

## 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**.

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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.

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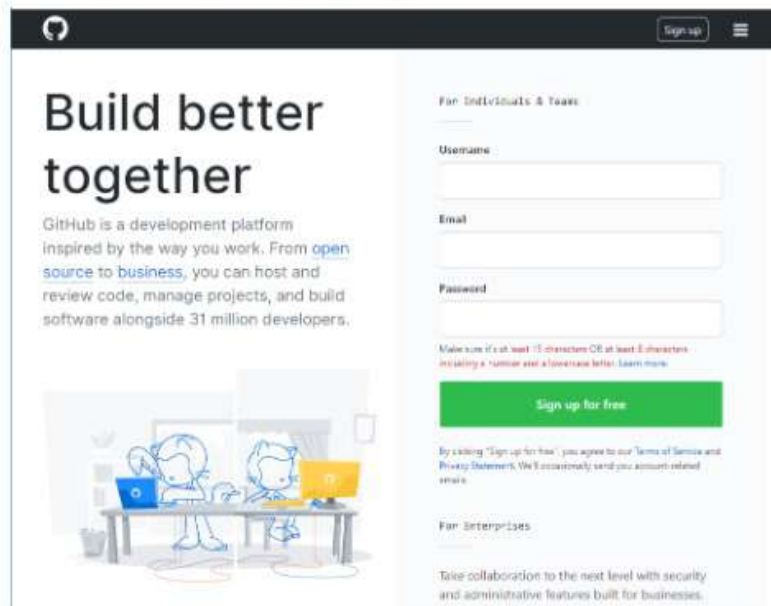
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## Exercise 2: Creating a GitHub account

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The screenshot shows the GitHub website's sign-up page. On the left, there's a large heading "Build better together" followed by a paragraph about GitHub being a development platform. Below this is an illustration of two people working on laptops. On the right, there's a sign-up form titled "For Individuals & Teams". The form includes fields for "Username", "Email", and "Password". Below the password field, there's a note: "Make sure it's at least 12 characters OR at least 8 characters including a number and a lowercase letter. Learn more". A green "Sign up for free" button is prominently displayed. At the bottom of the form, there's a small disclaimer: "By clicking 'Sign up for free', you agree to our Terms of Service and Privacy Statement. We'll occasionally send you account-related emails." Below the form, there's a section titled "For Enterprises" with a brief description of their collaboration features.

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Take collaboration to the next level with security and administrative features built for businesses.

### 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.



## Learn Git and GitHub without any code!

Using the Hello World guide, you'll create a repository, start a branch, write comments, and open a pull request.

Read the guideStart a project

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

8. Read the GitHub *Hello World* guide.

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## 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`.

### Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner

Repository name \*



dguevar1

/

aws\_restart



Great repository names are short and memorable. Need inspiration? How about [potential-engine](#)?

Description (optional)



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

☒ Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None**

Add a license: **None**



Create repository

**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.

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Type here to search



16

17



ENG  
IN

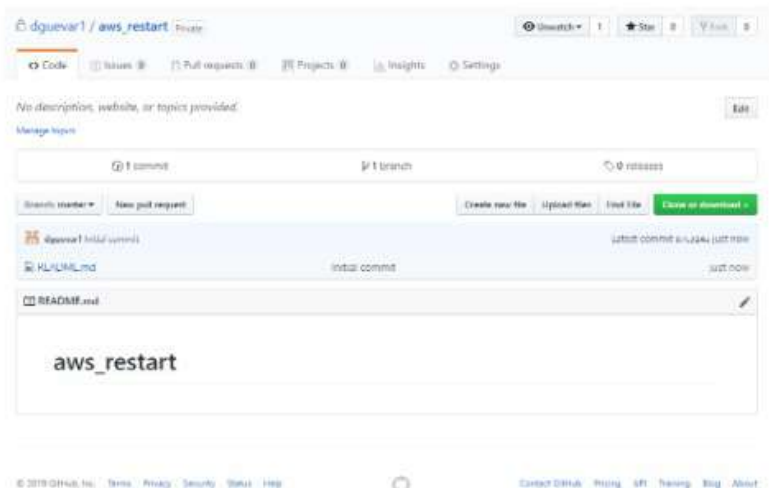
10:48  
30/12/2025



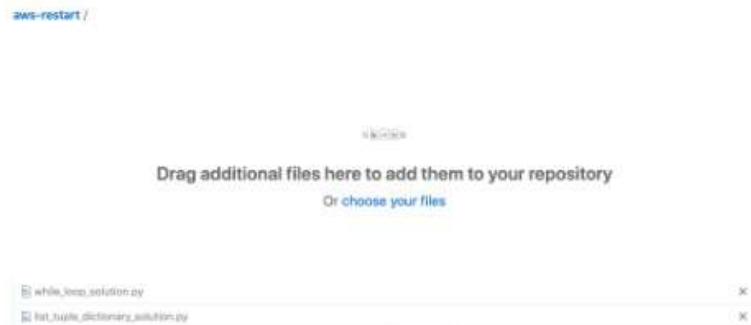
7

**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.



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Drag additional files here to add them to your repository  
Or [choose your files](#)

- while\_loop\_solution.py
- list\_tuple\_dictionary\_solution.py
- for\_loop\_solution.py
- string\_data\_type\_solution.py
- composely\_data\_types\_solution.py
- unagorise\_values\_solution.py
- conditionals\_solution.py
- hello\_world\_solution.py
- numeric\_data\_types\_solution.py

**Commit changes**

Add files via upload

Add an optional extended description...

☒ Commit directly to the `main` branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

**Commit changes** Cancel

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

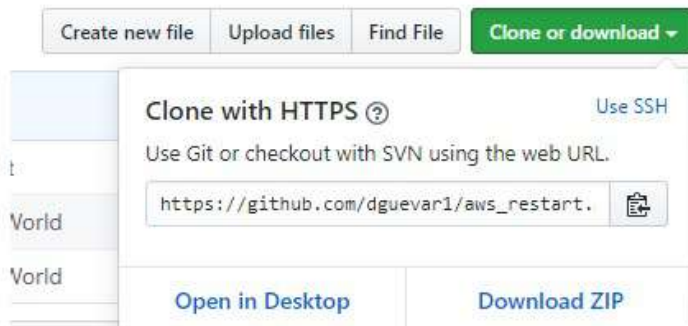
## Exercise 5: Downloading a repository

To download your repository, complete the following steps.

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

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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.

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