ADVANCE DEVOPS EXP 5

Name:Aryan Anil Patankar
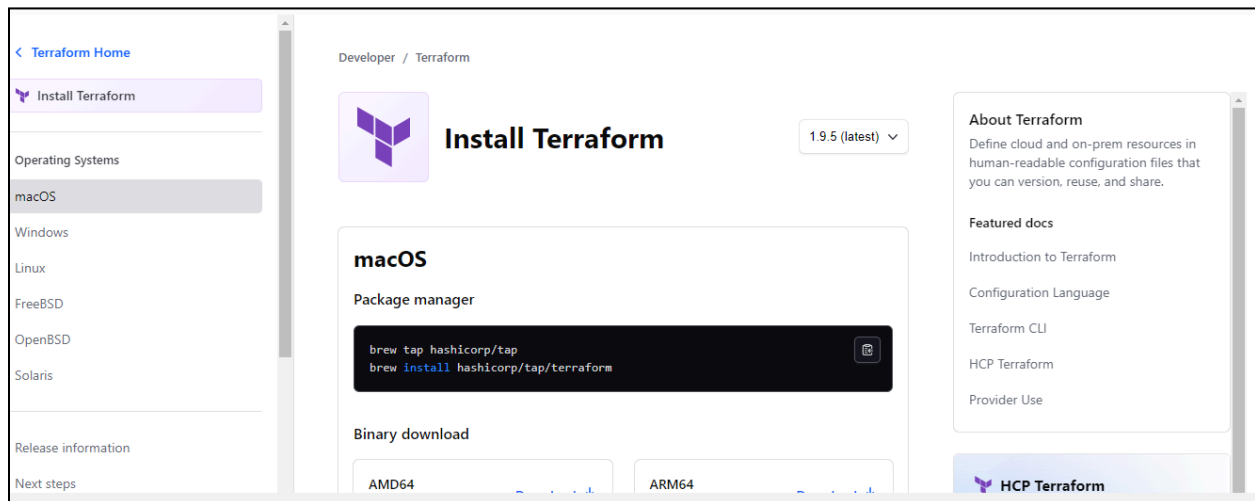Class:D15A
Roll No:34

Aim:To understand terraform lifecycle, core concepts/terminologies and install it on a Linux Machine and Windows.
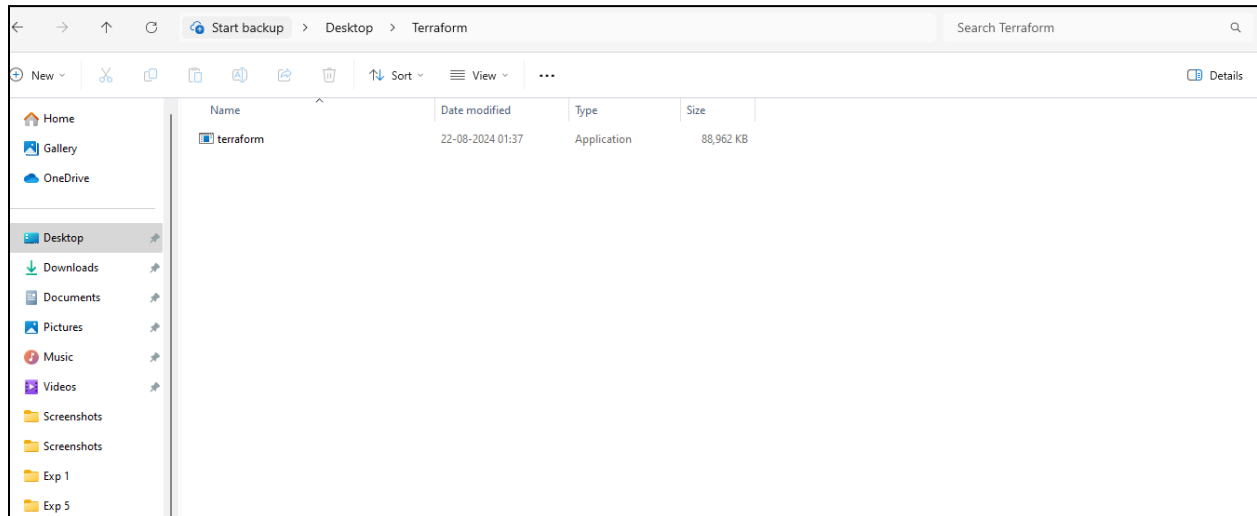
Installation for Windows:

Step 1: Go to the website terraform.io and install Terraform from there..Select the AMD64 option for Windows and download Terraform.
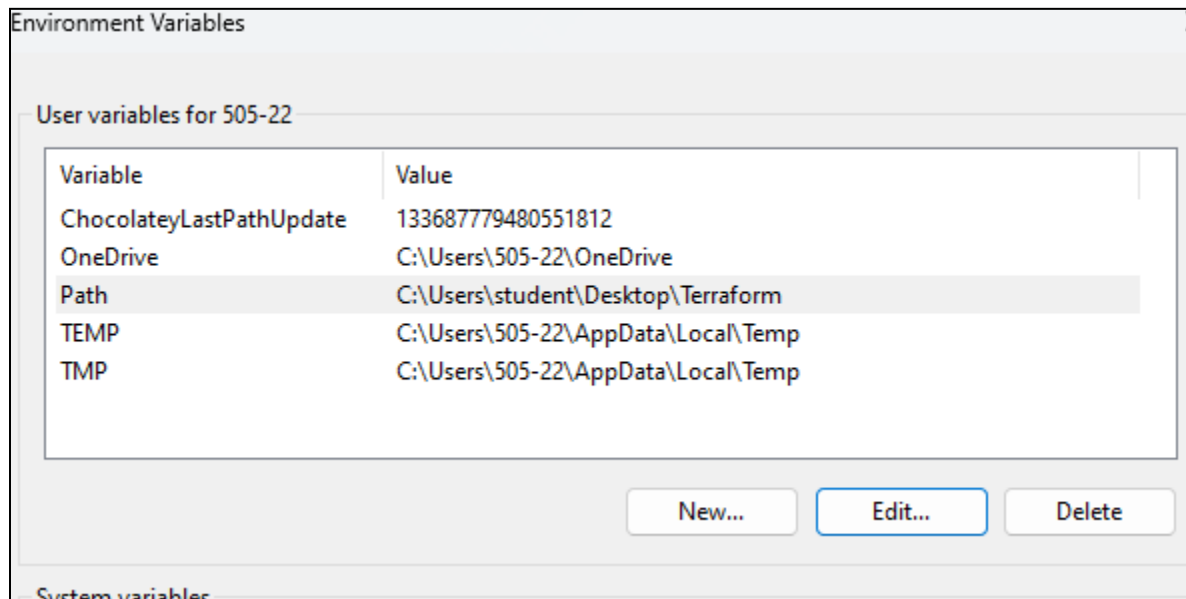

Step 2: Go to the zip file where Terraform is installed.

Name	Type	Compressed size	Password ...	Size	Ratio	Date modified
LICENSE	Text Document	2 KB	No	5 KB	63%	20-08-2024 17:35
terraform	Application	26,719 KB	No	88,962 KB	70%	20-08-2024 17:35

Step 3: Since the installed file is a zip file,create a new folder on desktop and copy the installed terraform application there.

Step 4: Now go to search bar,select edit environment variables option,then go to the path option.Now add the file path of the directory wherein we have installed the terraform application.

Step 5: Now go to the folder where we have installed terraform and open Powershell inside it.After this type 'terraform' to make sure that terraform has been installed on the system.

The command 'terraform –version simply checks the current version of terraform that has been installed.

```
PS C:\Users\student\Desktop\Terraform> 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
  test          Execute integration tests for Terraform modules
  untaint       Remove the 'tainted' state from a resource instance
  version       Show the current Terraform version
  workspace     Workspace management
```

```
Global options (use these before the subcommand, if any):
  -chdir=DIR    Switch to a different working directory before executing the
                given subcommand.
  -help         Show this help output, or the help for a specified subcommand.
  -version      An alias for the "version" subcommand.
PS C:\Users\student\Desktop\Terraform> terraform --version
Terraform v1.9.4
on windows_amd64

Your version of Terraform is out of date! The latest version
is 1.9.5. You can update by downloading from https://www.terraform.io/downloads.html
PS C:\Users\student\Desktop\Terraform>
```