

ADVANCE DEVOPS EXP 5

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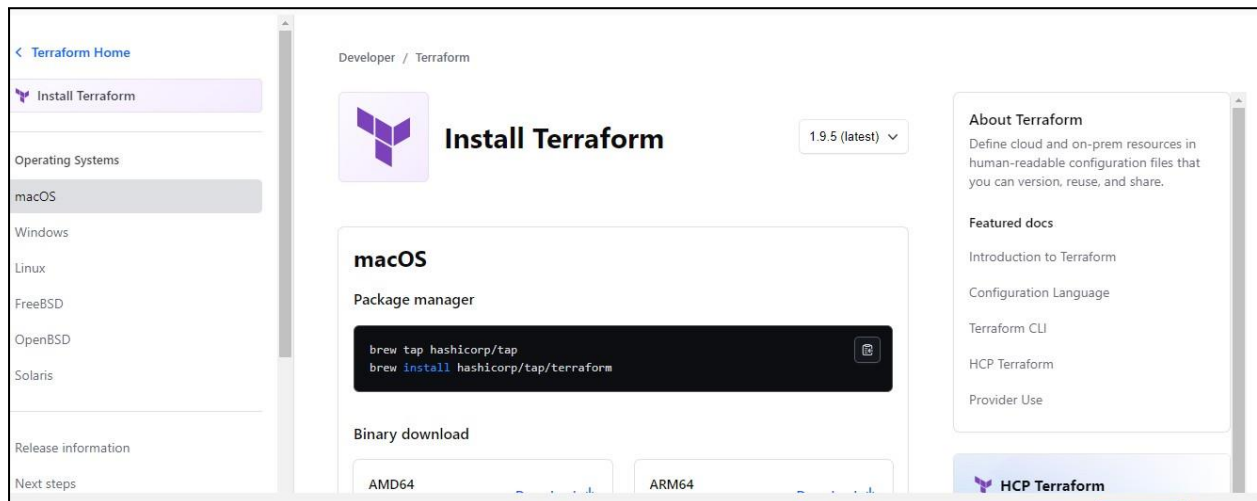
Class:D15A

Roll No:59

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

Installation for Windows:

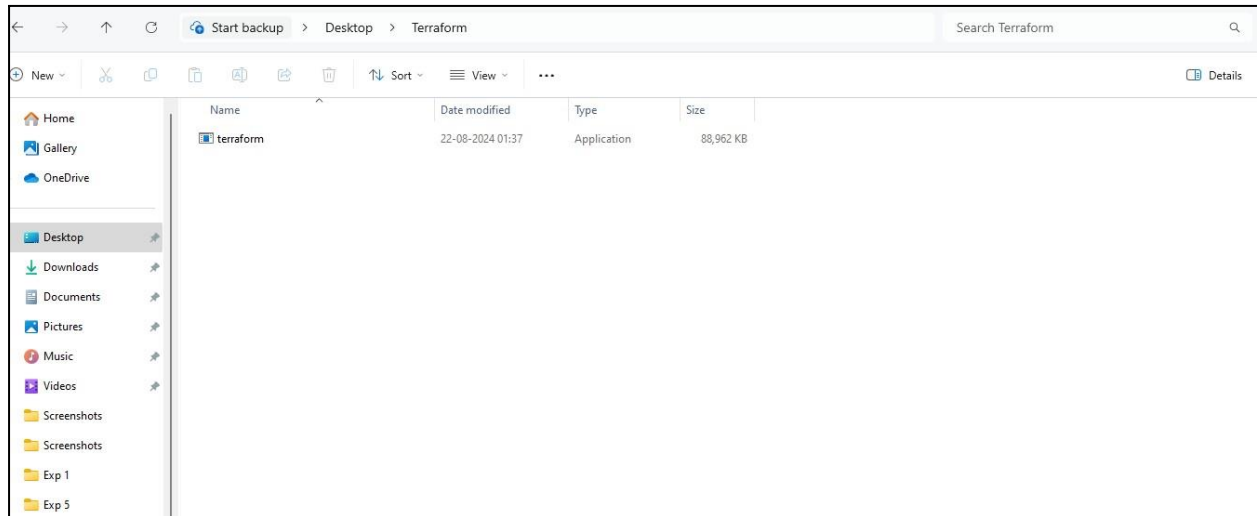
Step 1:Go to the website terraform.io and install Terraform from there..Select the AMD64 option for Windows and download Terraform.



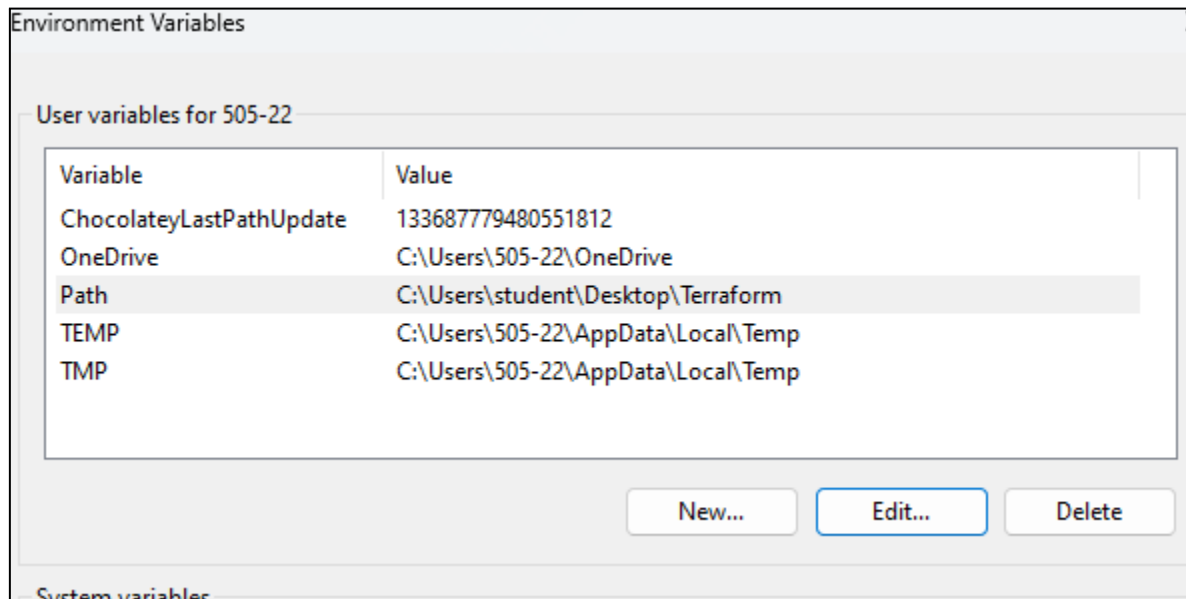
Step 2:Go to the zip file where Terraform is installed.

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>
```