

Experiment 5

A) Installation and Configuration of Terraform in Windows

Step 1: Download terraform

To install Terraform, First Download the Terraform Cli Utility for windows from terraforms official website

website:<https://www.terraform.io/downloads.html>

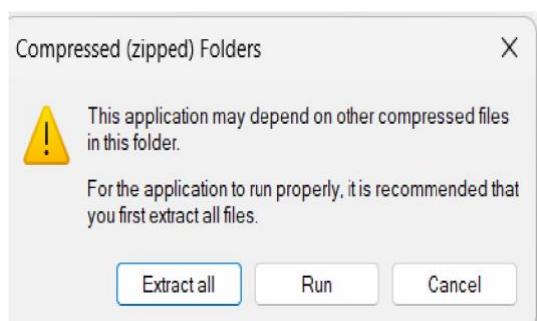
Select the Operating System Windows followed by either 32bit or 64 bit based on your OS type.

The screenshot shows the Terraform download page with three main sections:

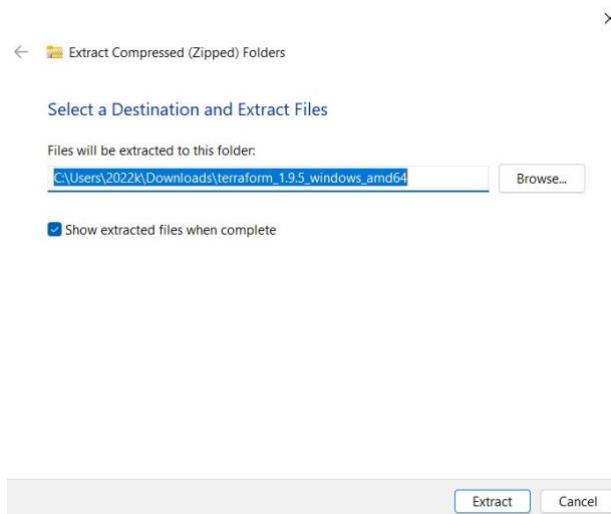
- macOS**:
 - Package manager:

```
brew tap hashicorp/tap
brew install hashicorp/tap/terraform
```
 - Binary download:
 - AMD64 Version: 1.9.5 [Download](#)
 - ARM64 Version: 1.9.5 [Download](#)
- Windows**:
 - Binary download:
 - 386 Version: 1.9.5 [Download](#)
 - AMD64 Version: 1.9.5 [Download](#)
- Linux**: (This section is partially visible at the bottom)

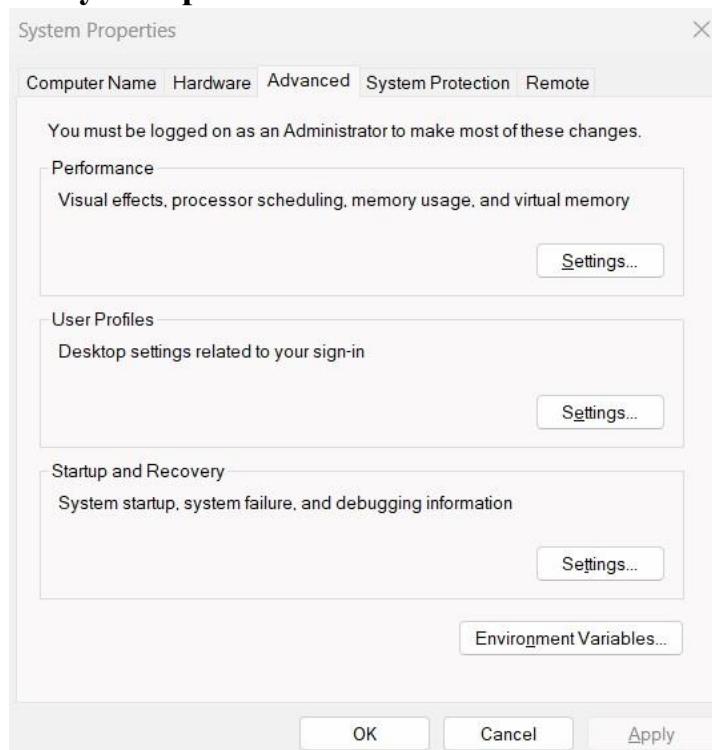
Step 2: Extract the downloaded setup file Terraform.exe in

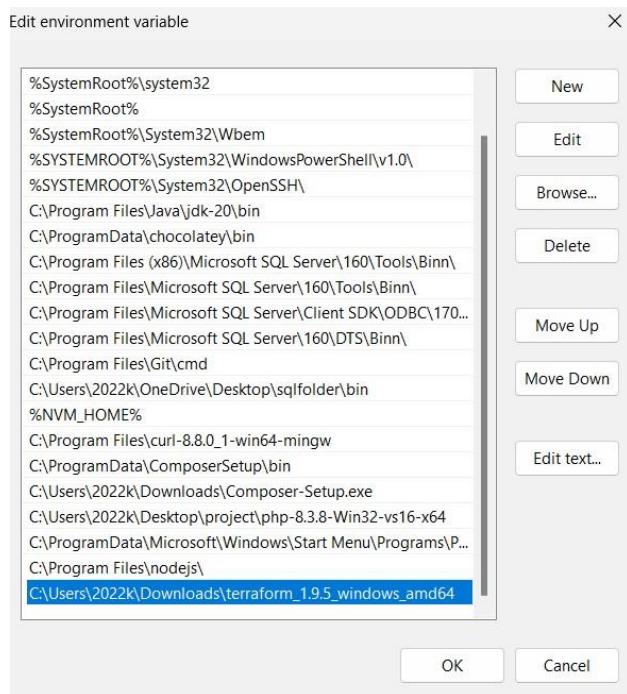


C:\Terraform directory

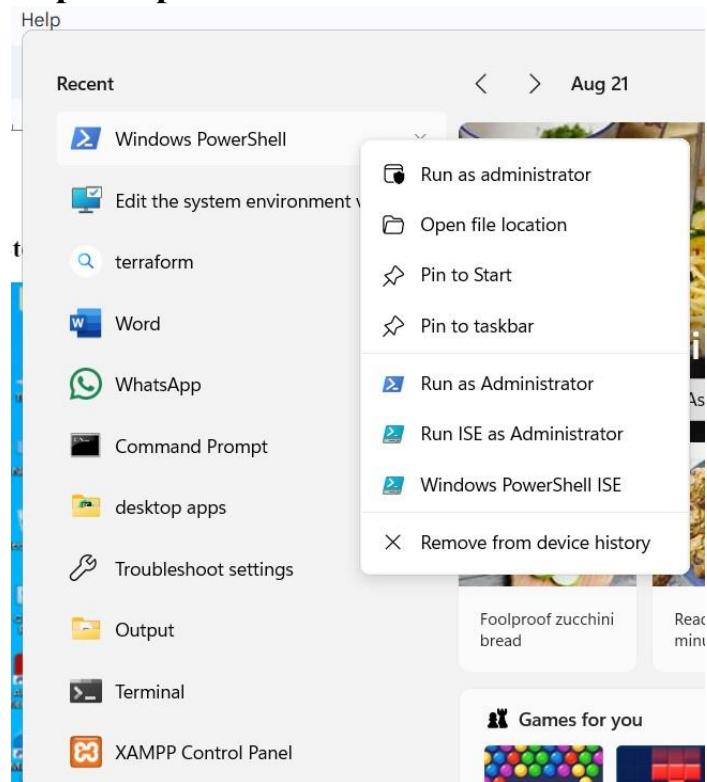


Step 3: Set the System path for Terraform in Environment Variables

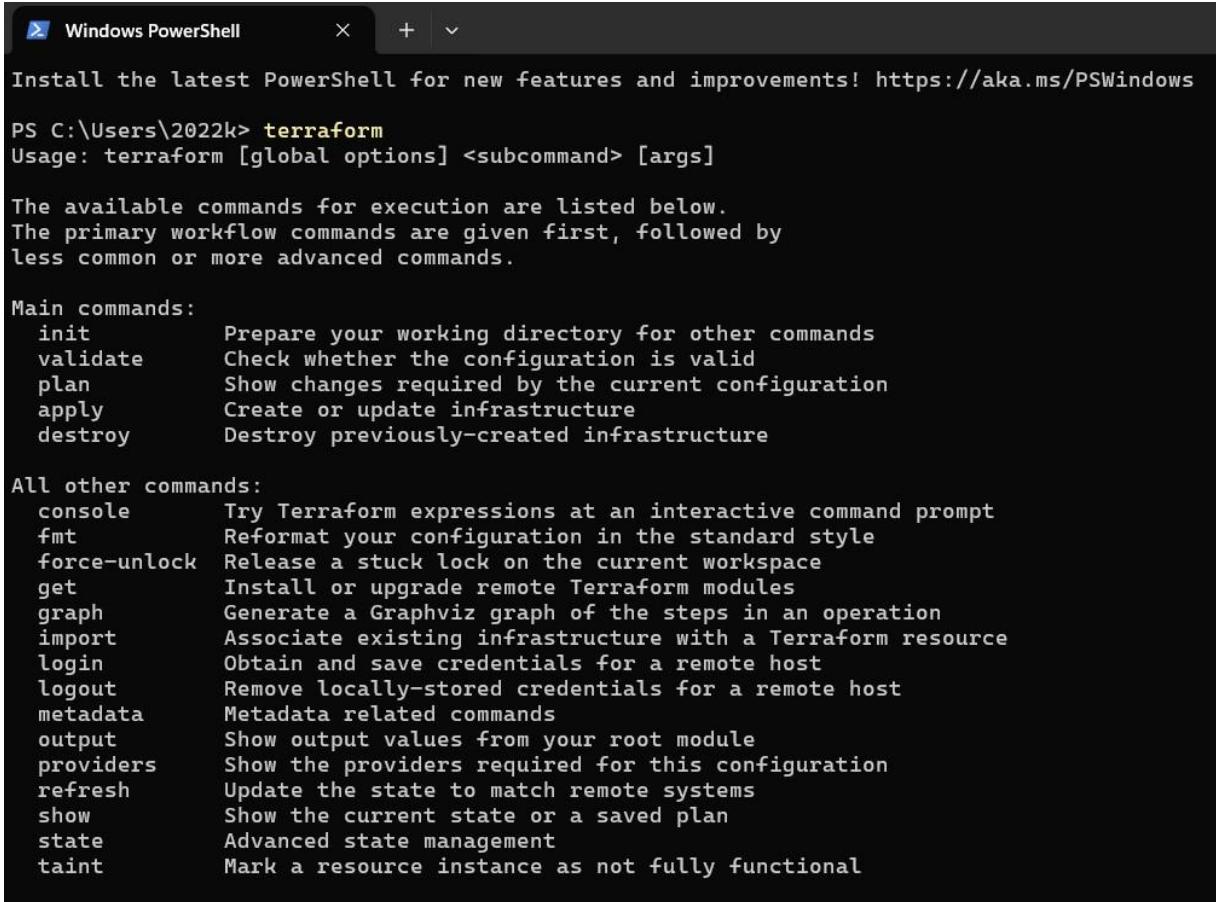




Step 4: Open PowerShell with Admin Access



Step 5 : Open Terraform in PowerShell and check its functionality



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window displays the usage and available commands for the Terraform command-line tool. It includes sections for main commands like init, validate, plan, apply, and destroy, as well as other commands like console, fmt, force-unlock, get, graph, import, login, logout, metadata, output, providers, refresh, show, state, and taint, each with a brief description.

```
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\2022k> terraform
Usage: terraform [global options] <subcommand> [args]

The available commands for execution are listed below.
The primary workflow commands are given first, followed by
less common or more advanced commands.

Main commands:
  init      Prepare your working directory for other commands
  validate  Check whether the configuration is valid
  plan     Show changes required by the current configuration
  apply    Create or update infrastructure
  destroy   Destroy previously-created infrastructure

All other commands:
  console   Try Terraform expressions at an interactive command prompt
  fmt       Reformat your configuration in the standard style
  force-unlock Release a stuck lock on the current workspace
  get       Install or upgrade remote Terraform modules
  graph    Generate a Graphviz graph of the steps in an operation
  import   Associate existing infrastructure with a Terraform resource
  login    Obtain and save credentials for a remote host
  logout   Remove locally-stored credentials for a remote host
  metadata Metadata related commands
  output   Show output values from your root module
  providers Show the providers required for this configuration
  refresh  Update the state to match remote systems
  show     Show the current state or a saved plan
  state    Advanced state management
  taint    Mark a resource instance as not fully functional
```