

EXPERIMENT 5

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DIV:D15C ROLL NO:14

Aim:Installation and configuration of Terraform in windows

The screenshot displays the Terraform website's installation page. The top navigation bar includes links for Terraform, Install, Tutorials, Documentation, Registry, and Try Cloud. A search bar and user profile icon are on the right. The left sidebar lists navigation options: Terraform Home, Install Terraform, Operating Systems (macOS, Windows, Linux, FreeBSD, OpenBSD, Solaris), Release information, and Next steps. The main content area is divided into three sections: 'Binary download' for general use (AMD64 and ARM64, Version: 1.9.5), 'Windows' (386 and AMD64, Version: 1.9.5), and 'Linux' (Package manager). The right sidebar contains 'About Terraform', 'Featured docs' (Introduction to Terraform, Configuration Language, Terraform CLI, HCP Terraform, Provider Use), and 'HCP Terraform'. A cookie consent banner is at the bottom.

Binary download

Architecture	Version	Download
AMD64	Version: 1.9.5	Download
ARM64	Version: 1.9.5	Download

Windows

Binary download

Architecture	Version	Download
386	Version: 1.9.5	Download
AMD64	Version: 1.9.5	Download

Linux

Package manager

About Terraform
Define cloud and on-prem resources in human-readable configuration files that you can version, reuse, and share.


Featured docs

- [Introduction to Terraform](#)
- [Configuration Language](#)
- [Terraform CLI](#)
- [HCP Terraform](#)
- [Provider Use](#)

HCP Terraform
Automate your infrastructure provisioning at any scale

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←  Extract Compressed (Zipped) Folders

Select a Destination and Extract Files

Files will be extracted to this folder:

[Browse...](#)

☒ Show extracted files when complete

[Extract](#)

[Cancel](#)

Environment Variables

User variables for student

Variable	Value
OneDrive	C:\Users\student.VESIT505-08\OneDrive
path	F:\terraform
TEMP	C:\Users\student.VESIT505-08\AppData\Local\Temp
TMP	C:\Users\student.VESIT505-08\AppData\Local\Temp

New... Edit... Delete

System variables

Variable	Value
ChocolateyInstall	C:\ProgramData\chocolatey
ComSpec	C:\WINDOWS\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
ETHEREUM_SOCKET	\\.\pipe\geth.ipc
NUMBER_OF_PROCESSORS	16
OS	Windows_NT
Path	C:\Program Files\Common Files\Oracle\Java\javapath;C:\Program ...

New... Edit... Delete

OK Cancel

New User Variable

Variable name: path

Variable value: terraform

Browse Directory... Browse File... OK Cancel

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

PS C:\Users\student.VESIT505-08> 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
```

Conclusion:

Successfully installing and configuring Terraform on a Windows machine enables users to efficiently manage infrastructure as code. The process involves downloading the Terraform binary, adding it to the system PATH, and verifying the installation through the command line. With Terraform set up, users can define and provision infrastructure using declarative configuration files, promoting automation and consistency in deployment.