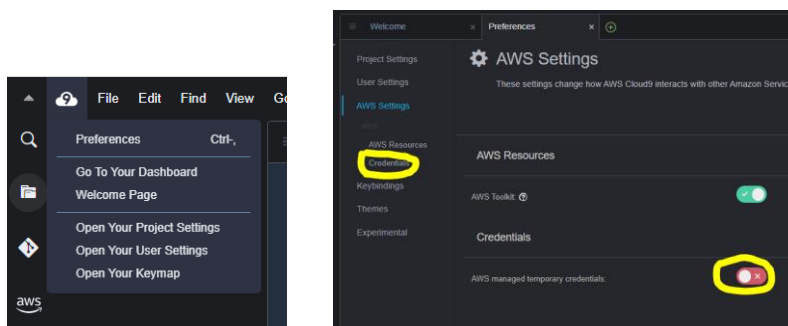
4. To install the Terraform client, enter the following command into the terminal...

**sudo snap install terraform --classic**

5. To verify the installation, type the following command ...

**terraform -version**

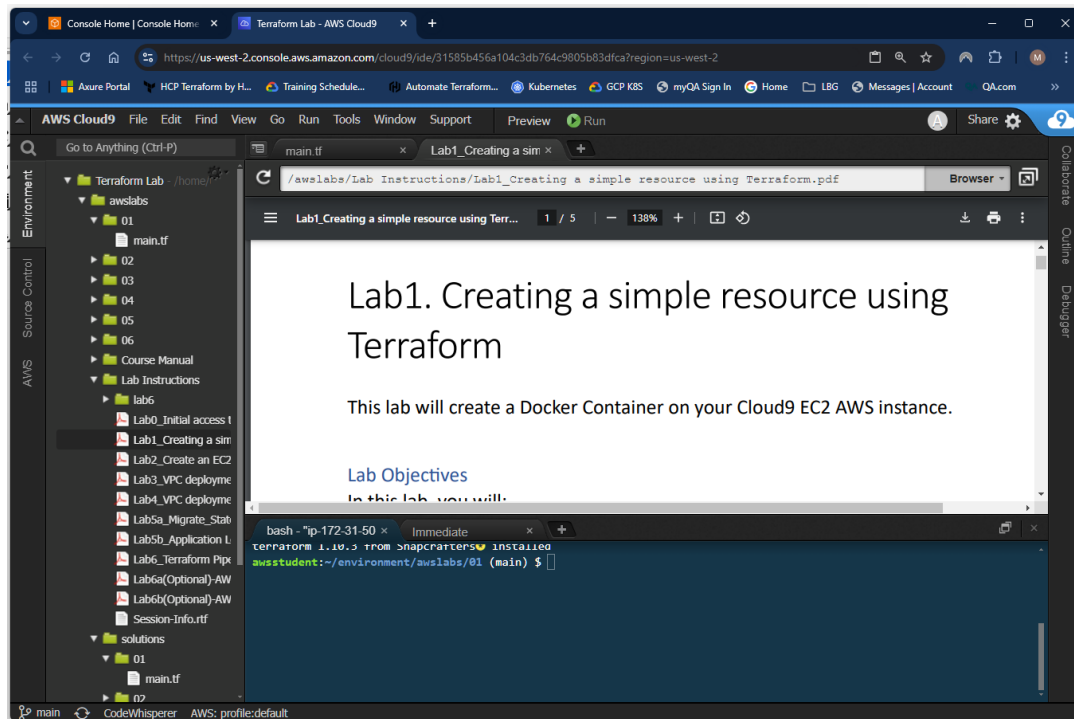
6. Cloud9 uses temporary credentials by default which do not have sufficient authorization to complete some upcoming labs. Navigate to Preferences, AWS Settings, Credentials and disable temporary credentials...



6. Use “**aws configure**” to supply explicit credentials, providing the Access Key and Secret Access Key generated for your student account, as documented earlier. (Navigate to QA.QWIKLABS if you have not noted these down). Configure us-east-1 as your default region and leave default output format empty....

```
awsstudent:~/environment/aws-tf-int/labs/03 (main) $ aws configure
AWS Access Key ID [*****2BXA]: AKIA*****TY2BXA
AWS Secret Access Key [*****Sy/Y]: XMBiGYCAH*****05hk7FSy/Y
Default region name [us-east-1]: us-east-1
Default output format [None]:
```

7. Run **aws sts get-caller-identity** to verify your current identity
8. Clear the content of the terminal pane by typing the word **clear** and pressing enter. Use this command throughout the labs to declutter the display, as necessary. When in the terminal, you can use your **up** and **down** keys to recall previous commands, if appropriate, rather than having to retype them. If you want to get to a clean prompt, then simply press **ctrl+c** together to ‘escape’ rather than having to delete the current command. Practice these options now as they will be useful later.
9. Cloud9 supports displaying PDFs. When attempting a lab, you can open the instructions within the IDE. You can also copy and paste between the PDF and the IDE terminal. Therefore, you can run this entire course through a single browser session with two tabs, one focussed on the AWS console to view your resources and the other focused on the IDE, in which you can read and perform your labs...



**\*\* This concludes the initial setup lab – Now proceed to the lab instructions for the lab you are attempting\*\***