Creating a Git Repository

Lab overview

GitHub runs an instance of git, which is version-control software that runs in the cloud. GitHub is popular among open source projects and businesses.

In this lab, you will:

- Download solutions for the earlier labs
- Create a GitHub account
- Read the GitHub *Hello World* guide
- Create a private repository for your labs
- Download your repository

Estimated completion time

45 minutes

Accessing the AWS Cloud9 IDE

1. Start your lab environment by going to the top of these instructions and choosing **Start Lab**.

   A **Start Lab** panel opens, displaying the lab status.

2. Wait until you see the message *Lab status: ready*, and then close the **Start Lab** panel by choosing the **X**.

3. At the top of these instructions, choose **AWS**.

   The AWS Management Console opens in a new browser tab. The system automatically logs you in.

> **Note:** If a new browser tab does not open, a banner or icon at the top of your browser typically indicates that your browser is preventing the site from opening pop-up windows. Choose the banner or icon, and choose **Allow pop ups**.

4. In the AWS Management Console, choose **Services** > **Cloud9**. In the **Your environments** panel, locate the **reStart-python-cloud9** card, and choose **Open IDE**.

   The AWS Cloud9 environment opens.

> **Note:** If a pop-up window opens with the message *.c9/project.settings have been changed on disk*, choose **Discard** to ignore it. Likewise, if a dialog window prompts you to *Show third-party content*, choose **No** to decline.

Exercise 1: Downloading your Python files from the previous labs

5. From the menu bar, choose **File > Download Project**.

   This action creates an untitled file.

6. This action downloads a compressed file onto your local machine. Extract the contents of this file.

Exercise 2: Creating a GitHub account

At the time of this writing, GitHub offered a free account for individuals.

7. Visit GitHub at https://www.github.com and create an account.

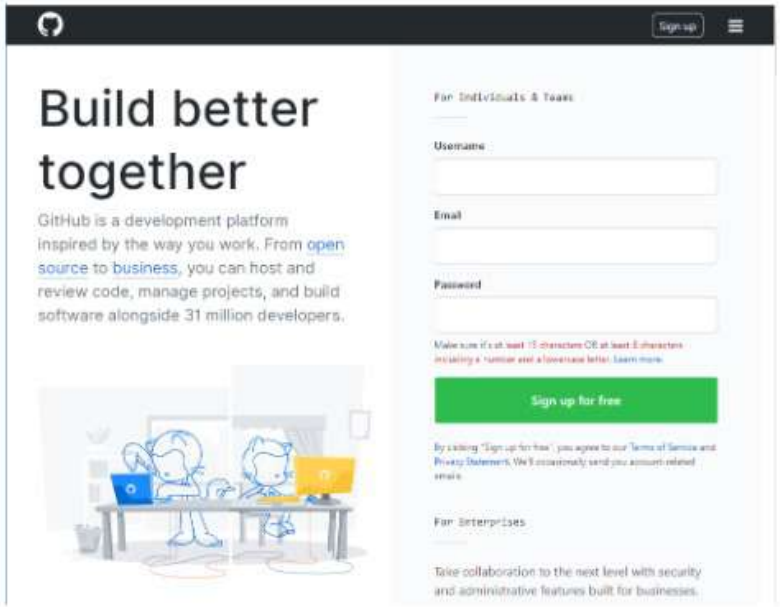
This action creates an untitled file.

6. This action downloads a compressed file onto your local machine. Extract the contents of this file.

Exercise 2: Creating a GitHub account

At the time of this writing, GitHub offered a free account for individuals.

7. Visit GitHub at https://www.github.com and create an account.



Exercise 3: Reading the GitHub Hello World Guide

After you log in to GitHub, you can access to the *Hello World* guide for creating a repository.

At the time of this writing, the GitHub Guides page hosted the Hello World guide at https://guides.github.com/activities/hello-world/.

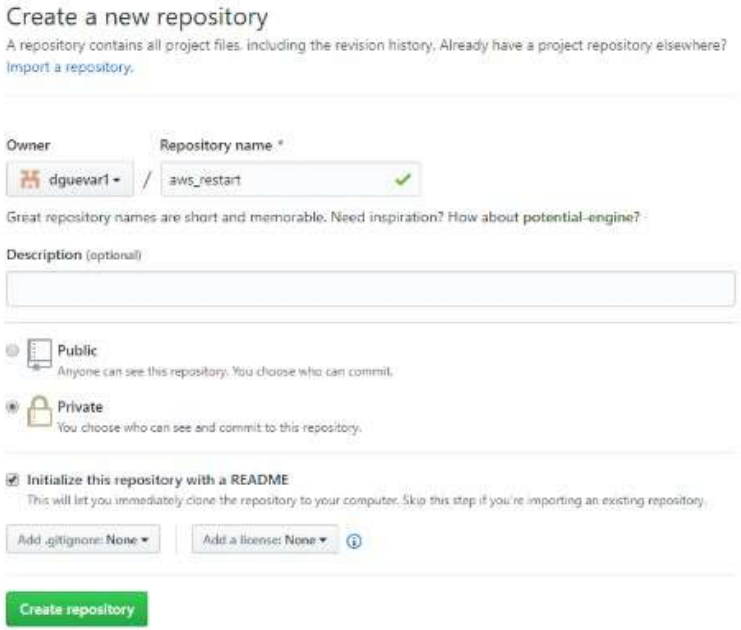
8. Read the GitHub *Hello World* guide.

Exercise 4: Creating a private repository

9. After you read the GitHub *Hello World* guide, make sure that you are logged in to GitHub and choose the **New** button.

   The **Create a new repository form** (see the screen capture) should open.

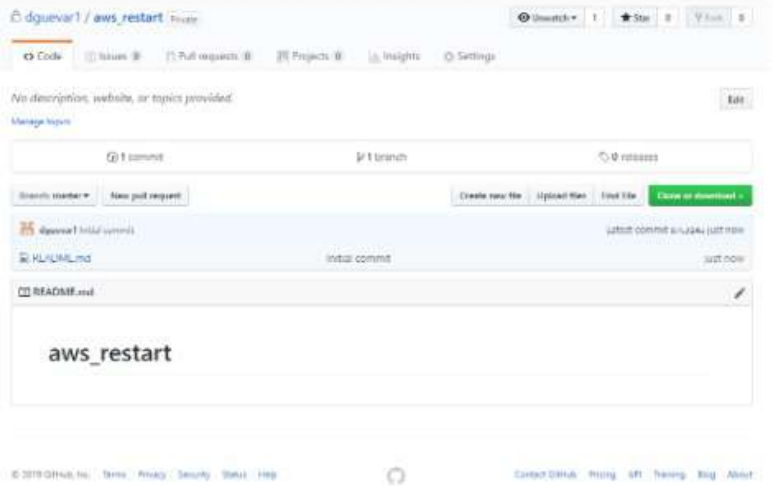
10. Give your repository a name, such as *aws_restart*.



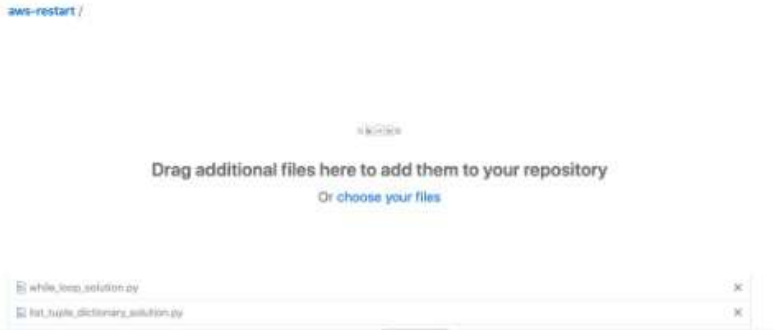
> **Note:** You can make your repository public or private. Choose to create a **private** repository. Also, select the **Initialize this repository with a README** option.

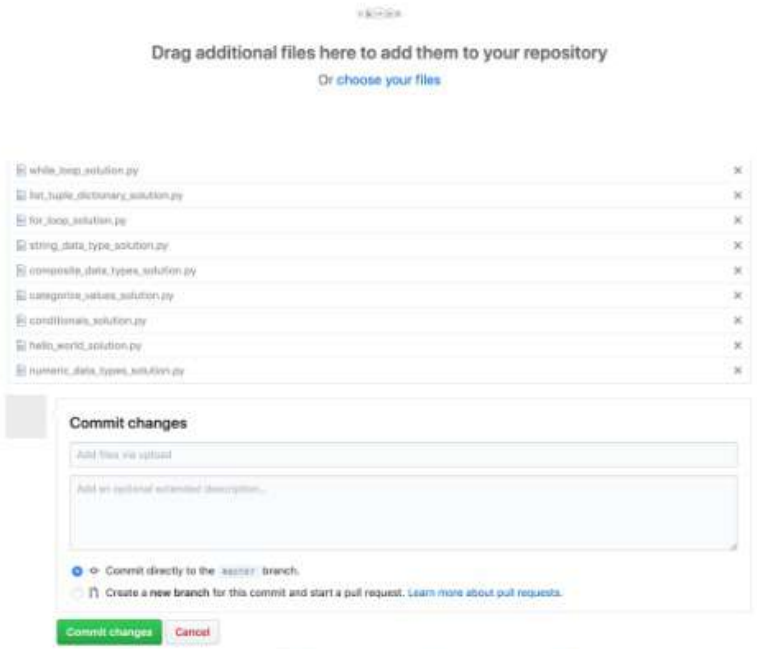
> **Note:** You can make your repository public or private. Choose to create a **private** repository. Also, select the **Initialize this repository with a README** option.

If your repository is created successfully, you should see a default repository with a README file that is similar to this example.



Choose the **Upload files** button to get to the **Upload files** page.





11. Upload all the files that you previously extracted in Exercise 1.

Exercise 5: Downloading a repository

To download your repository, complete the following steps.

12. Choose the **Clone or download** button.
13. Select the **Download Zip** option.

13. Select the **Download Zip** option.

14. On your local machine, create an **aws_restart** folder and save your .zip file to it.
15. To verify that the files were downloaded, extract the .zip file.

Congratulations! You have used some basic features of GitHub.

End Lab

🏁 Congratulations! You have completed the lab.

16. Choose ■ **End Lab** at the top of this page, and then select Yes to confirm that you want to end the lab.

    A panel indicates that *DELETE has been initiated... You may close this message box now.*

17. A message *Ended AWS Lab Successfully* is briefly displayed, indicating that the lab has ended.