**Terraform Installation**

<https://developer.hashicorp.com/terraform/tutorials/aws-get-started/install-cli>

Steps to Install Terraform in Ubuntu

1. sudo apt-get update && sudo apt-get install -y gnupg software-properties-common
2. wget -O- https://apt.releases.hashicorp.com/gpg | \

gpg --dearmor | \

1. sudo tee /usr/share/keyrings/hashicorp-archive-keyring.gpg
2. echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg] \

https://apt.releases.hashicorp.com $(lsb\_release -cs) main" | \

sudo tee /etc/apt/sources.list.d/hashicorp.list

1. sudo apt update -y
2. sudo apt-get install terraform -y

touch install.sh

sudo apt-get update && sudo apt-get install -y gnupg software-properties-common

wget -O- https://apt.releases.hashicorp.com/gpg | \

gpg --dearmor | \

sudo tee /usr/share/keyrings/hashicorp-archive-keyring.gpg

echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg] \

https://apt.releases.hashicorp.com $(lsb\_release -cs) main" | \

sudo tee /etc/apt/sources.list.d/hashicorp.list

sudo apt update -y

sudo apt-get install terraform -y

bash install.sh

**To Verify Terraform Installation**

terraform --version

**Terraform AWS Docs** - https://registry.terraform.io/providers/hashicorp/aws/latest/docs

**Create IAM User** - https://codebriefly.com/how-to-create-aws-iam-user-with-programmatic-access/

touch main.tf

provider "aws" {

access\_key = "AKIA2R47QYRFK2EHKNRS"

secret\_key = "i3uCqAlBCr08Ti5/3vpIXm"

region = "us-east-2"

}

resource "aws\_instance" "myserver" {

ami = "ami-0283a57753b18025b"

instance\_type = "t2.micro"

key\_name = "docker-ssh"

}

**To initalize the provider (this needs to be done only once)**

terraform init

**To validate the template**

terraform validate

**To perform a dry run (to know what resource terraform will creating)**

terraform plan

**To apply the changes**

terraform apply

**To format the templates**

terraform fmt

**To destroy the resource created by terraform**

terraform destory

provider "aws" {

access\_key = "AKIA2R47QYRFK2EHKNRS"

secret\_key = "i3uCqAlBCr08ks+Nm"

region = "us-east-2"

}

resource "aws\_instance" "myserver01" {

count = 2

ami = "ami-0283a57753b18025b"

instance\_type = "t2.micro"

key\_name = "docker-ssh"

tags = {

Name = "MyServer1"

}

}

resource "aws\_instance" "myserver02" {

ami = "ami-0283a57753b18025b"

instance\_type = "t2.medium"

key\_name = "docker-ssh"

tags = {

Name = "MyServer2"

}

}