Create vpc

Create subnet



Create internet getway

```
internetGetway.tf X Y subnet.tf
  🚩 internetGetway.tf > ધ resource "aws_internet_gateway" "main"
          resource "aws internet gateway" "main" {
             vpc id = aws vpc.main.id
             tags = {
    4
               Name = "Main"
     7
                 Internet gateway ID
                                                VPC ID
✓
                                                vpc-075c19817a404937e | ...
                                                                    799041040511
    Main
                 igw-0e42d86c0da10718e
                                     ⊘ Attached
```

Create route table



Associate the subnet with the route table

Create security group

```
resource "aws_security_group" "main" {
 name = "allow web traffic"
 description = "Allow web traffic"
 vpc id = aws vpc.main.id
 ingress {
   description = "HTTP"
   from_port = 80
to_port = 80
   protocol = "tcp"
   cidr blocks = ["0.0.0.0/0"]
 ingress {
   description = "HTTPS"
   from_port = 443
to_port = 443
   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 = "Main"
```

Name	▼ Security gro	up ▼ Security group name	∇	VPC ID	\triangledown	Description	\triangledown	Owner	∇	Inbound rule ▽
-	sg-0a2d8c99	024 default		vpc-075c19817a40)	default VPC see		79904104051	1	1 Permission entry
Main	sa-00732917	715e allow web traffic		vpc-075c19817a40)	Allow web traff	ic	79904104051	1	2 Permission ent

Create key pair

```
ec2.tf > 😉 resource "aws_instance" "main" > [ ] security_groups > 🖃 0
      resource "aws instance" "main" {
                                   = "ami-06878d265978313ca"
         ami
                                   = "t2.micro"
         instance type
                                   = "myKey"
         key name
                               = aws subnet.main.id
         subnet id
         security groups = [aws security group.main.id]
6
         user data = <<-E0F
                           #!/bin/bash
                           sudo apt update -y
                           sudo apt install apache2 -y
                           sudo systemctl start apache2
                           sudo bash -c 'hello > /var/www/html/index.html'
                           E0F
5
         tags = {
           Name = "main"
.6
 ✓
                  i-0de6b795bc634a3b1
                                   Ø 2/2 checks passed No alarms +
     main
                                                 t2.micro
                                                                                       us-east-1e
 Instance: i-0de6b795bc634a3b1 (main)
 Details Security Networking Storage Status checks Monitoring Tags
 ▼ Instance summary Info
                                                 Public IPv4 address
 ☐ i-0de6b795bc634a3b1 (main)
                                                 ☐ 54.90.2.218 | open address 🗹
                                                                                                ø
                                                                                                Pub
                                                Running
                                                 Private IP DNS name (IPv4 only)
 IP name: ip-10-0-0-11.ec2.internal
                                                 □ ip-10-0-0-11.ec2.internal
 Answer private resource DNS name
                                                 Instance type
                                                                                                Elas
                                                t2.micro
 Auto-assigned IP address
                                                                                                AW5
                                                 🗖 vpc-075c19817a404937e (main) 🗹

☐ 54.90.2.218 [Public IP]

                                                                                                (i) (
 IAM Role
```