# Create a web-server on Amazon EC2 instance using Terraform and user data

**provider.tf**

terraform {

required\_providers {

aws = {

source = "hashicorp/aws"

version = "~> 4.0"

}

}

}

provider "aws" {

region = "us-east-1"

}

**sg.tf**

resource "aws\_security\_group" "tf\_web\_sg" {

name = "tf\_web\_sg"

description = "For terraform web application"

ingress {

from\_port = 22

to\_port = 22

protocol = "tcp"

cidr\_blocks = ["0.0.0.0/0"]

}

ingress {

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"]

}

}

**ec2.tf**

resource "aws\_instance" "Mahesh\_web" {

ami = "ami-0aa7d40eeae50c9a9"

instance\_type = "t2.micro"

security\_groups = ["${aws\_security\_group.tf\_web\_sg.name}"]

user\_data = <<-EOF

#!/bin/bash

sudo yum install httpd -y

sudo systemctl start httpd

sudo systemctl enable httpd

echo "<h1>Welcome to Msys Technologies Pvt Ltd...<br>Kilari Mahesh</h1>" >> /var/www/html/index.html

EOF

tags = {

Name = "Mahesh\_webserver"

}

}

**output:**

