

Terraform Assignment 1

You have been hired as a DevOps Engineer for automating the configuration of an organization XYZ Pvt Ltd. The company would like to distribute its infrastructure across 3 cloud platform, AWS, Azure and GCP. The organization has decided to use Terraform to provision its infrastructure across these cloud platforms.

As a pilot project, organization would want you to provision the infrastructure on AWS environment.

You are requested to create an EC2 machine with following configuration.

1. Instance Name : Terraform hands-on
2. Instance type : t2.micro

Assignment 2

Deploying AWS resources

A&B is a Leading Business Services & Solution Provider company in the market, for one of their clients is struggling with the infrastructure provisioning and they would like to automate their infrastructure provisioning with the help of Terraform.

You are requested to setup the entire infrastructure using a Terraform Configuration. Following resources need to be deployed:

1. Network Setup

Create a VPC

Create an internet gateway

Create a custom Route Table

Create a Subnet

Associate the Subnet with the Route Table

2. Security Group Setup

Create a new security group

Enable ports 22, 80, 443

3. Network Interface Setup

Create a new network interface with IP in the previously created subnet

Create an elastic IP associated with the network interface

4. Ec2 instance setup

Create a new ubuntu ec2 instance and attach the network interface to it

Install httpd server on it

All Configuration code has been taken from:

<https://registry.terraform.io/providers/hashicorp/aws/latest/docs>

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