AWSTemplateFormatVersion: '2010-09-09'

Description: CloudFormation Template for EC2 Instances in Public and Private Subnets

Parameters:

PublicInstanceType:

Description: Instance type for the EC2 instance in the public subnet

Type: String

Default: t2.micro

AllowedValues:

- t2.micro

- t2.small

- t2.medium

ConstraintDescription: Must be a valid EC2 instance type.

PrivateInstanceType:

Description: Instance type for the EC2 instance in the private subnet

Type: String

Default: t2.micro

AllowedValues:

- t2.micro

- t2.small

- t2.medium

ConstraintDescription: Must be a valid EC2 instance type.

ExistingVPCId: vpc-0d86c49b6feb6c51f

# Enter VPC ID here

Description: ID of the existing VPC where the instances will be launched

Type: AWS::EC2::VPC::Id

ExistingPublicSubnetId: subnet-0ca2b3e83b9c35a5a

Description: ID of the existing public subnet where the instance will be launched

Type: AWS::EC2::Subnet::Id

ExistingPrivateSubnetId: subnet-0296cb306f517193d

Description: ID of the existing private subnet where the instance will be launched

Type: AWS::EC2::Subnet::Id

Resources:

PublicSecurityGroup:

Type: 'AWS::EC2::SecurityGroup'

Properties:

GroupDescription: Enable SSH access for public instance

VpcId: !Ref ExistingVPCId

SecurityGroupIngress:

- IpProtocol: tcp

FromPort: '22'

ToPort: '22'

CidrIp: 0.0.0.0/0

PrivateSecurityGroup:

Type: 'AWS::EC2::SecurityGroup'

Properties:

GroupDescription: Allow all traffic from within the VPC

VpcId: !Ref ExistingVPCId

SecurityGroupIngress:

- IpProtocol: -1

FromPort: '0'

ToPort: '65535'

CidrIp: 10.0.0.0/16

PublicEC2Instance:

Type: 'AWS::EC2::Instance'

Properties:

InstanceType: !Ref PublicInstanceType

SecurityGroupIds:

- !GetAtt PublicSecurityGroup.GroupId

SubnetId: !Ref ExistingPublicSubnetId

ImageId: 'ami-007020fd9c84e18c7' # Insert your desired AMI ID here

PrivateEC2Instance:

Type: 'AWS::EC2::Instance'

Properties:

InstanceType: !Ref PrivateInstanceType

SecurityGroupIds:

- !GetAtt PrivateSecurityGroup.GroupId

SubnetId: !Ref ExistingPrivateSubnetId

ImageId: 'ami-007020fd9c84e18c7# Insert your desired AMI ID here