

## Terraform code for Web hosting in NGINX

### Main.tf file:

```
terraform {  
  required_providers {  
    aws = {  
      source = "hashicorp/aws"  
      version = "~>5.0"  
    }  
  }  
}  
  
provider "aws" {  
  region = "ap-south-1"  
}  
  
resource "aws_security_group" "Web_hosting_sg" {  
  name = "web_hosting_sg"  
  description = "Allow http and ssh only"  
  
  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"]
    }
}

resource "aws_instance" "Webhosting_terraform" {
    ami = var.ami
    key_name = var.key_pair
    instance_type = var.instance_type
    security_groups = [aws_security_group.Web_hosting_sg.name]
    user_data = file("user_data.sh")

    tags = {
        Name = "Webhosting_Terraform"
    }
}

```

**Variables.tf:**

```
variable "instance_type" {  
    default = "t2.micro"  
}
```

```
variable "ami" {  
    default = "ami-05c179eced2eb9b5b"  
}
```

```
variable "key_pair" {  
    default = "feb-ppk"  
}
```

**User\_data.sh:**

```
sudo yum update -y  
sudo yum install -y nginx git
```

```
sudo systemctl start nginx  
sudo systemctl enable nginx
```

```
sudo git clone https://github.com/Jaswanthinks/Udemy_Clone.git /var/www/html
```

```
sudo chown -R nginx:nginx /var/www/html  
sudo chmod -R 755 /var/www/html
```

```
sudo rm -f /etc/nginx/nginx.conf
```

```
cat <<EOF | sudo tee /etc/nginx/nginx.conf
```

```
events {
```

```
    worker_connections 1024;
```

```
}
```

```
http {
```

```
    include /etc/nginx/mime.types;
```

```
    server {
```

```
        listen 80;
```

```
        server_name _;
```

```
        root /var/www/html;
```

```
        index index.html index.htm;
```

```
        location / {
```

```
            try_files $uri $uri/ =404;
```

```
        }
```

```
    }
```

```
}
```

```
EOF
```

```
sudo systemctl restart nginx
```