

Terraform AWS VPC

1. Creating Only VPC

vi test1.tf

provider "aws" {

profile = "default"

region = "ap-south-1"

}

resource "aws\_vpc" "vpc-1" {

cidr\_block = "10.100.0.0/16"

instance\_tenancy = "default"

tags = {

Name = "Mumbai-vpc1"

}

}

1. Creating VPC and Internet Gateway and attaching it.

vi test2.tf

provider "aws" {

profile = "default"

region = "ap-south-1"

}

resource "aws\_vpc" "vpc-1" {

cidr\_block = "10.100.0.0/16"

instance\_tenancy = "default"

tags = {

Name = "Mumbai-vpc1"

}

}

resource "aws\_internet\_gateway" "my-ig-1" {

vpc\_id = aws\_vpc.vpc-1.id

tags = {

Name = "my-internetgateway1"

}

}

1. Create VPC , Public Subnet, Private Subnet and Internet Gateway –And Attach IG to VPC

vi test3.tf

provider "aws" {

profile = "default"

region = "ap-south-1"

}

resource "aws\_vpc" "vpc-1" {

cidr\_block = "10.100.0.0/16"

instance\_tenancy = "default"

tags = {

Name = "Mumbai-vpc1"

}

}

resource "aws\_internet\_gateway" "my-ig-1" {

vpc\_id = aws\_vpc.vpc-1.id

tags = {

Name = "my-internetgateway1"

}

}

resource "aws\_subnet" "public\_subnet" {

vpc\_id = aws\_vpc.vpc-1.id

cidr\_block = "10.100.1.0/24"

availability\_zone = "ap-south-1a"

tags = {

Name = "mumbai-vpc-public-subnet"

Environment = "Dev"

}

}

resource "aws\_subnet" "private\_subnet" {

vpc\_id = aws\_vpc.vpc-1.id

cidr\_block = "10.100.2.0/24"

availability\_zone = "ap-south-1b"

tags = {

Name = "mumbai-vpc-private-subnet"

Environment = "Dev"

}

}

1. Create VPC , Public Subnet, Private Subnet, Route table and Internet Gateway –And Attach IG to VPC --------------------Full VPC Setup

# vi test4.tf

/\*==== Provider======\*/

provider "aws" {

profile = "default"

region = "ap-south-1"

}

/\*==== The VPC ======\*/

resource "aws\_vpc" "vpc-1" {

cidr\_block = "10.100.0.0/16"

instance\_tenancy = "default"

tags = {

Name = "Mumbai-vpc1"

}

}

/\*==== Internet gateway ======\*/

resource "aws\_internet\_gateway" "my-ig-1" {

vpc\_id = aws\_vpc.vpc-1.id

tags = {

Name = "my-internetgateway1"

}

}

/\*==== Public Subnet ======\*/

resource "aws\_subnet" "public\_subnet" {

vpc\_id = aws\_vpc.vpc-1.id

cidr\_block = "10.100.1.0/24"

availability\_zone = "ap-south-1a"

tags = {

Name = "mumbai-vpc1-public-subnet"

Environment = "Dev"

}

}

/\*==== Private Subnet ======\*/

resource "aws\_subnet" "private\_subnet" {

vpc\_id = aws\_vpc.vpc-1.id

cidr\_block = "10.100.2.0/24"

availability\_zone = "ap-south-1b"

tags = {

Name = "mumbai-vpc1-private-subnet"

Environment = "Dev"

}

}

/\*==== Route table ======\*/

resource "aws\_route\_table" "public" {

vpc\_id = aws\_vpc.vpc-1.id

tags = {

Name = "mumbai-vpc1-public-route-table"

}

}

/\*==== Adding routes to Route Table ======\*/

resource "aws\_route" "public\_internet\_gateway" {

route\_table\_id = aws\_route\_table.public.id

destination\_cidr\_block = "0.0.0.0/0"

gateway\_id = aws\_internet\_gateway.my-ig-1.id

}

/\*===== Route table associations========== \*/

resource "aws\_route\_table\_association" "public" {

subnet\_id = aws\_subnet.public\_subnet.id

route\_table\_id = aws\_route\_table.public.id

}