**School of Computer Science**

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**DEHRADUN, UTTARAKHAND**



**System Provisioning and Configuration Management**

**Lab File (2021-2025)**

# **6th Semester**

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**Lab Exercise 4– Terraform Variables**

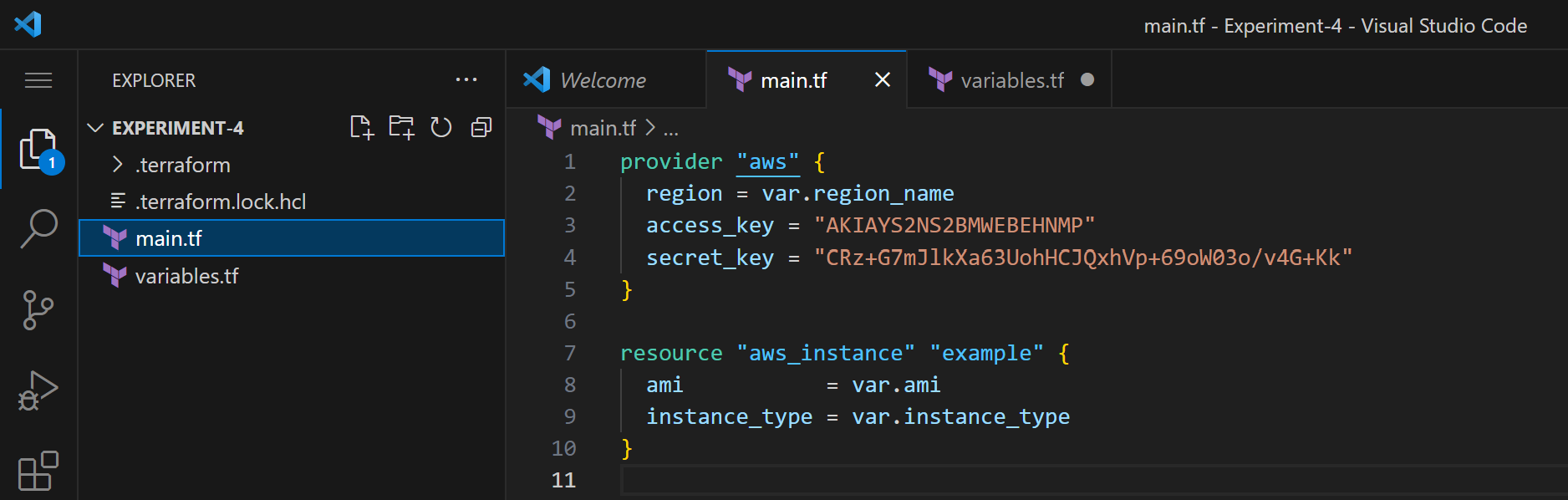
Objective: Learn how to define and use variables in Terraform configuration.

Steps: 1. Create a Terraform Directory:

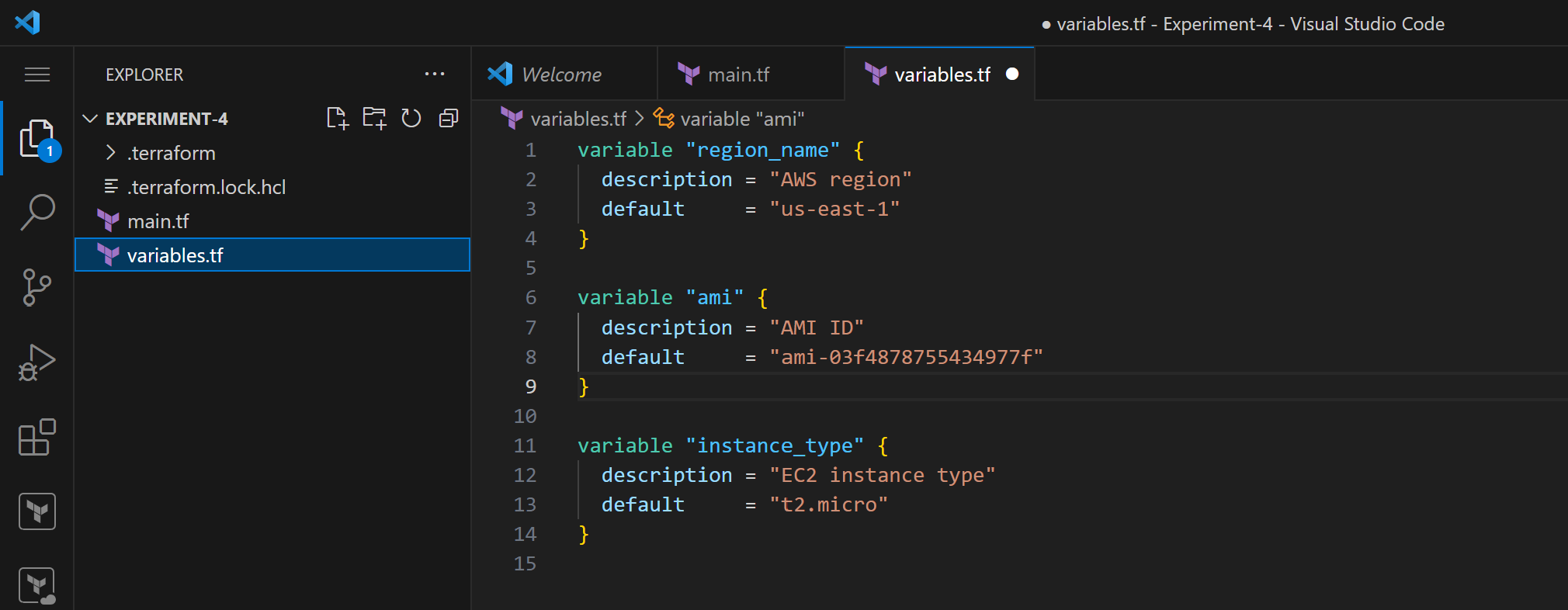
• Create a new directory for your Terraform project.

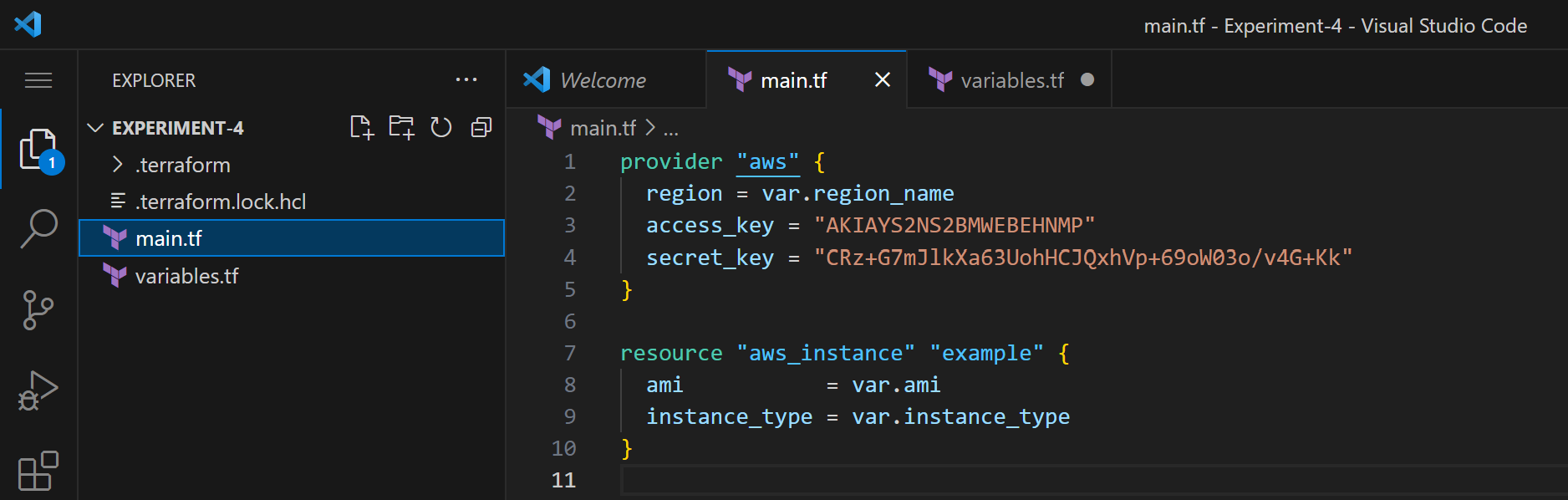
2. Create a Terraform Configuration File:

• Create a file named main.tf within your project directory. # main.tf

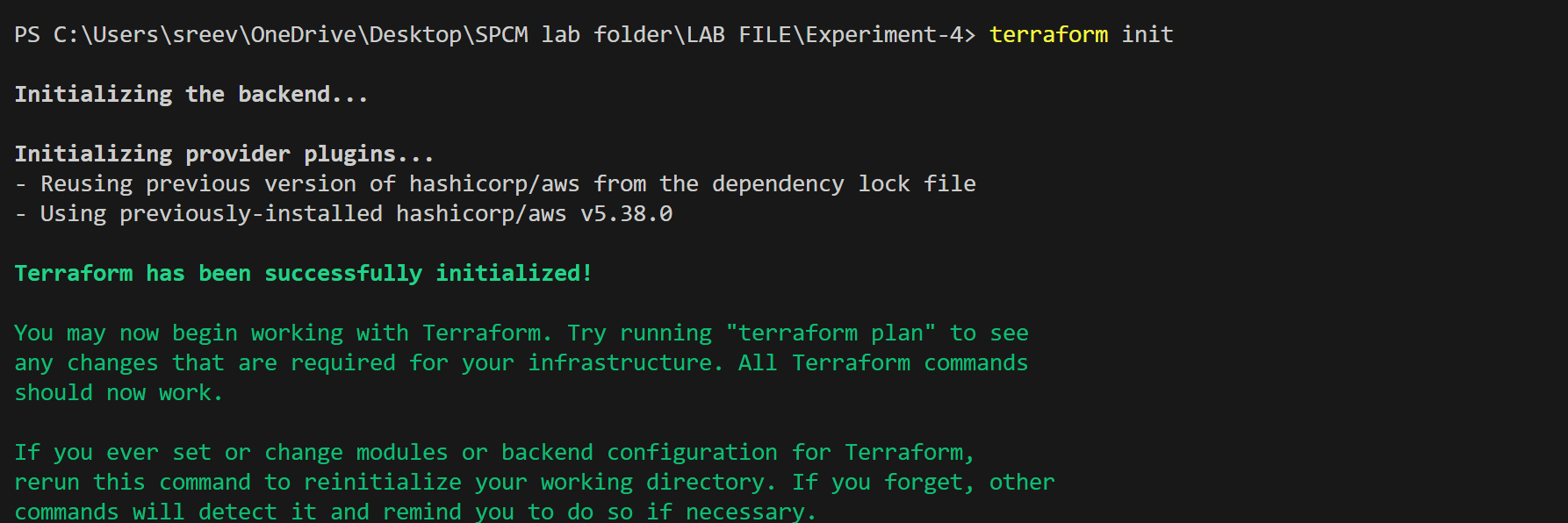


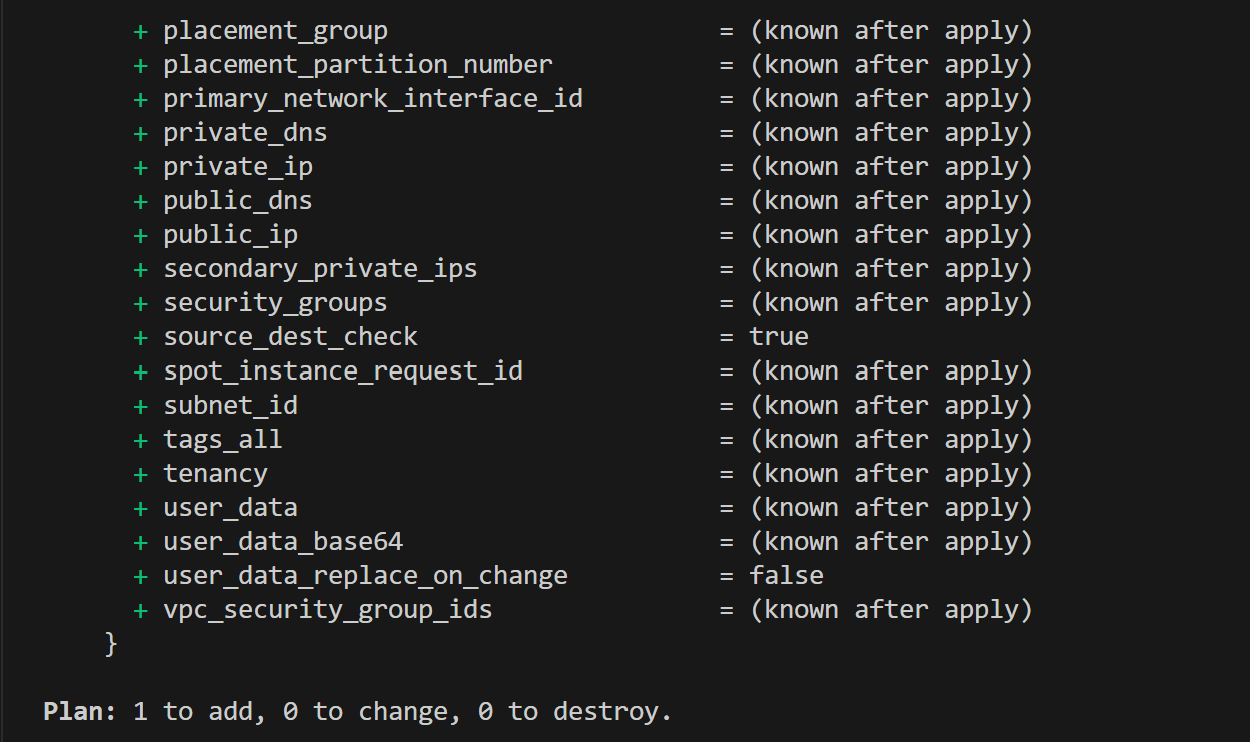
3. Define Variables: • Open a new file named variables.tf. Define variables for region, ami, and instance\_type. # variables.tf

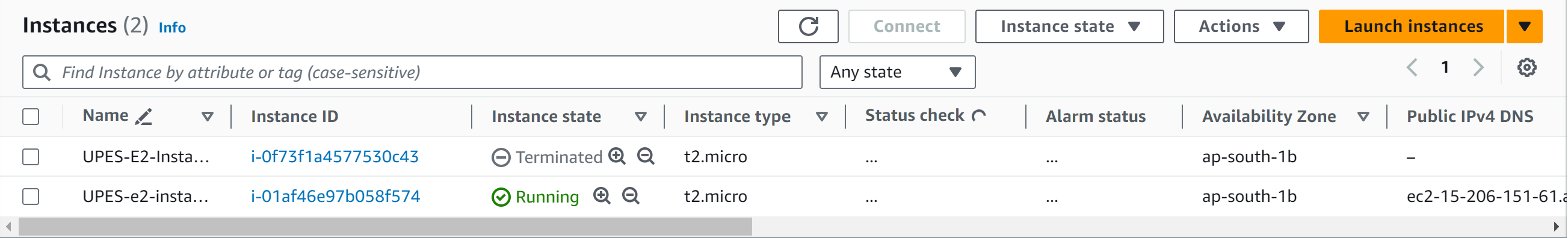


4. Use Variables in main.tf: • Modify main.tf to use the variables. # main.tf

5. Initialize and Apply: • Run the following Terraform commands to initialize and apply the configuration.







Observe how the region changes based on the variable override.

6. Clean Up: After testing, you can clean up resources.

