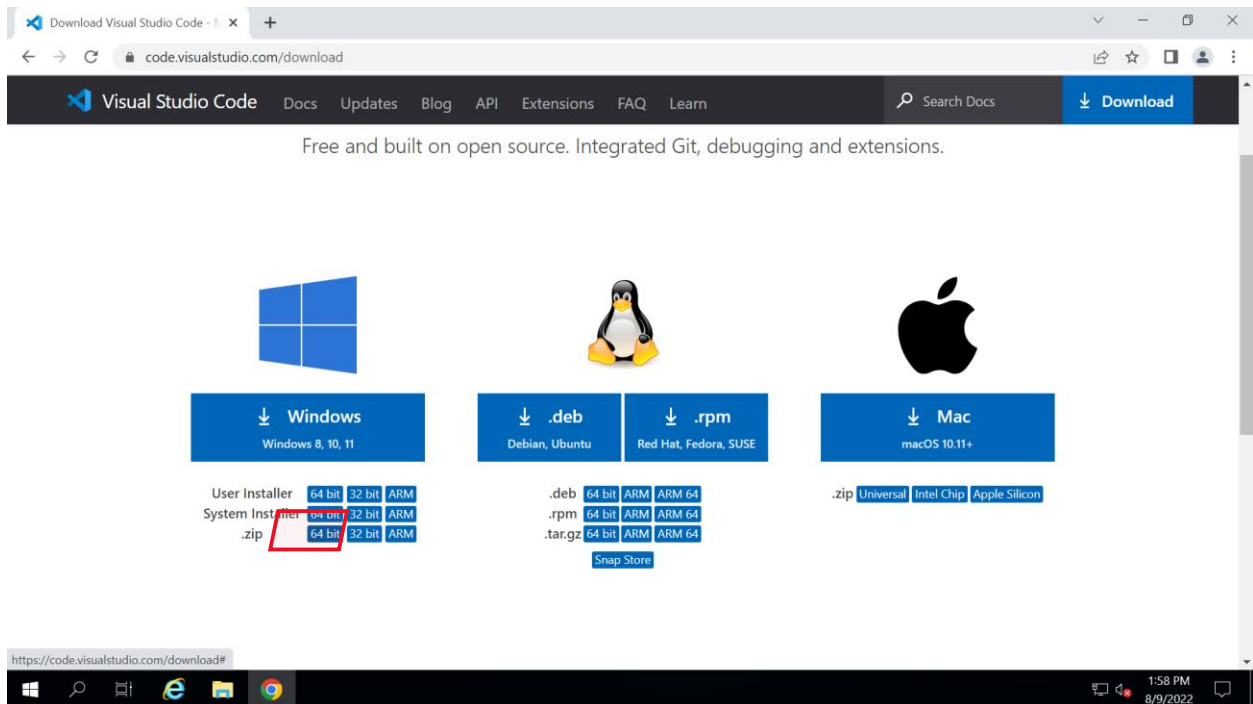
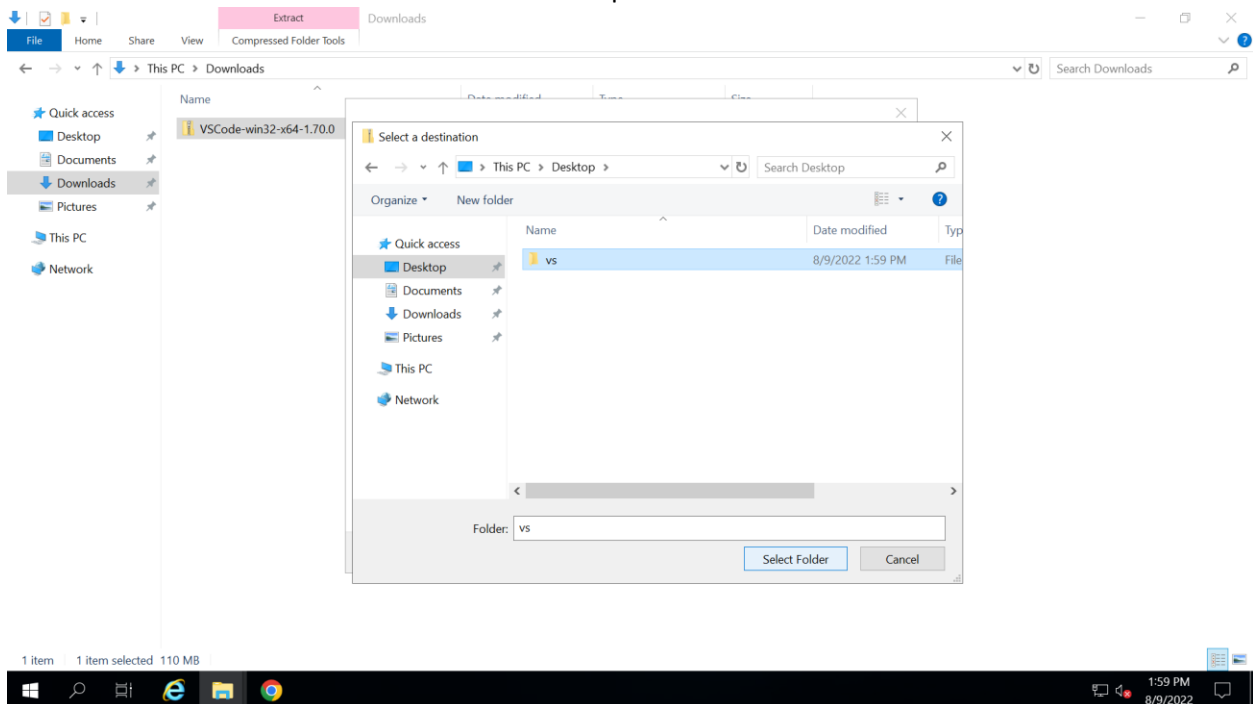


Launch EC2 via terraform :-

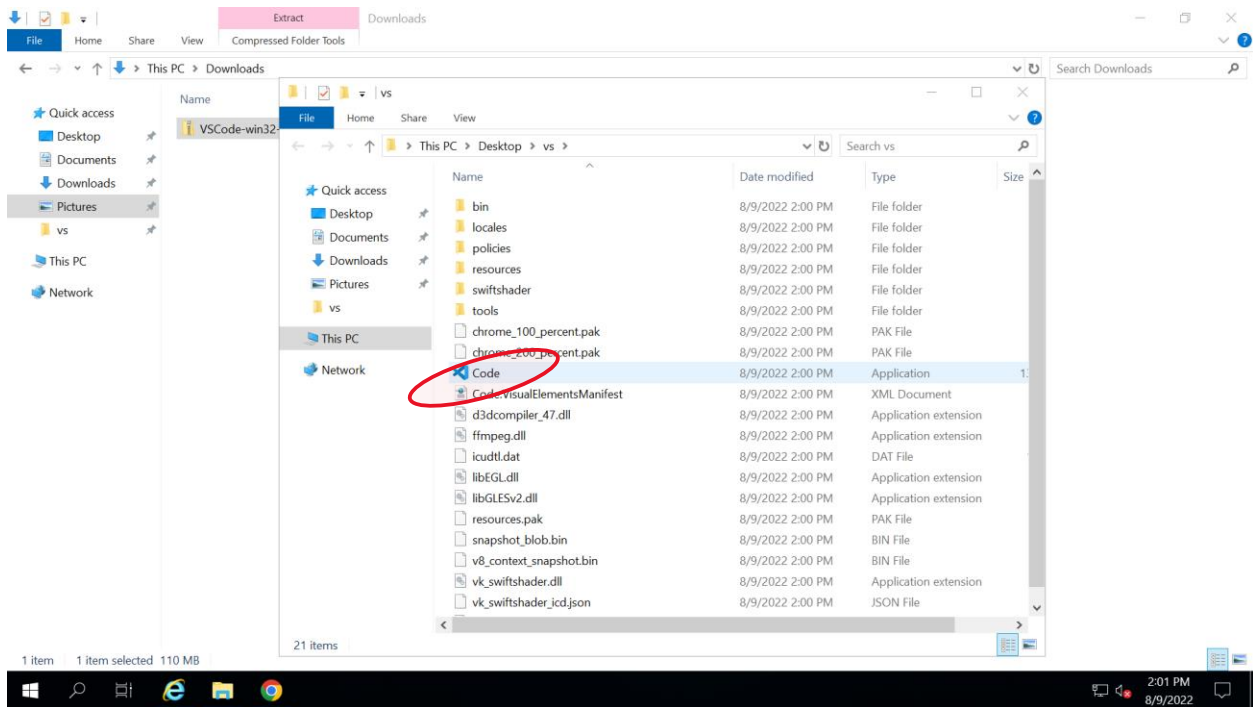
Launch windows ec2 machine and download Visual Studio code zip file



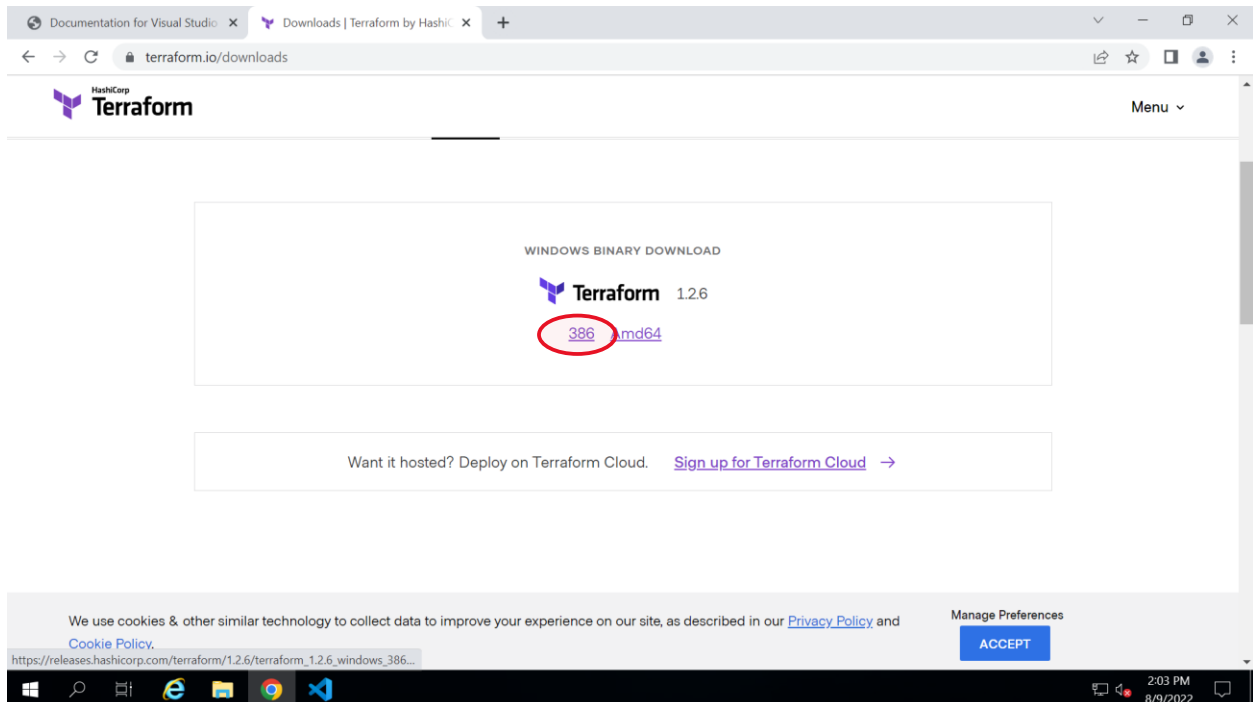
Create a new folder and extract the downloaded zip file to that folder.



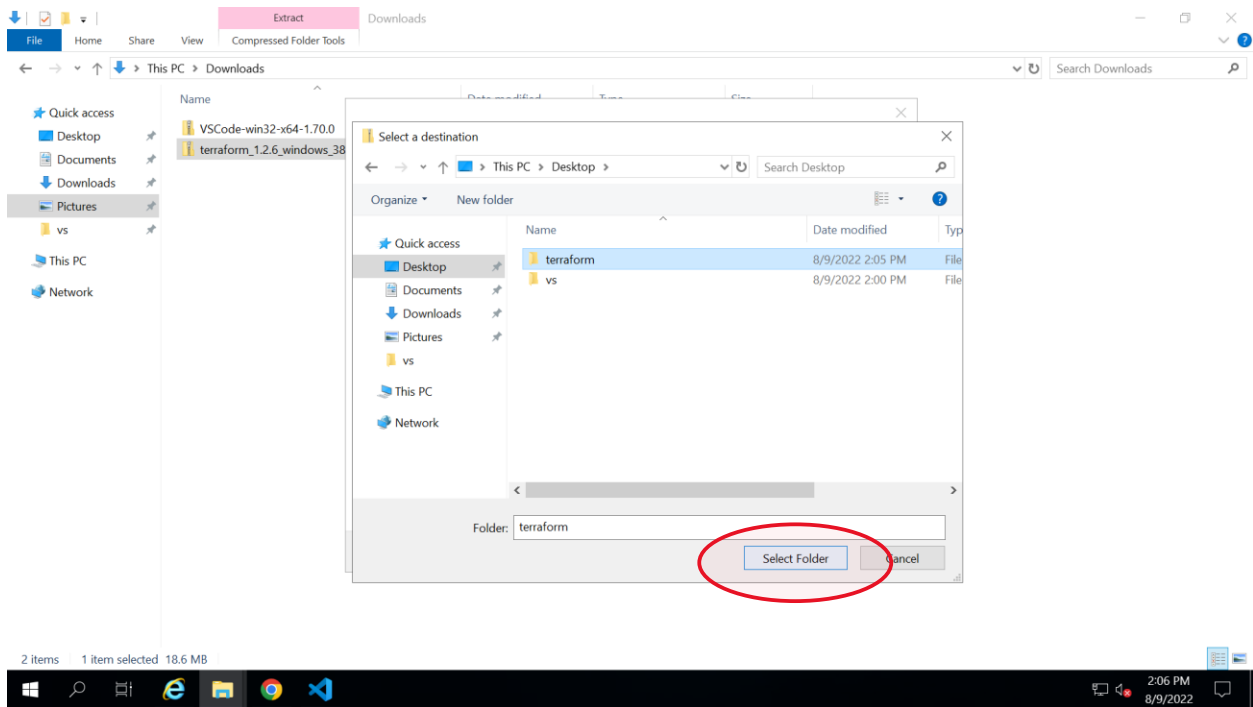
Open Code from the extracted files.



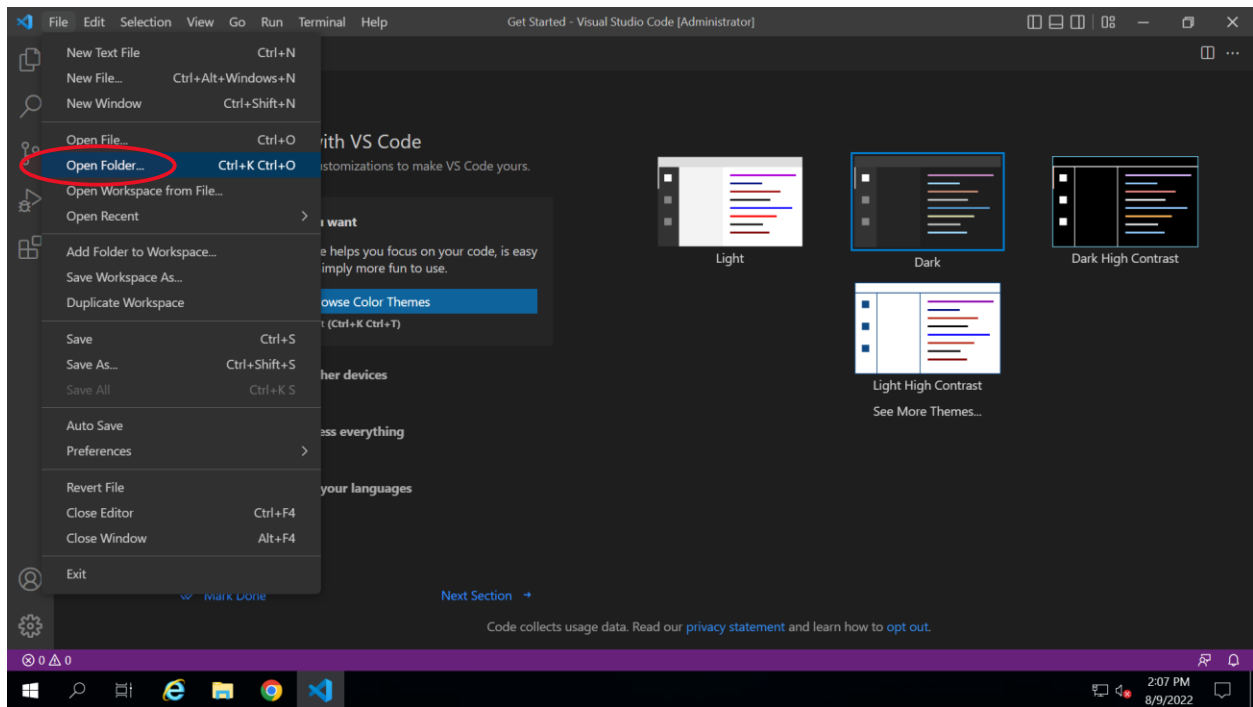
Click on 386 and download terraform

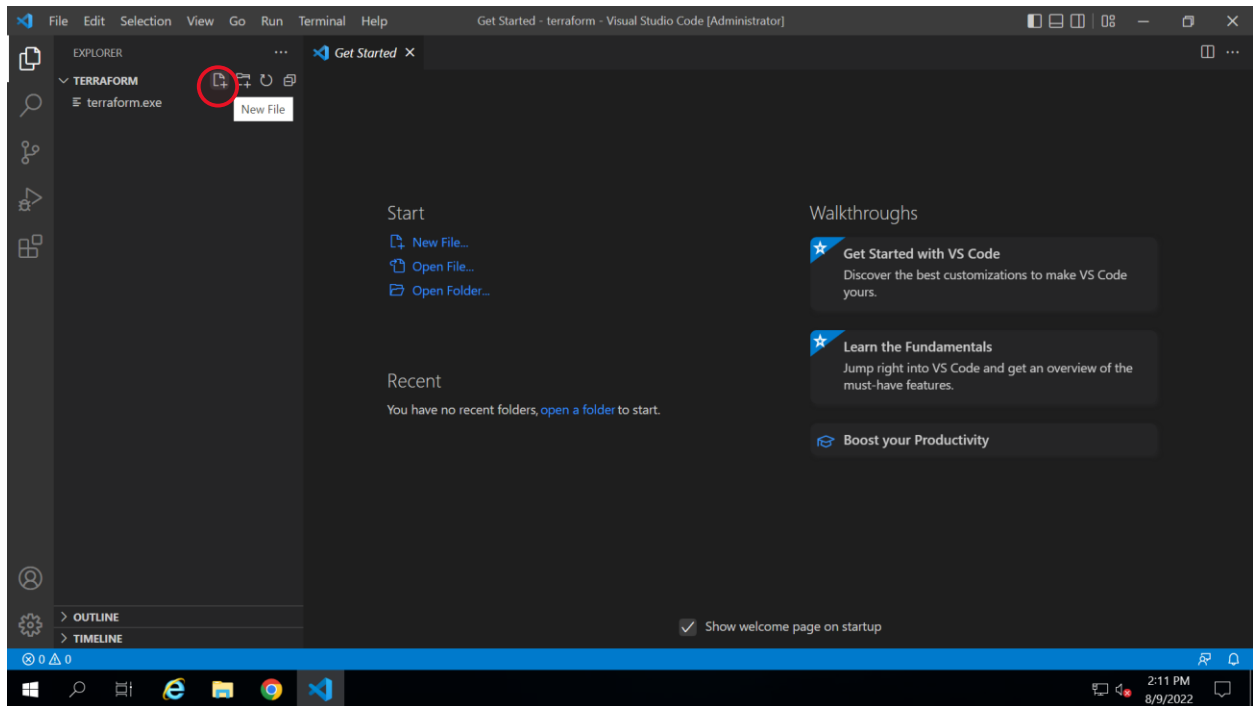
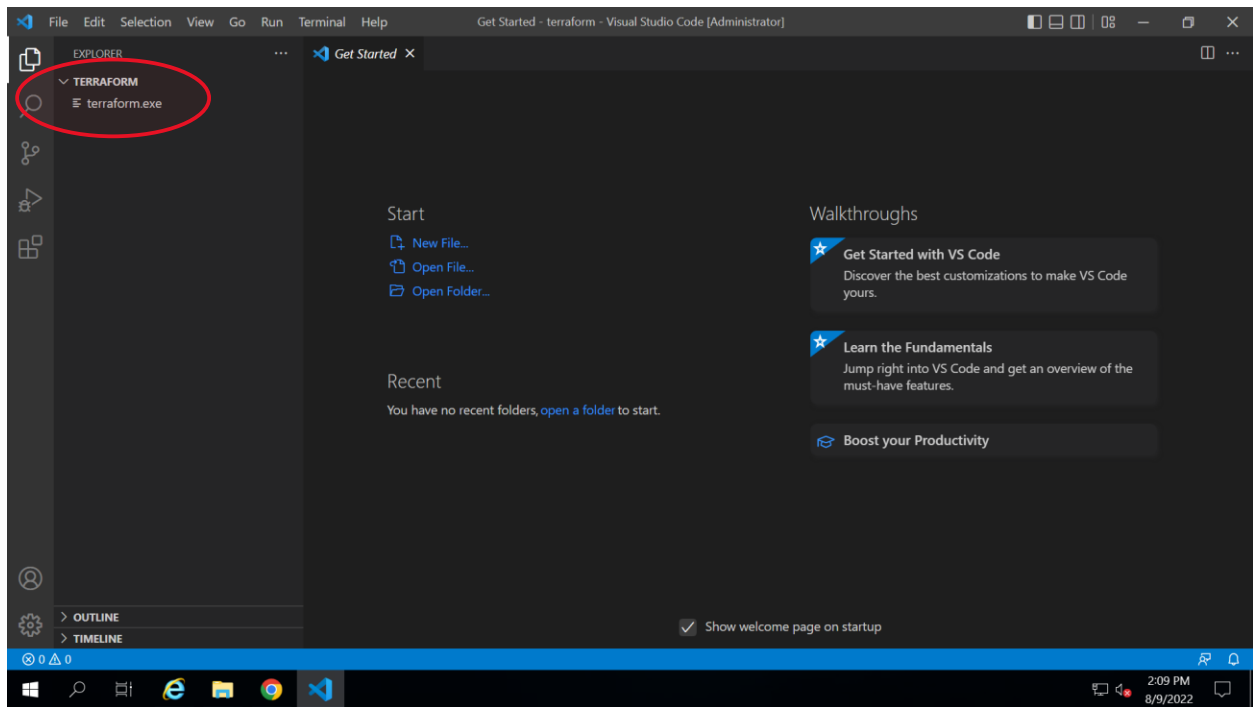


Create new folder and extract the downloaded terraform to that folder

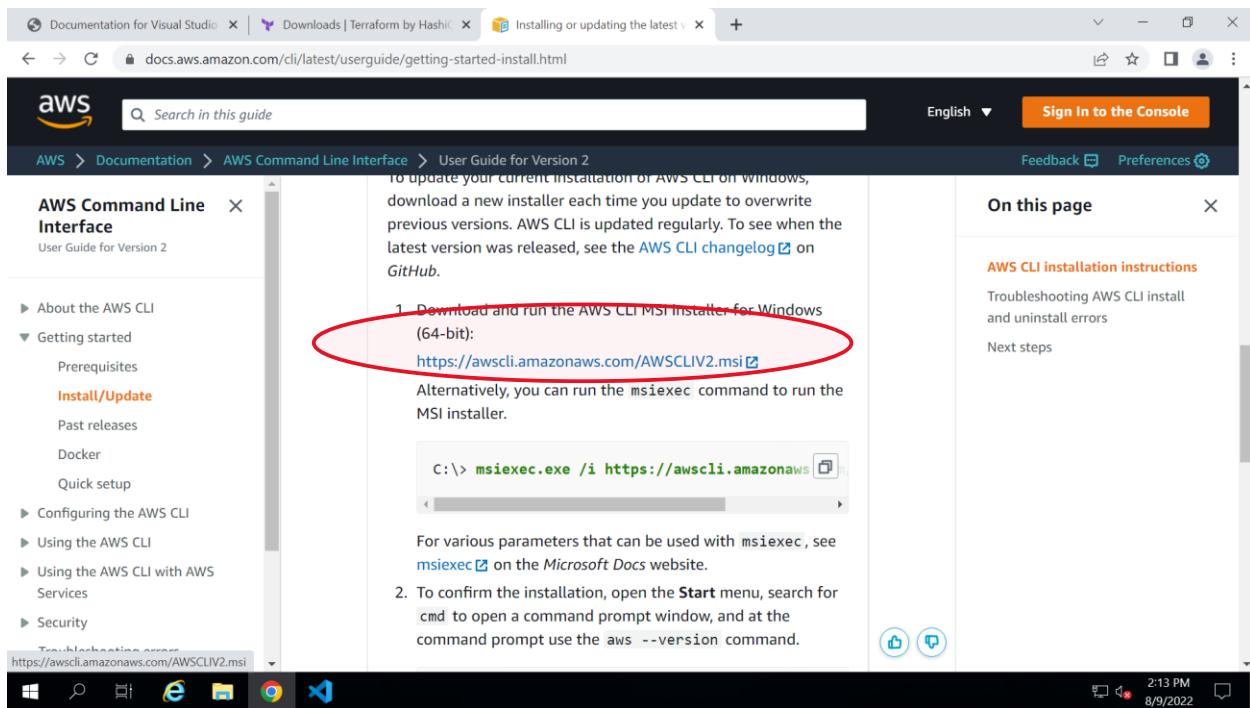
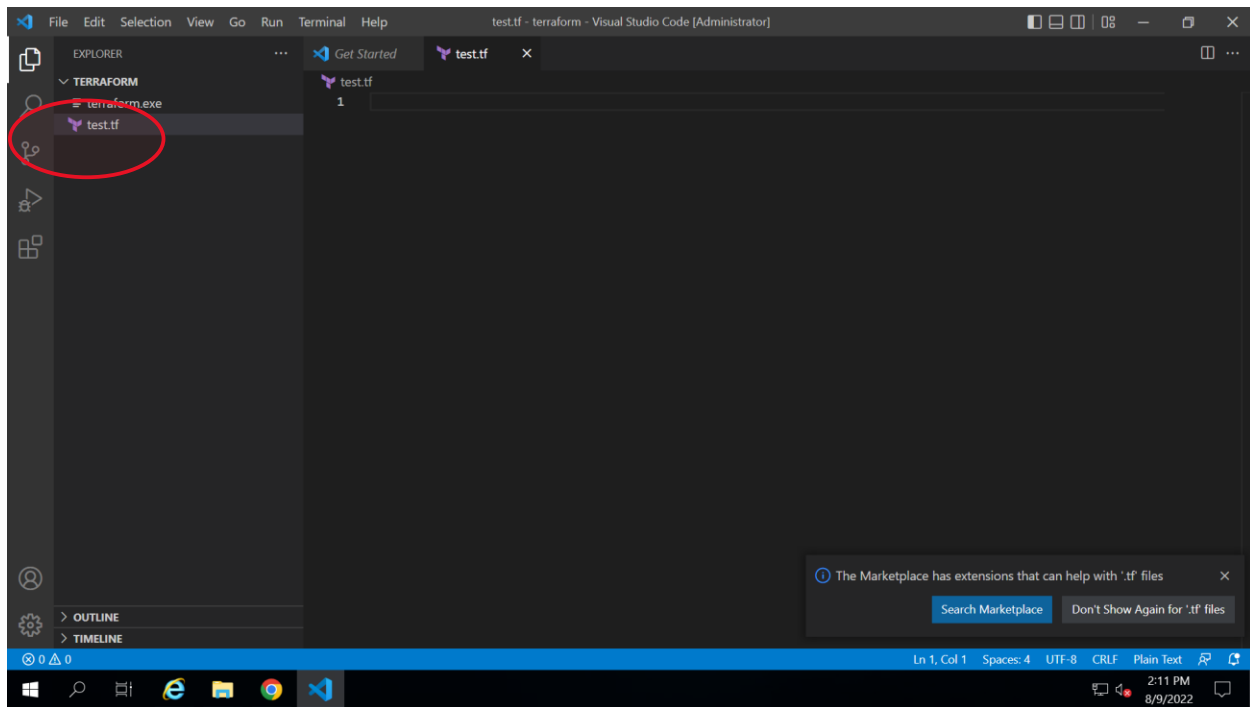


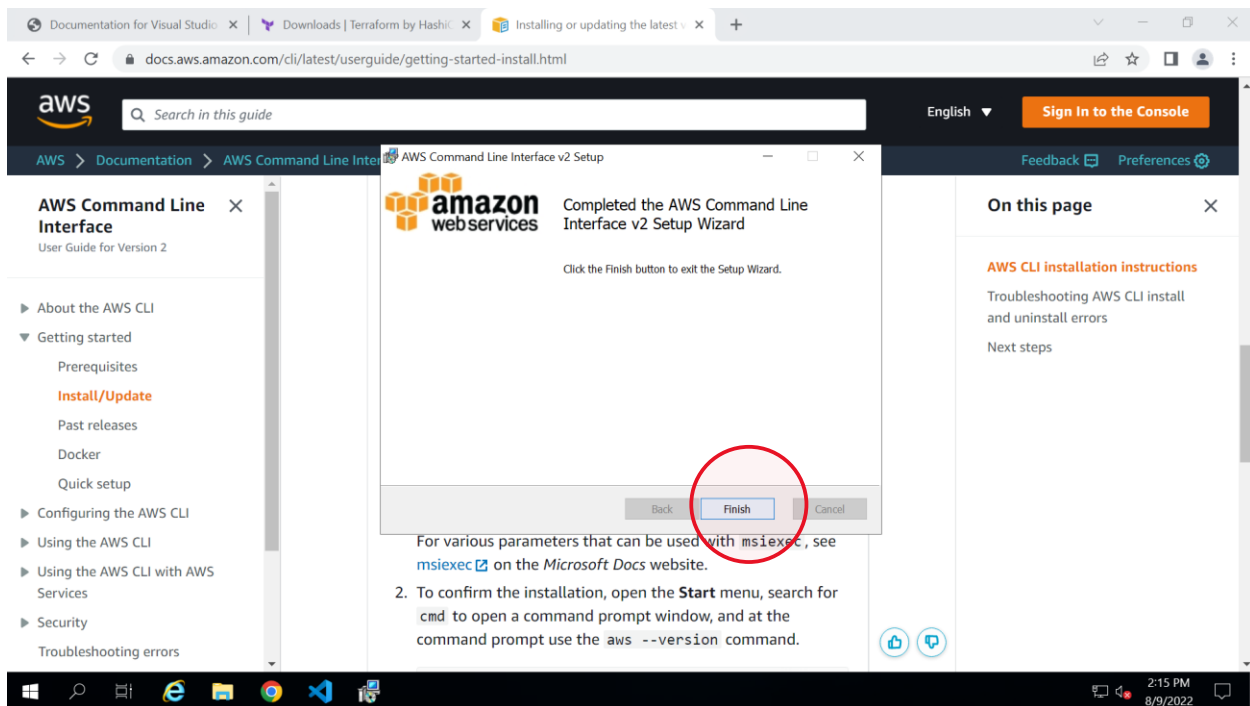
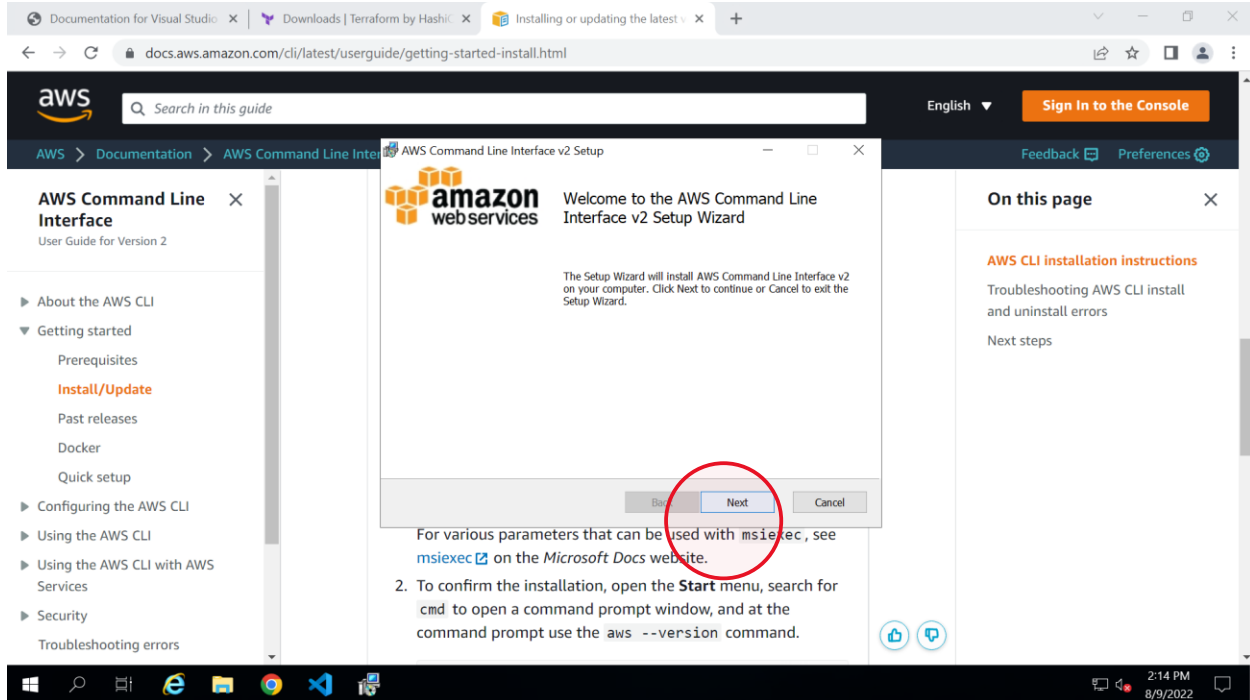
Open terraform folder in VS code

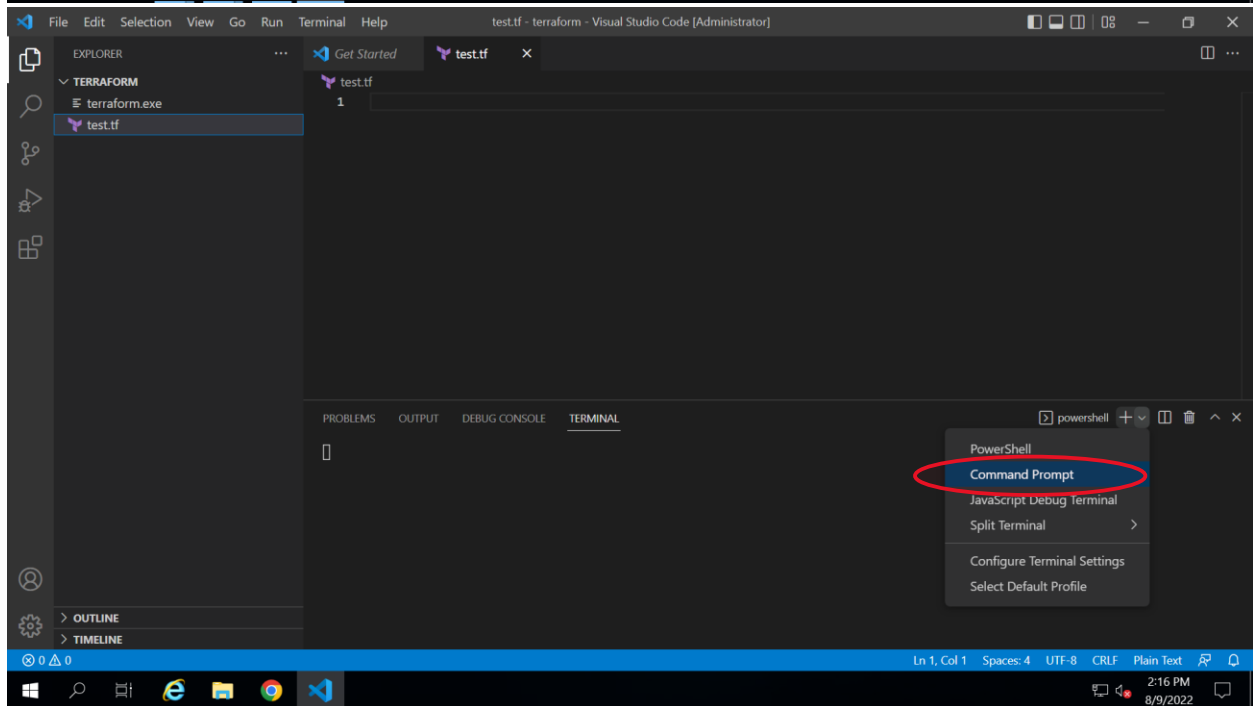
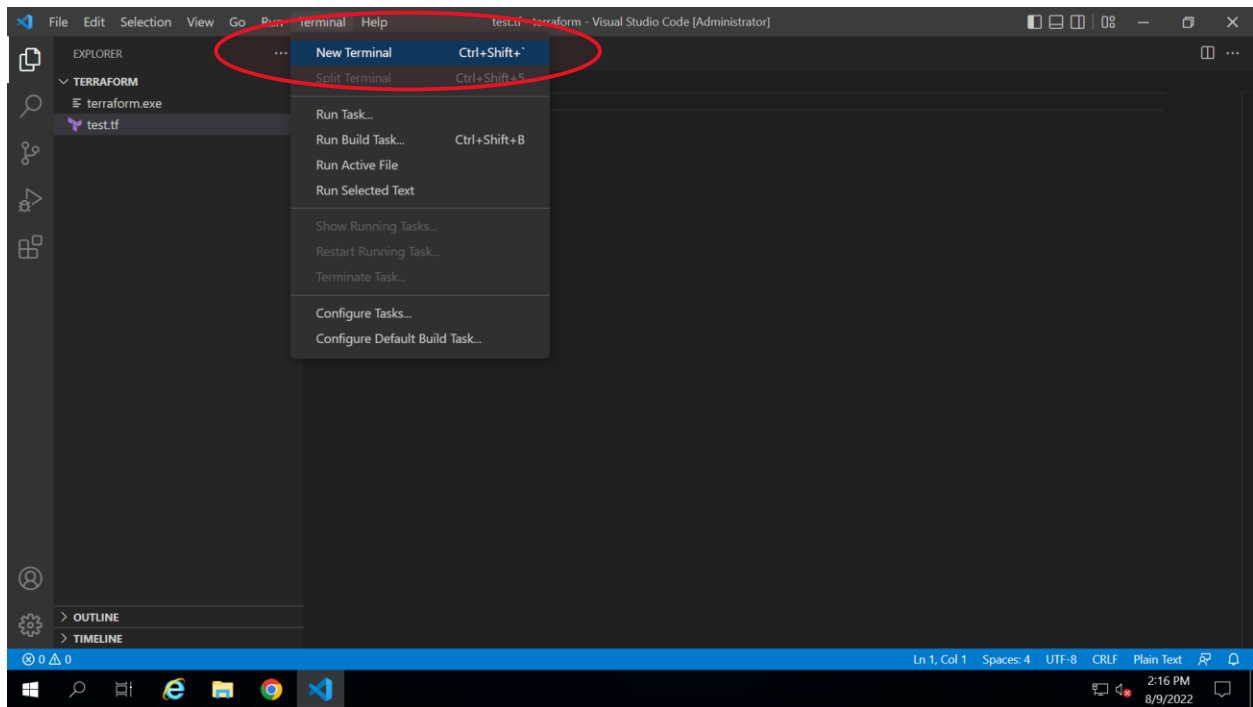


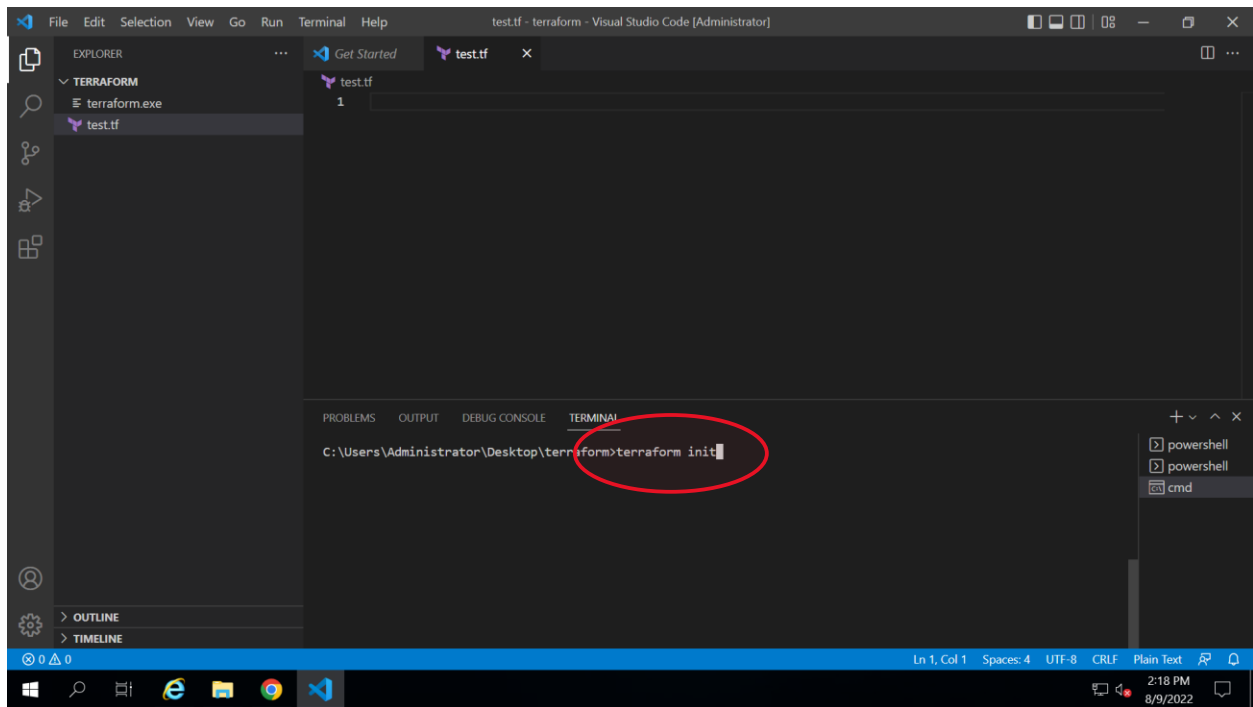


Create a file with the extension of .tf









This screenshot shows the Visual Studio Code interface with a file named 'test.tf' open. The Explorer sidebar on the left shows a folder named 'TERRAFORM' containing 'terraform.exe' and 'test.tf'. The Terminal panel at the bottom displays the command prompt 'C:\Users\Administrator\Desktop\terraform>terraform init' with a red circle highlighting the command. The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'Plain Text', and the time '2:18 PM 8/9/2022'.

```
File Edit Selection View Go Run Terminal Help test.tf - terraform - Visual Studio Code [Administrator]

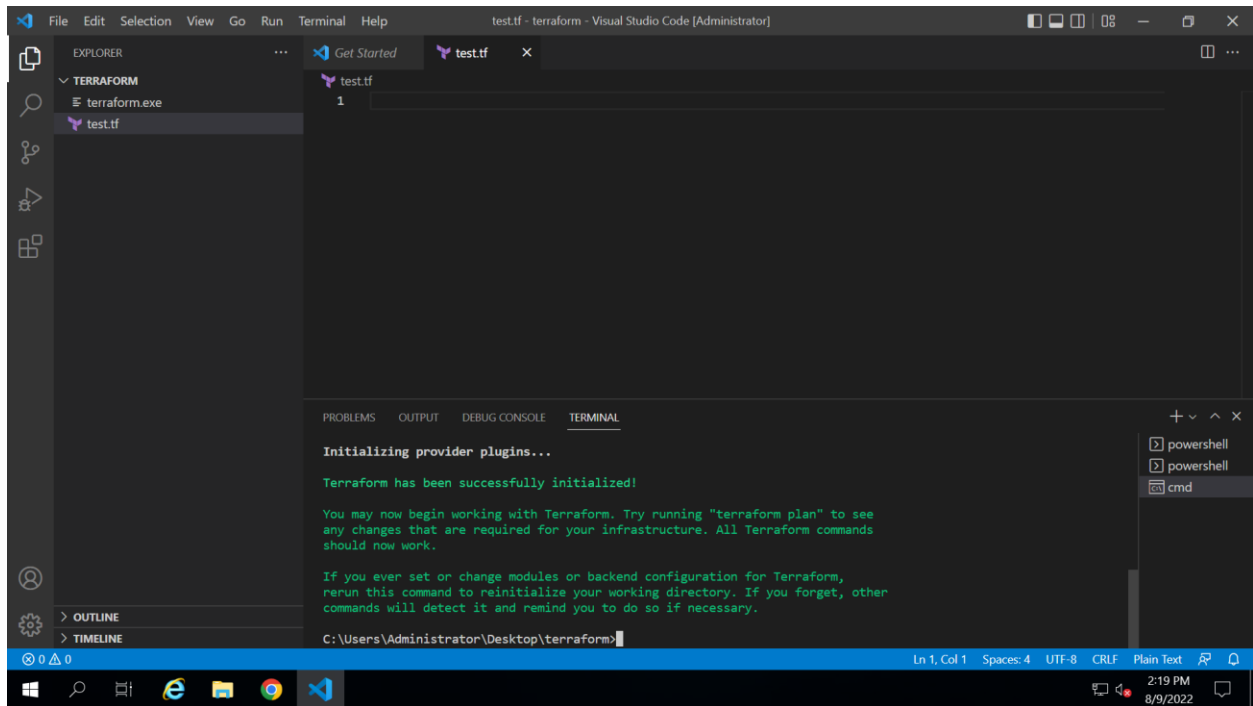
EXPLORER
TERRAFORM
  terraform.exe
  test.tf

test.tf
1

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C:\Users\Administrator\Desktop\terraform>terraform init

+ - ^ x
powershell
powershell
cmd

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Plain Text 2:18 PM 8/9/2022
```



This screenshot shows the same Visual Studio Code interface after the 'terraform init' command has been executed. The terminal output displays the following messages: 'Initializing provider plugins...', 'Terraform has been successfully initialized!', and instructions on how to use Terraform. The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'Plain Text', and the time '2:19 PM 8/9/2022'.

```
File Edit Selection View Go Run Terminal Help test.tf - terraform - Visual Studio Code [Administrator]

EXPLORER
TERRAFORM
  terraform.exe
  test.tf

test.tf
1

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Initializing provider plugins...
Terraform has been successfully initialized!
You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.
If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
C:\Users\Administrator\Desktop\terraform>

+ - ^ x
powershell
powershell
cmd

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Plain Text 2:19 PM 8/9/2022
```

<https://registry.terraform.io/providers/hashicorp/aws/latest/docs>



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registry.terraform.io/providers/hashicorp/aws/latest/docs

Terraform Registry

Providers / hashicorp / aws / Version 4.25.0 / Latest Version

aws

Overview Documentation USE PROVIDER

### AWS Provider

Use the Amazon Web Services (AWS) provider to interact with the many resources supported by AWS. You must configure the provider with the proper credentials before you can use it.

Use the navigation to the left to read about the available resources.

To learn the basics of Terraform using this provider, follow the hands-on [get started tutorials](#) on HashiCorp's Learn platform. Interact with AWS services, including Lambda, RDS, and IAM by following the [AWS services tutorials](#).

#### Example Usage

[Authentication and Configuration](#)

[AWS Configuration Reference](#)

[Custom User-Agent Information](#)

[Argument Reference](#)

[Getting the Account ID](#)

[Report an issue](#)

aws provider

- Guides
- ACM (Certificate Manager)
- ACM PCA (Certificate Manager Private Certificate Authority)
- AMP (Managed Prometheus)
- API Gateway
- API Gateway V2
- Account Management

https://registry.terraform.io/providers/hashicorp/aws/latest/docs#authentication-and-configuration

2:27 PM 8/9/2022

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registry.terraform.io/providers/hashicorp/aws/latest/docs#authentication-and-configuration

AWS DOCUMENTATION

Filter

- FIS (Fault Injection Simulator)
- FMS (Firewall Manager)
- FSx
- GameLift
- Global Accelerator
- Glue
- GuardDuty
- IAM (Identity & Access Management)
- IAM Access Analyzer
- Inspector
- IoT Core
- KMS (Key Management)
- Kendra
- Keyspaces (for Apache Cassandra)

### Provider Configuration

**Warning:**

Hard-coded credentials are not recommended in any Terraform configuration and risks secret leakage should this file ever be committed to a public version control system.

Credentials can be provided by adding an `access_key`, `secret_key`, and optionally `token`, to the `aws` provider block.

Usage:

```
provider "aws" {
  region = "us-west-2"
  access_key = "my-access-key"
  secret_key = "my-secret-key"
}
```

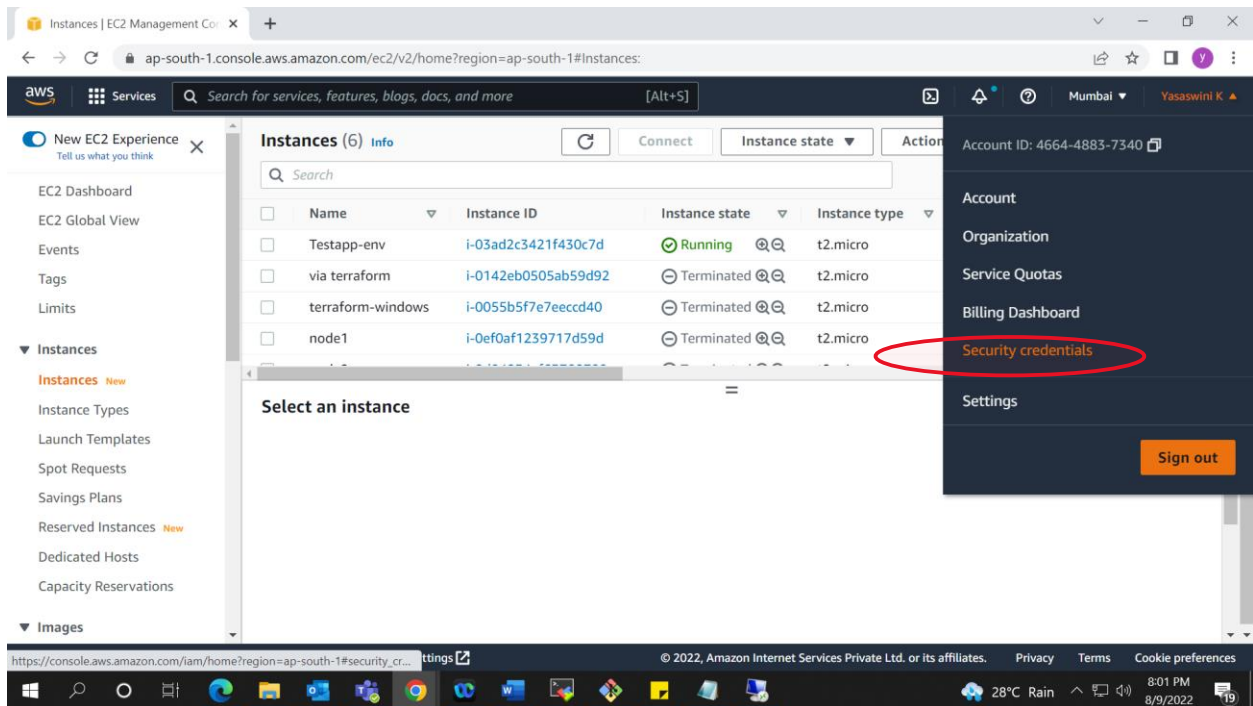
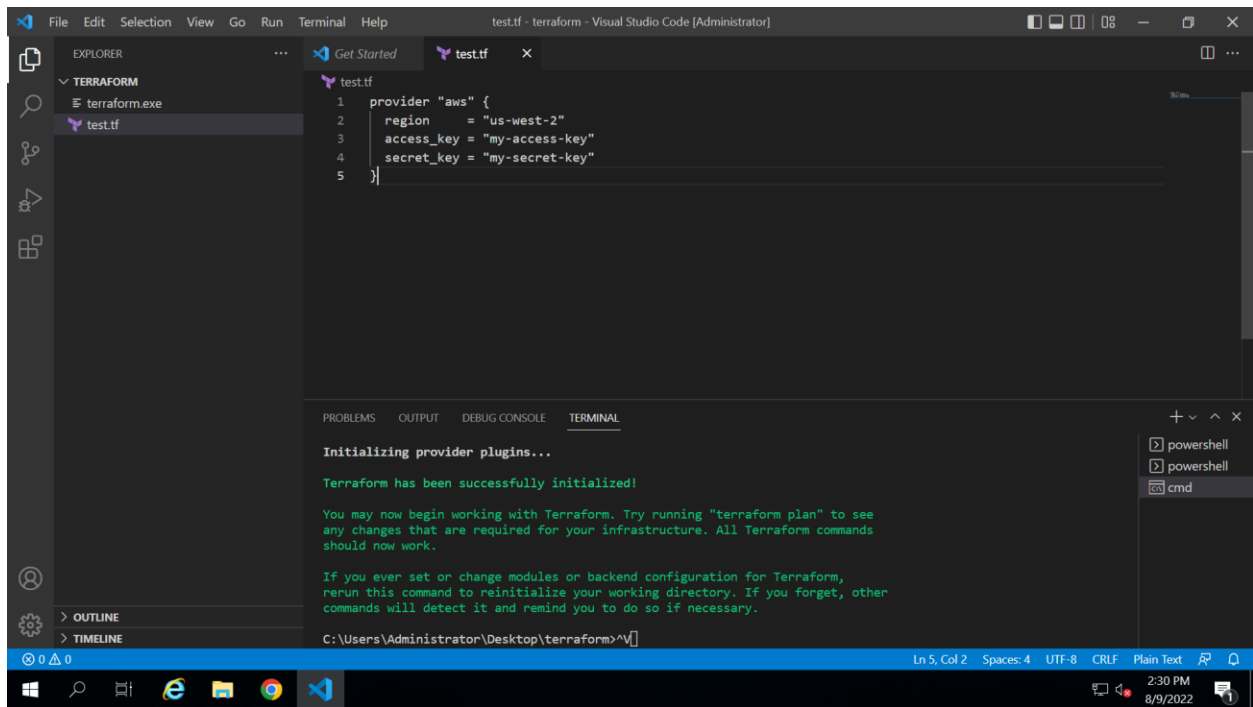
Other settings related to authorization can be configured, such as:

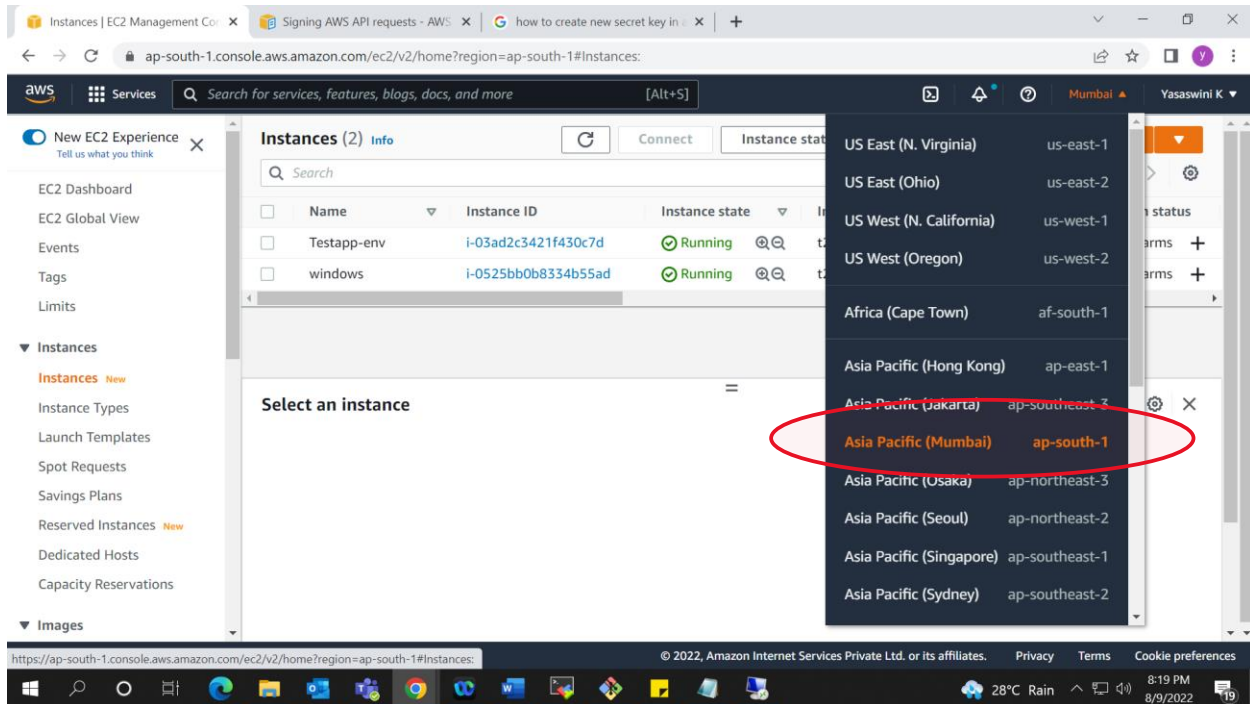
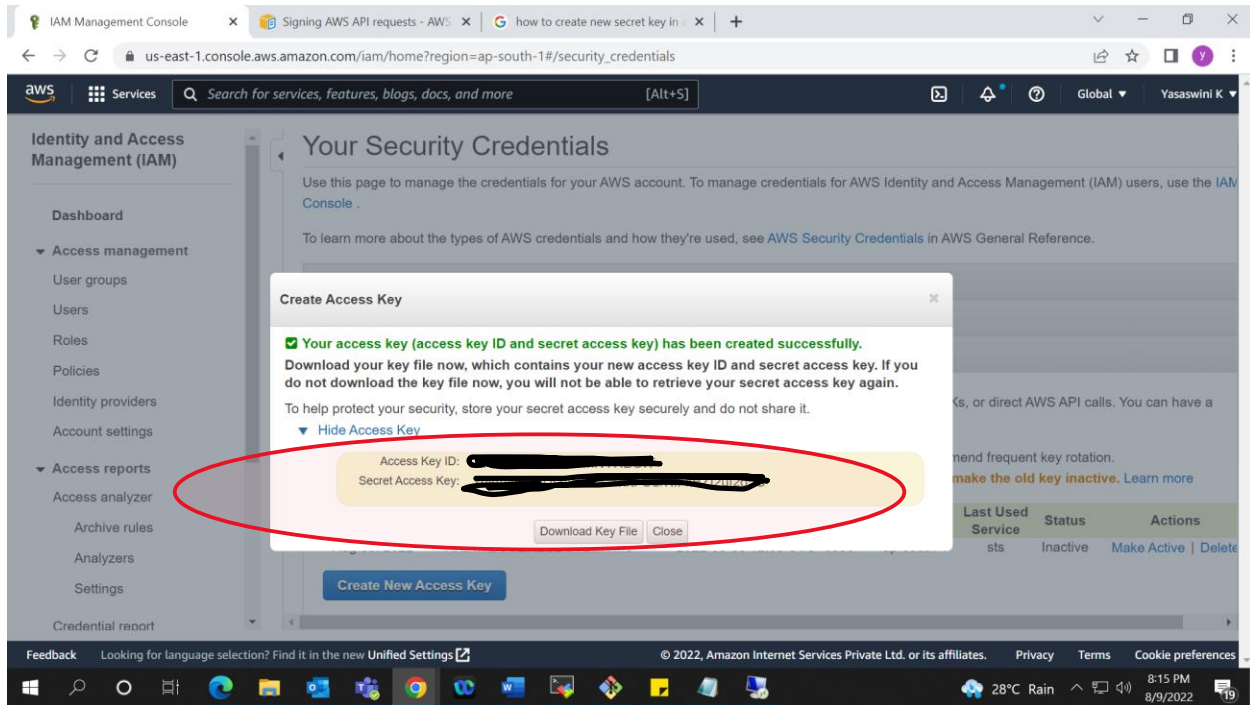
ON THIS PAGE

- Example Usage
- Authentication and Configuration
- AWS Configuration Reference
- Custom User-Agent Information
- Argument Reference
- Getting the Account ID

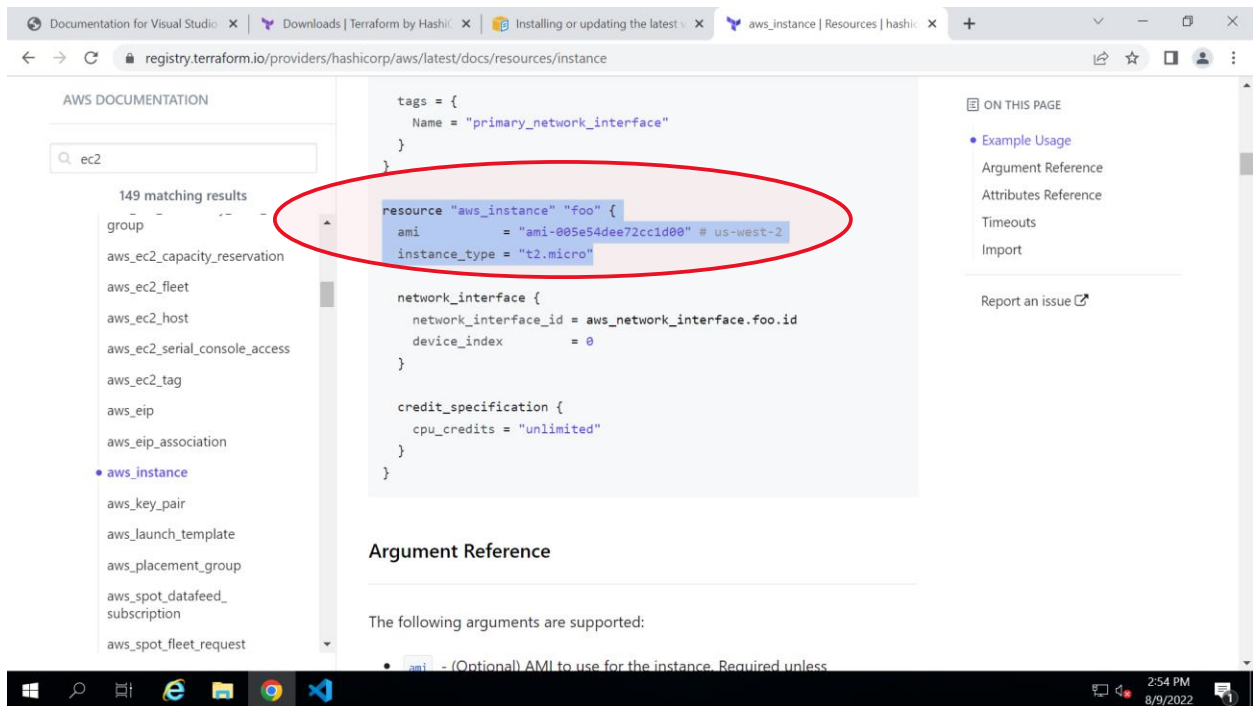
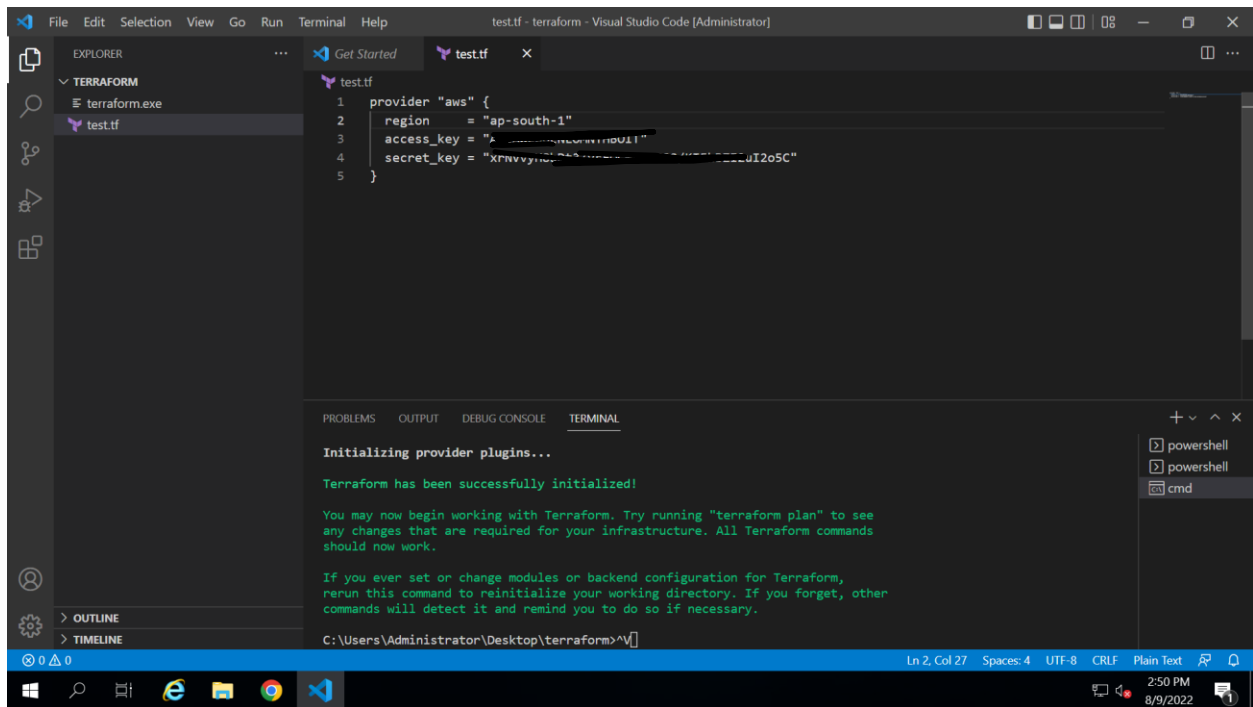
[Report an issue](#)

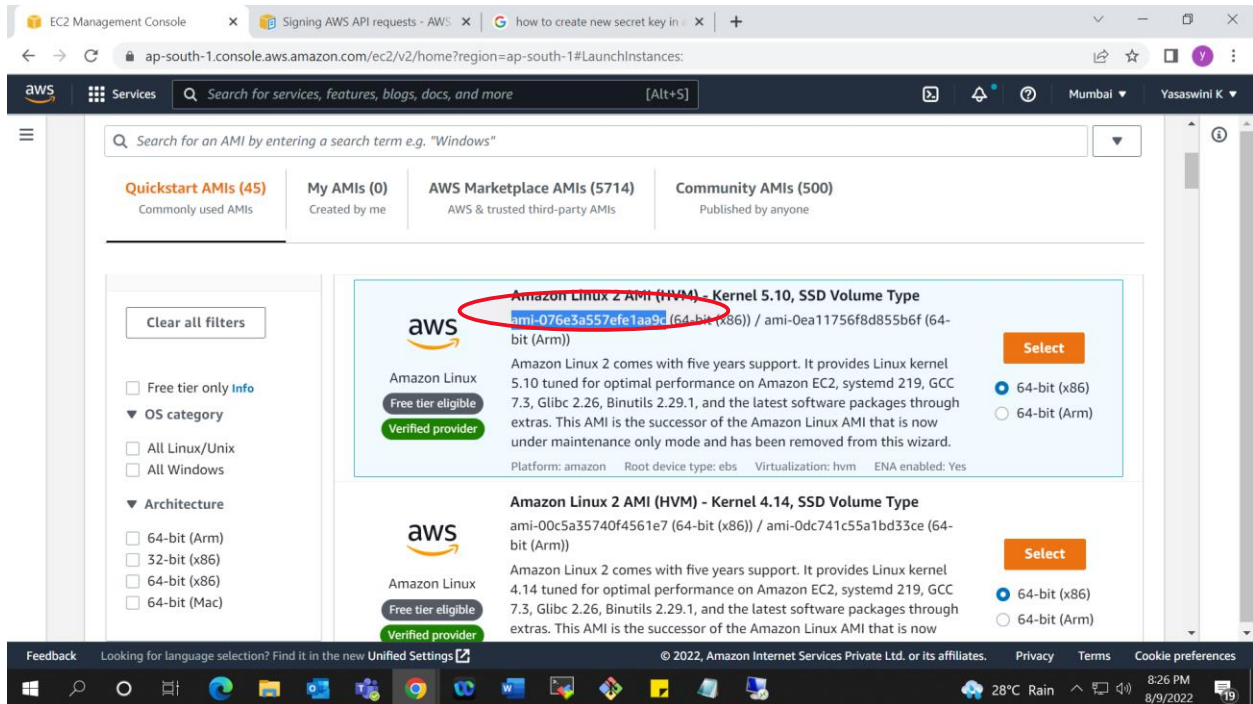
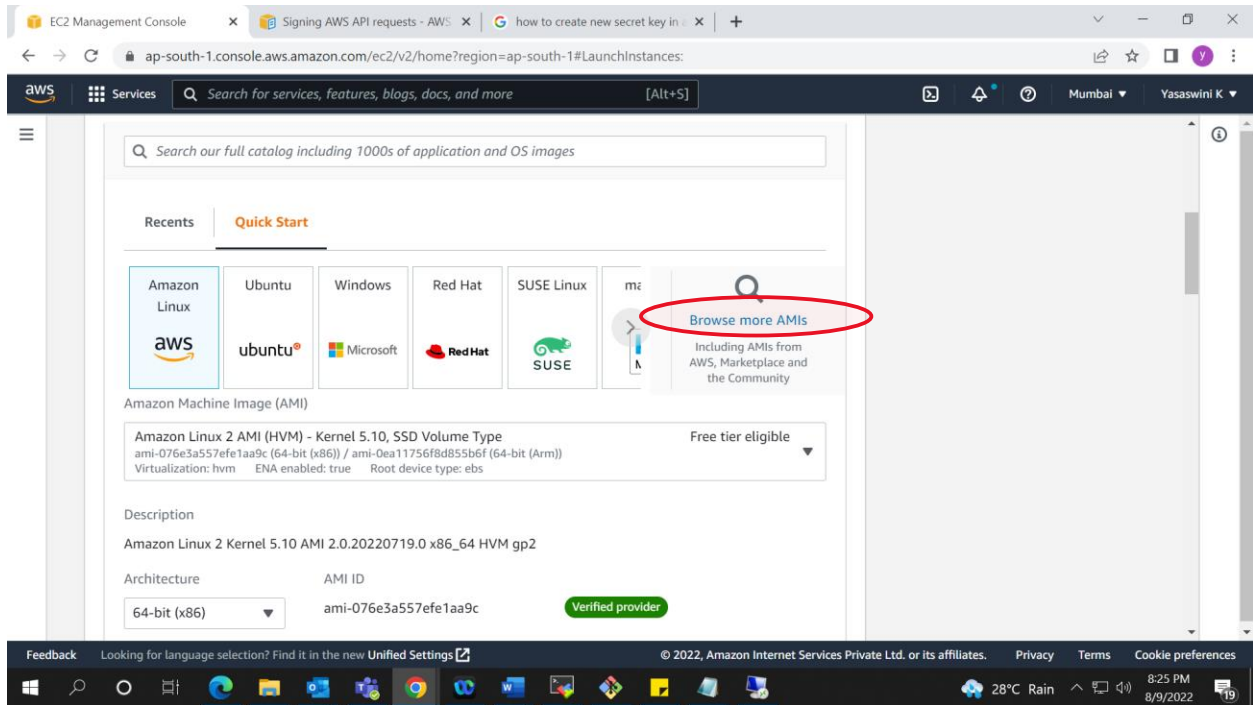
2:28 PM 8/9/2022





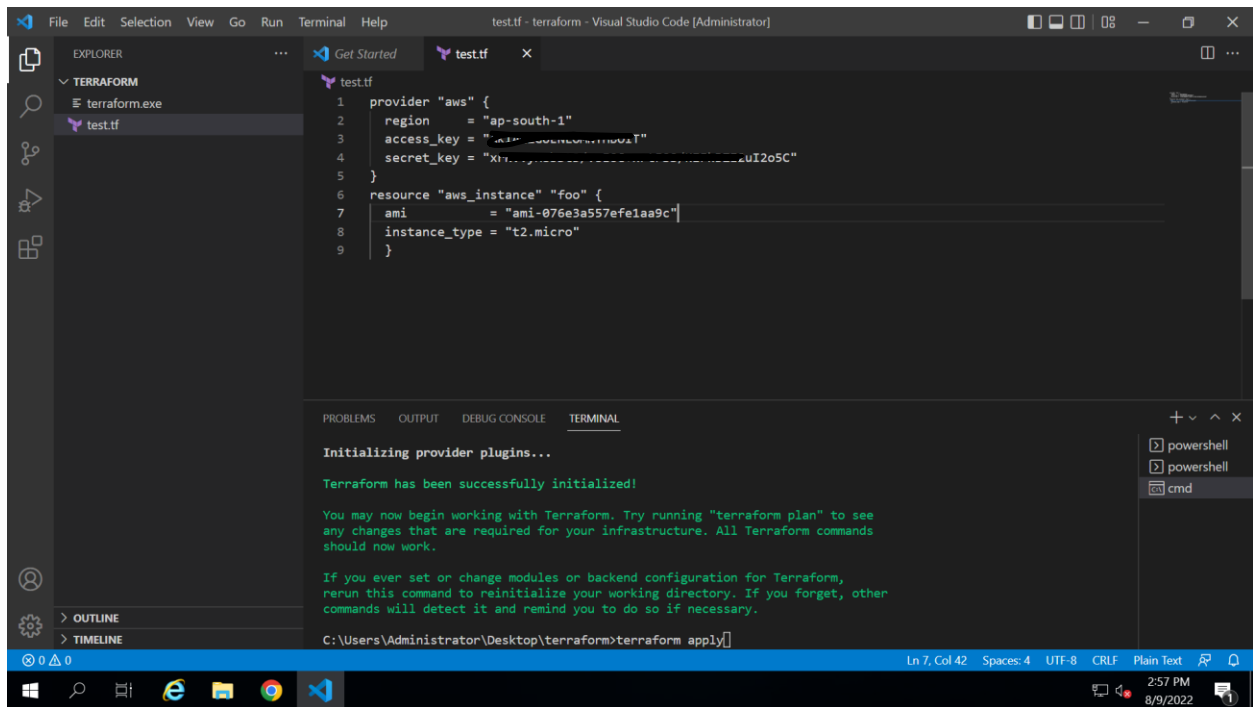
Copy the access\_key, Secret\_key and region into VS







Copy and past the ami details and provide which instance type we have to launch

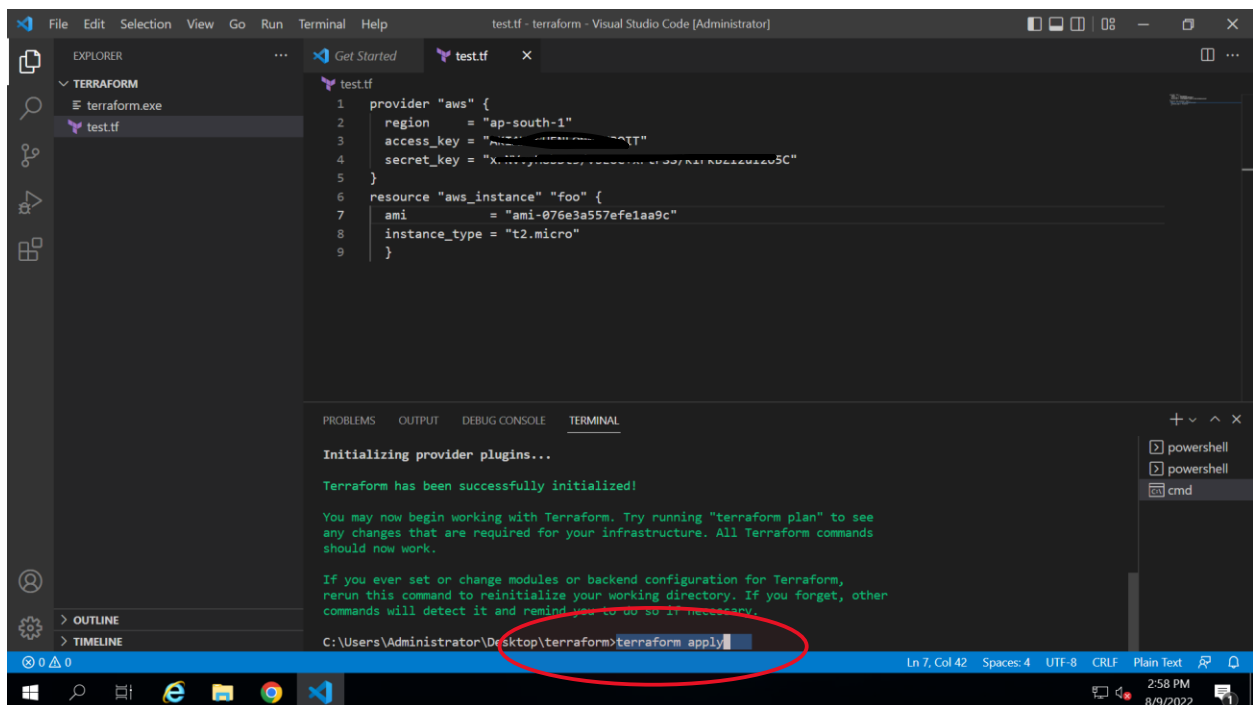


The screenshot shows the Visual Studio Code interface with a Terraform configuration file named `test.tf` open. The file contains the following HCL code:

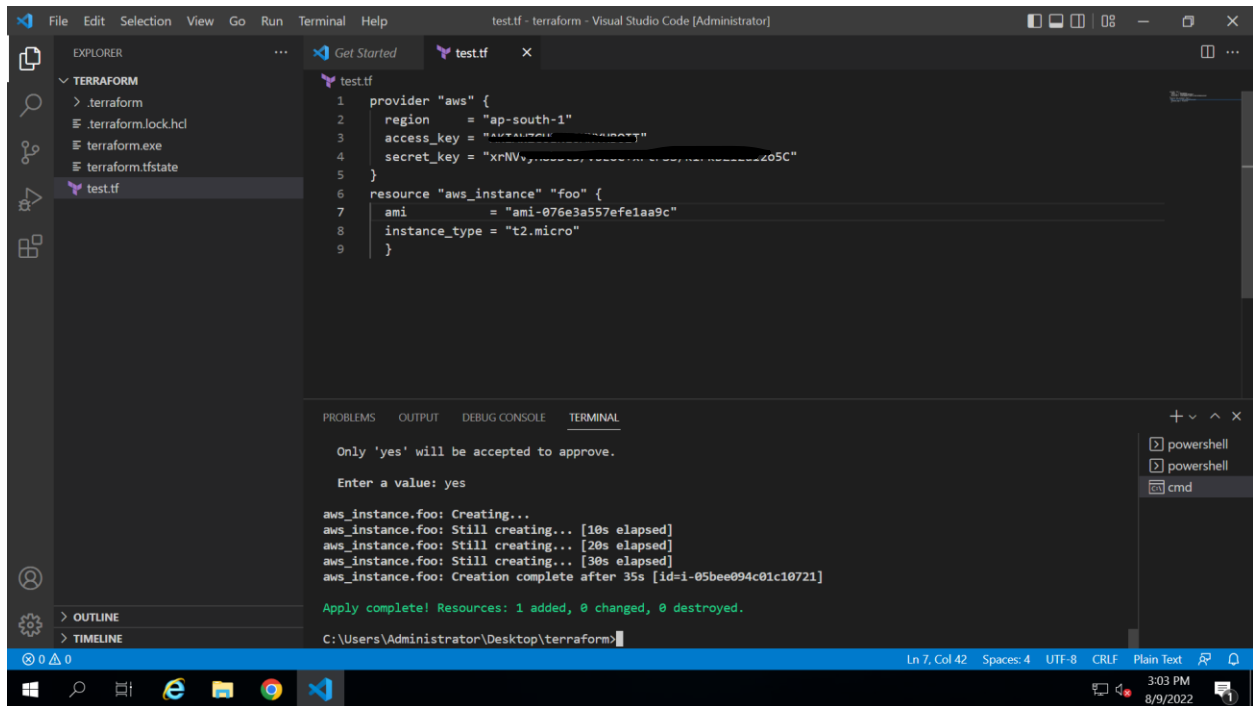
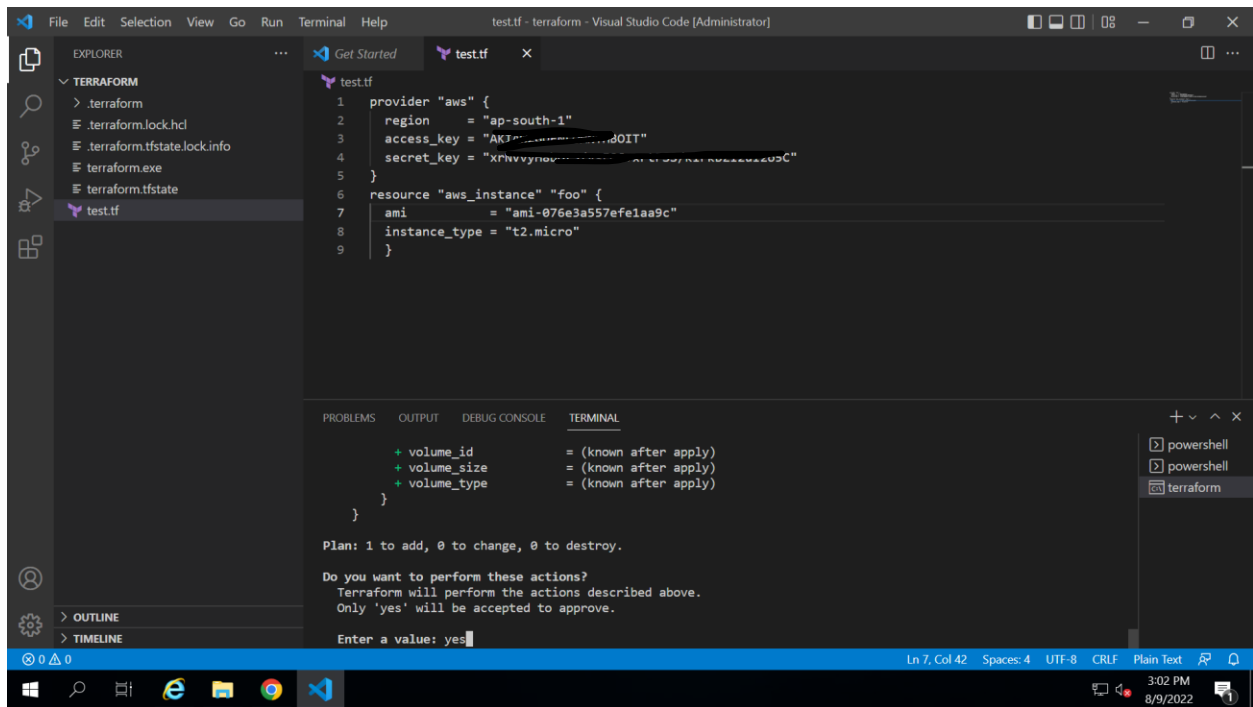
```
1 provider "aws" {  
2   region = "ap-south-1"  
3   access_key = "AKIAIOSFODNN7EXAMPLE"  
4   secret_key = "wJalrXUtnfEMIckBdufUwI2o5C"  
5 }  
6 resource "aws_instance" "foo" {  
7   ami = "ami-076e3a557efe1aa9c"  
8   instance_type = "t2.micro"  
9 }
```

The terminal window at the bottom shows the output of the `terraform init` command, indicating that the provider plugins have been successfully initialized. The status bar at the bottom indicates the file is at line 7, column 42, using UTF-8 encoding and CR/LF line endings.

Make sure to save the file and run `terraform init` first and then `terraform apply` next



This screenshot shows the same Visual Studio Code interface as the previous one, but with the `terraform apply` command entered in the terminal. The command is highlighted with a red circle. The terminal output shows the same initialization message as before, followed by the command prompt. The status bar at the bottom indicates the file is at line 7, column 42, using UTF-8 encoding and CR/LF line endings.



We can see that instance is created and running in the specified region

The screenshot displays the AWS Management Console for the ap-south-1 region. The left sidebar shows the navigation menu with options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and Instances. The main content area shows a list of EC2 instances. The instance i-05bee094c01c10721 is highlighted with a red circle. Below the list, the details for this instance are shown, including its ID, Public IPv4 address (13.235.77.228), and Private IPv4 addresses (172.31.3.228).

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Testapp-env	i-03ad2c3421f430c7d	Running	t2.micro	2/2 checks passed	No alarms
Windows	i-0525bb0b8334b55ad	Running	t2.micro	2/2 checks passed	No alarms
-	i-05bee094c01c10721	Running	t2.micro	2/2 checks passed	No alarms

**Instance: i-05bee094c01c10721**

**Details** | Security | Networking | Storage | Status checks | Monitoring | Tags

**Instance summary** Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-05bee094c01c10721	13.235.77.228   <a href="#">open address</a>	172.31.3.228