## **Terraform**

## **Commands:**

wget

https://releases.hashicorp.com/terraform/0.12.29/terraform 0.12.29 linux amd64.zip

sudo apt install unzip

unzip \*

mv terraform /usr/local/bin/

terraform -help

apt-get install aws

Then configure AWS credentials:

Create a user in AWS IAM and grant it with required privilege

Create a credentials file in ~/.aws/credentials:

```
[default]
aws_access_key_id=A
aws_secret_access_key=Dic_s
```

lyL

Create a config file in ~/.aws/config:

[default]
region=ap-southeast-2
output=json

## Then:

terraform init // initialize a working directory with Terraform configuration files terraform validate

```
terraform apply
[ubuntu@ip-10-0-1-183:~/files/terraform/learn-terraform-aws-instance$ terraform apply
var.subnet_id
Enter a value: subnet-08 r 1 e0
data.aws_subnet.selected: Refreshing state...
An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
  + create
Terraform will perform the following actions:
  # aws_eip.instance-ip will be created
+ resource "aws_eip" "instance-ip" {
      + allocation_id
                                 = (known after apply)
      + associate_with_private_ip = "10.0.1.8"
      + association_id
                               = (known after apply)
                                = (known after apply)
      + customer_owned_ip
                                 = (known after apply)
      + domain
                                = (known after apply)
      + id
      + instance
                                = (known after apply)
                               = (known after apply)
      + network_interface
      + private_dns
                                = (known after apply)
                                = (known after apply)
= (known after apply)
      + private_ip
      + public_dns
                                = (known after apply)
      + public_ip
                                = (known after apply)
      + public_ipv4_pool
      + vpc
                                = true
  # aws_instance.example will be created
  + resource "aws_instance" "example" {
                                    = "ami-0a58e22c727337c51"
      + ami
      + arn
                                    = (known after apply)
      + associate_public_ip_address = (known after apply)
      + availability_zone
                                    = (known after apply)
                                   = (known after apply)
      + cpu_core_count
      + cpu_threads_per_core
                                   = (known after apply)
                                   = false
      + get_password_data
      + host_id
                                    = (known after apply)
                                    = (known after apply)
      + id
                                   = (known after apply)
      + instance_state
                                   = "t2.micro"
      + instance_type
      + ipv6_address_count
                                   = (known after apply)
                                   = (known after apply)
      + ipv6_addresses
      + key_name
                                    = (known after apply)
                                   = (known after apply)
      + network_interface_id
                                   = (known after apply)
      + outpost_arn
      + password_data
                                   = (known after apply)
                                    = (known after apply)
      + placement_group
      + primary_network_interface_id = (known after apply)
      + private_dns
                                    = (known after apply)
                                    = "10.0.1.8"
      + private_ip
      + public_dns
                                    = (known after apply)
      + public_ip
                                    = (known after apply)
                                    = (known after apply)
      + security_groups
                                    = true
      + source_dest_check
      + subnet_id
                                    = "subnet-08c5c9b9531d599e0"
      + tags
                                    = {
```

+ "Name" = "Terraform Modified Instance"

i-0237b7a5b1f81ac2d t2.micro

2/2 checks passed

terraform destroy terminates the resource

Terraform Modified Instance