Terraform

INSTALLATION

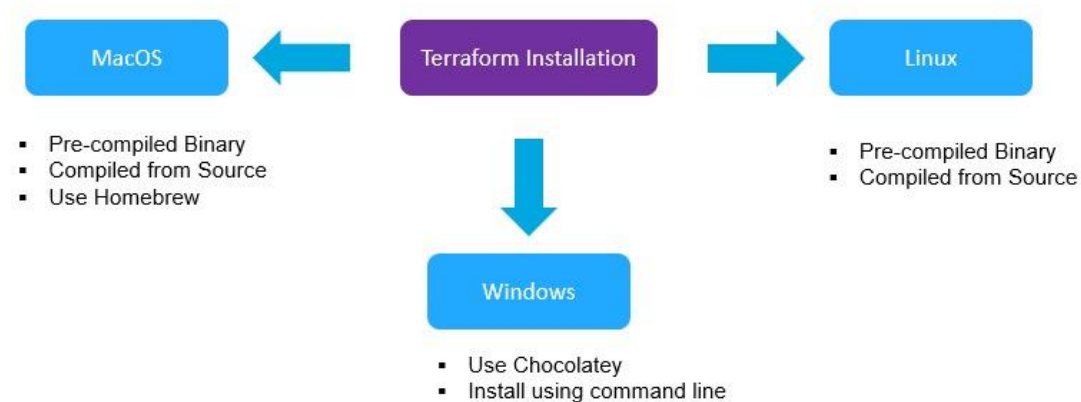## ❖ TERRAFORM INSTALLATION:

- Developed by Hashicorp, terraform is a powerful open-source Infrastructure as Code (IaC) tool that facilitates infrastructure management and creation on-premises and in the cloud.
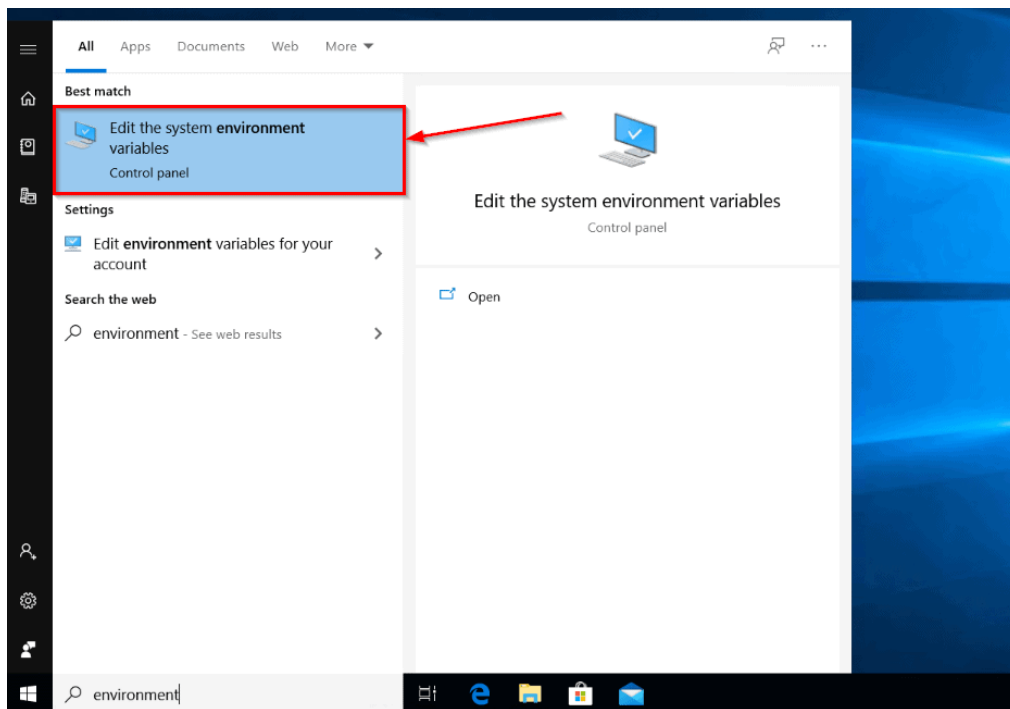
  PREREQUISITES:

  - **Operating System:** Windows / Linux / MacOS
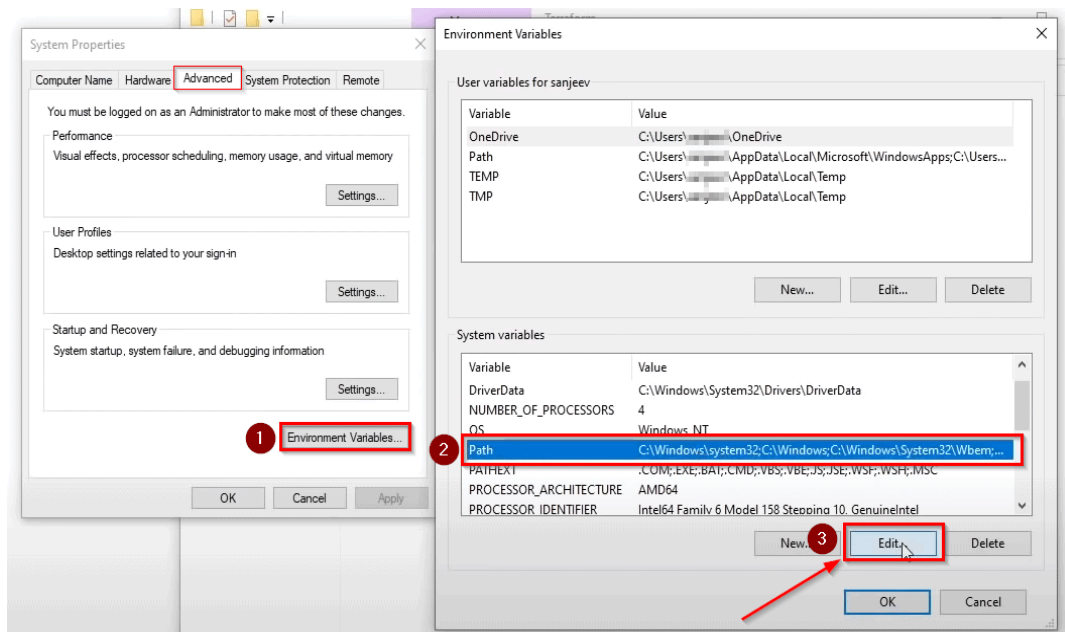 - Basic CLI knowledge

➢ INSTALL TERRAFORM ON WINDOWS:

- Download the terraform Executable File (.exe) and select 32-bit or 64-bit according to your machine.

  https://developer.hashicorp.com/terraform/install

- Extract the downloaded .zip folder containing the terraform executable file and copy the file.

- Create a new Terraform directory and paste the file, this directory can be anywhere on your machine. I would recommend pasting in **"C:\Program Files (x86)\Terraform".**

- Copy the path of the executable file, in my case it is **"C:\Program Files (x86)\Terraform".**
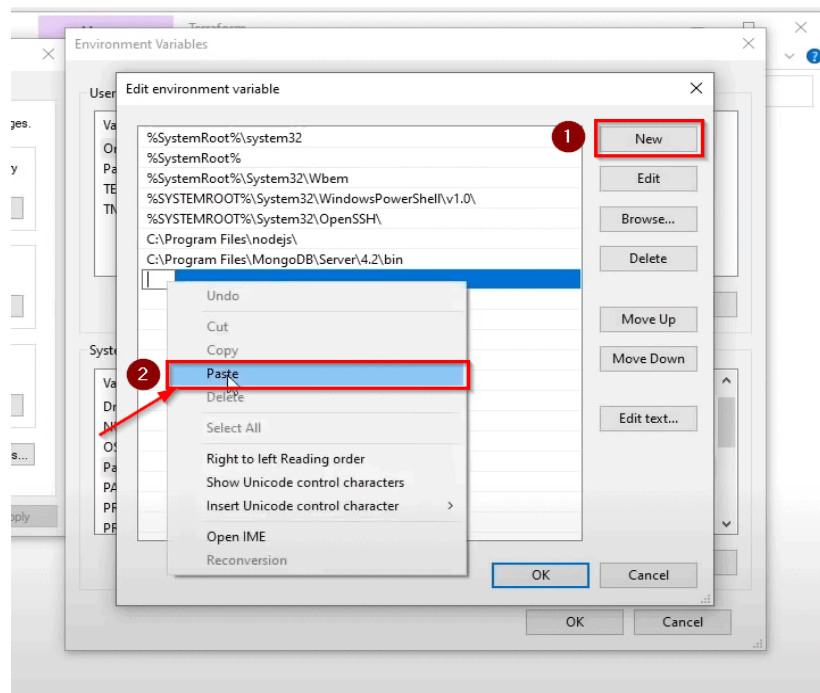
- Now, we need to set an environment variable that points to this path. Search environment in the windows search bar and select "**Edit the system environment variables**".
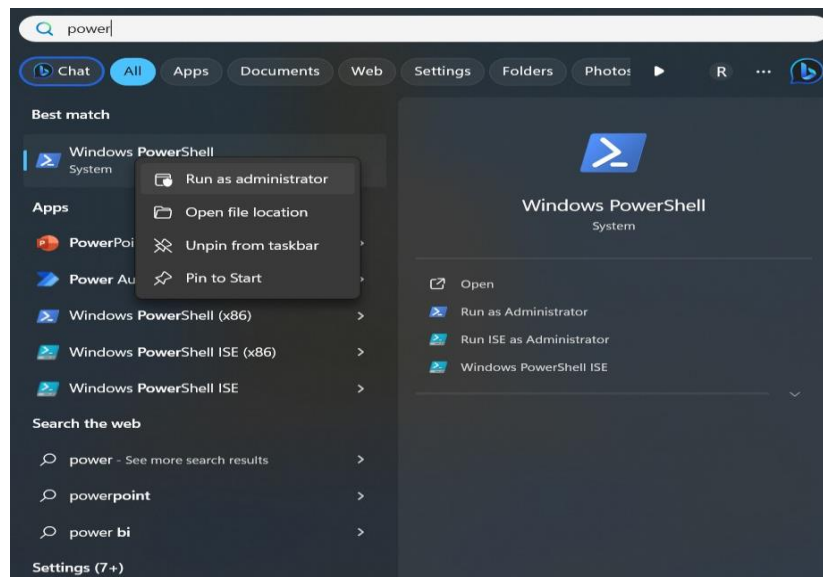

- Click on "Environment Variables…", select **"Path"** in the pop-up and click on **"Edit".**
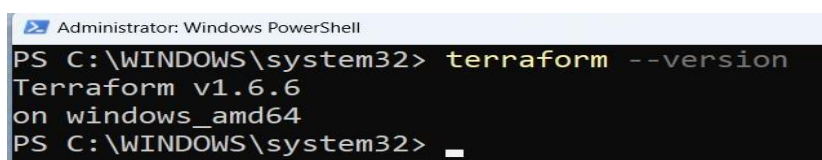
- Paste the copied path by clicking on New and then click OK.

- Done!! Now to check if it is installed open command prompt / Power shell

- Run the command **$terraform --version**

➢ INSTALL TERRAFORM ON LINUX:

- Go to Package manager Location:

  https://developer.hashicorp.com/terraform/install

INSTALLING TERRAFORM USING REPOSITORY:

$sudo yum install -y yum-utils

$sudo yum-config-manager --add-repo
https://rpm.releases.hashicorp.com/RHEL/hashicorp.repo

$sudo yum -y install terraform

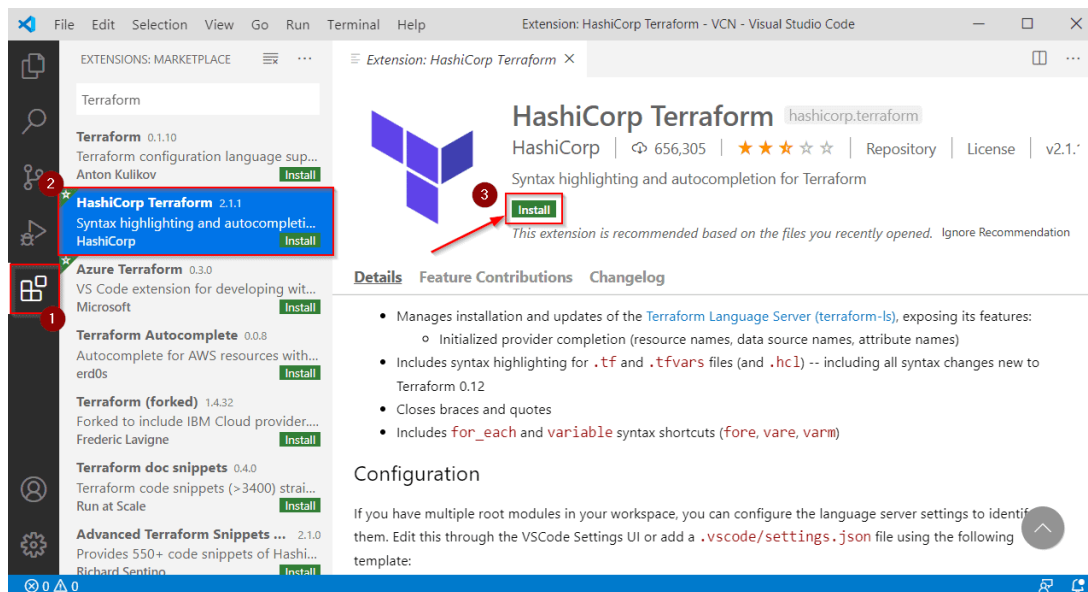$terraform --version

INSTALLING TERRAFORM USING ZIP FILE:

- Download the terraform Zip File by visiting here and select 32-bit or 64-bit according to your machine.

  https://developer.hashicorp.com/terraform/install

- Unzip the folder using the command
  $unzip zipfile_name

- Move the extracted terraform file to **/usr/local/bin/**
  $sudo mv terraformfile /usr/local/bin/

- Confirm the terraform has been installed:
  $terraform -v

➢ VISUAL STUDIO CODE:

- There are many text editors in the market, we recommended Visual Studio Code for this as it is a very **powerful text editor** and supports all platforms.

- Download and Install Visual Studio Code in your Windows.
    https://code.visualstudio.com/Download

- Once you have downloaded the visual studio code, open it and go to the extension and search for Terraform and Install it.

- A new view in the HashiCorp Terraform extension for Visual Studio Code shows your Terraform Cloud workspaces and runs, reducing context-switching.

- HashiCorp maintains a Terraform extension for Visual Studio Code in order to ensure that practitioners have a first-class editor experience.