

System Provisioning

&

Configuration Management

Submitted to: **Dr**. **Hitesh Kumar Sharma**

Name: **Pulkit** **Heda**

SAP ID: **500095602**

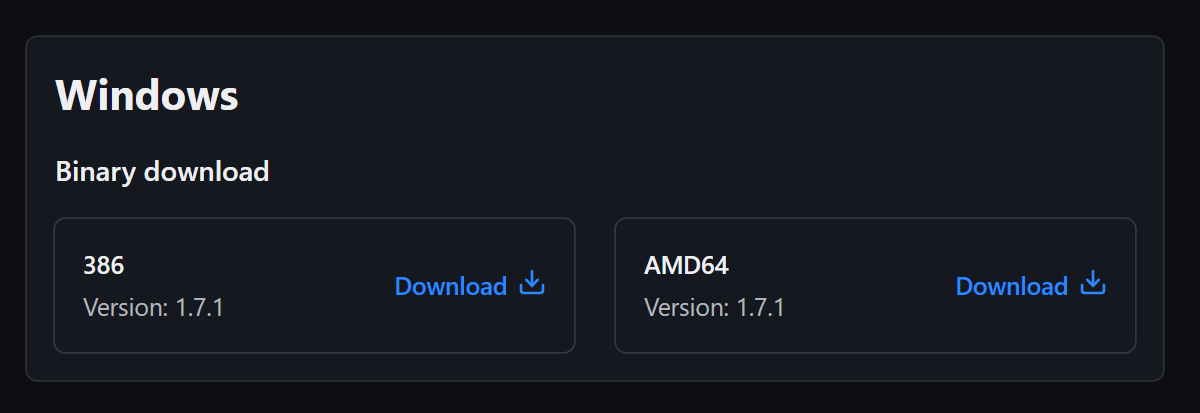
Batch: **BTech** **CSE** **DevOps**-**B3**

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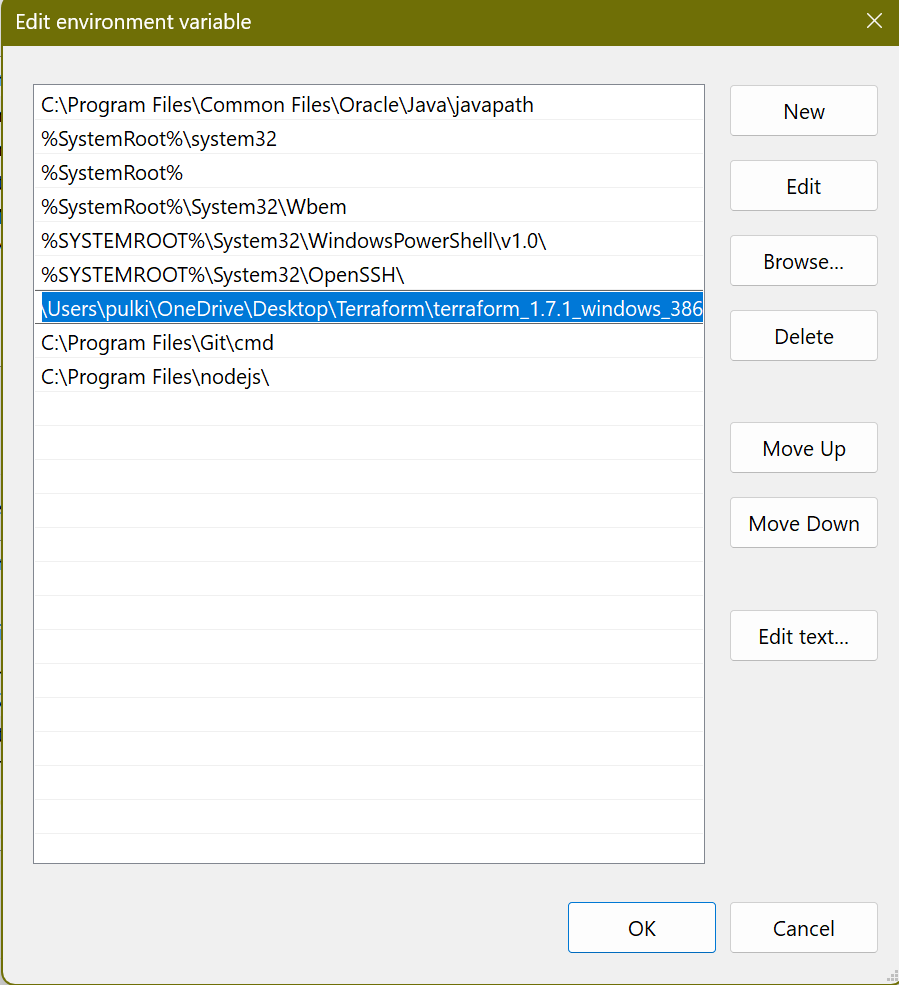
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| --- | --- | --- | --- |
| Sno. | Experiment | Date | Sign |
| 1. | Install Terraform on Windows |  |  |
| 2. | Terraform AWS Provider and IAM User Setting |  |  |
| 3. | Provisioning an EC2 Instance on AWS |  |  |
| 4. | Terraform Variables |  |  |
| 5. | Terraform Variables with Command Line Arguments |  |  |
| 6. | Terraform Multiple tfvars Files |  |  |
| 7. | Creating Multiple IAM Users in Terraform |  |  |
| 8. |  |  |  |
| 9. |  |  |  |
| 10. |  |  |  |
| 11. |  |  |  |
| 12. |  |  |  |

***Experiment-1***

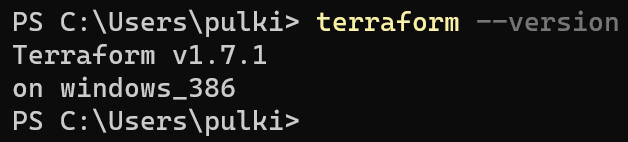
1. Download Terraform File for Windows



1. Add Terraform Path to System Environment Variables:



1. Verify Windows Terraform Installation:

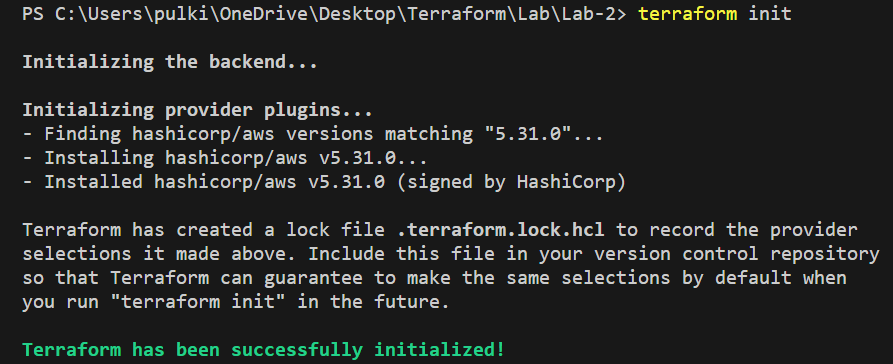


***Experiment-2***

1. Create Terraform Configuration File (main.tf):

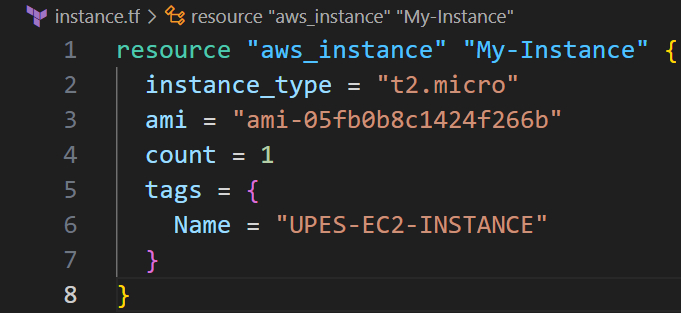


1. Initialize Terraform:

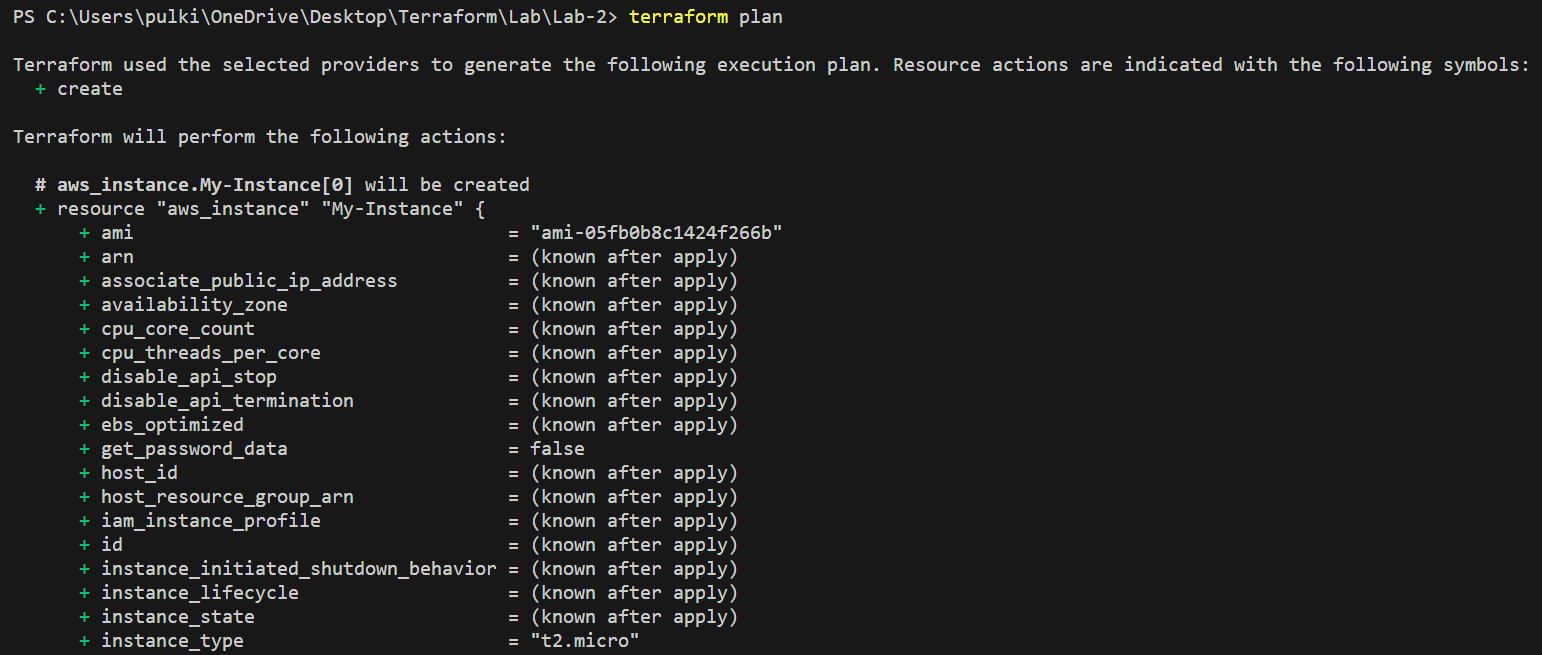


***Experiment-3***

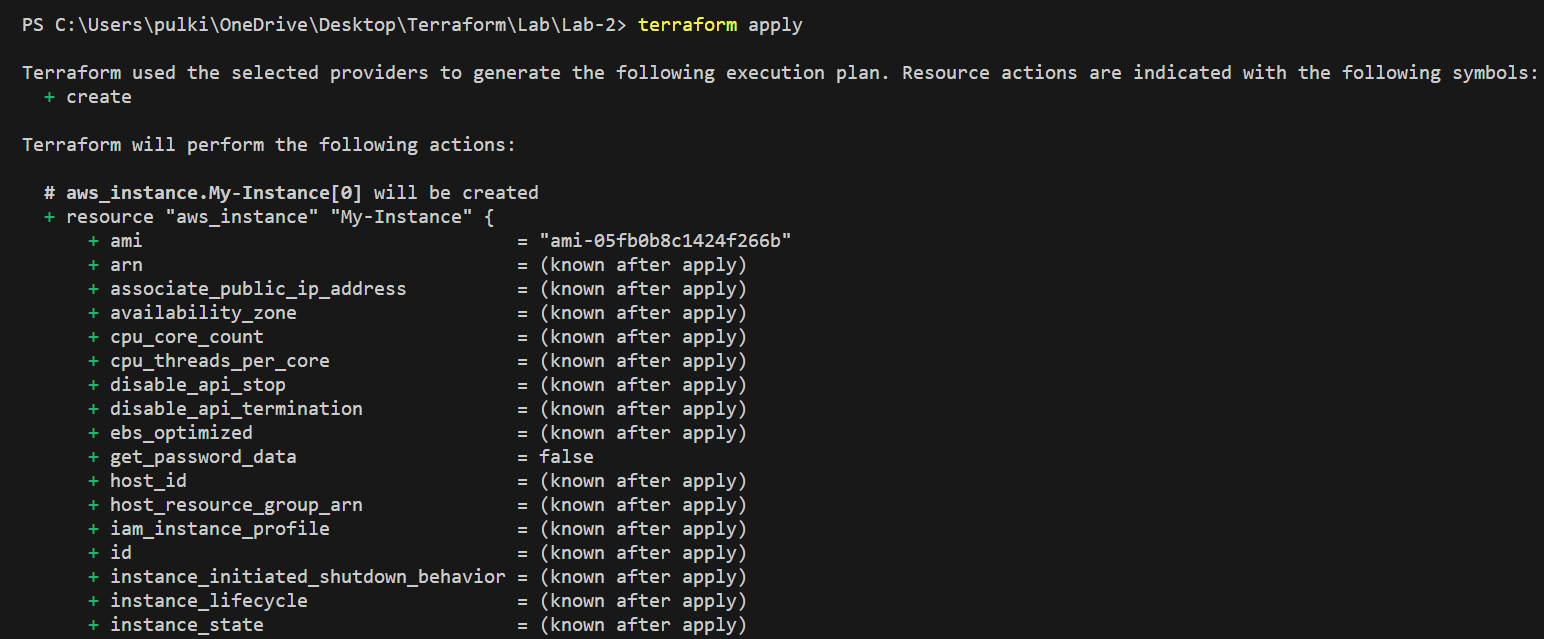
1. Create Terraform Configuration File for EC2 instance (instance.tf):



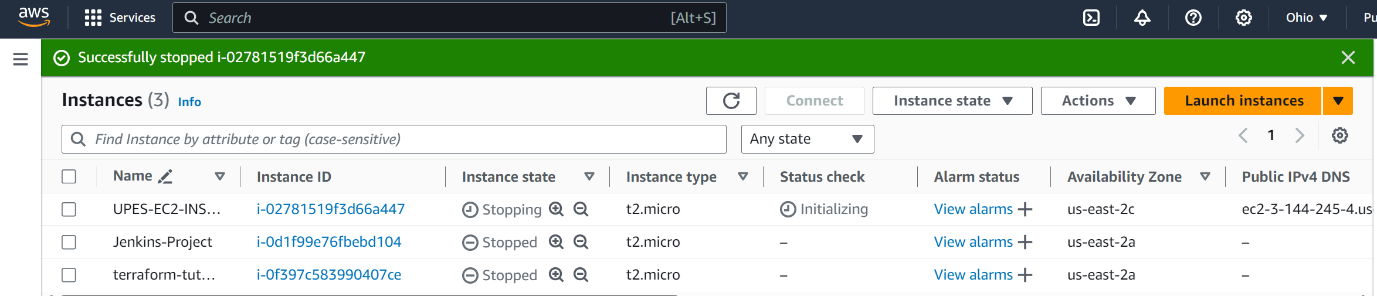
1. Review Plan:



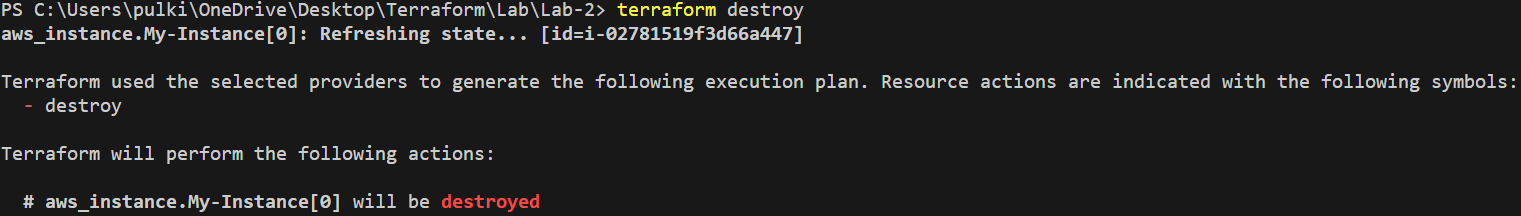
1. Apply Changes:



1. Verify Resources:

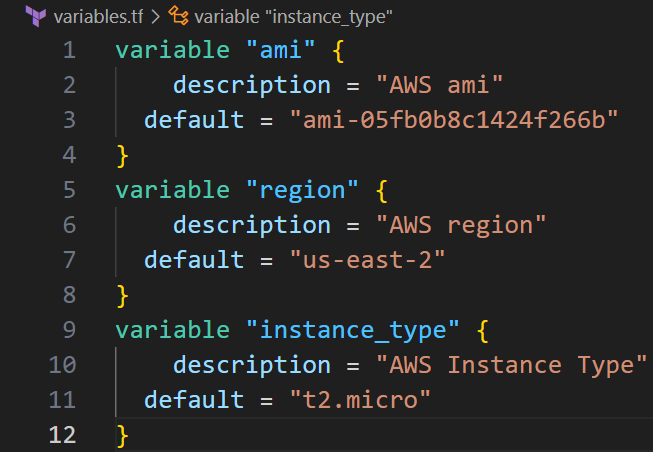


1. Cleanup Resources:

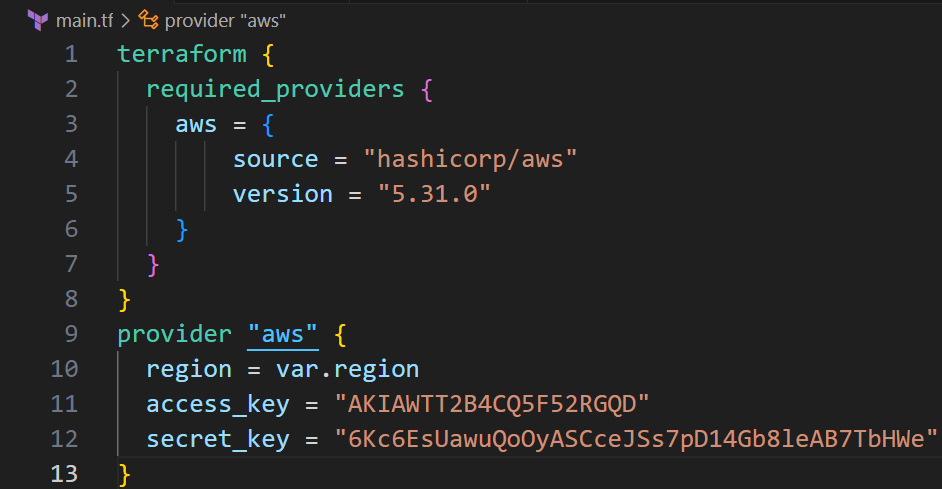


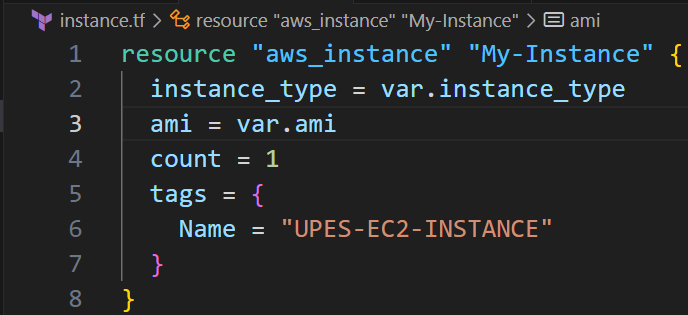
***Experiment-4***

1. Define Variables:

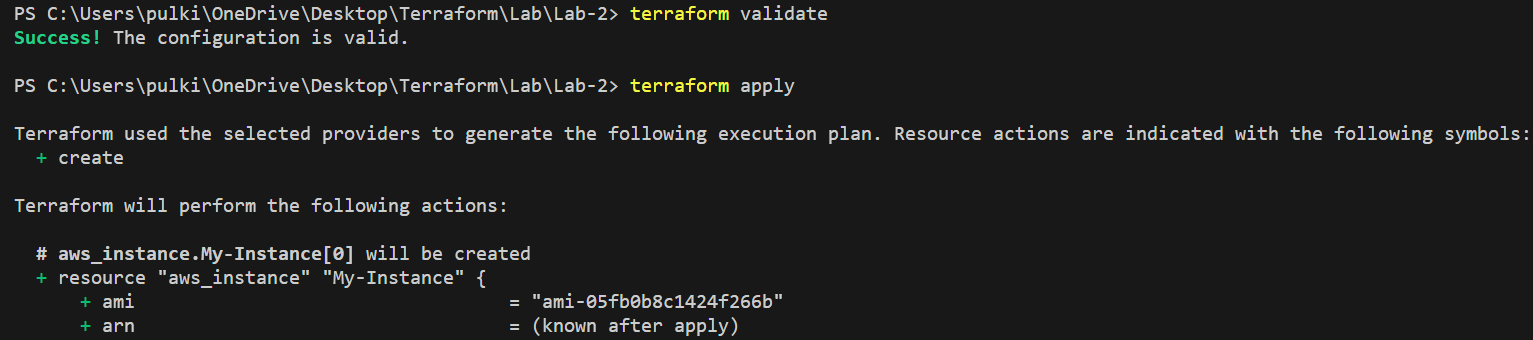


1. Use Variables in main.tf:

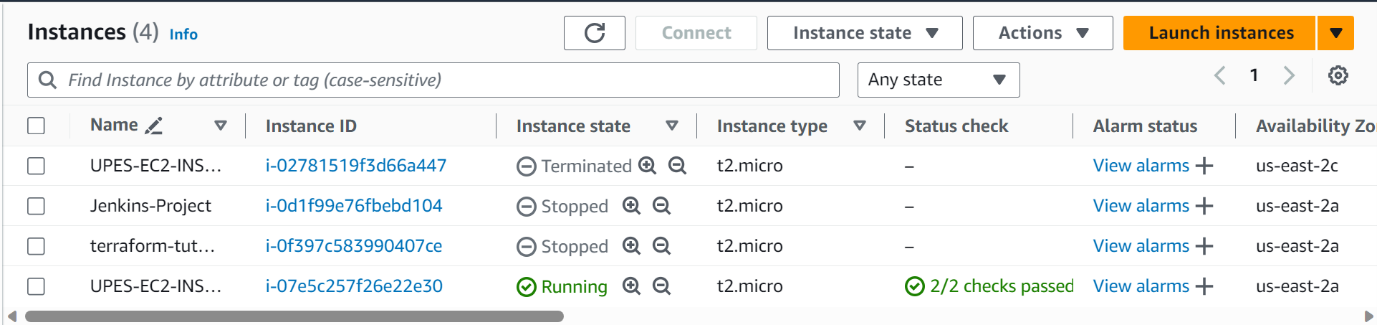




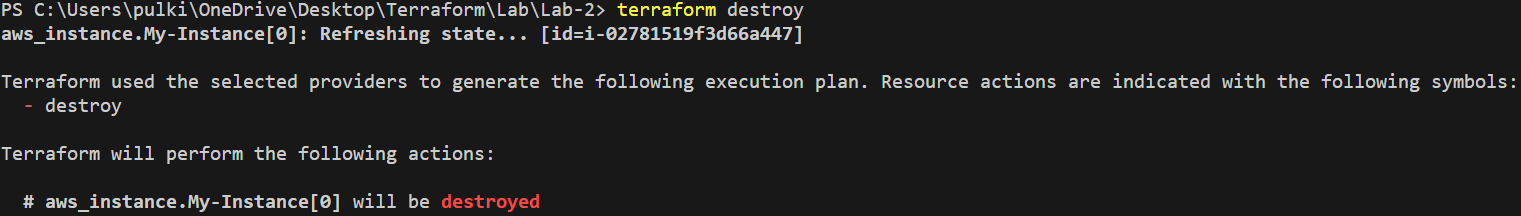
1. Initialize and Apply:



1. Verify:

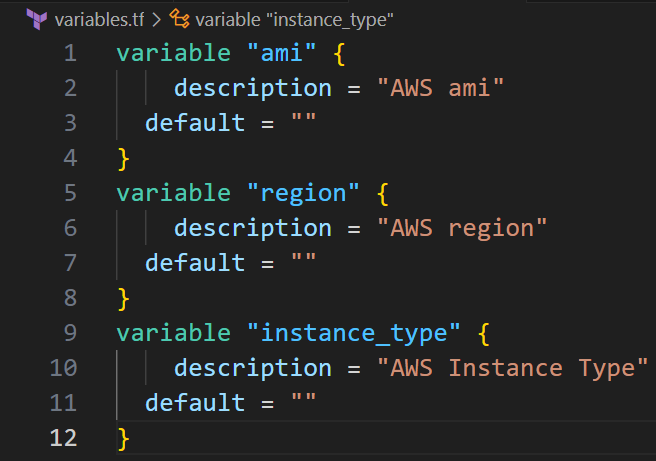


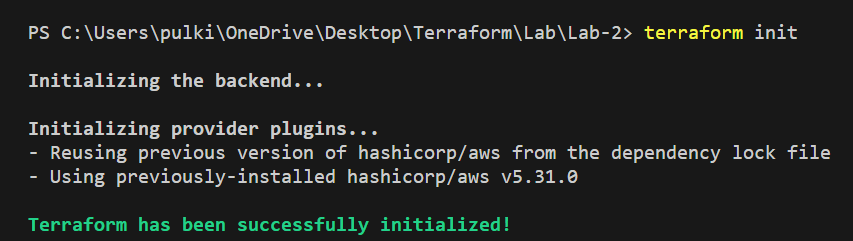
1. Clean Up:

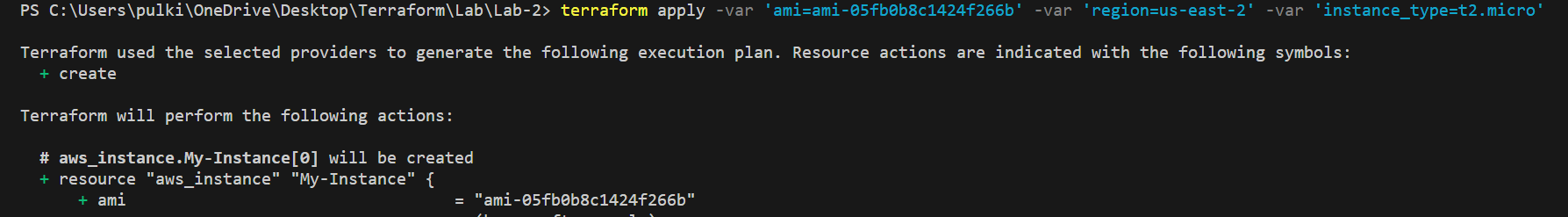


***Experiment-5***

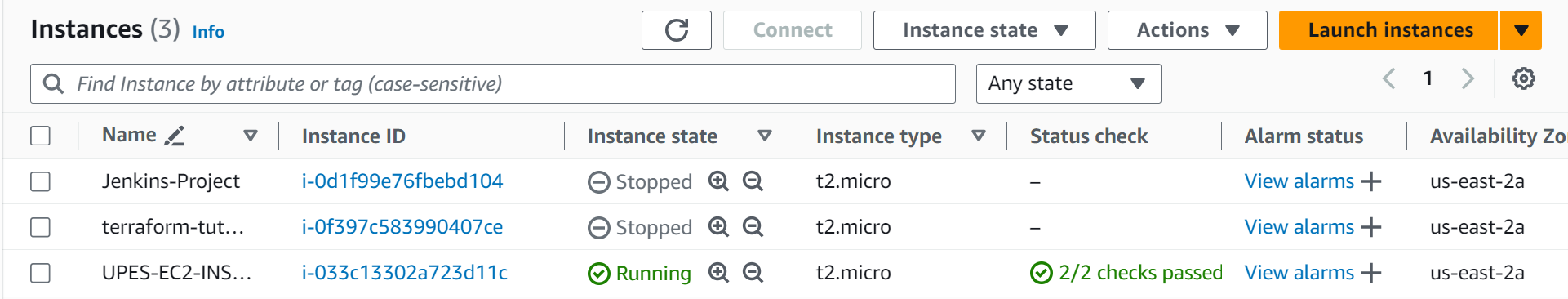
1. Use Command Line Arguments:







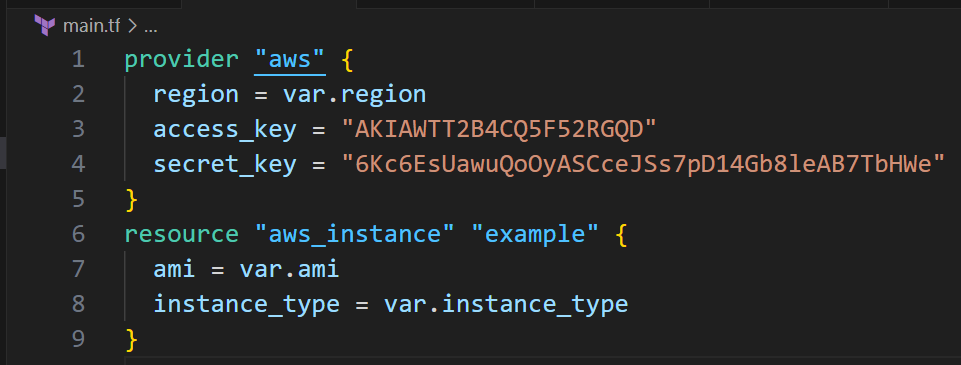
1. Test and Verify:

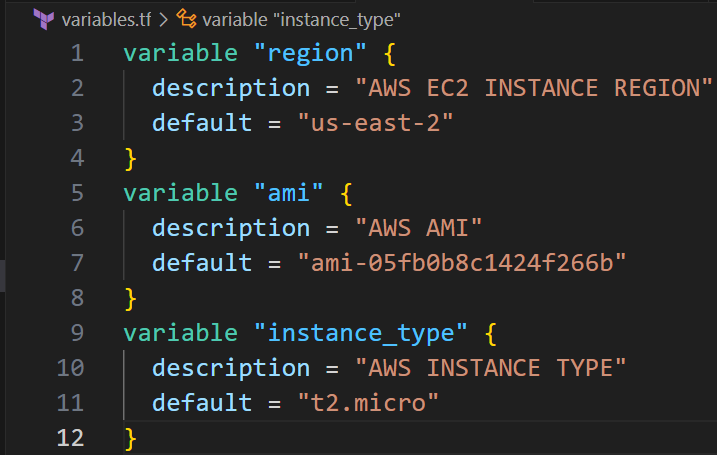


1. Clean Up:

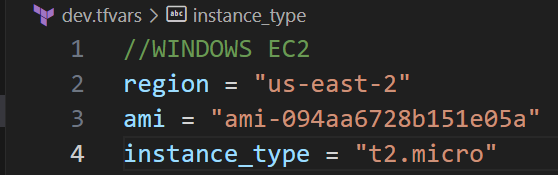
***Experiment***-***6***

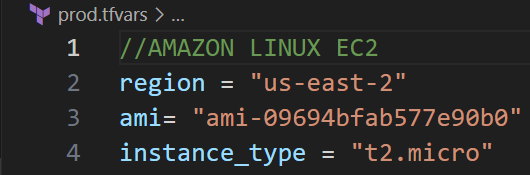
1. Create a Terraform Directory:



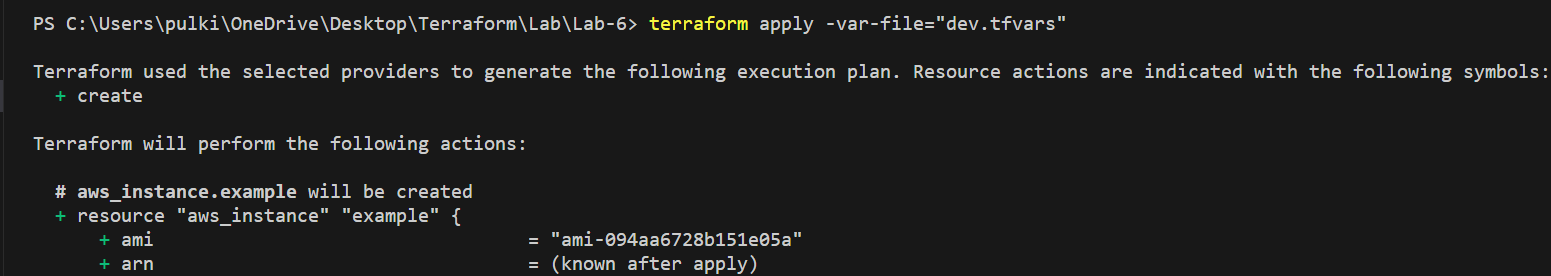


1. Create Multiple tfvars Files:

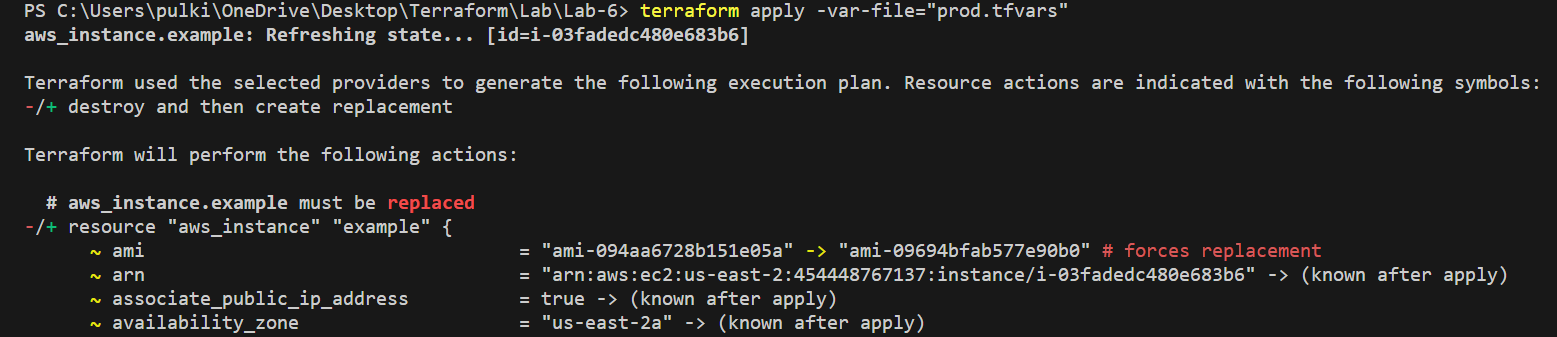




1. Initialize and Apply for Dev Environment:



1. Initialize and Apply for Prod Environment:



1. Test and Verify:

Clean Up: