

Experiment No 5 : Terraform

Aim : Installation and Configuration of Terraform in Windows

The screenshot shows the Terraform installation page for Windows. The page is titled "Windows" and "Binary download". It provides two download links for the Windows binary: "386" (Version: 1.9.5) and "AMD64" (Version: 1.9.5). The "AMD64" link is highlighted with a blue checkmark. Below the download links, there is a "Linux" section with a "Package manager" subsection. The "Package manager" subsection lists several operating systems: Ubuntu/Debian, CentOS/RHEL, Fedora, Amazon Linux, and Homebrew. The "Ubuntu/Debian" link is highlighted. Below the package manager list, there is a terminal window showing the commands to install Terraform on Ubuntu/Debian:

```
wget -O- https://apt.releases.hashicorp.com/gpg | sudo gpg --dearmor -o /usr/share/keyrings/hashicorp-archive-keyring.gpg
echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg] https://apt.releases.hashicorp.com/ubuntu <version> main" | sudo tee /etc/apt/sources.list.d/hashicorp.list
sudo apt update && sudo apt install terraform
```

The screenshot shows the Windows File Explorer window for the "Downloads" folder. The "Downloads" folder is selected in the left sidebar. The main pane shows a list of files and folders. The files are:

Name	Date modified	Type	Size
terraform_1.9.5_windows_amd64	22-08-2024 14:12	Compressed (zipp...	26,721 KB
AIDS_Exp5 (1)	22-08-2024 11:33	WPS PDF Docume...	305 KB
AIDS_Exp5	22-08-2024 11:30	WPS PDF Docume...	304 KB
AIDS_Exp5	22-08-2024 11:30	OpenDocument T...	339 KB

The screenshot shows the Windows File Explorer window for the "terraform_1.9.5_windows_amd64" folder. The "Extract" button is highlighted in the top bar. The main pane shows a list of files and folders. The files are:

Name	Type	Compressed size	Password ...	Size
LICENSE	Text Source File	2 KB	No	5 KB
terraform	Application	26,719 KB	No	88,962 KB

Compressed (zipped) Folders



This application may depend on other compressed files in this folder.

For the application to run properly, it is recommended that you first extract all files.

Extract all

Run

Cancel



Extract Compressed (Zipped) Folders



Select a Destination and Extract Files

Files will be extracted to this folder:

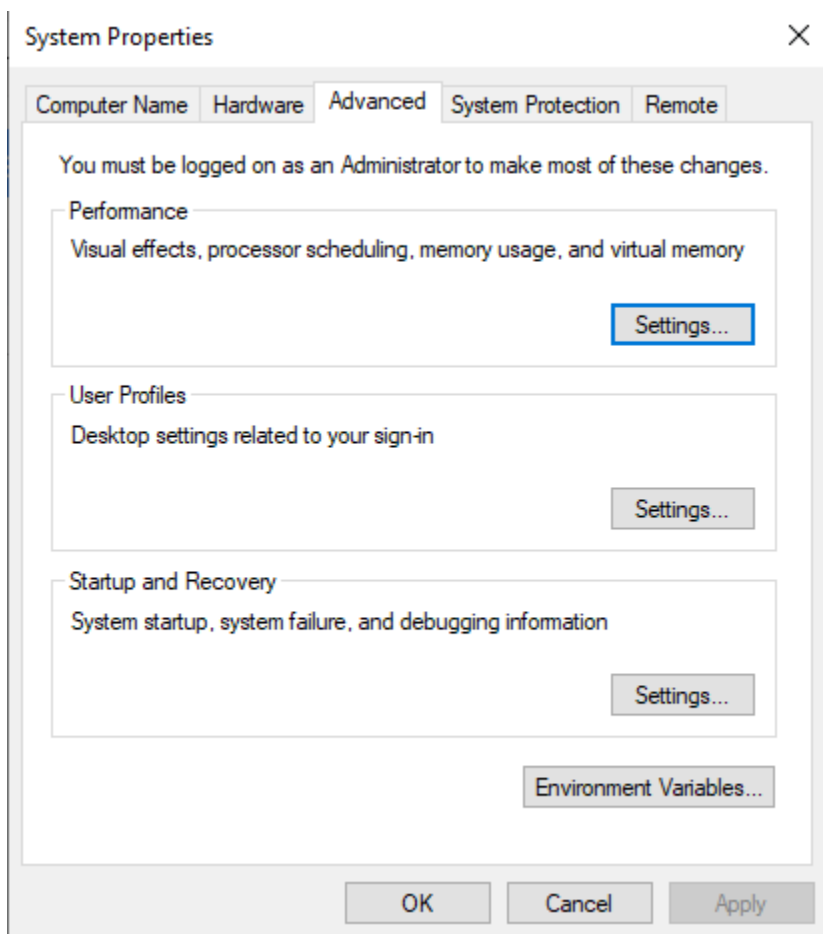
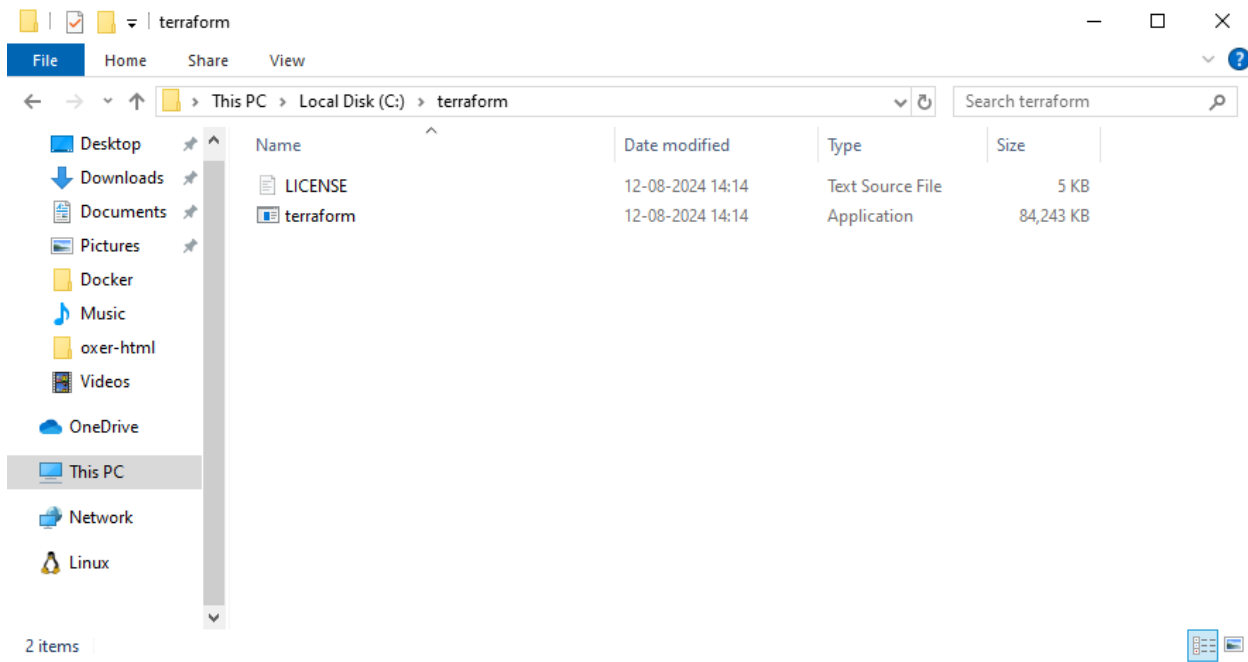
C:\Users\INFT\Downloads\terraform_1.9.5_windows_amd64

Browse...

☒ Show extracted files when complete

Extract

Cancel



Environment Variables

User variables for INFT

Variable	Value
OneDrive	C:\Users\INFT\OneDrive
Path	C:\Users\INFT\AppData\Local\Microsoft\WindowsApps;C:\Users\l...
TEMP	C:\Users\INFT\AppData\Local\Temp
TMP	C:\Users\INFT\AppData\Local\Temp

New...

Edit...

Delete

System variables

Variable	Value
ComSpec	C:\Windows\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
NUMBER_OF_PROCESSORS	8
OS	Windows_NT
Path	C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\Win...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTURE	AMD64

New...

Edit...

Delete

OK

Cancel

Edit User Variable

Variable name:

Path

Variable value:

C:\terraform\

Browse Directory...

Browse File...

OK

Cancel

Windows PowerShell

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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Windows\system32> 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:\Windows\system32>