

EXPERIMENT NO. 05

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

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.

Windows

Binary download


386

Version: 1.9.4

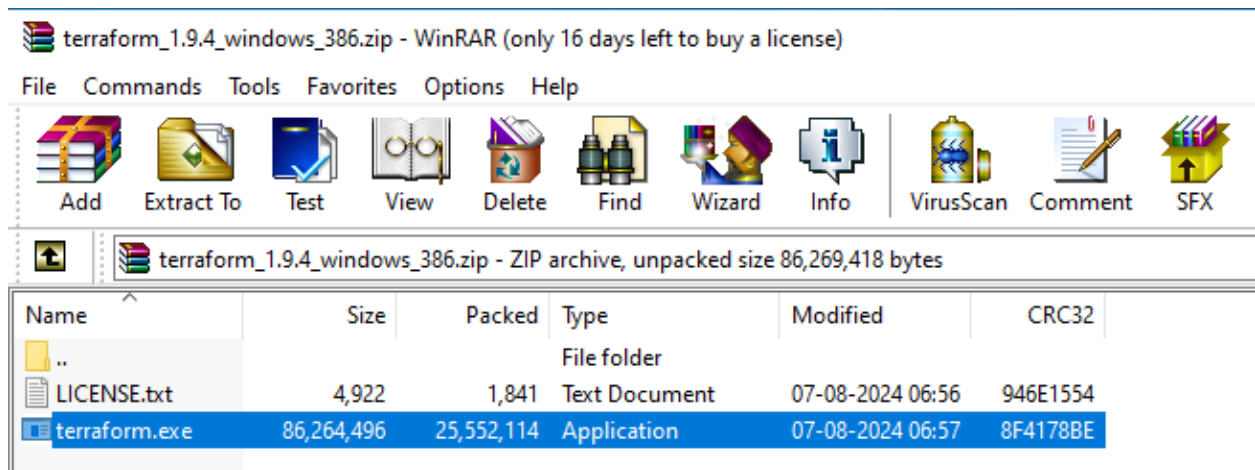
Download 

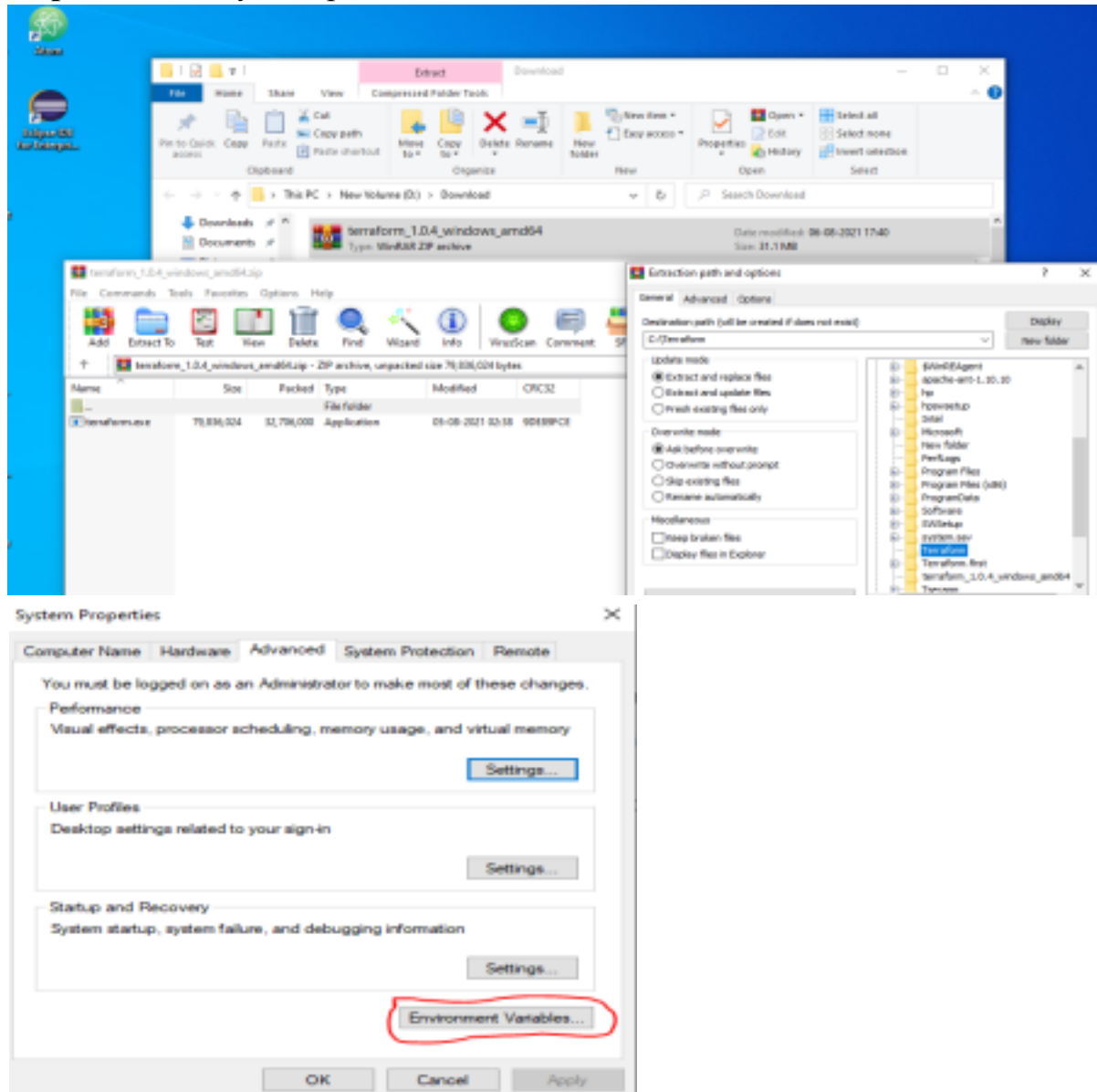
AMD64

Version: 1.9.4

Download 

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 5 : Open Terraform in PowerShell and check its functionality**

```
C:\Users\student>terraform -version
Terraform v1.9.4
on windows_386
```

```
C:\Users\student>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 |