Creating a Git Repository

aws re/start

Overview

Creating a Git repository is the initial step in establishing version control for project files, allowing developers to organize code, documents, and assets centrally. This setup facilitates collaboration, tracks changes, and maintains a history of modifications. Git's features like branching and merging enhance teamwork, enabling simultaneous work on different features without code conflicts.

Git and GitHub complement each other in modern development workflows. Git provides local version control capabilities, while GitHub, a cloud-based platform, enhances collaboration with features like pull requests, issue tracking, and project management tools. Together, they streamline development processes, improve code quality, and foster efficient collaboration across teams.

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.

Topics covered

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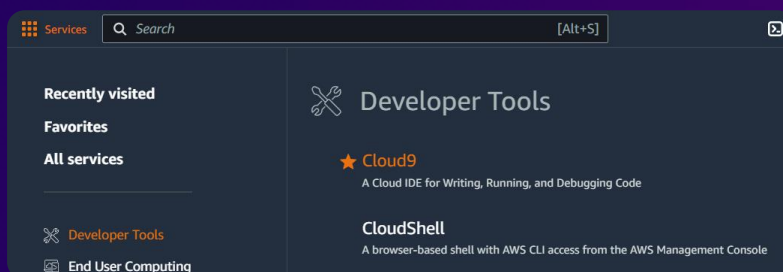- Download your repository

Task 1

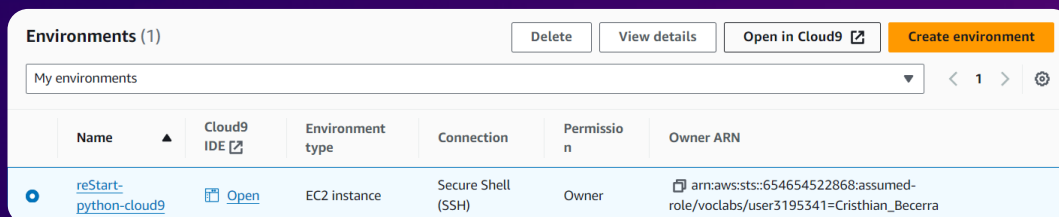## Downloading Python files from previous labs
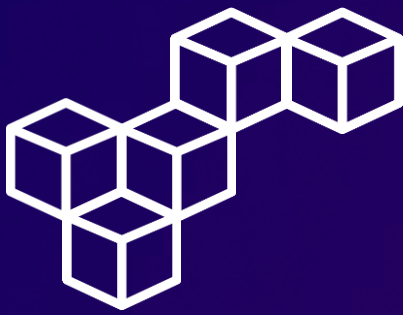
Step 1: Access the AWS Cloud9 IDE

Open the AWS Management Console, and select Cloud9.

Step 2: Open the AWS Cloud9 environment

In the **Environments** section, select the reStart-python-cloud9 card, and choose Open in Cloud9.
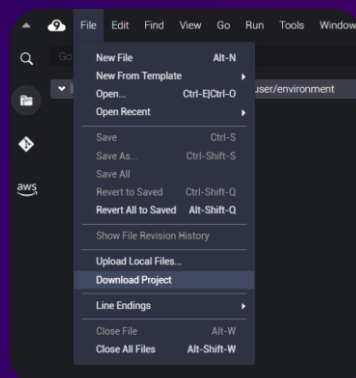
Downloading Python files from previous labs
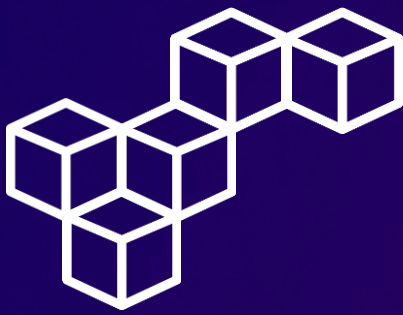
Step 3: Review the AWS Cloud9 environment

The AWS Cloud9 integrated development environment launches.

Step 4: Download Project

From the menu bar, choose **File > Download Project** to download a compressed file onto your local machine. Then, extract the contents of this file.
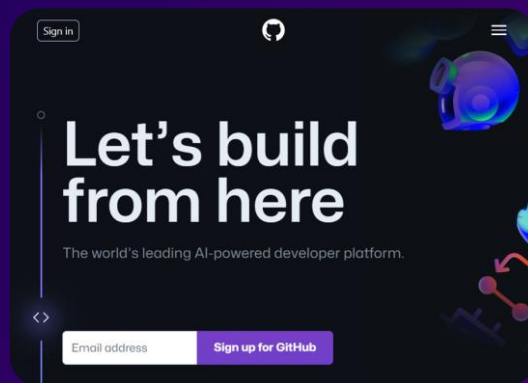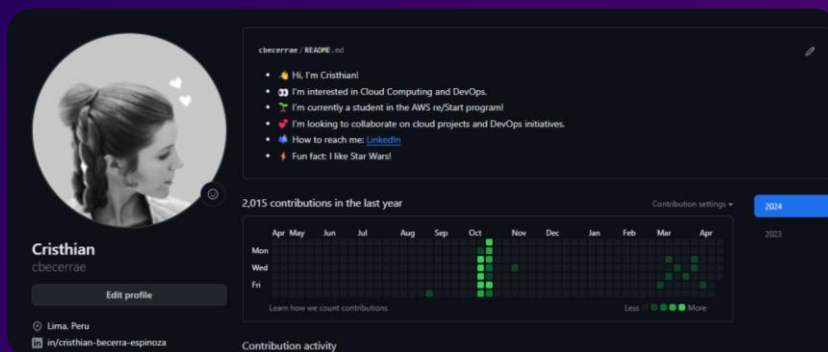
Task 2

Creating a GitHub account

Sign up for GitHub

Visit www.github.com and create a GitHub account.

Review your GitHub account

Customize and enhance your GitHub profile.

Reading the GitHub Hello World Guide

Access to the Hello World guide

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

Get started with GitHub documentation

Learn how to start building, shipping, and maintaining software with GitHub. Explore our products, sign up for an account, and connect with the world's largest development community.

Quickstart

Read the GitHub Hello World guide

Follow the Hello World exercise to learn GitHub's pull request workflow.

Get started / Start your journey /

Hello World

Follow this Hello World exercise to learn GitHub's pull request workflow.

Introduction

This tutorial teaches you GitHub essentials like repositories, branches, commits, and pull requests. You'll create your own Hello World repository and learn GitHub's pull request workflow, a popular way to create and review code.

In this quickstart guide, you will:

- Create and use a repository.
- Start and manage a new branch.
- Make changes to a file and push them to GitHub as commits.
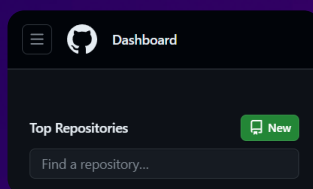- Open and merge a pull request.

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Task 4

Creating a private repository

Step 1: Create a new repository

In the GitHub Dashboard, select the New button.

Step 2: Set a private repository

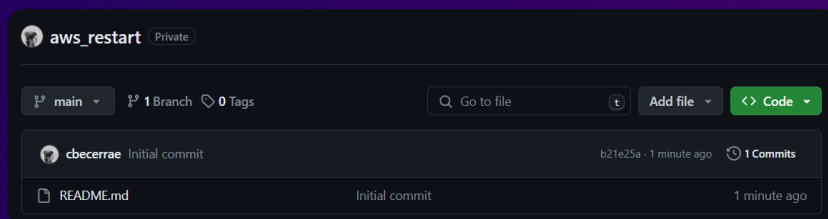Create a private repository using the following settings.
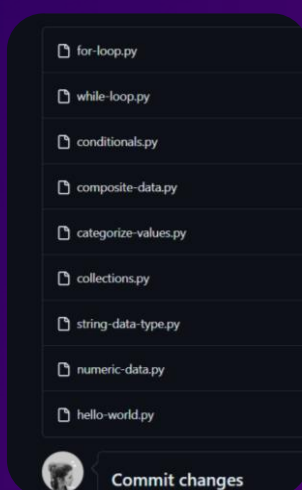
Task 4

Creating a private repository

Step 3: Review the aws_restart repository

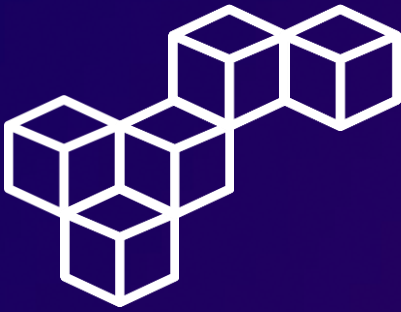Review the newly created private repository. You should see a README.md file.

Step 4: Upload files

Choose the Add file ▼ Upload files button to get to the Upload files page and upload all the files that you previously extracted.
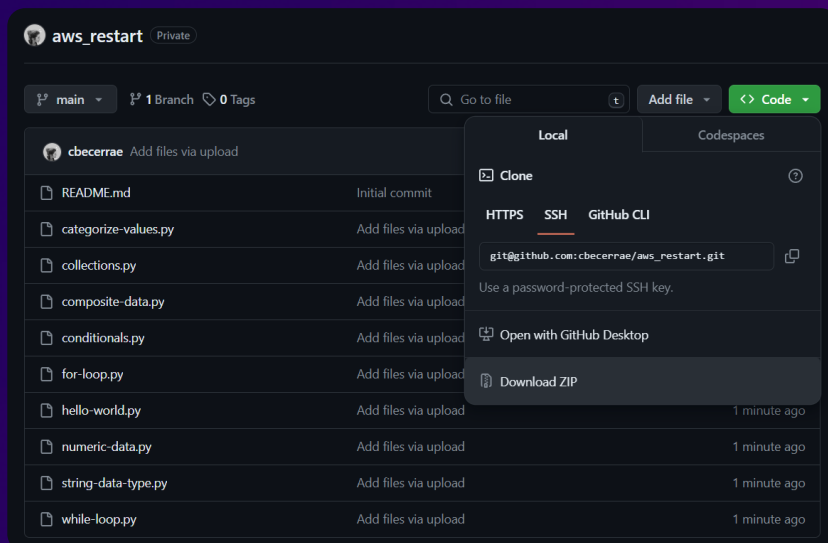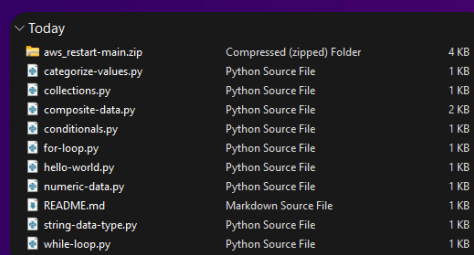

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Task 5

Downloading a repository

Download ZIP

Choose the <> Code ▼ Download ZIP button to save the .zip file to your local machine.

Review downloaded files

To verify that the files were downloaded, extract the .zip file.

Conclusions

GitHub
GitHub is a comprehensive platform for version control, collaboration, and code hosting, empowering developers and teams worldwide

GitHub accounts
GitHub offers free accounts for individuals, granting access to essential tools and public repositories for open-source contributions.

GitHub repositories
GitHub repositories serve as central hubs for organizing and managing code, documentation, and project assets effectively.

GitHub private repositories
GitHub private repositories provide enhanced privacy and security features for sensitive projects, controlling access and ensuring confidentiality.

Download a GitHub repository
Downloading a repository from GitHub via "Download ZIP" allows offline access to project files, aiding in reference and development tasks.

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