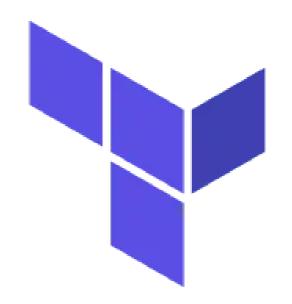
Infrastructure As A Code using Terraform

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Guidance & Support : Eng. Saad El-Kenawy



Why IAAC

1. Increased consistency

and execution speed

2.

Reusing code for infrastructure replication

3.

Validating code before executing using code review and test cases

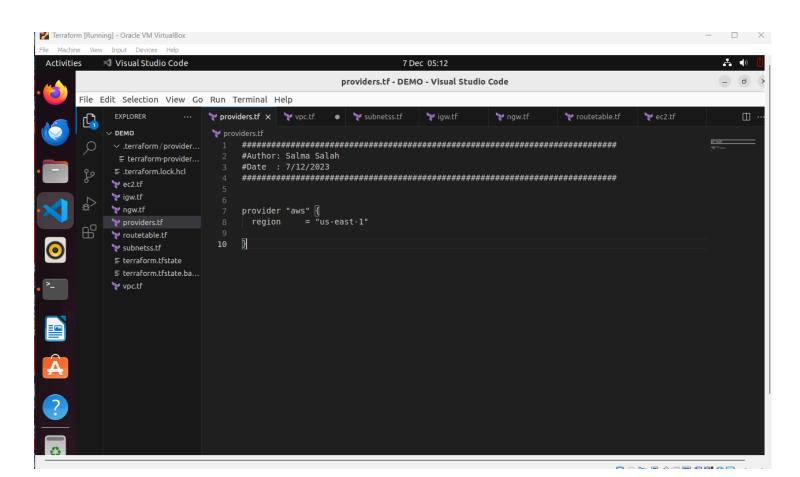
4

Versioning the IaC helps us to rollback to the previous version

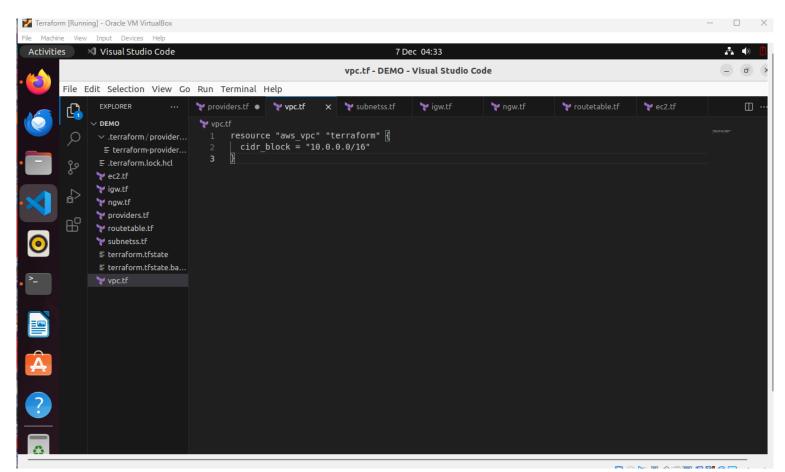
Task Scenario

Create a simple Highly Available and Secured Network Architecture with Two Public Subnets; Two Private subnets . Internet Gateway , Nat Gateway, Route Tables and an EC2 instance. Using Terraform

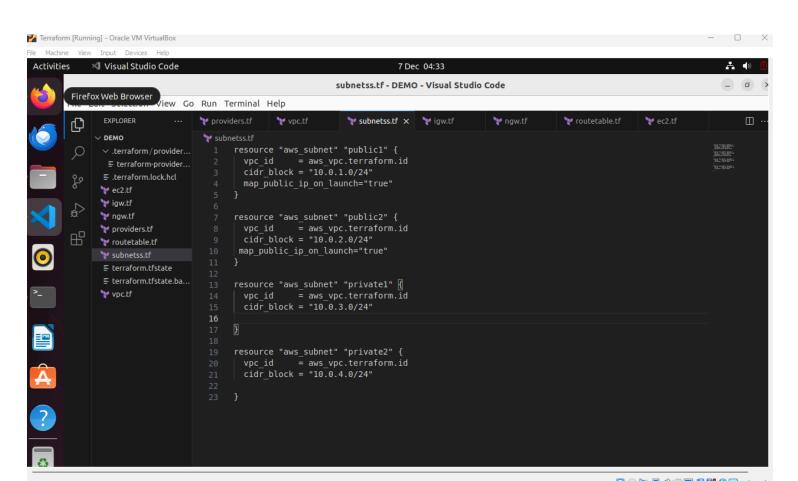
1) Providers



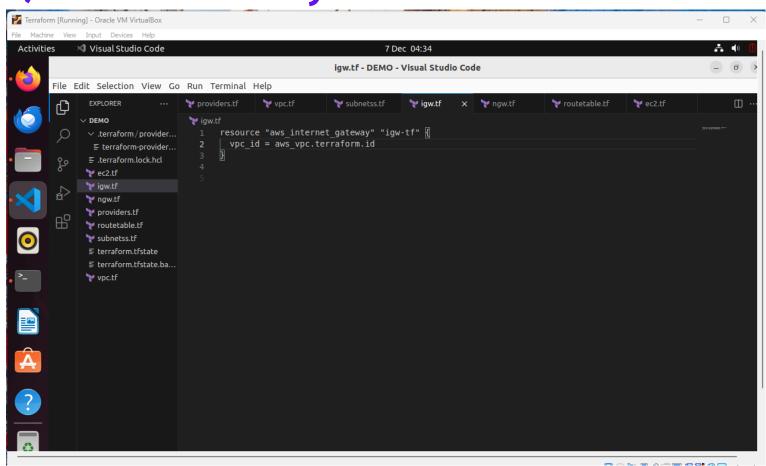
2) VPC



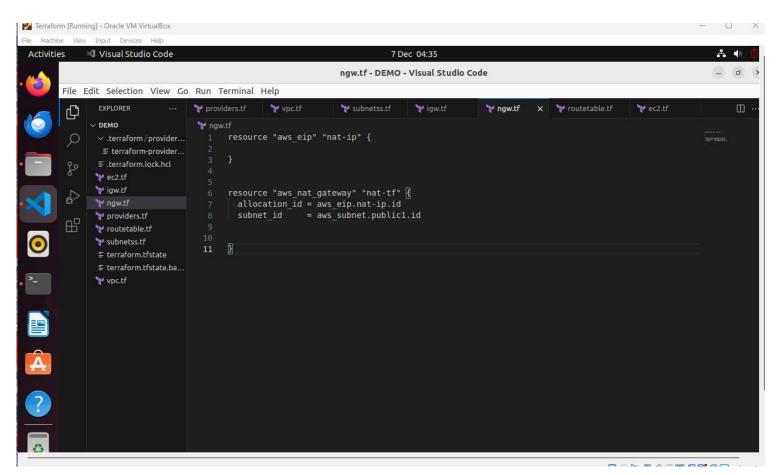
3) Two Public subnets & Twp Private subnets



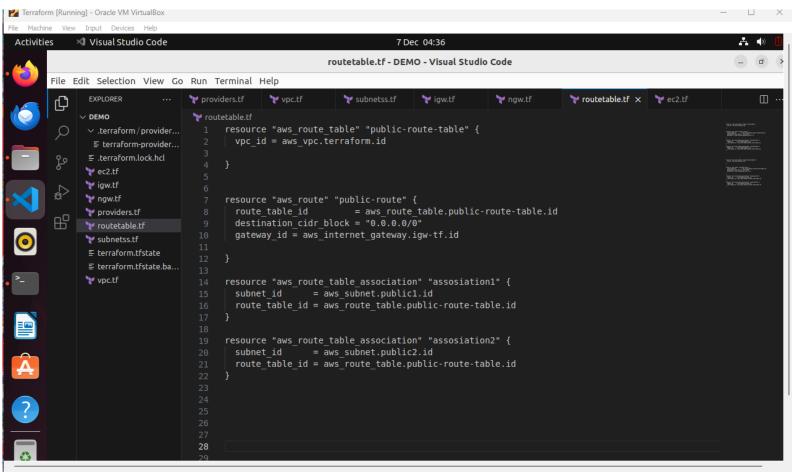
4) Internet Gateway



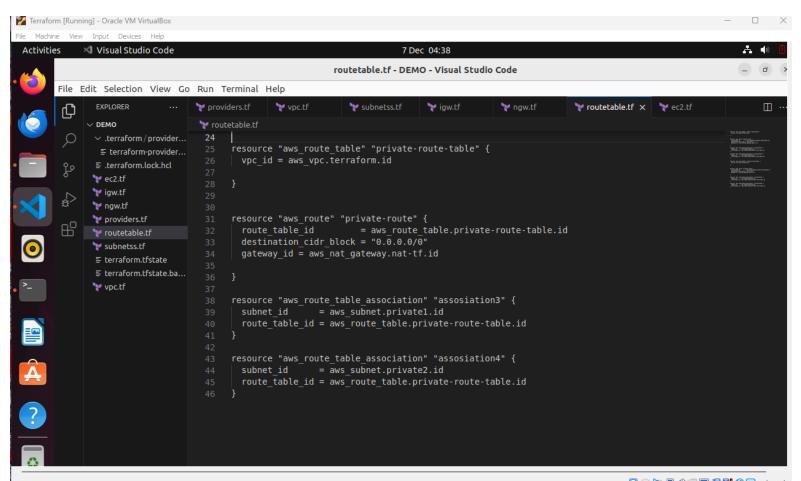
5) Nat Gateway



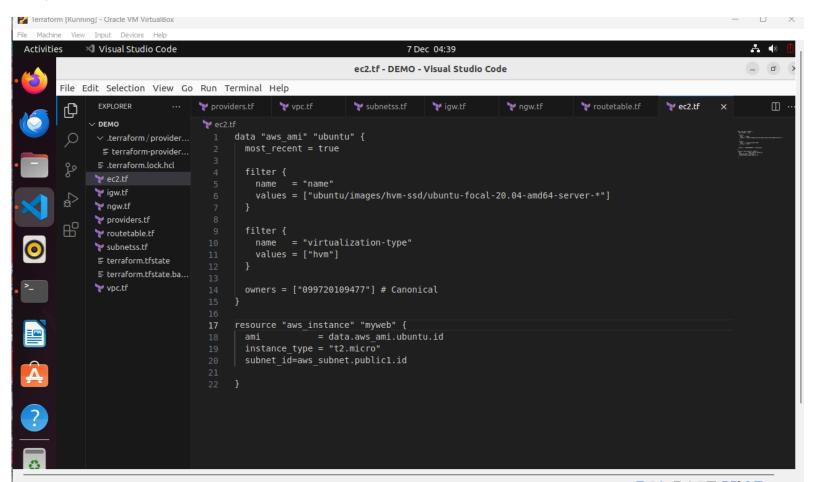
6) Public Route Table & Subnet Assosiation



7) Private Route Table & Subnet Association



8) EC2 instance



Used Terraform commands

- 1) terraform init: To Prepare working directory for other commands
- 2) terraform validate: To Check whether the configuration is valid
- 3) terraform plan: To Show changes required by the current configuration
- 4) terraform apply: To Create or update infrastructure
- 5) terraform destroy: To Destroy previously-created infrastructure