TASK 1:

Task 1: Have to create/launch Application using Terraform

- 1. Create the key and security group which allow the port 80.
- 2. Launch EC2 instance.
- 3. In this Ec2 instance use the key and security group which we have created in step 1.
- 4. Launch one Volume (EBS) and mount that volume into /var/www/html
- 5. Developer have uploded the code into github repo also the repo has some images.
- 6. Copy the github repo code into /var/www/html
- 7. Create S3 bucket, and copy/deploy the images from github repo into the s3 bucket and change the permission to public readable.
- 8 Create a Cloudfront using s3 bucket(which contains images) and use the Cloudfront URL to update in code in /var/www/html

from port = 22to_port = 22

```
Notepad file:
Git link to download: <a href="https://github.com/visheshgargavi/hybrid-task1.git">https://github.com/visheshgargavi/hybrid-task1.git</a>
provider "aws" {
 region = "ap-south-1"
 profile = "myvishesh"
}
resource "aws key pair" "task1-key" {
 key name = "task1-key"
 public key = "ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQCzXD5tF1G5oF3StxzKbT3TvwtL2P/ZotKFARLsZr7
KEfaHU4ZPA3q3dcnkum67HpNV4p/v8EIIUFFsX2ZuxH2sN5UYKDm6WmPdII+vkc+JBE65/CiK
2m5RJ7mwclgJpQuNdYdREzA79FX+ZFTyBlt/KMwb06wcgWonYPpWcVxujpIot2rag+ZA5TcR5
KyZKSfdM7AIMLUHARPAKjo2ikmvccNSLxg2P6AJf7Epgb0rvfb3skv34w0EslQSZD/s/nSmNifcV
SVXTKegqAUIIMC17Od+YwfUM0dFgQNpF54WJzvaRF2tFv5pMQFRr6qLQBNFoe8ezvz2b26
m9gMAwX0I"
}
resource "aws_security_group" "task1-sg" {
           = "task1-sg"
 description = "Allow TLS inbound traffic"
 vpc id
         = "vpc-15f8e57d"
 ingress {
  description = "SSH"
```

```
protocol = "tcp"
  cidr_blocks = [ "0.0.0.0/0" ]
 }
 ingress {
  description = "HTTP"
  from_port = 80
  to_port = 80
  protocol = "tcp"
  cidr_blocks = ["0.0.0.0/0"]
 }
 egress {
  from_port = 0
  to_port = 0
  protocol = "-1"
  cidr_blocks = ["0.0.0.0/0"]
 }
 tags = {
  Name = "task1-sg"
}
resource "aws_ebs_volume" "task1-ebs" {
 availability_zone = "ap-south-1a"
 size
             = 1
 tags = {
  Name = "task1-ebs"
 }
resource "aws_volume_attachment" "task1-attach" {
device_name = "/dev/sdf"
volume_id = "${aws_ebs_volume.task1-ebs.id}"
instance_id = "${aws_instance.task1-inst.id}"
}
resource "aws_instance" "task1-inst" {
           = "ami-0447a12f28fddb066"
 instance_type = "t2.micro"
 availability_zone = "ap-south-1a"
 key_name
              = "task1-key"
 security_groups = [ "task1-sg" ]
```

```
user_data = <<-EOF
    #! /bin/bash
    sudo yum install httpd -y
    sudo systemctl start httpd
    sudo systemctl enable httpd
    sudo yum install git -y
    mkfs.ext4 /dev/xvdf1
    mount /dev/xvdf1 /var/www/html
    cd /var/www/html
    git clone https://github.com/visheshgargavi/hybrid-task1</pre>
EOF

tags = {
    Name = "task1-inst"
}
```











