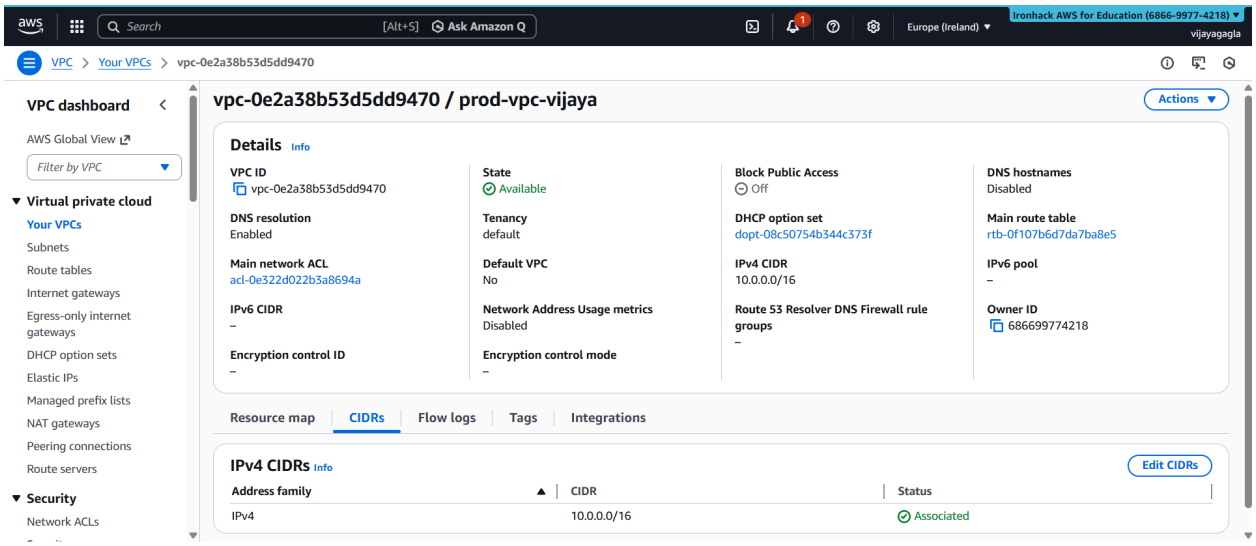
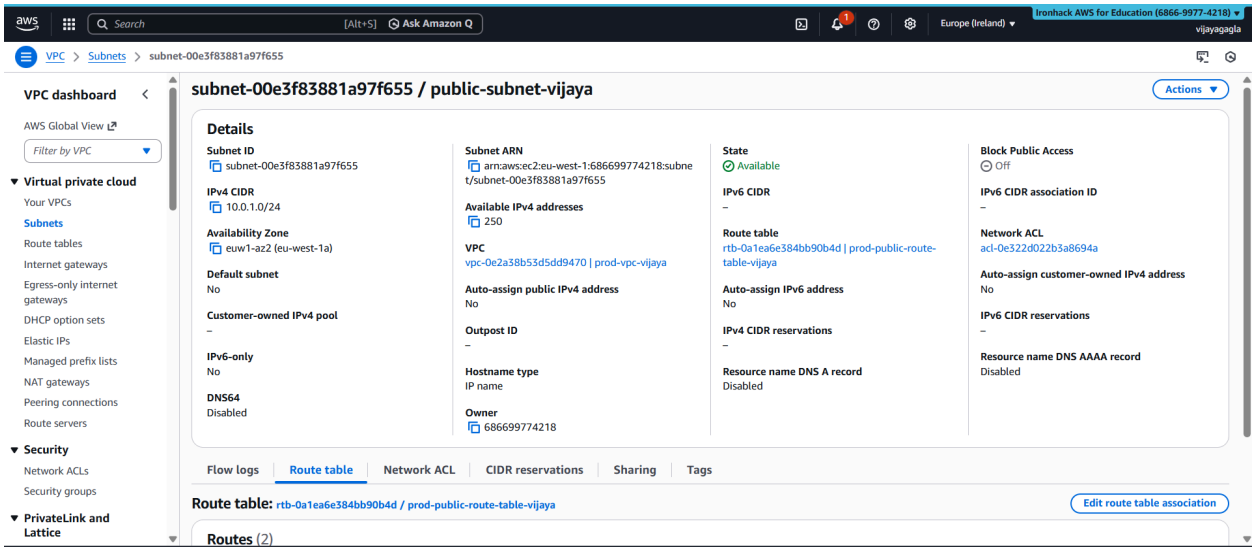
LAB | AWS Networking & Virtual Private Cloud

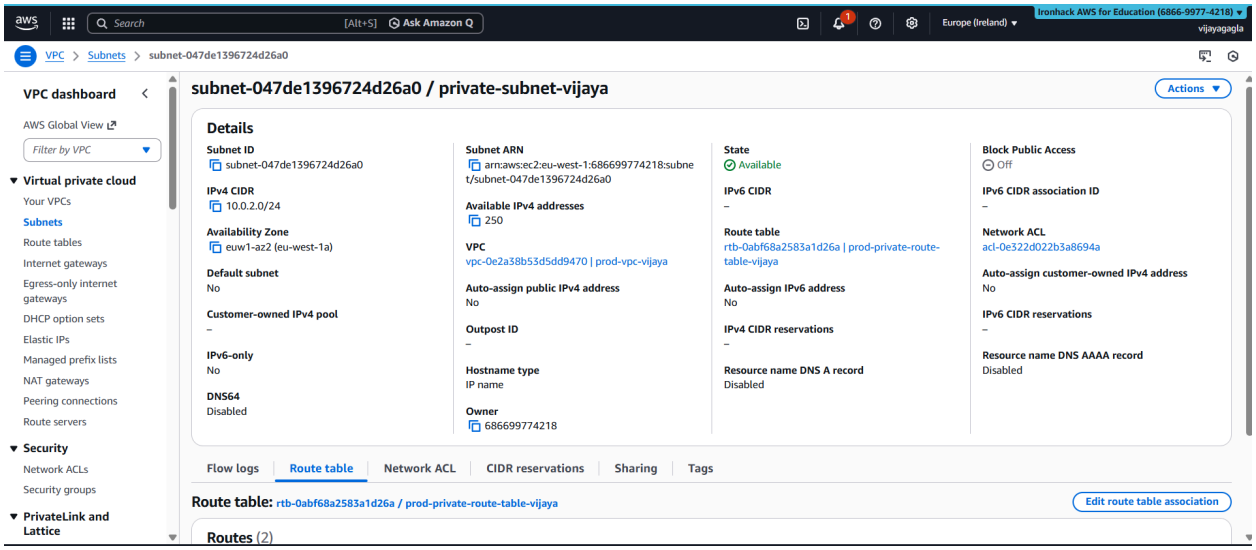
VPC :



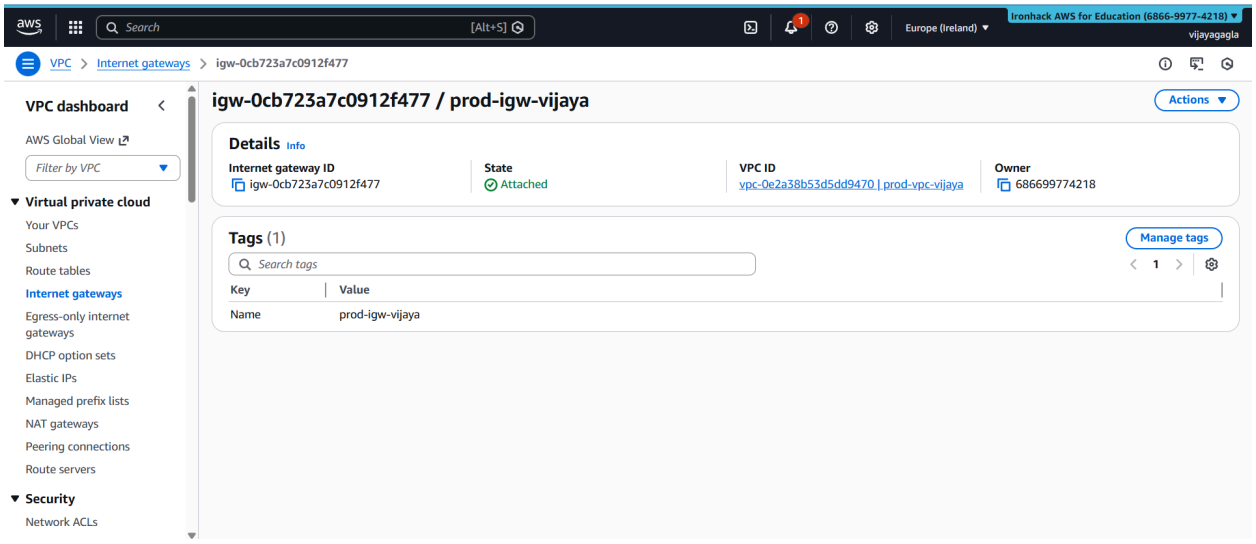
Public Subnet:



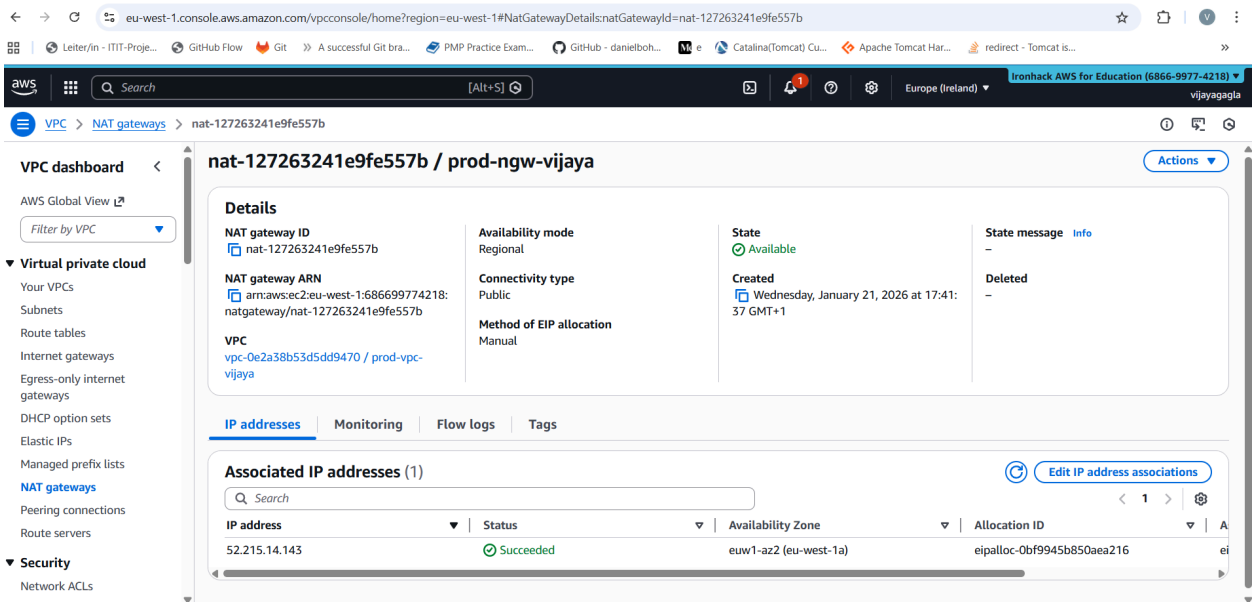
Private Subnet:



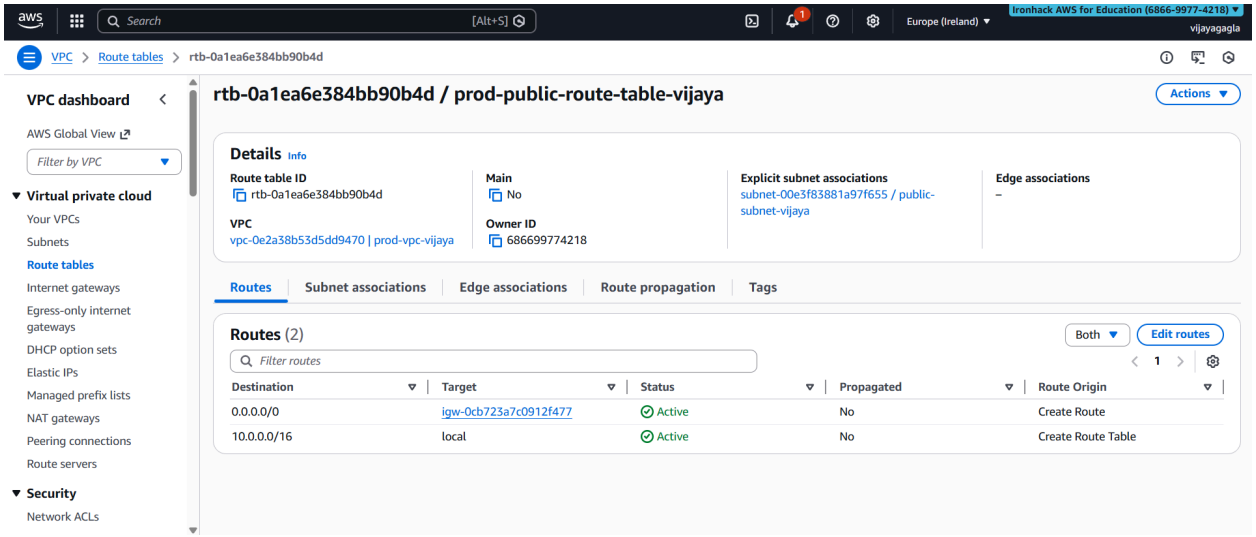
Internet Gateway:



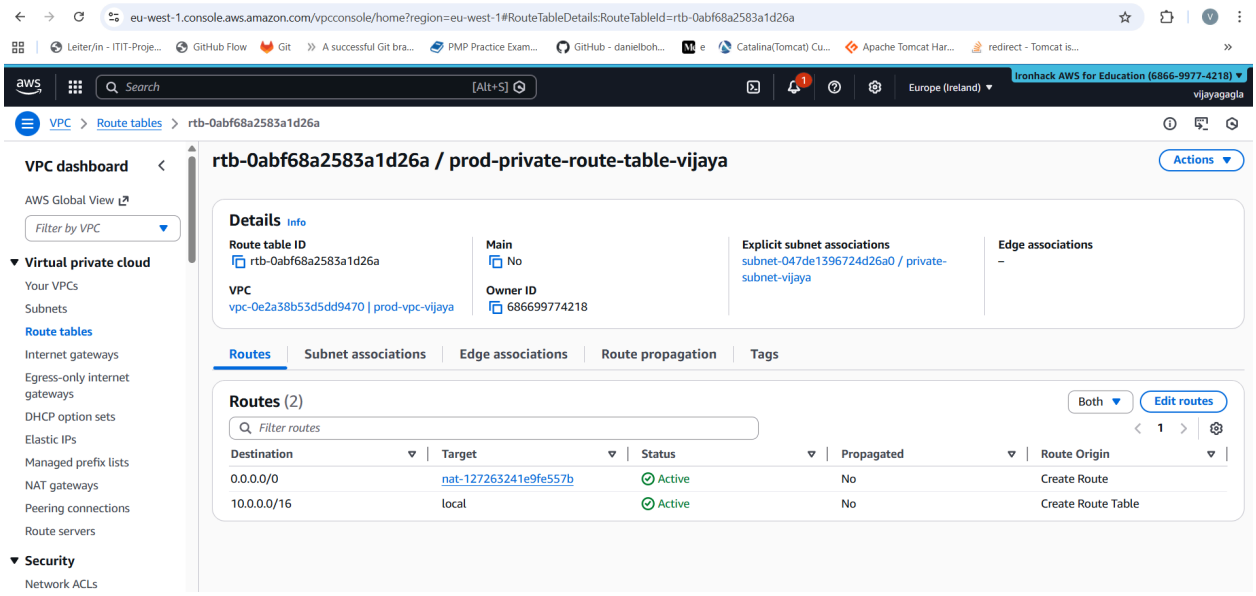
NAT Gateway:



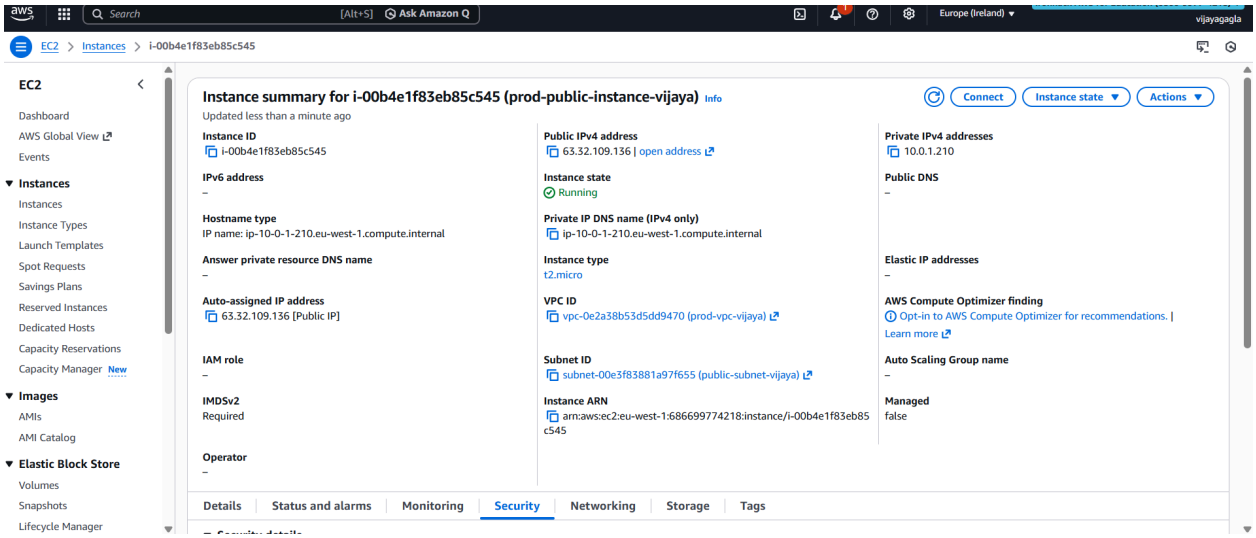
Public Route Table :

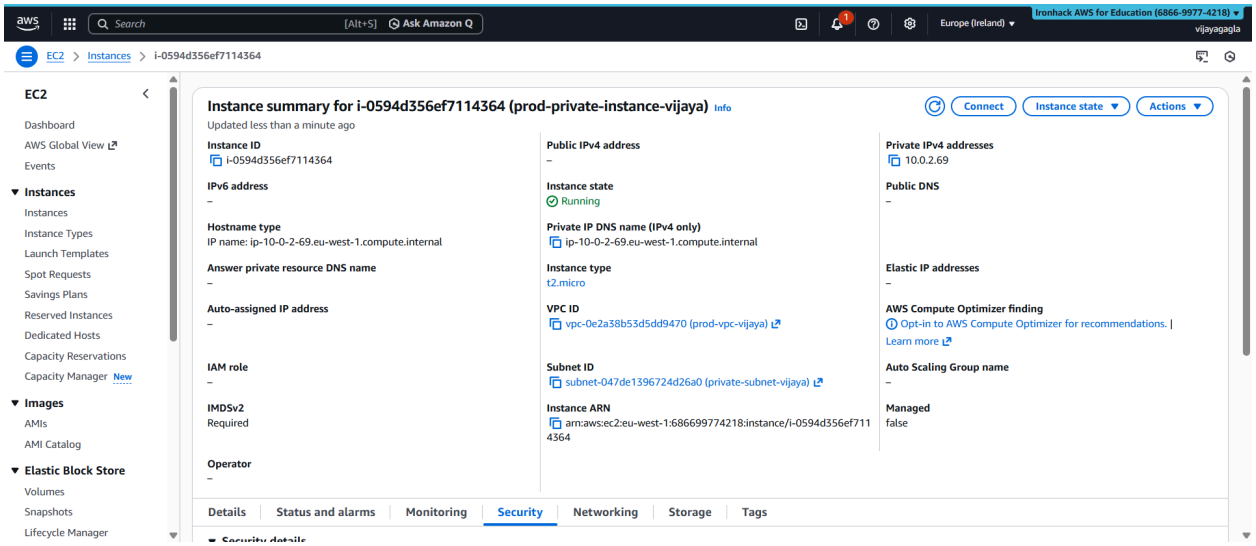


Private Route Table:


eu-west-1.console.aws.amazon.com/vpcconsole/home?region=eu-west-1#RouteTableDetails:RouteTableId=rtb-0abf68a2583a1d26a
Search
[Alt+S]
Europe (Ireland)
Ironhack AWS for Education (6866-9977-4218)
vijayagagla
VPC > Route tables > rtb-0abf68a2583a1d26a
VPC dashboard
AWS Global View
Filter by VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Route servers
Security
Network ACLs
rtb-0abf68a2583a1d26a / prod-private-route-table-vijaya
Actions
Details Info
Route table ID
rtb-0abf68a2583a1d26a
Main
No
Explicit subnet associations
subnet-047de1396724d26a0 / private-subnet-vijaya
Edge associations
–
VPC
vpc-0e2a38b53d5dd9470 | prod-vpc-vijaya
Owner ID
686699774218
Routes
Subnet associations
Edge associations
Route propagation
Tags
Routes (2)
Both
Edit routes
Filter routes
Destination
Target
Status
Propagated
Route Origin
0.0.0.0/0
nat-127263241e9fe557b
Active
No
Create Route
10.0.0.0/16
local
Active
No
Create Route Table

Instances :


Search
[Alt+S]
Ask Amazon Q
Europe (Ireland)
vijayagagla
EC2 > Instances > i-00b4e1f83eb85c545
EC2
Dashboard
AWS Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Capacity Manager New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Instance summary for i-00b4e1f83eb85c545 (prod-public-instance-vijaya) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-00b4e1f83eb85c545
Public IPv4 address
63.32.109.136 | open address
Private IPv4 addresses
10.0.1.210
IPv6 address
–
Instance state
Running
Public DNS
–
Hostname type
IP name: ip-10-0-1-210.eu-west-1.compute.internal
Private IP DNS name (IPv4 only)
ip-10-0-1-210.eu-west-1.compute.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
63.32.109.136 [Public IP]
VPC ID
vpc-0e2a38b53d5dd9470 (prod-vpc-vijaya)
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations.
Learn more
IAM role
–
Subnet ID
subnet-00e3f83881a97f655 (public-subnet-vijaya)
Auto Scaling Group name
–
IMDSv2
Required
Instance ARN
arn:aws:ec2:eu-west-1:686699774218:instance/i-00b4e1f83eb85c545
Managed
false
Operator
–
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags



Connection Verification

```
vijayagagla@DESKTOP-FP4OP26:~$ ssh-add ~/.ssh/prod-private-instance-key-vijaya.pem
Identity added: /home/vijayagagla/.ssh/prod-private-instance-key-vijaya.pem (/home/vijayagagla/.ssh/prod-private-instance-
vijayagagla@DESKTOP-FP4OP26:~$ ssh -A -i prod-public-instance-key-vijaya.pem  ec2-user@63.32.109.136

A newer release of "Amazon Linux" is available.
  Version 2023.10.20260120:
  Version 2023.10.20260120:
Run "/usr/bin/dnf check-release-update" for full release and version update info
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Sat Jan 24 19:01:44 2026 from 149.224.176.208
[ec2-user@ip-10-0-1-210 ~]$
```

```
[ec2-user@ip-10-0-1-210 ~]$ ssh ec2-user@10.0.2.69
The authenticity of host '10.0.2.69 (10.0.2.69)' can't be established.
ED25519 key fingerprint is SHA256:Z1ldS5LLIsLSxkZWTksndk8Uzvnnkhr88h6F8uw5P8w.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.2.69' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-10-0-2-69 ~]$
```