# Setup Work Station

1. Install Terraform & Ansible. Disable host-key-checking in ansible.cfg
2. IAM and DNS Setup

Create AWS Access Key in IAM

Create AWS Profile

$ aws configure --profile **awsprofile-dilipbr**

AWS Access Key ID [None]: XXXXXXXXXXXXXXXXXX

AWS Secret Access Key [None]: XXXXXXXXXXXXXXXXXXXXXXXXXXXx

Default region name [None]: us-east-2

Default output format [None]:

Profile details are stored in ~/.aws/credentials

Ex:

c:\Users\dilip\.aws>type credentials

[default]

aws\_access\_key\_id = XXXXXXXXXXXXXXXX

aws\_secret\_access\_key = XXXXXXXXXXXX

[**awsprofile-dilipbr**]

aws\_access\_key\_id = XXXXXXXXXXXXX

aws\_secret\_access\_key = XXXXXXXXXXXXX

Test profile:

c:\Users\dilip\.aws>aws s3 ls

c:\Users\dilip\.aws>aws ec2 describe-instances --profile awsprofile-dilipbr

c:\Users\dilip\.aws>set AWS\_PROFILE=awsprofile-dilipbr

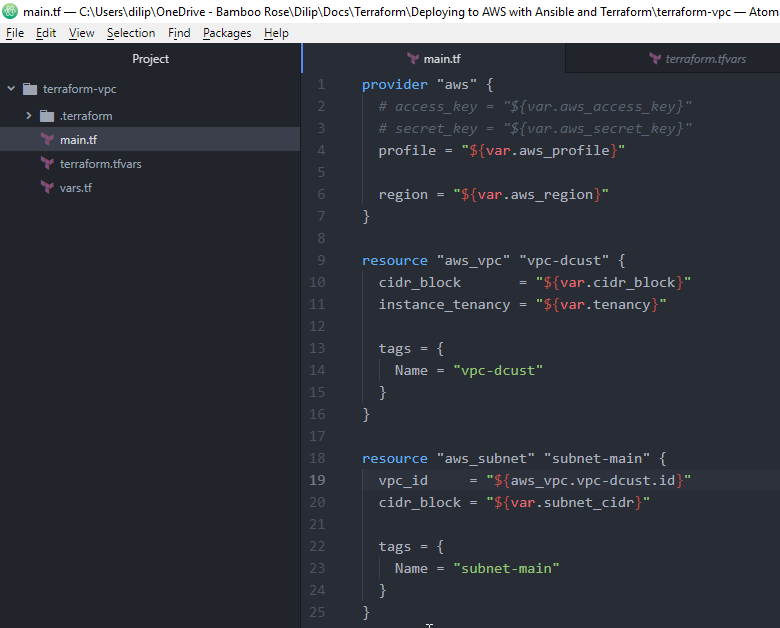
c:\Users\dilip\.aws>aws ec2 describe-instances

# Provider, Credentials, Variables

Providers understand API interactions and expose resources.

Providers are generally IaaS (e.g. AWS, GCP, Microsoft Azure, OpenStack), Paas (e.g. Heruku) or SaaS Services (e.g. Terraform Enterprise, DNSimple, CloudFlare).

## Simple VPC :





### main.tf

provider "aws" {

# access\_key = "${var.aws\_access\_key}"

# secret\_key = "${var.aws\_secret\_key}"

profile = "${var.aws\_profile}"

region = "${var.aws\_region}"

}

resource "aws\_vpc" "vpc-dcust" {

cidr\_block = "${var.cidr\_block}"

instance\_tenancy = "${var.tenancy}"

tags = {

Name = "vpc-dcust"

}

}

resource "aws\_subnet" "subnet-main" {

vpc\_id = "${aws\_vpc.vpc-dcust.id}"

cidr\_block = "${var.subnet\_cidr}"

tags = {

Name = "subnet-main"

}

}

### Vars.tf

variable "aws\_profile" {

default = ""

}

variable "aws\_region" {

default = ""

}

variable "cidr\_block" {

default = "10.0.0.0/16"

}

variable "tenancy" {

default = "default"

}

variable "subnet\_cidr" {

default = "10.0.1.0/24"

}

### Terraform.tfvars

aws\_profile = "awsprofile-dilipbr"

aws\_region = "us-east-2"

## VPC with using modules:

