### ****Setup a Workspace on GitHub****

#### ****1. Create a Repository on GitHub****

* Go to [GitHub](https://github.com/" \t "_new) and log in.
* Click on **New Repository** and configure it as needed.

#### ****2. Open the Workspace in VS Code****

* Click on the **Code** button in your repository.
* Select **Open with Codespaces** (if available) or manually open it in **VS Code**.

#### ****3. Install Required Tools****

* Click on the **Search** button in VS Code.
* Search for(right arrow) > **Dev Containers ->modified Dev container** and install the extension **terraform, aws cli.**

#### ****5. Rebuild the Codespace****

* Open the **Command Palette** (Ctrl + Shift + P or Cmd + Shift + P on Mac).
* Search for **Rebuild Codespace** and execute the command.

#### ****6. Configure Credentials on the Workspace****

* Set up authentication and credentials (e.g., AWS,.).
* Use the terminal to configure them securely.

Link for all documents: https://registry.terraform.io/providers/hashicorp/aws/latest/docs

Architecture of terraform file

Generally terraform project have 3 files, main.tf(contain fundamental instruction), terraform.tfvars(contains all variable value), variables.tf(contains all variable), output.tf(contain output)

Principle commande of terraform:

Terraform init -> terraform plan -> terraform apply -> terraform destroy