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Advance DevOps Lab

Experiment 5:

Aim -

To understand terraform lifecycle, core concepts/terminologies and install it.

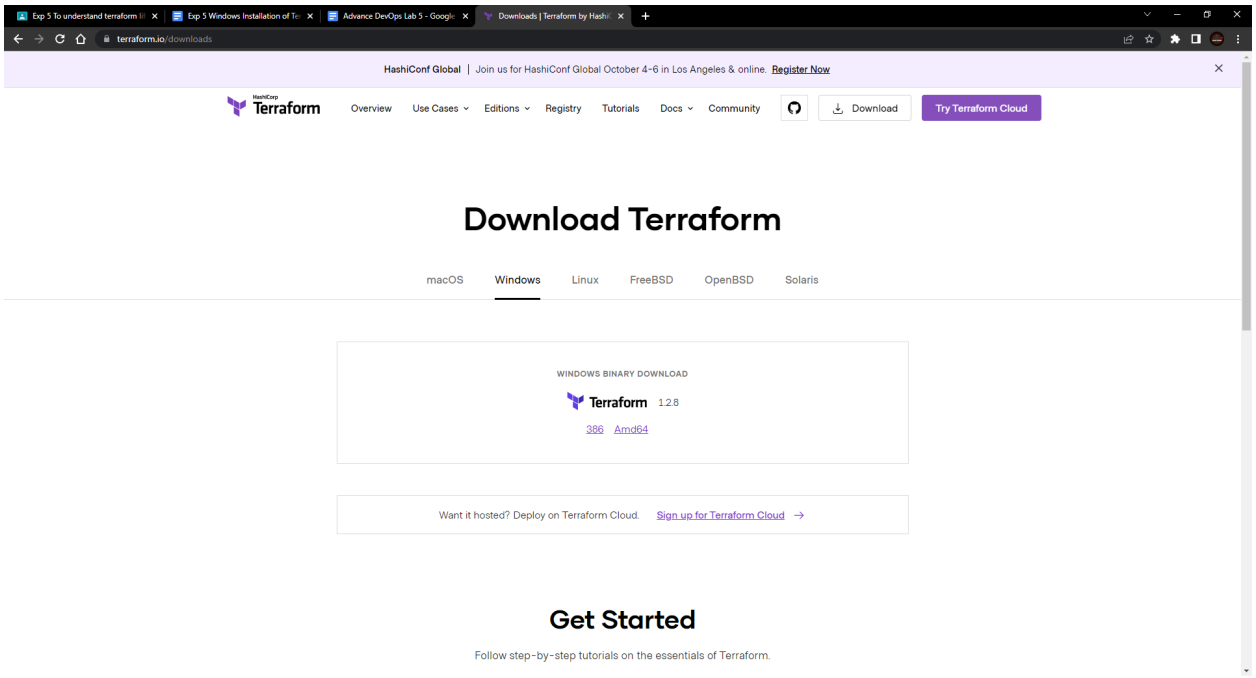
Theory -

Terraform is an Infrastructure as code (IaC) tool that allows you to build, change and version infrastructure safely and efficiently. This includes low level components as compute instances, storages and networking as well as high-level components such as DNS entries, SaaS features etc.
Terraform can manage infrastructure on multiple cloud platforms. Terraform's state allows you to track resource changes throughout your deployments. You can commit your configurations to version control to safely collaborate on infrastructure. Terraform plugins called providers let Terraform interact with cloud platforms and other services via their APIs.

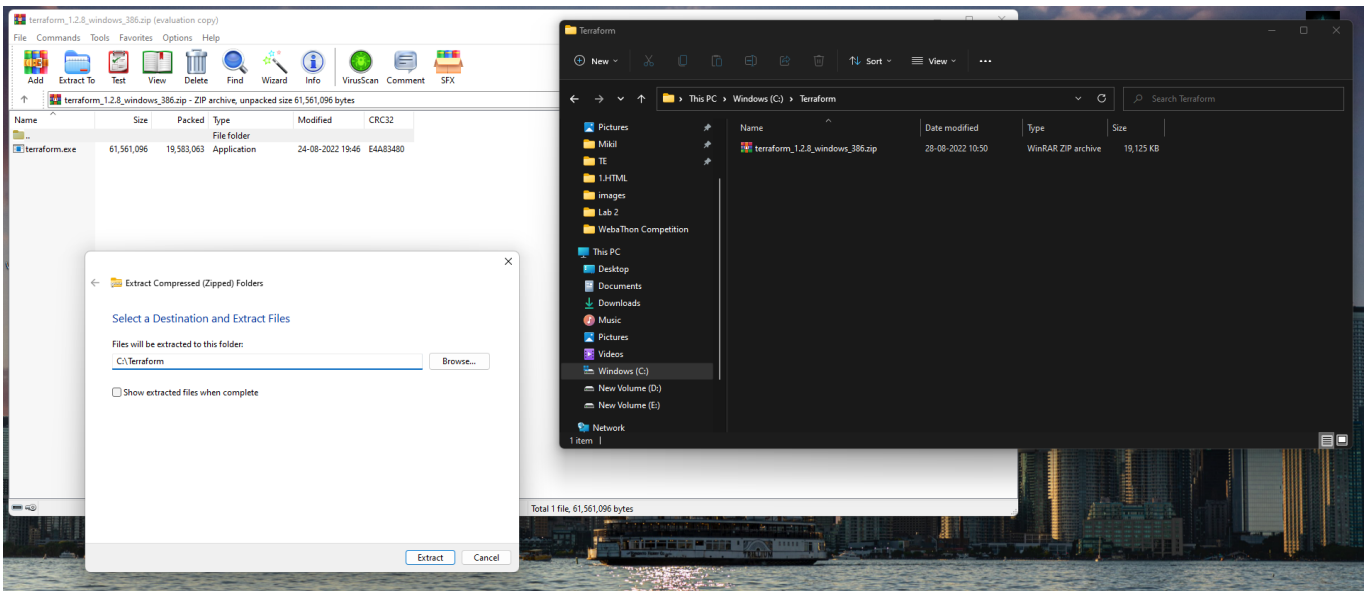
Steps:

1. Download terraform

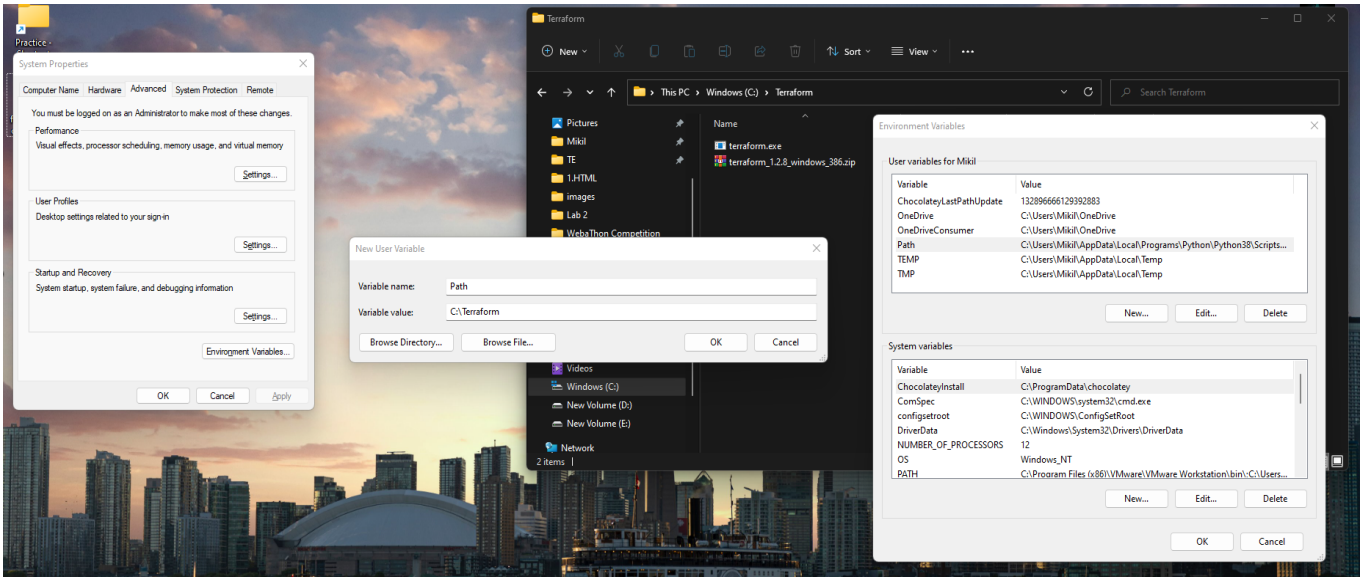
   To install Terraform, First Download the Terraform Cli Utility for windows from terraforms official website
   Select the Operating System Windows followed by either 32-bit or 64-bit based on your OS type.



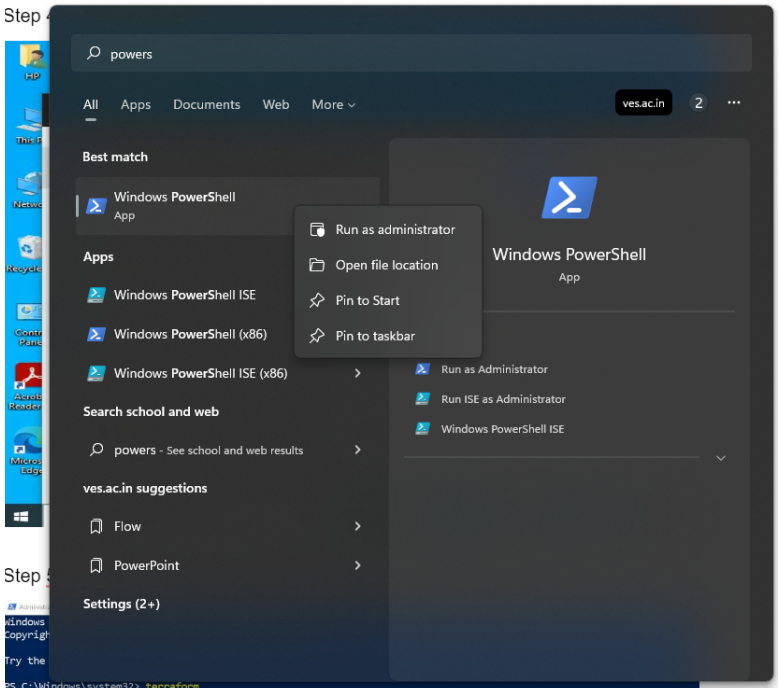
2. Extract the downloaded setup file Terraform.exe in the C:\Terraform directory.



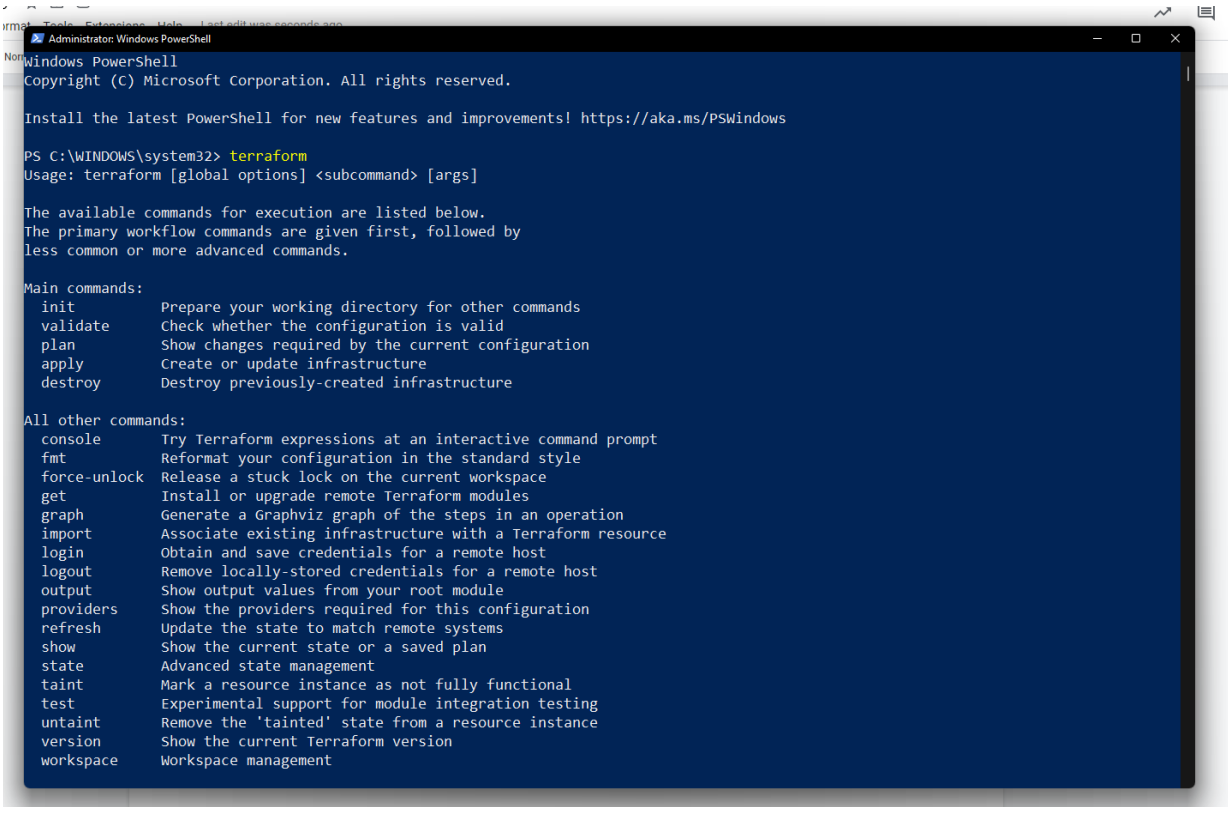
3. Set the System path for Terraform in Environment Variables



4. Open PowerShell with Admin Access.



5. Open Terraform in PowerShell and check its functionality.



Note: If any error comes, then please recheck or set the path of Terraform in the Environment variable again.

Conclusion -

Thus, we have successfully installed Terraform.