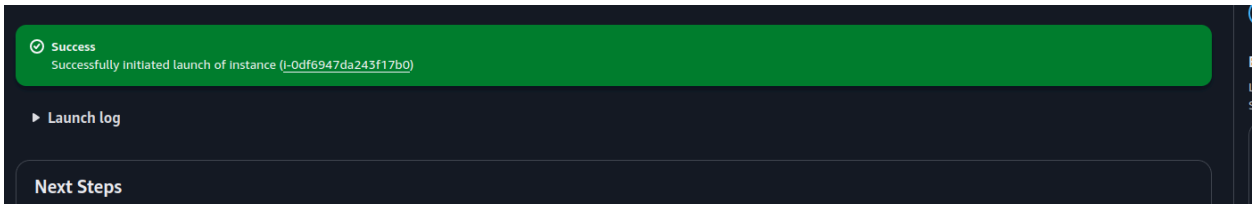
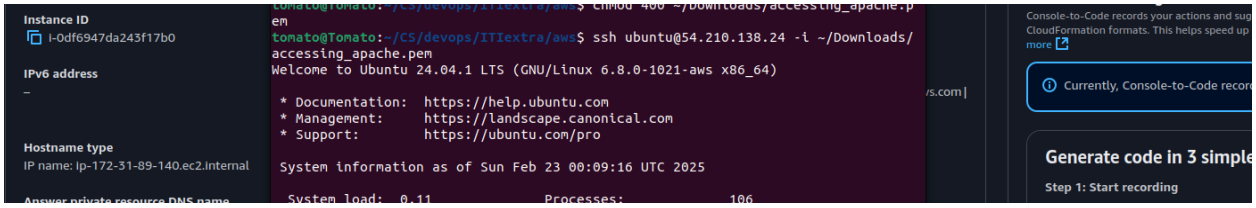
Q1:

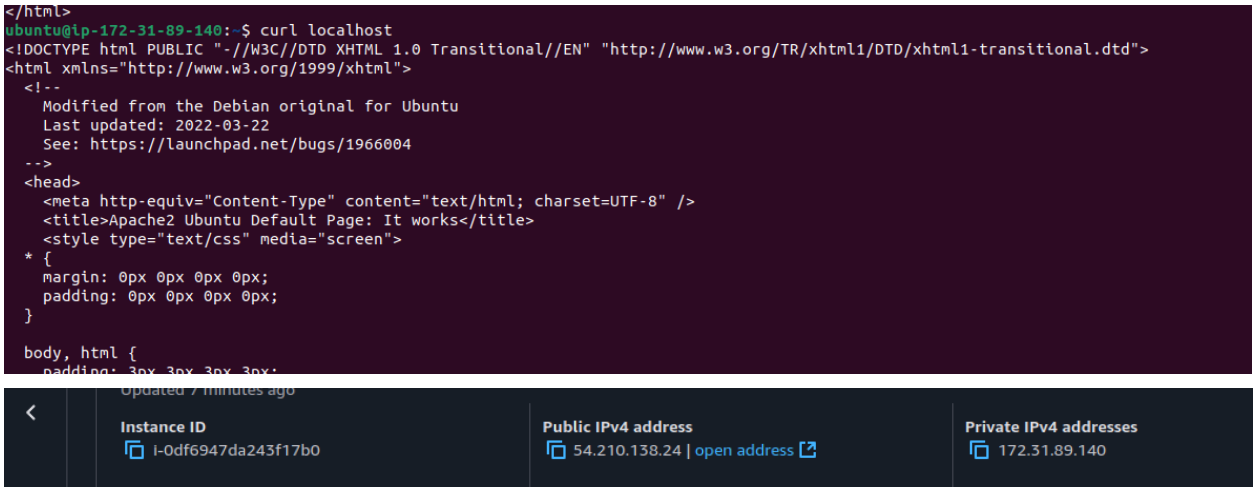
First creating the ec2 instance with assigning it a public ip address



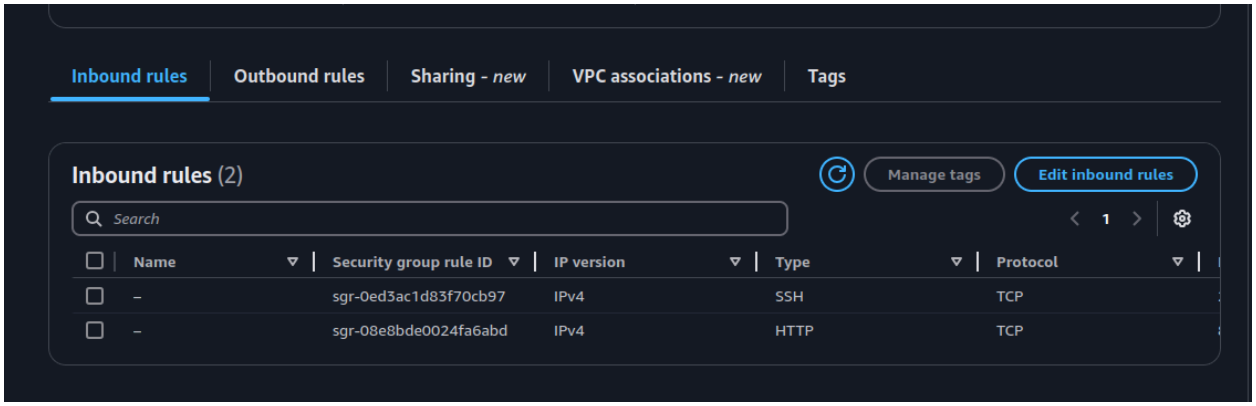
Ssh into the running instance



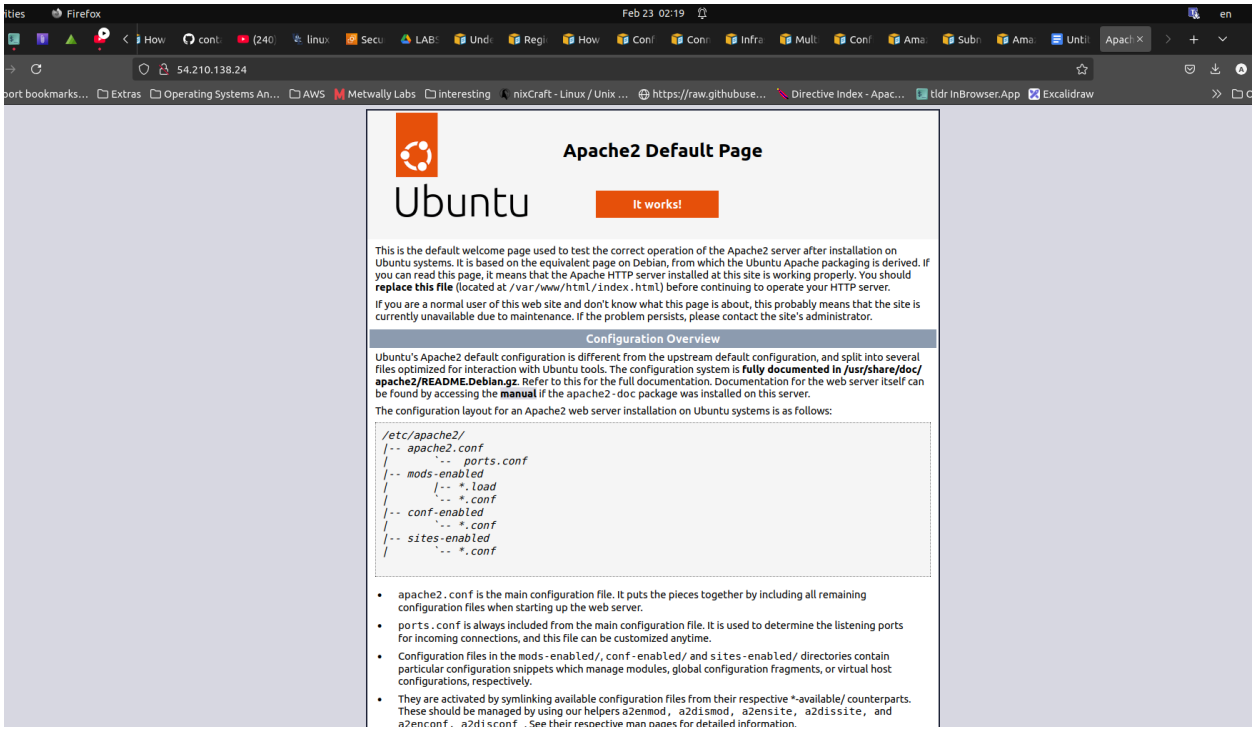
Curl inside the instance to cehck that apache2 is running

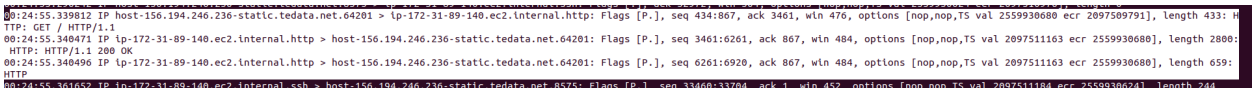


Allowing inbound http and ssh requests

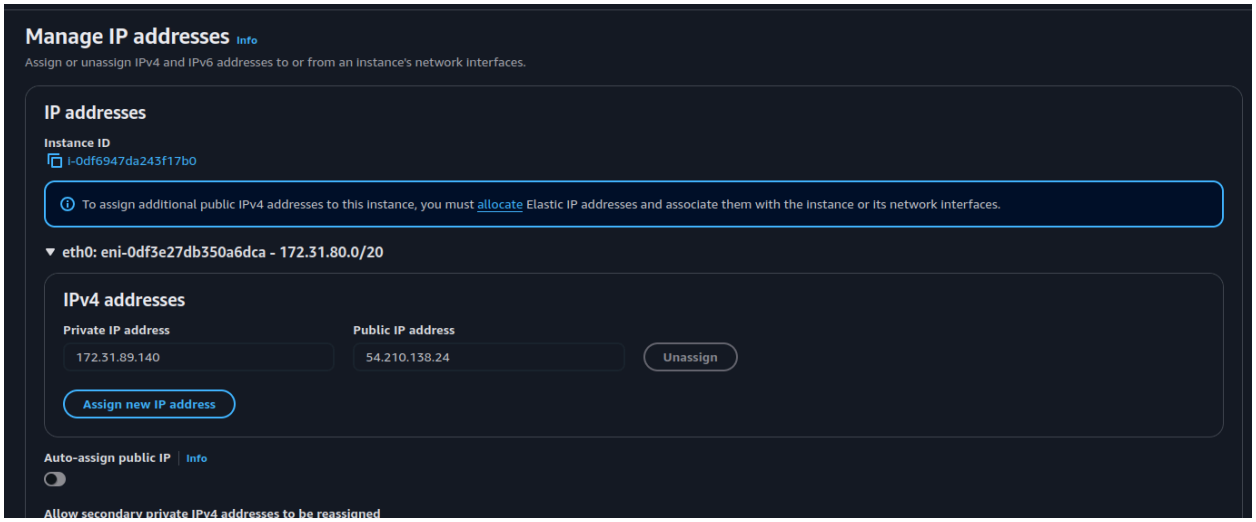


,

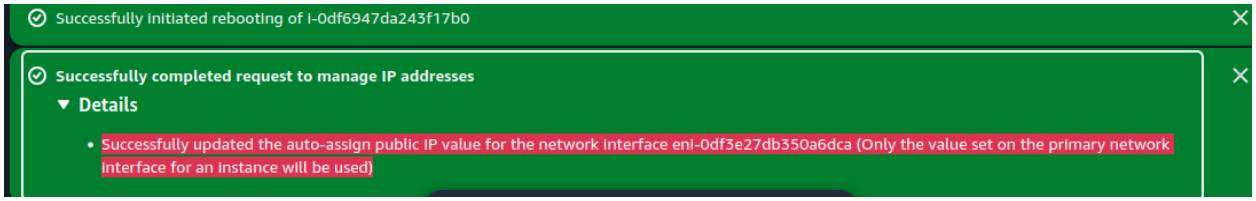


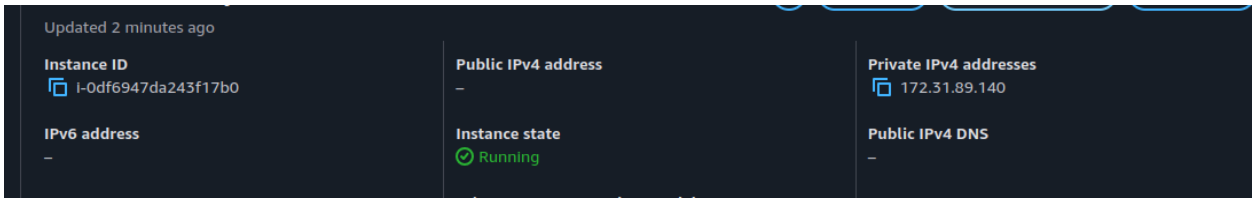


Q2: create a private ec2 instance

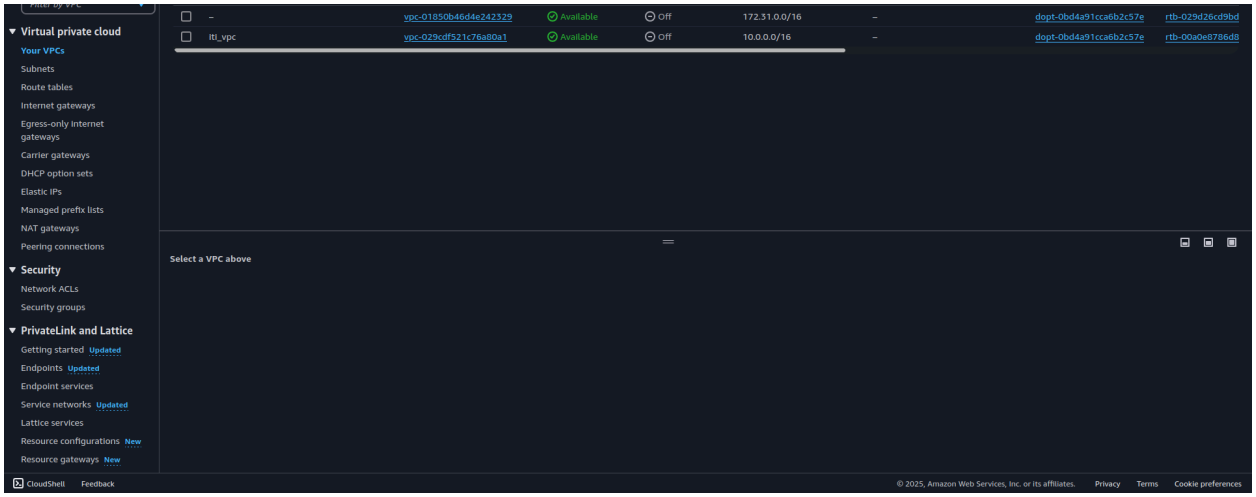


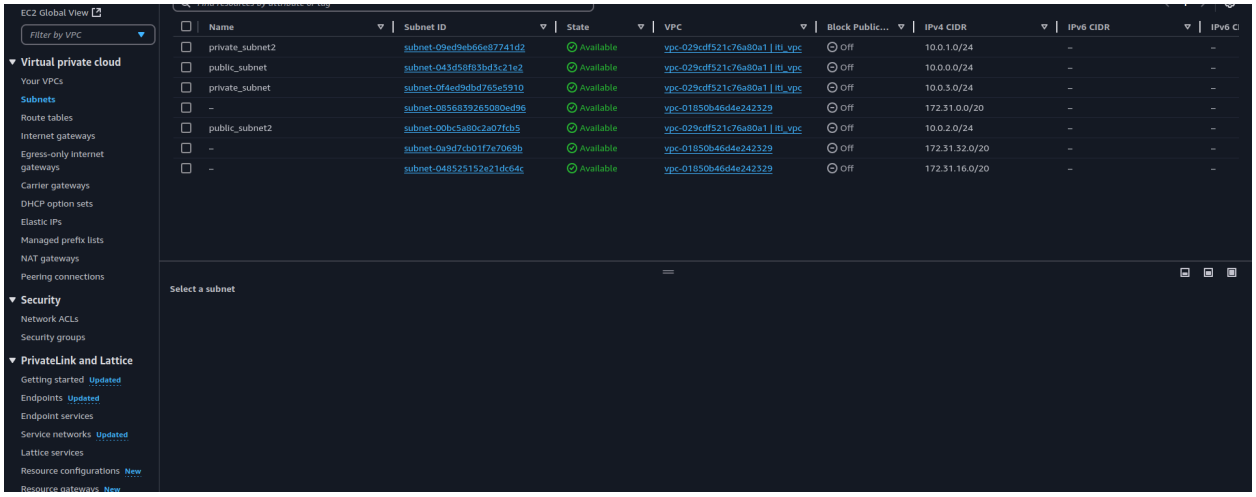
You can stop the auto assigning of a public ip address to disable public accessing
Reboot and check the changed network interface card

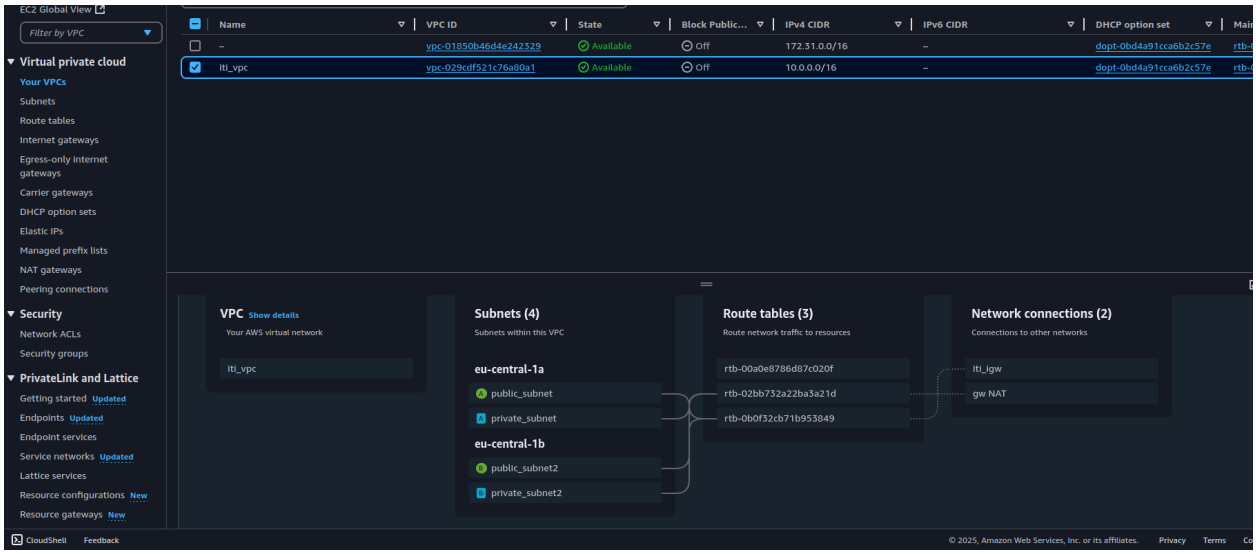




Q3: creating a custom VPC with 2 public subnets 2 private subnets




EC2 Global View
Filter by VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
Carrier gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Security
Network ACLs
Security groups
PrivateLink and Lattice
Getting started Updated
Endpoints Updated
Endpoint services
Service networks Updated
Lattice services
Resource configurations New
Resource gateways New
Name
Subnet ID
State
VPC
Block Public...
IPv4 CIDR
IPv6 CIDR
private_subnet2 subnet-09ed9eb66e87741d2 Available vpc-029cdf521c76a80a1 | iti_vpc Off 10.0.1.0/24
public_subnet subnet-043d58f83bd3c21e2 Available vpc-029cdf521c76a80a1 | iti_vpc Off 10.0.0.0/24
private_subnet subnet-0f4ed9dbd765e5910 Available vpc-029cdf521c76a80a1 | iti_vpc Off 10.0.3.0/24
– subnet-0856839265080ed96 Available vpc-01850b46d4e242329 Off 172.31.0.0/20
public_subnet2 subnet-00bc5a80c2a07fcb5 Available vpc-029cdf521c76a80a1 | iti_vpc Off 10.0.2.0/24
– subnet-0a9d7cb01f7e7069b Available vpc-01850b46d4e242329 Off 172.31.32.0/20
– subnet-048525152e21dc64c Available vpc-01850b46d4e242329 Off 172.31.16.0/20
Select a subnet


EC2 Global View
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Elastic IPs
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PrivateLink and Lattice
Getting started Updated
Endpoints Updated
Endpoint services
Service networks Updated
Lattice services
Resource configurations New
Resource gateways New
Name
VPC ID
State
Block Public...
IPv4 CIDR
IPv6 CIDR
DHCP option set
– vpc-01850b46d4e242329 Available Off 172.31.0.0/16 – dopt-0bd4a91cca6b2c57e
iti_vpc vpc-029cdf521c76a80a1 Available Off 10.0.0.0/16 – dopt-0bd4a91cca6b2c57e
VPC Show details
Your AWS virtual network
iti_vpc
Subnets (4)
Subnets within this VPC
eu-central-1a
public_subnet
private_subnet
eu-central-1b
public_subnet2
private_subnet2
Route tables (3)
Route network traffic to resources
rtb-00a0e8786d87c020f
rtb-02bb732a22ba3a21d
rtb-0b0f32cb71b953849
Network connections (2)
Connections to other networks
iti_igw
gw NAT
CloudShell
Feedback
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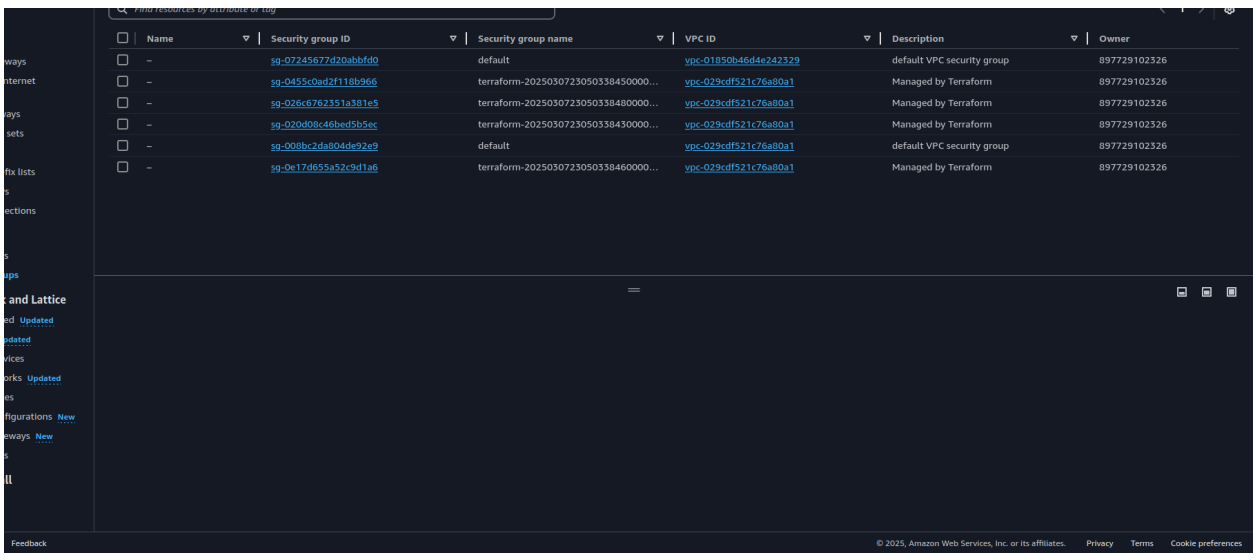
Privacy
Terms


Name
Security group ID
Security group name
VPC ID
Description
Owner
– sg-07245677d20abbfd0 default vpc-01850b46d4e242329 default VPC security group 897729102326
– sg-0455c0ad2f118b966 terraform-20250307230503384500000... vpc-029cdf521c76a80a1 Managed by Terraform 897729102326
– sg-026c6762351a381e5 terraform-20250307230503384800000... vpc-029cdf521c76a80a1 Managed by Terraform 897729102326
– sg-020d08c46bed5b5ec terraform-20250307230503384300000... vpc-029cdf521c76a80a1 Managed by Terraform 897729102326
– sg-008bc2da804de92e9 default vpc-029cdf521c76a80a1 default VPC security group 897729102326
– sg-0e17d655a52c9d1a6 terraform-20250307230503384600000... vpc-029cdf521c76a80a1 Managed by Terraform 897729102326
Feedback
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Privacy
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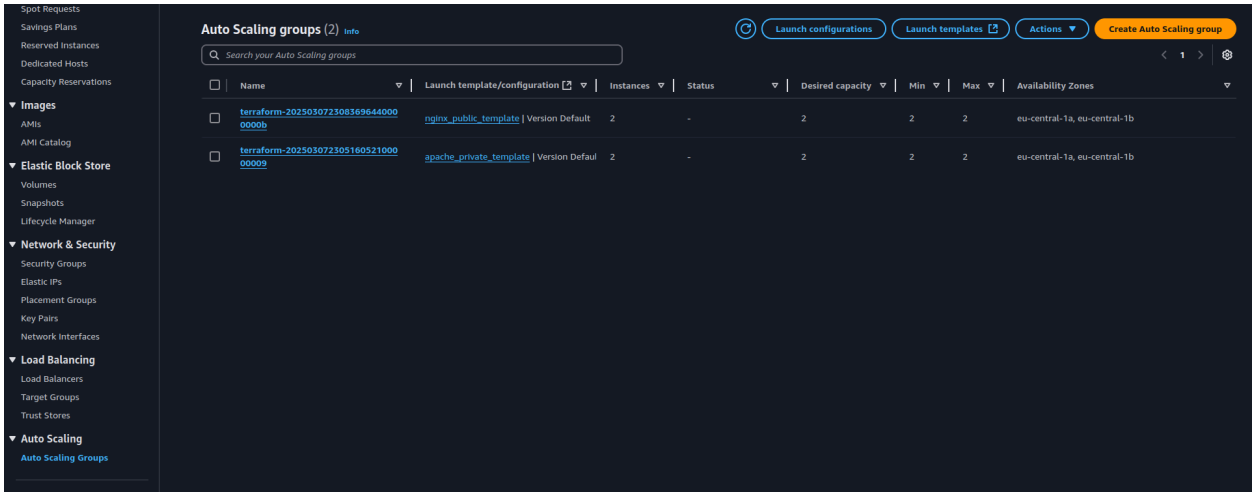

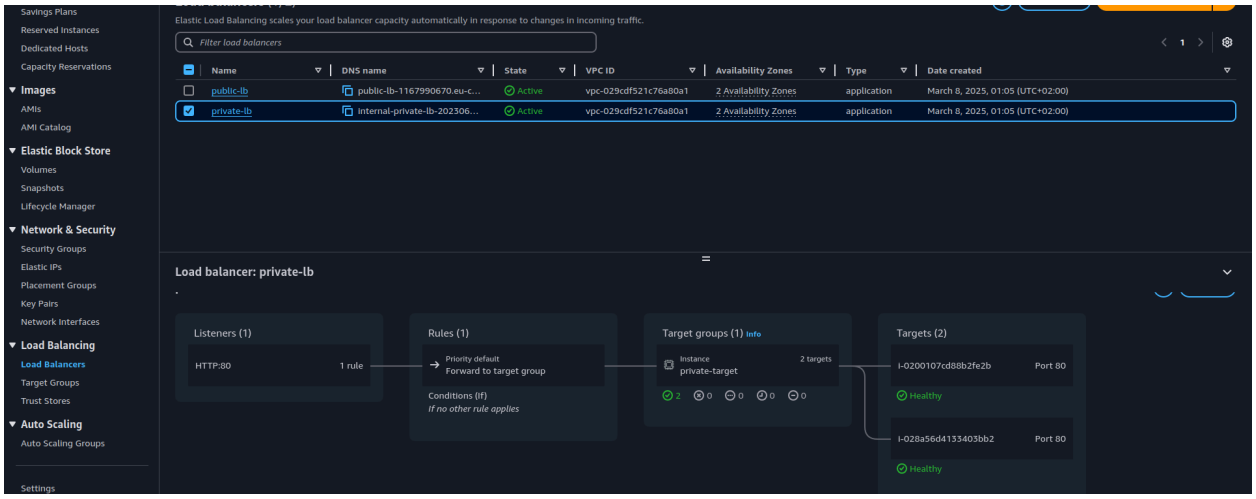

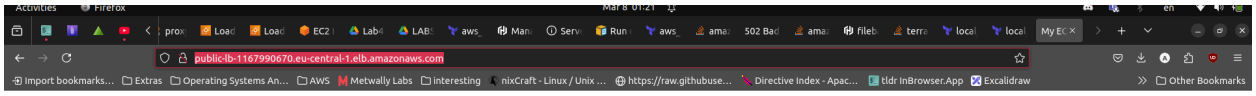

Welcome to My EC2 Instance

Instance ID: **Hello from public**

This was made using terraform with the code available on https://github.com/abdulrahmanalaa123/ITI-sessions/tree/master/AWS/Lab2