

What is Terraform and its uses

Terraform is an IAC tool, used primarily by DevOps teams to automate various infrastructure tasks. The provisioning of cloud resources, for instance, is one of the main use cases of Terraform. It's a cloud-agnostic, open-source provisioning tool written in the Go language and created by HashiCorp

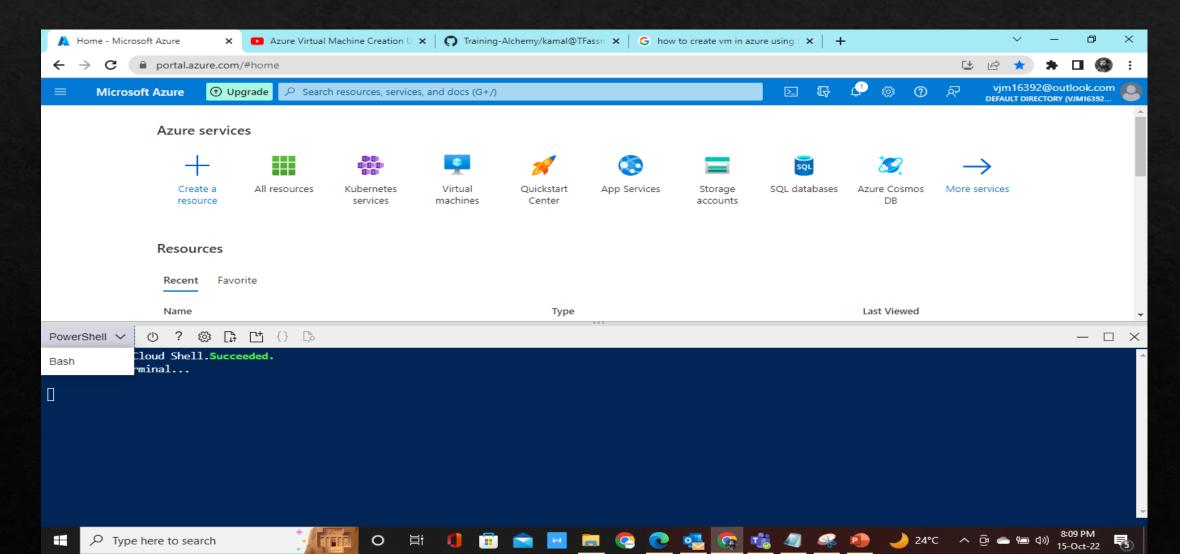


HashiCorp Terraform

How to create VM in Azure via using Terraform

- ♦ Login to Azure portal, Each platform having their own shell terminal. In Azure default shell is Bash and powershell so user can choose any terminal by its own choice or as per requirement for performing Terraform execution
- ♦ In next slide will see the image how to access terminal

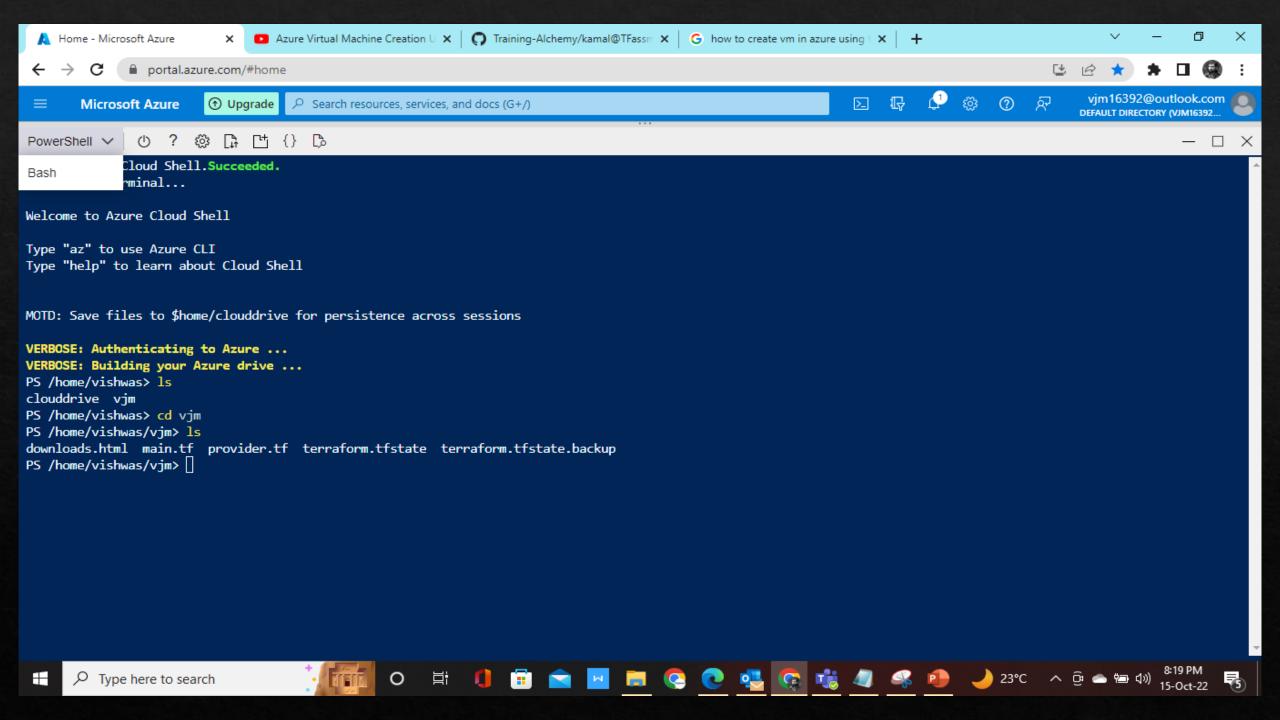
Image of terminal in Azure portal



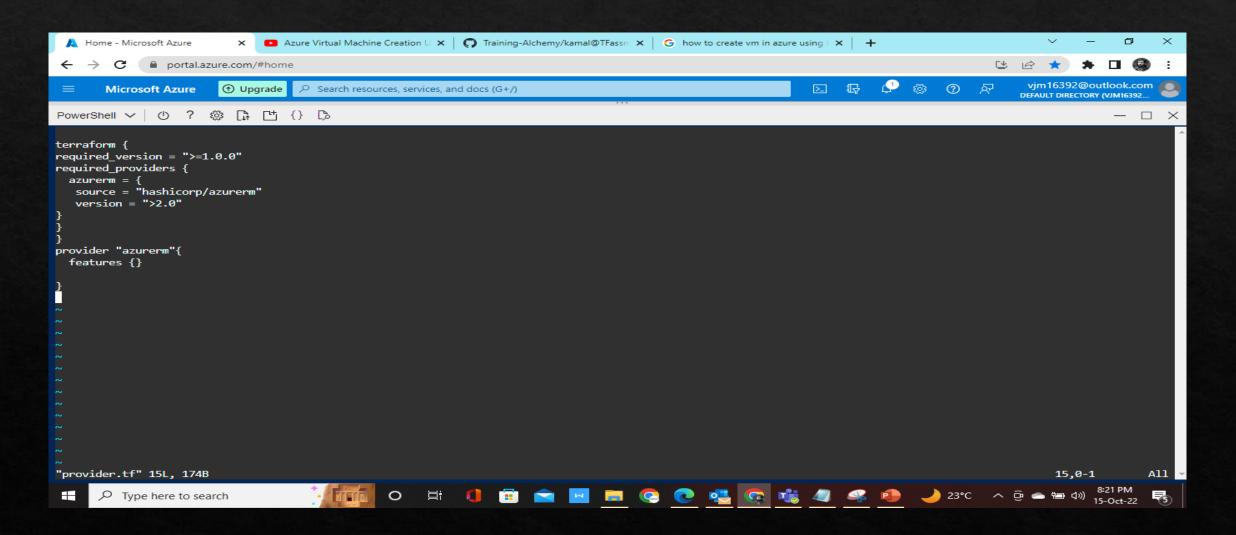
Once login in Azure Cli.

Terraform is already installed so no need to worry about installation user can directly access and use it.

- Make a directory in terminal with any name by using mkdir command
- ♦ Inside directory we need to create two files in .tf format. For execution of Terraform. For example (touch abc.tf)
- ♦ File 1 with provider.tf and file 2 main.tf
- ♦ Image in next slide......



Every resource type is implemented by a provider; without providers, Terraform can't manage any kind of infrastructure.



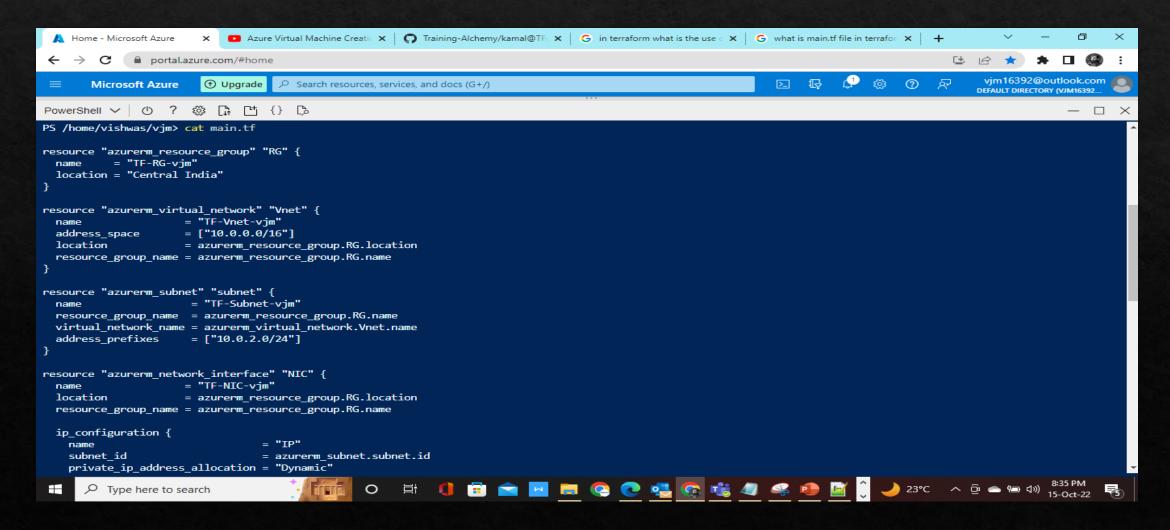
After provider.tf script will edit main.tf file.

- main.tf will contain the main set of configuration for your module.
- Main.tf Image in next slide with VM configuration script

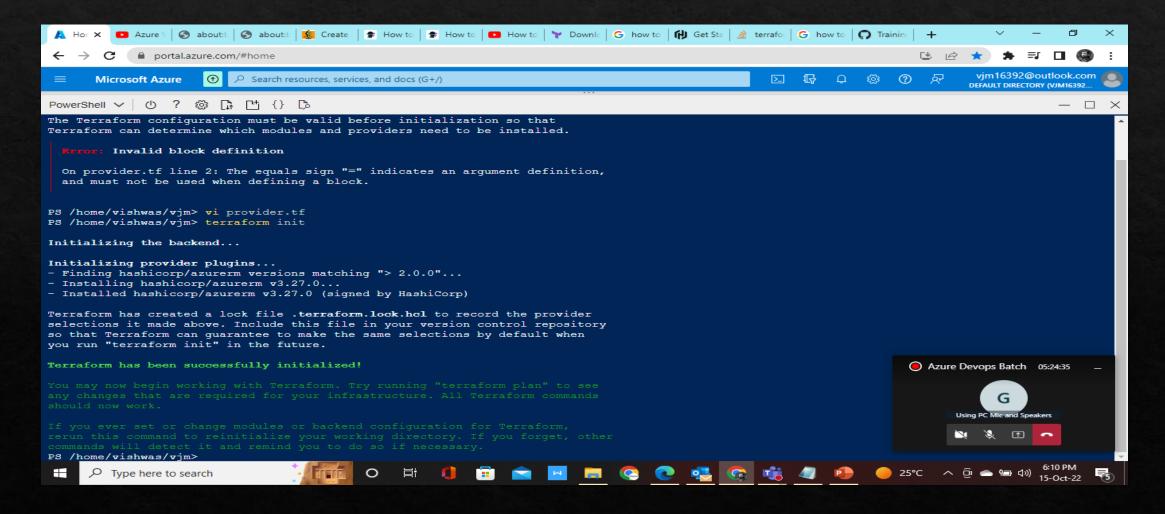
Main.tf script image code available in github

https://github.com/vsvvkt/Training-Alchemy.git

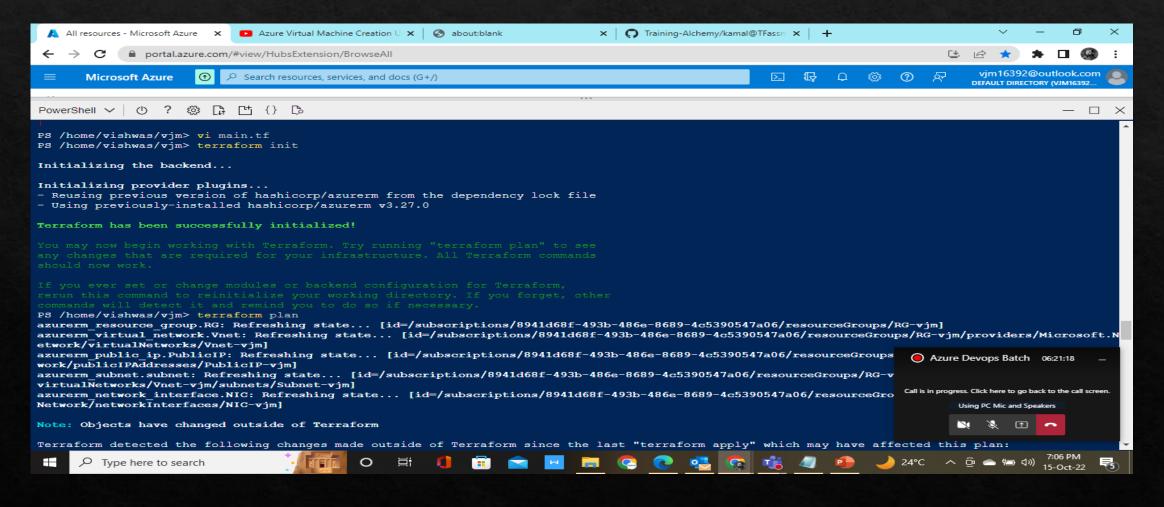
inside vishwas folder

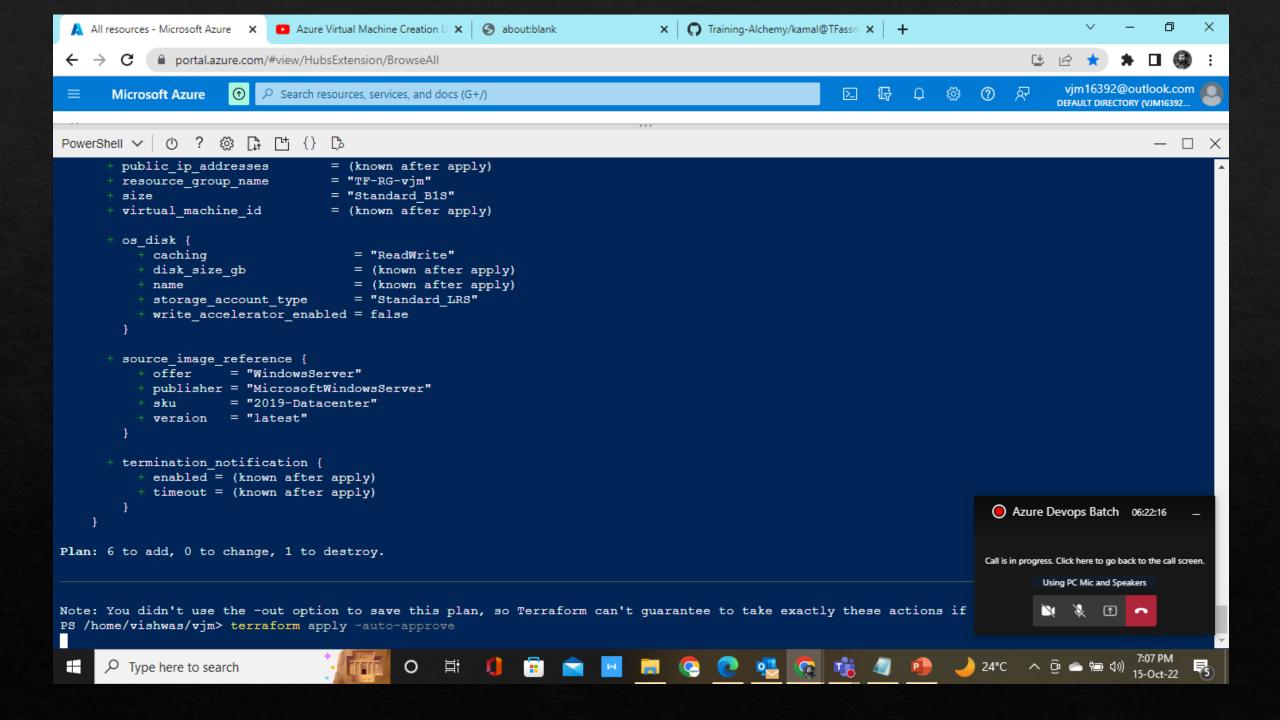


Once script is done in main.tf Run the command terraform init



Once initialize succeed then run the command (terraform plan) and once plan is succeed run the command (terraform apply -auto-approve)





Once terraform is applied check the resource in Azure portal Vm is Created

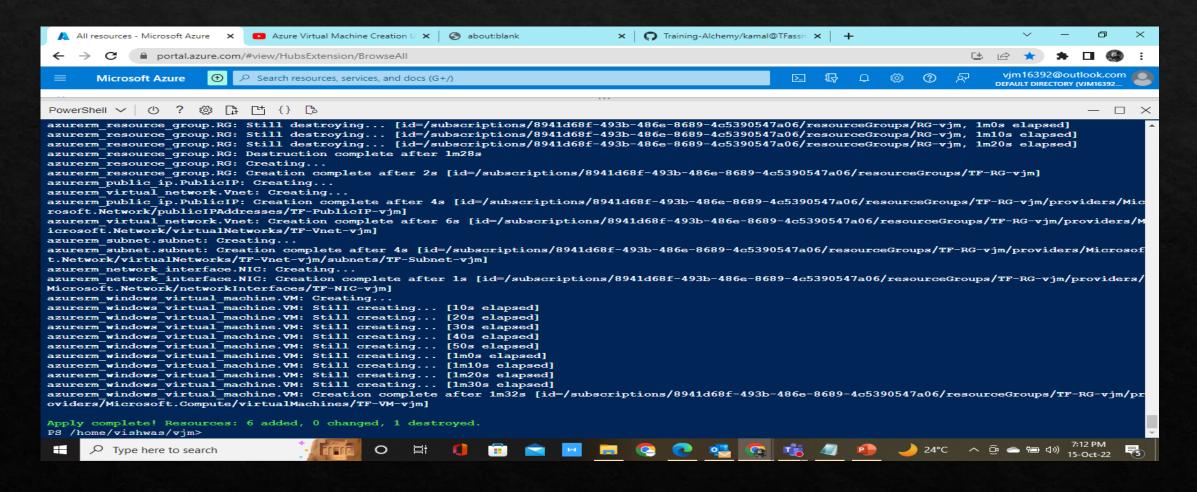
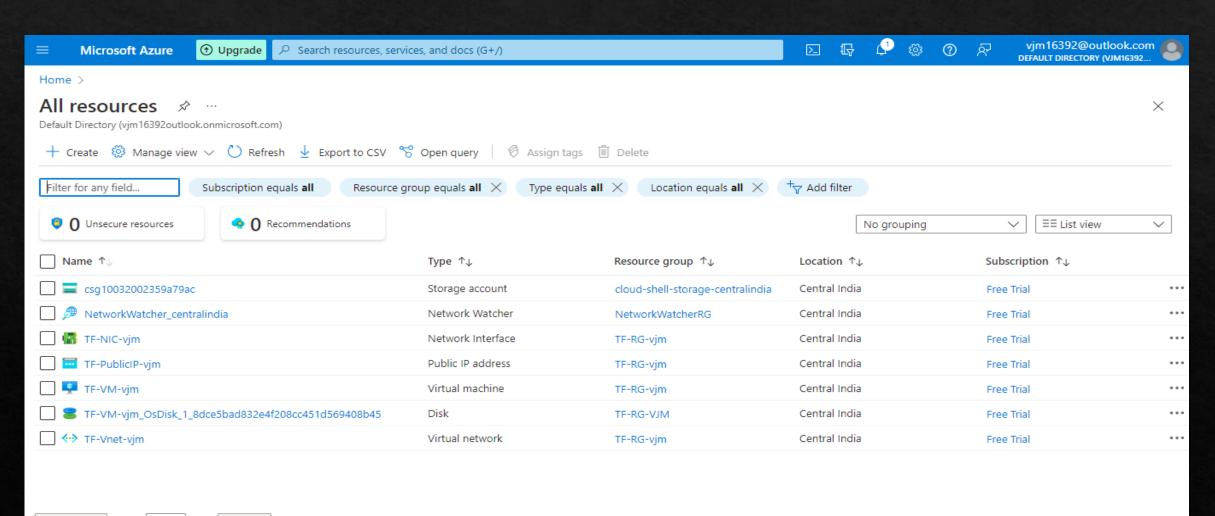


Image of VM creation and resource



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Thankyou.....

♦End of PPT