```yaml
AWSTemplateFormatVersion: '2010-09-09'
Description: Template for webserver with sg,intance-role and
Parameters:
  ImageId:
    Type: String
    Description: 'Linux 2 AMI for Ireland us-east-1 Region'
    Default: 'ami-033b95fb8079dc481'
  VpcId:
    Type: String
    Description: VPC id
    Default: vpc-0417ec09c53041e25
  SubnetId:
    Type: String
    Description: Subnet in which to launch an EC2
    Default: subnet-0bc683251c5bd7e52

  InstanceType:
    Type: String
    Description: Choosing  t2 micro because it is free
    Default: t2.micro
  KeyName:
    Type: String
    Description: Keypair for ssh and http
    Default: cf-webkey

Resources:
  MySecurityGroup:
    Type: 'AWS::EC2::SecurityGroup'
    Properties:
      VpcId: !Ref VpcId
      GroupDescription: SG to allow SSH access via port 22
      SecurityGroupIngress:
        - IpProtocol: tcp
          FromPort: '22'
          ToPort: '22'
          CidrIp: '0.0.0.0/0'
        - IpProtocol: tcp
          FromPort: '80'
          ToPort: '80'
          CidrIp: 0.0.0.0/0
      Tags:
        - Key: Name
          Value: EC2-SG
  MyEc2Instance:
    Type: 'AWS::EC2::Instance'
    Properties:
      ImageId: !Ref ImageId
      InstanceType: !Ref InstanceType
```

```yaml
      KeyName: !Ref KeyName
      SecurityGroupIds:
        - !Ref MySecurityGroup
      SubnetId: !Ref SubnetId
      IamInstanceProfile: !Ref MyInstanceProfile
      UserData:
        Fn::Base64:
          !Sub |
            #!/bin/bash
            yum update -y
            yum install -y httpd
            sudo systemctl start httpd.service
            sudo systemctl enable httpd.service
            echo "Tank you sir Usama Shujaat for amazing use case" >
/var/www/html/index.html
      Tags:
        - Key: Name
          Value: My-web

  MyInstanceProfile:
    Type: AWS::IAM::InstanceProfile
    Properties:
      InstanceProfileName: ec2-instance-profile-for-web
      Path: /
      Roles:
        - !Ref MyEc2InstanceRole
  MyEc2InstanceRole:
    Type: AWS::IAM::Role
    Properties:
      RoleName: ec2-instance-role
      AssumeRolePolicyDocument:
        Version: 2012-10-17
        Statement:
          -
            Effect: Allow
            Principal:
              Service:
                - ec2.amazonaws.com
            Action:
              - sts:AssumeRole
      Path: /

  InstanceS3Policy:
    Type: AWS::IAM::Policy
    Properties:
      PolicyName: DemoS3Policy
      PolicyDocument:
        Version: 2012-10-17
```

```yaml
      Statement:
        -
          Effect: Allow
          Action:
            - s3:*
          Resource:
            - arn:aws:s3:::mysobanbucket/*

  Roles:
    -
      !Ref MyEc2InstanceRole
```