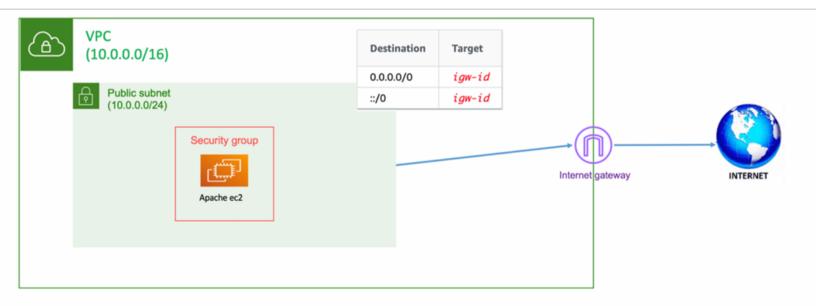
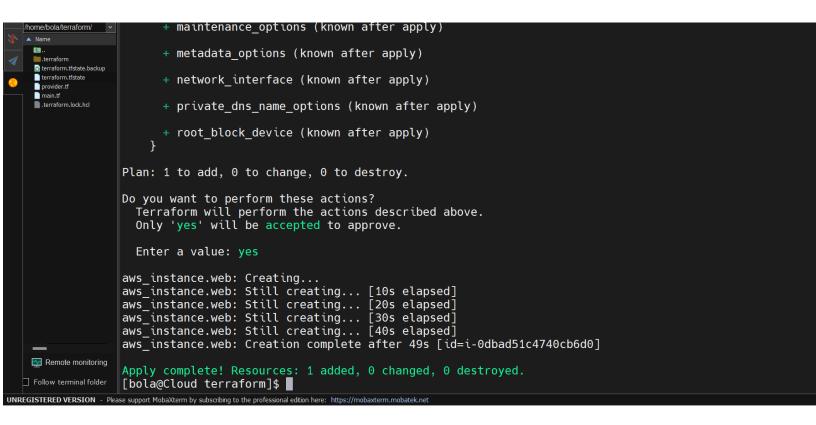
Name: Bola Wissa

Task 1

Eng: Aya Nabil





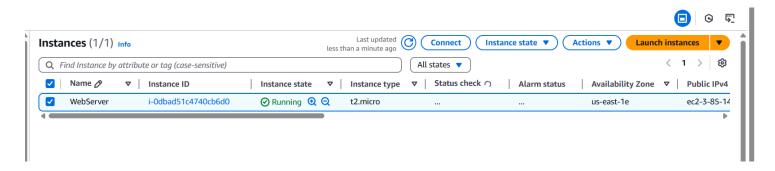
```
🍟 task.tf > ...
     # Create VPC
 2
     resource "aws_vpc" "main" {
 3
      cidr_block = "10.0.0.0/16"
 5
      enable_dns_support = true
      enable_dns_hostnames = true
 6
 8
      tags = {
        Name = "Terraform-VPC"
 9
     }
10
11
12
13
     # Create Public Subnet
     resource "aws_subnet" "public" {
14
15
                            = aws_vpc.main.id
      vpc_id = aws_vpc.main.:
cidr_block = "10.0.0.0/24"
16
       map_public_ip_on_launch = true
17
18
19
      tags = {
        Name = "Public-Subnet"
20
      }
21
22
23
24
     # Create Internet Gateway
      resource "aws_internet_gateway" "gw" {
25
      vpc_id = aws_vpc.main.id
26
27
28
       tags = {
29
        Name = "Internet-Gateway"
30
 task.tf > ...
  31
  33
       # Create Route Table
       resource "aws_route_table" "public" {
  34
        vpc_id = aws_vpc.main.id
  35
  36
  37
         route {
  38
         cidr_block = "0.0.0.0/0"
          gateway_id = aws_internet_gateway.gw.id
  39
  40
  41
  42
         route {
         ipv6 cidr block = "::/0"
  43
          gateway_id = aws_internet_gateway.gw.id
  44
  45
  46
  47
         tags = {
          Name = "Public-Route-Table"
  48
  49
  50
  51
       # Associate Route Table with Public Subnet
  52
  53
       resource "aws_route_table_association" "public" {
        subnet_id = aws_subnet.public.id
  54
        route_table_id = aws_route_table.public.id
  55
  56
  57
  58
       # Create Security Group
       resource "aws_security_group" "web_sg" {
  59
```

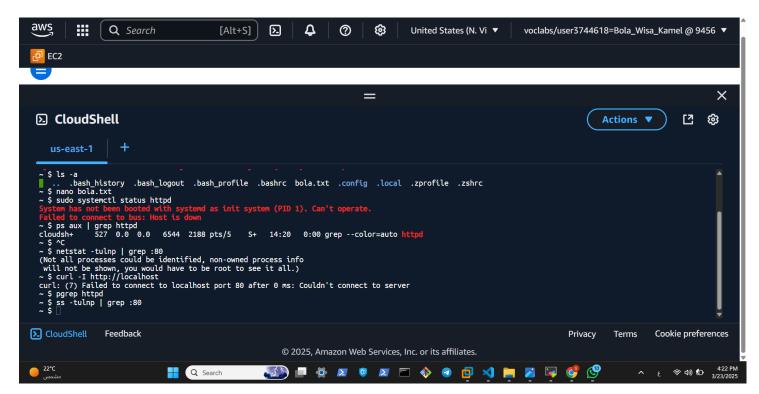
```
58
    # Create Security Group
     resource "aws_security_group" "web_sg" {
59
60
      vpc_id = aws_vpc.main.id
61
62
      ingress {
63
        from_port = 80
        to_port = 80
protocol = "tcp"
64
65
        cidr_blocks = ["0.0.0.0/0"]
66
67
68
69
      ingress {
70
       from_port = 443
        to_port = 443
protocol = "tcp"
71
72
73
        cidr_blocks = ["0.0.0.0/0"]
74
75
76
      ingress {
77
        from_port = 22
        to_port = 22
protocol = "tcp"
78
79
80
        cidr_blocks = ["0.0.0.0/0"]
81
82
83
      egress {
        from_port
85
        to_port
                   = 0
                                                                                                        Q Search
```

```
🍞 task.tf > .
59
      resource "aws_security_group" "web_sg" {
83
        egress {
84
          from_port = 0
         to_port = 0
protocol = "-1"
85
86
         cidr_blocks = ["0.0.0.0/0"]
87
88
89
90
       tags = {
         Name = "Web-SG"
91
92
93
94
95
      # Create EC2 Instance with Apache Web Server
96
      resource "aws_instance" "web" {
97
                    = "ami-01f5a0b78d6089704"
       instance_type = "t2.micro"
98
99
       subnet_id
                    = aws_subnet.public.id
100
101
       vpc_security_group_ids = [aws_security_group.web_sg.id]
102
103
        user_data = <<-EOF
104
                   #!/bin/bash
105
                   sudo yum update -y
106
                   sudo yum install -y httpd
107
                   \verb+sudo+ systemctl start+ \verb+httpd+ \\
108
                   sudo systemctl enable httpd
                   echo "Welcome Bola 2025 TerraForm" | sudo tee /var/www/html/index.html
109
110
                   EOF
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                                                                    📵 刘 📜 🛭 🙀 🔮
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3/23/2025
      Q Search
```

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Welcome Bola 2025 TerraForm





▼ Inbound rules

Q Filter rules				
Name	Security group rule ID	Port range	Protocol	Source
-	sgr-0d573f78c70a9025f	22	TCP	0.0.0.0/0
-	sgr-0dc98b5fb2826e36e	443	TCP	0.0.0.0/0
-	sgr-0bd67c12130687c52	80	TCP	0.0.0.0/0
4				