Practical: Logging on to QUT AWS Cloud

This guide will show you how to log onto the QUT managed AWS service.

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References

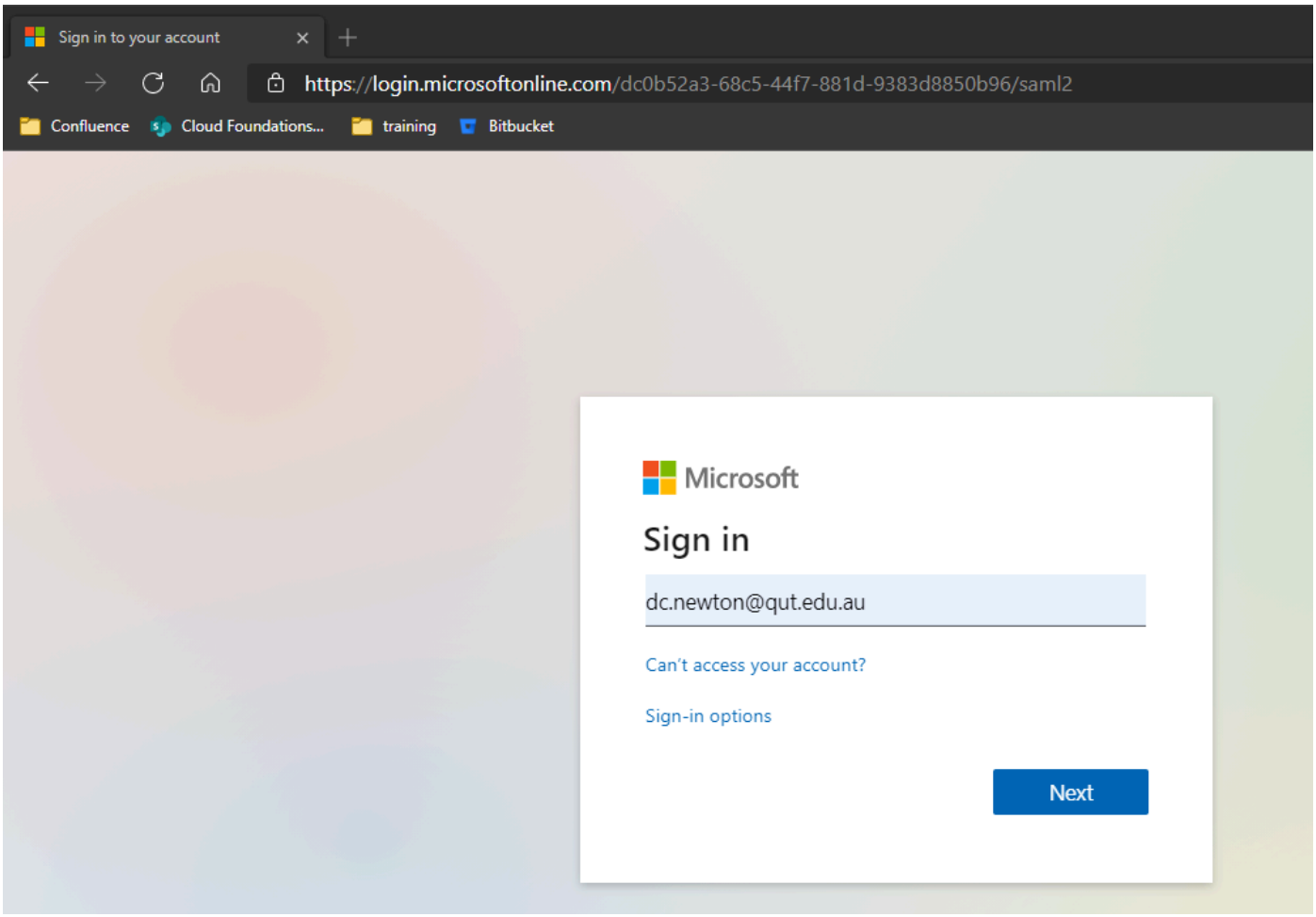
- CAB432 AWS login page https://d-97671c4bd0.awsapps.com/start#/ (https://d-97671c4bd0.awsapps.com/start#/)

Step 1. AWS login page

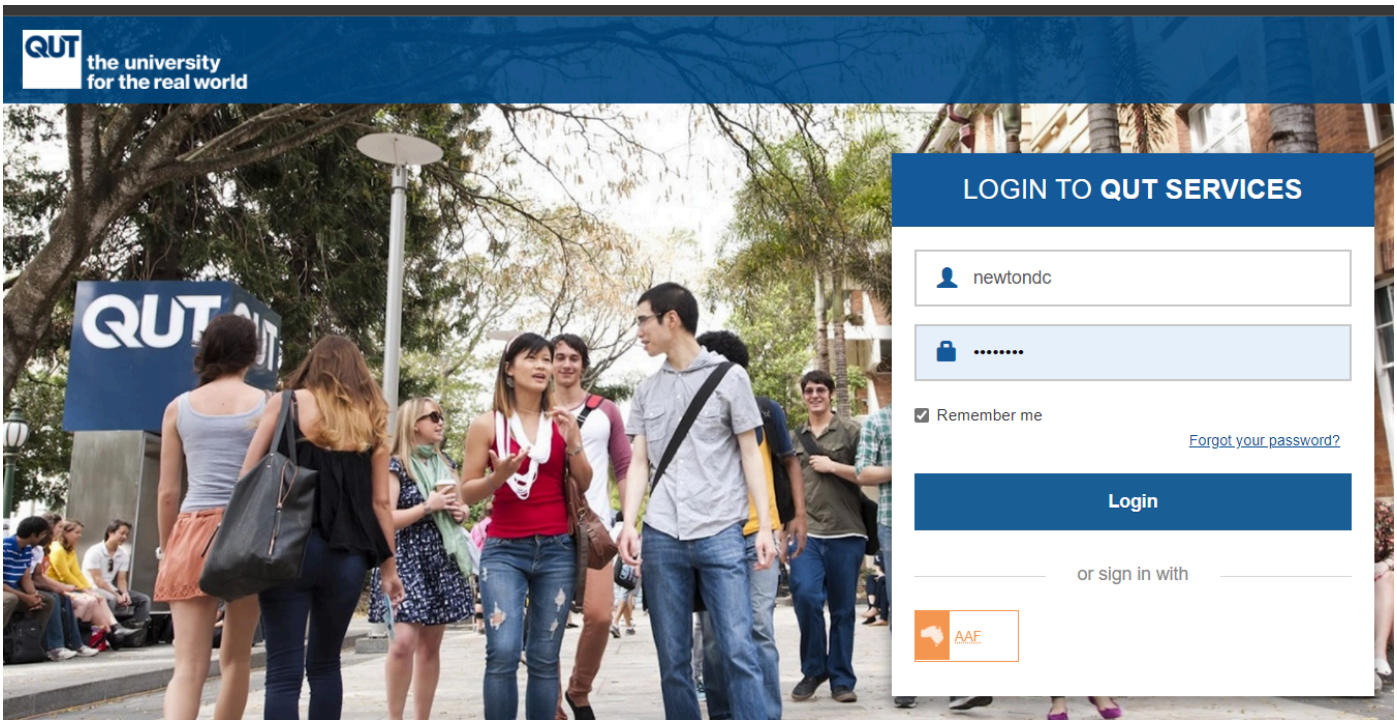
Navigate to the AWS SSO via https://d-97671c4bd0.awsapps.com/start#/ (https://d-97671c4bd0.awsapps.com/start#/) . QUT uses Single Sign-On technology (SSO) for our Cloud environments so depending on your browser session you will end up at step 2 or step 4.

Step 2. Log in using QUT credentials

Please input your full email address if you have not signed into QUT from this browser session. You will be asked to enter your QUT Credentials. Don't get confused by the Microsoft splash screen! QUT uses Microsoft's Azure Active Directory for this stage of the authentication.



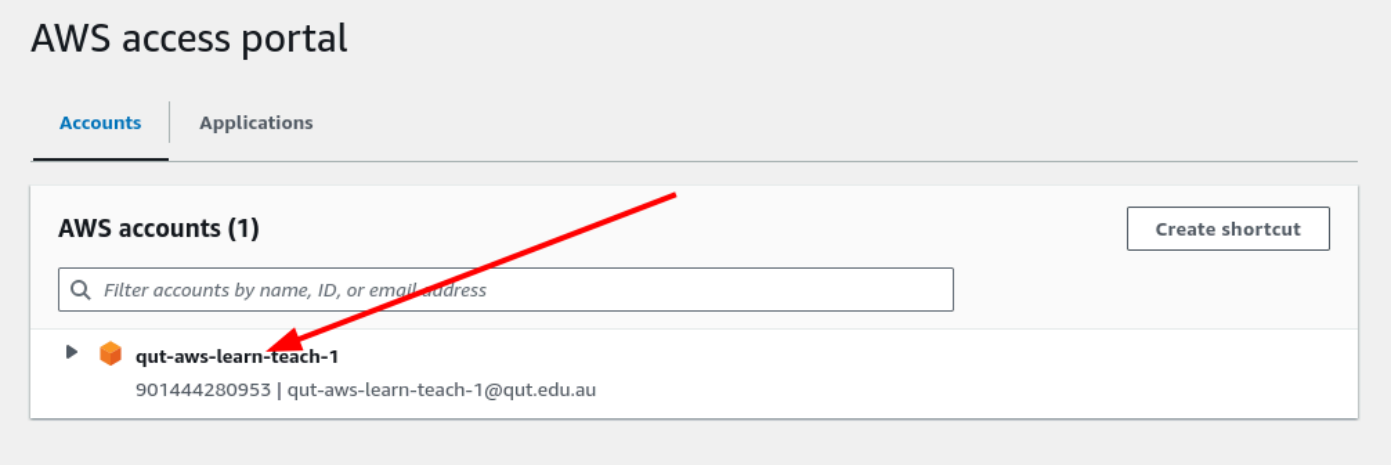
Please Enter your QUT Credentials and login.



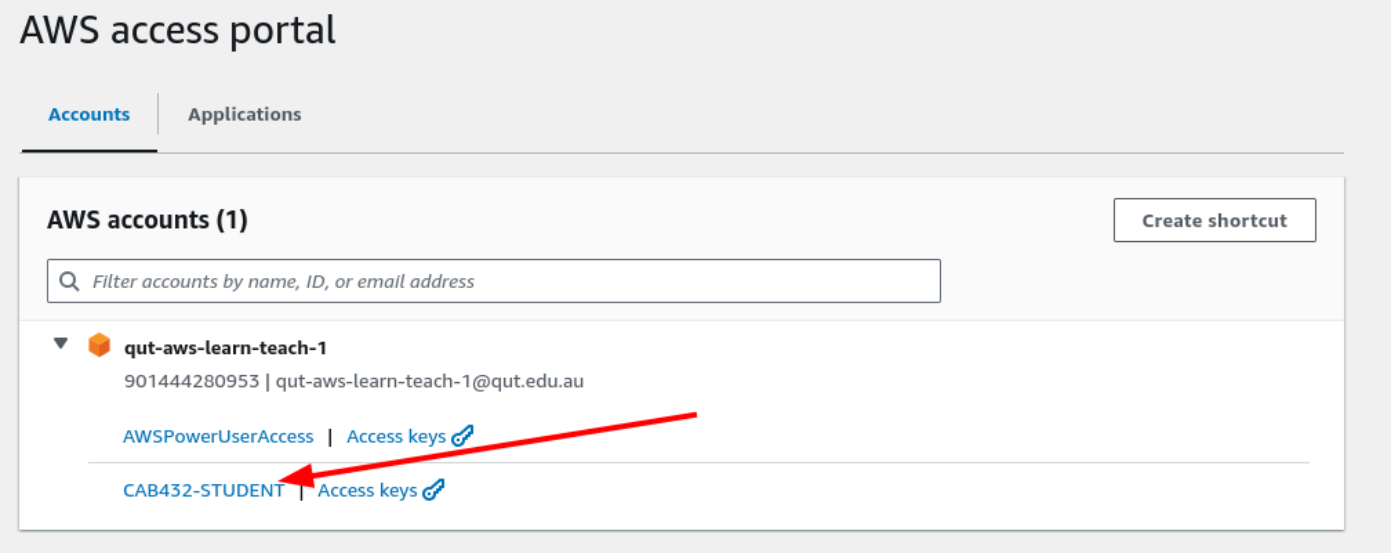
Step 3. Account and access levels

You will be redirected to the AWS SSO page. Click on the *AWS Account* drop down and select *qut-aws-learn-teach-1*. AWS Accounts are a logical container for AWS Resources - where we can

create and manage AWS Resources. QUT has multiple AWS Accounts for different purposes. For this course we will be using the *qut-aws-learn-teach-1* account.

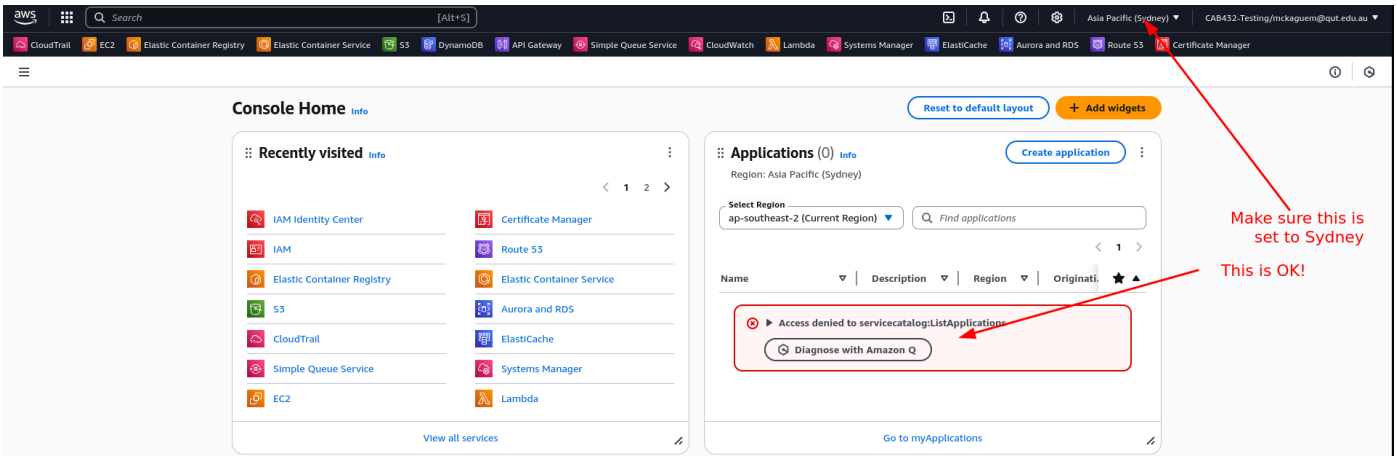


Select the account and you can login to the account with different access levels. For instance, a CAB432 student will select *CAB432_STUDENT*. You can now select either *AWS Console* or *Command Line or programmatic access*.



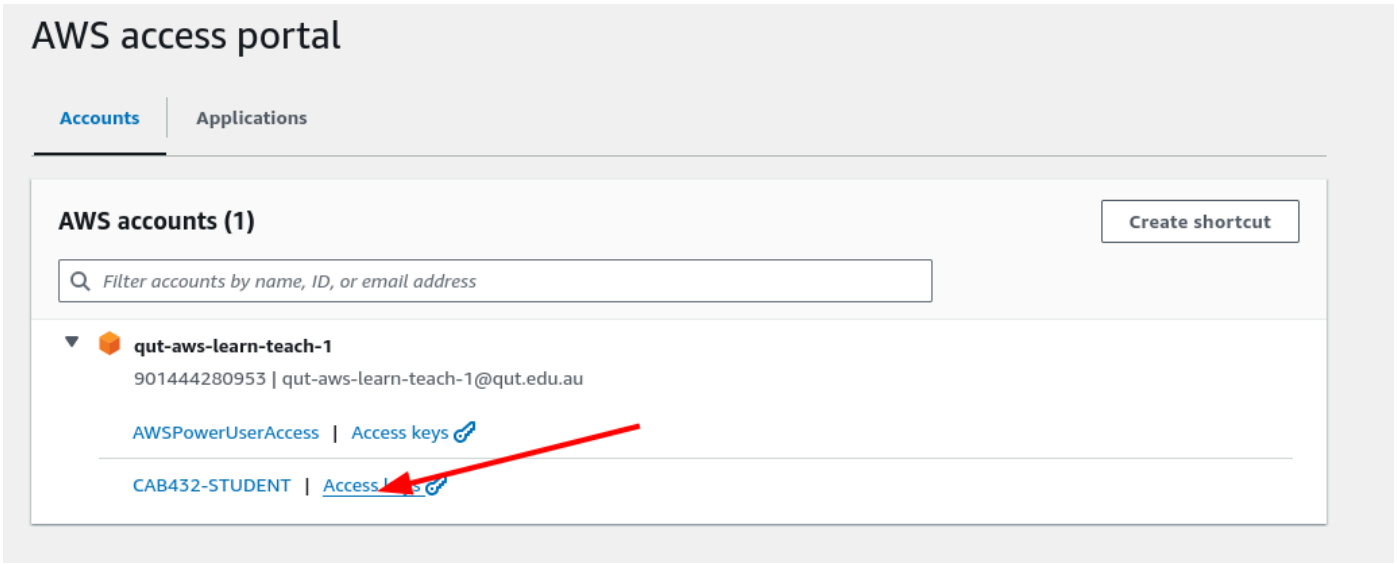
Step 4. AWS Console

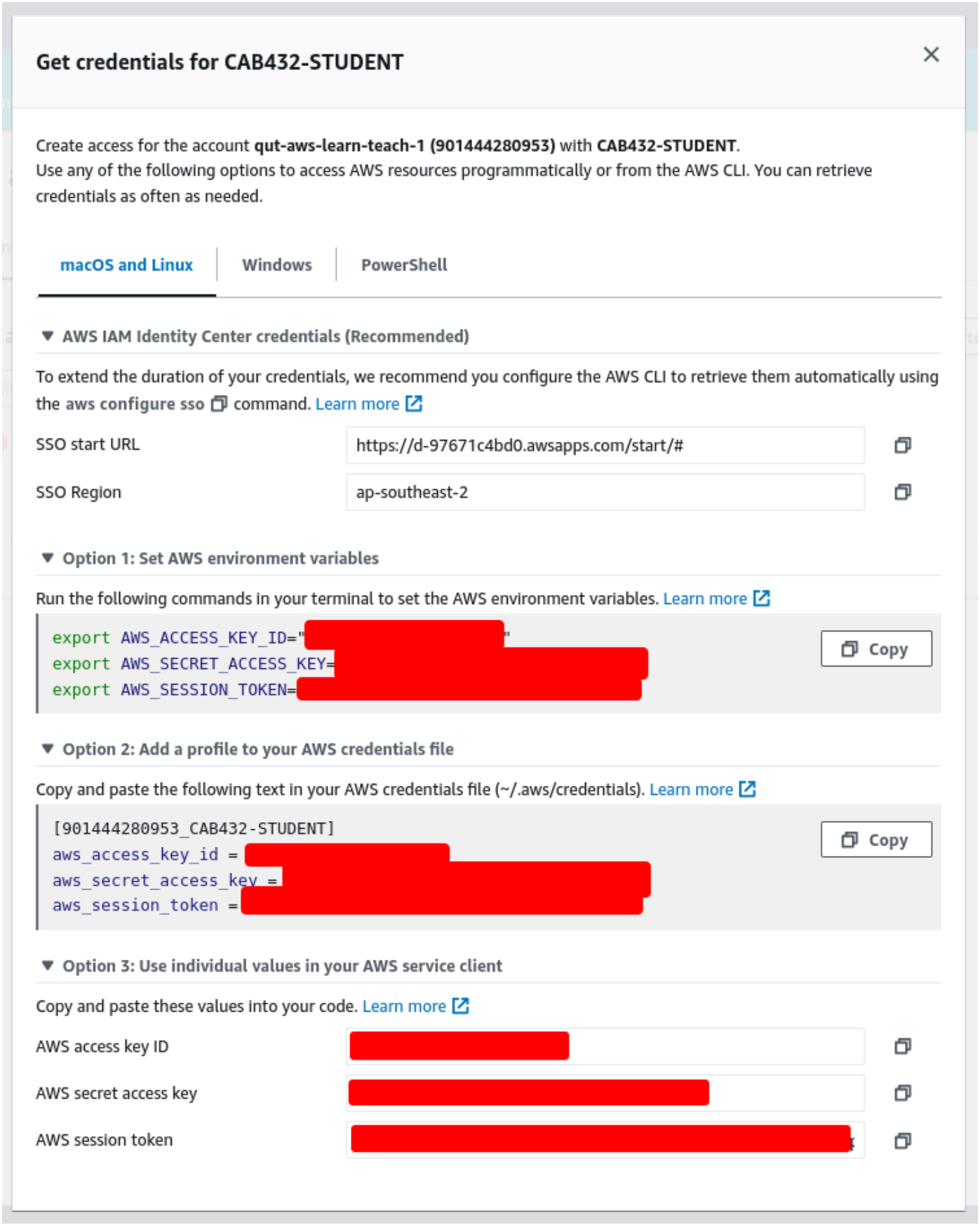
If you select *CAB432-STUDENT* you will be redirected to the AWS Console (This is the Portal/GUI method). You can now select the service you want to use. For instance, if you want to use the EC2 service, you can select EC2 from the *Find Services* search bar. Your user details and region appear in the top right hand corner. Ensure you are in the Sydney region, or your builds won't work. It's normal to see some *Access denied* messages here and there since student accounts don't have limited or no access to some services.



Step 5. Programmatic access

Back at the *AWS access portal* screen, If you select *Access keys* you will be presented three options to access AWS environment programmatically. There are a variety of ways that this can be useful. For now, familiarise yourself with where to find the access keys; we will make use of them in later practicals.





Note: Environment variables provide another way to specify configuration options and credentials, and can be useful for scripting or temporarily setting a named profile as the default. You now have three options for accessing the AWS environment programmatically:

- Option 1 - Set environment variables to contain the credentials;
- Option 2 - Add a profile to your AWS credentials file
- Option 3 - Use individual values in your AWS service client

Note that access keys expire after a short time (8 hours for the CAB432 AWS student accounts)

If you use the AWS cli tool then you can configure it to automatically retrieve access keys:

- **Configure AWS CLI credentials with auto refresh (https://docs.aws.amazon.com/cli/latest/userguide/sso-configure-profile-token.html#sso-configure-profile-token-auto-sso)**