# **Terraform Resource Templates**

**Provider.tf**

terraform {

required\_providers {

    aws = {

      source  = "hashicorp/aws"

      version = "~> 5.0"

    }

  }

}

# Configure the AWS Provider

provider "aws" {

  region = "ap-south-1"

}

**Vpc.tf (subnets, route table, associate route table)**

# Create Vpc

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

  cidr\_block       = "10.10.0.0/16"

  instance\_tenancy = "default"

  tags = {

    Name = "my-vpc"

  }

}

# Create subnets

// Public subnet

resource "aws\_subnet" "my-Publicsubnet" {

  vpc\_id     = aws\_vpc.my-vpc.id

  cidr\_block = "10.10.1.0/24"

  tags = {

    Name = "my-Publicsubnet"

  }

}

// Private subnet

resource "aws\_subnet" "my-Privatesubnet" {

  vpc\_id     = aws\_vpc.my-vpc.id

  cidr\_block = "10.10.2.0/24"

  tags = {

    Name = "my-Privatesubnet"

  }

}

# Create internet gateway

resource "aws\_internet\_gateway" "my-igw" {

  vpc\_id = aws\_vpc.my-vpc.id

  tags = {

    Name = "my-igw"

  }

}

# Create a route table

resource "aws\_route\_table" "my-routetable" {

  vpc\_id = aws\_vpc.my-vpc.id

  route {

    cidr\_block = "0.0.0.0/0"

    gateway\_id = aws\_internet\_gateway.my-igw.id

  }

  tags = {

    Name = "my-routetable"

  }

}

# Associate subnet with route table

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

  subnet\_id      = aws\_subnet.my-Publicsubnet.id

  route\_table\_id = aws\_route\_table.my-routetable.id

}

**S3.tf**

# Create s3 bucket

resource "aws\_s3\_bucket" "david-bucket" {

  bucket = "my-tf-test-bucket-david526"

  versioning {

       enabled = true

  }

  server\_side\_encryption\_configuration {

    rule {

    apply\_server\_side\_encryption\_by\_default {

      sse\_algorithm     = "AES256"

    }

  }

}

 }

**Dynamodb.tf**

# Create dynambodb table

resource "aws\_dynamodb\_table" "statelock" {

  name           = "state-lock"

  billing\_mode   = "PAY\_PER\_REQUEST"

  hash\_key       = "LockID"

  attribute {

    name = "LockID"

    type = "S"

  }

}