07-Terraform Command Basics

Basic Terraform Commands

- terraform init
- terraform validate
- terraform fmt
- terraform plan
- terraform apply
- terraform destroy

```
terraform {
  required_version = ">= 1.0.0" # which means any version equal & above
0.14 like 0.15, 0.16 etc and < 1.xx
  required_providers {
    aws = {
      source  = "hashicorp/aws"
      version = "~> 3.0"
    }
  }
}

provider "aws" {
  region = "us-east-1"
}


resource "aws_instance" "app_server" {
  ami           = "ami-052efd3df9dad4825"
  instance_type = "t2.micro"

  tags = {
    Name = "web01"
  }
}

# resource "aws_instance" "app_server2" {
#   ami           = "ami-052efd3df9dad4825"
#   instance_type = "t2.micro"

#   tags = {
#     Name = "web02"
#   }
# }
```

Terraform Core Commands

```
# Initialize Terraform
terraform init

# Terraform Validate
terraform validate

# Terraform Plan to Verify what it is going to create / update / destroy
terraform plan

# Terraform Apply to Create EC2 Instance
terraform apply
```

Verify the EC2 Instance in AWS Management Console

- Go to AWS Management Console -> Services -> EC2
- Verify newly created EC2 instance

Destroy Infrastructure

```
# Destroy EC2 Instance
terraform destroy

# Delete Terraform files
rm -rf .terraform*
rm -rf terraform.tfstate*
```