# Terraform with Docker and Jenkins

## Iam.tf:

### IAM role with policy allows ec2

1. Create instance profile for that role
2. Create admin role policy to that role

## Instance.tf

1. Aws\_ami ubuntu image, filter the image with location of image, virtualization type and owner
2. Define aws\_instance ami, instance type, subnet id,vpc\_security\_group\_ids,keyname userdata,iam\_instance\_profile
3. Define ebs\_volume,aws\_volume attachment,
4. Define app-instance(count, ami, ami,instance type,subnet id,vpc\_security\_group\_ids,keyname)

## Outputs.tf

1. Jenkins ip,app ip,s3 bucket

## Cloudinit.sh

1. Define template file. Map file.Device, Jenkins and Terraform version. Template cloudinit\_confign

## Jenkins\_init.sh

1. Volume setup, Device name detect compare existence
2. Volume setup, logical volume create, mount the volume
3. Install repo,dependencies,Jenkins,packer,cleanup,terraform

## Jenkins-run-terraform

1. S3 copy terraform state