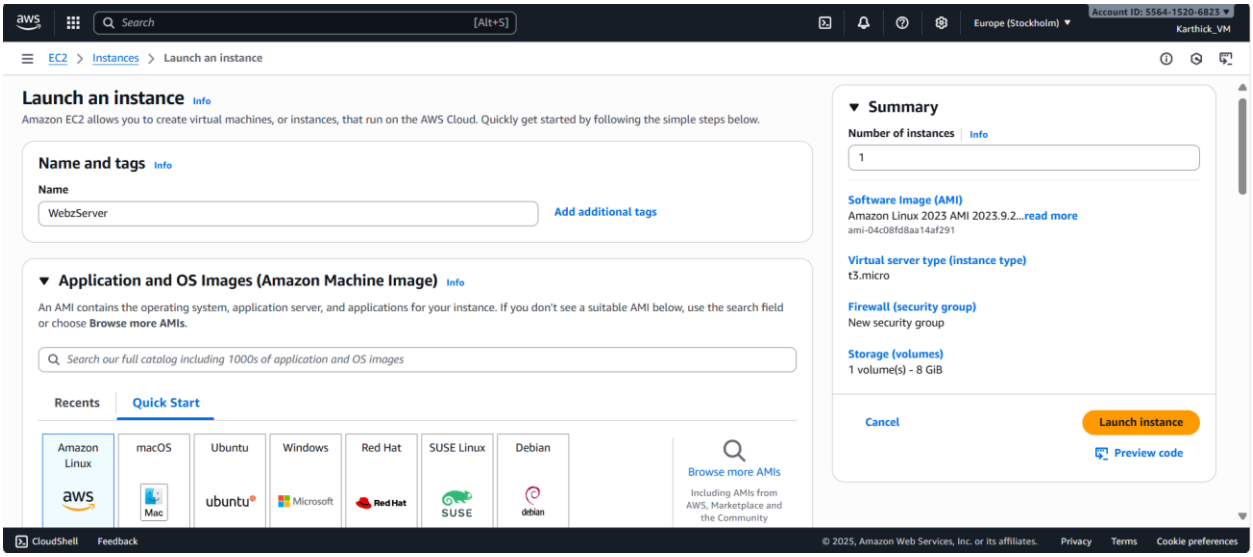
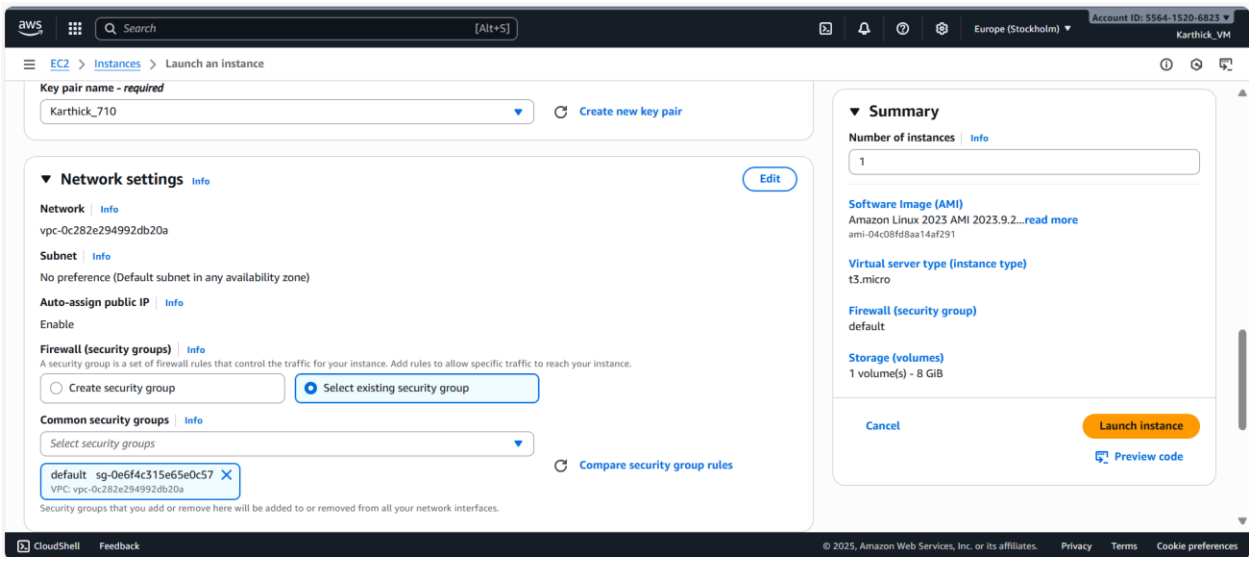
Karthick VM

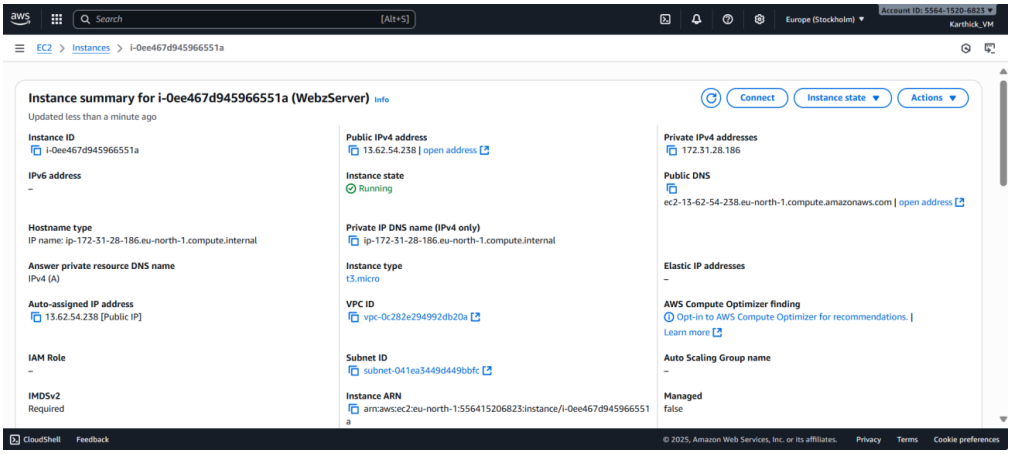
Batch – CIS 1.3

Mock Assessment 2 – AWS

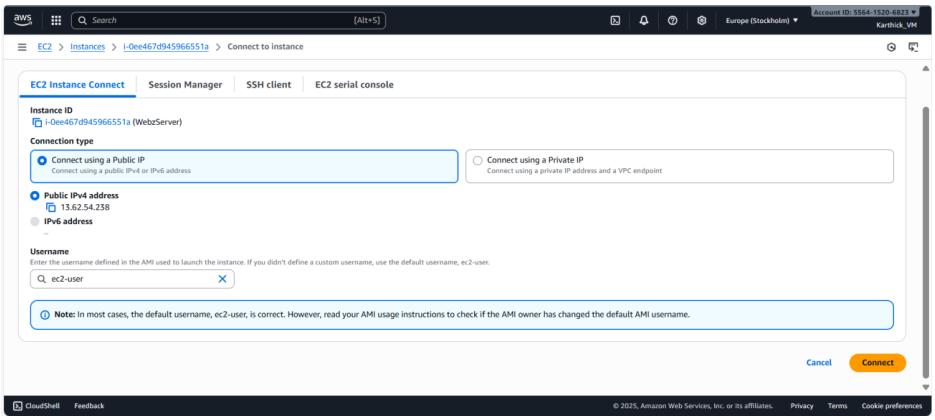
1. Deploy a Node.js static web app on an EC2 instance with Apache and access it publicly via a browser.
    - Launch a Ec2 Instance



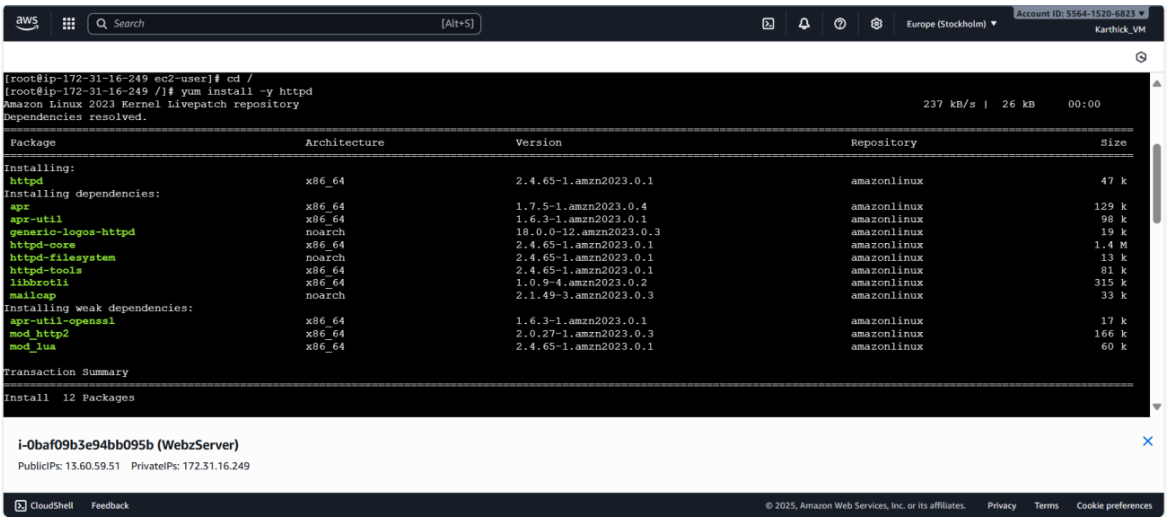




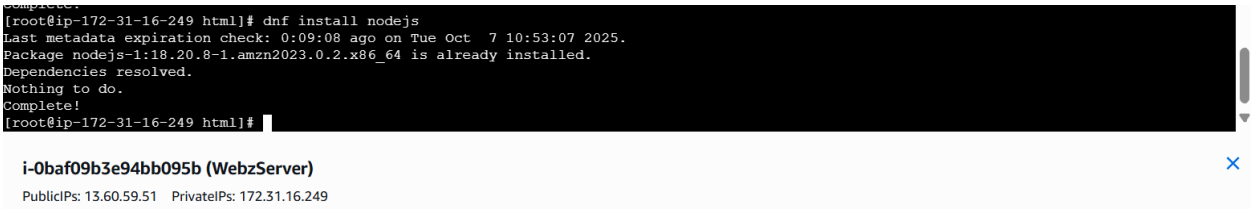
- Connect to the Ec2 Instance



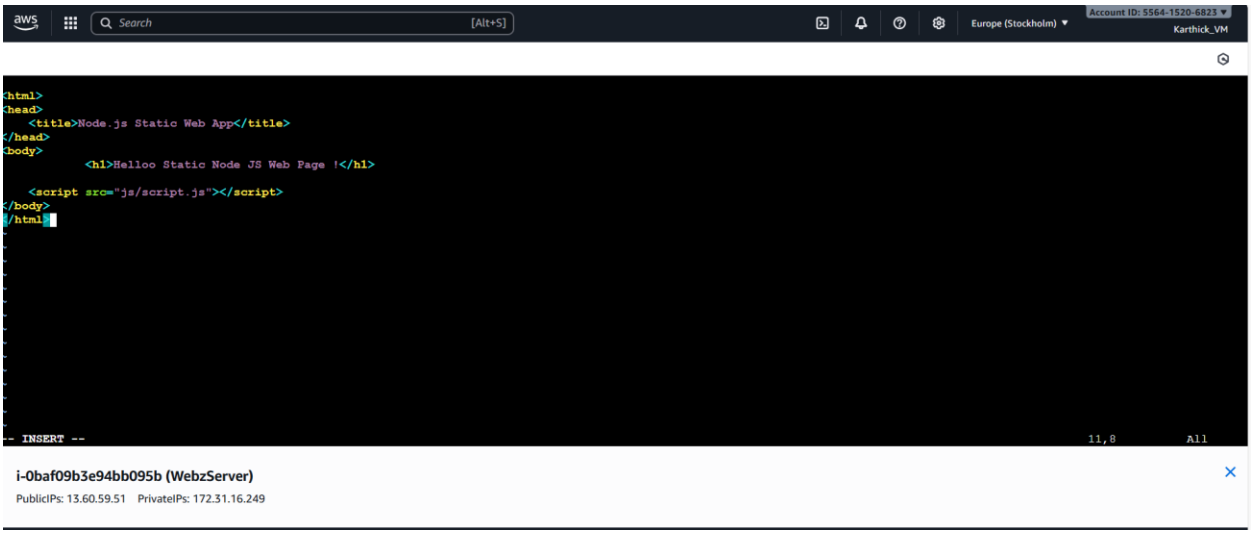
- Install and enable httpd server in the server machine



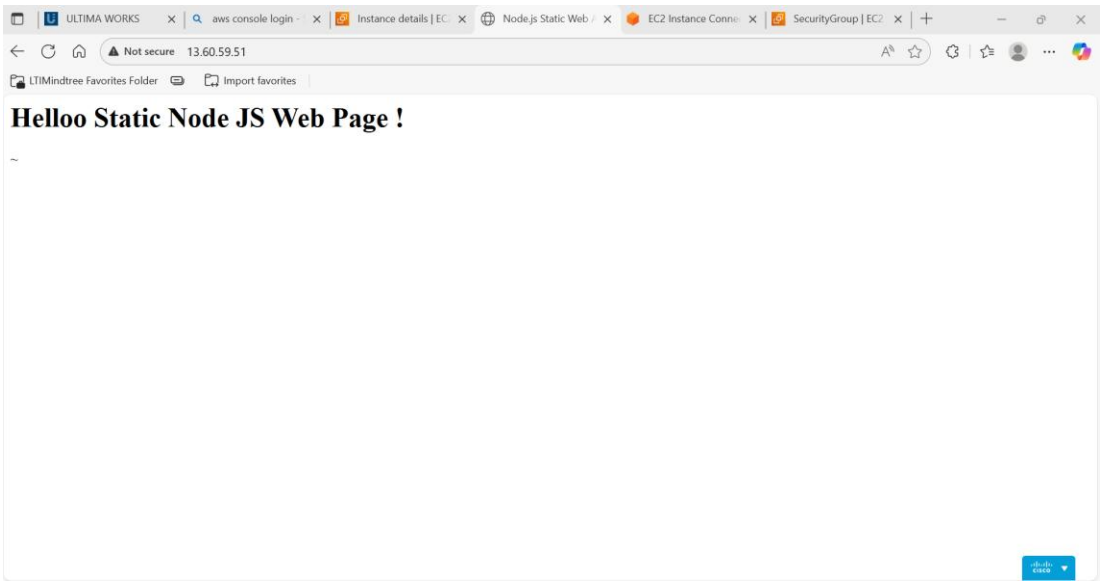
- Install npm and nodejs in the server machine



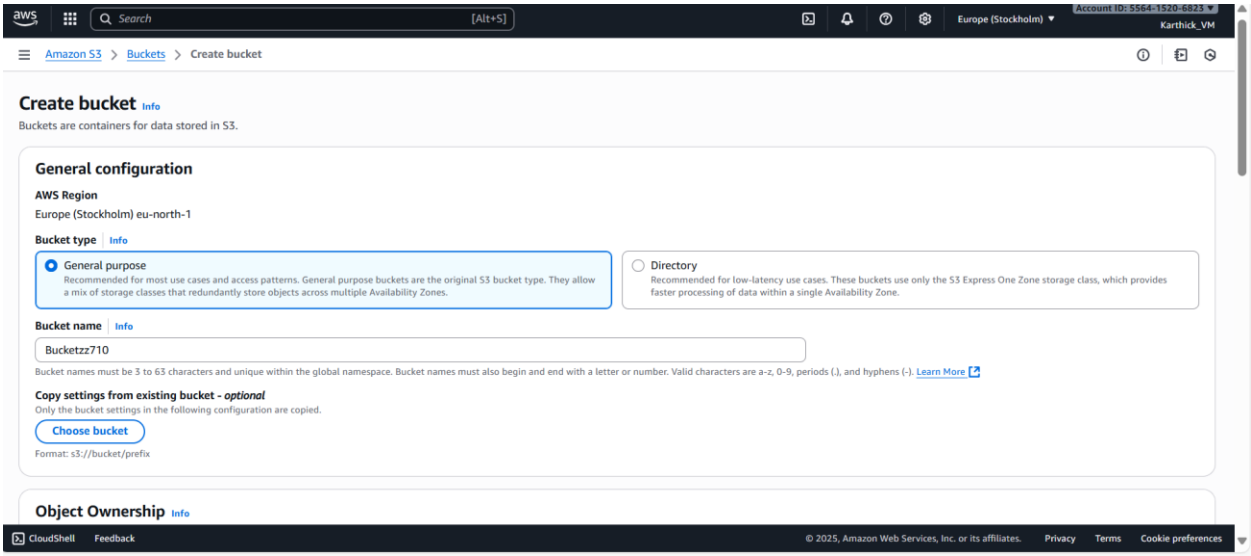
- Create a node app and create script.js and index.html files



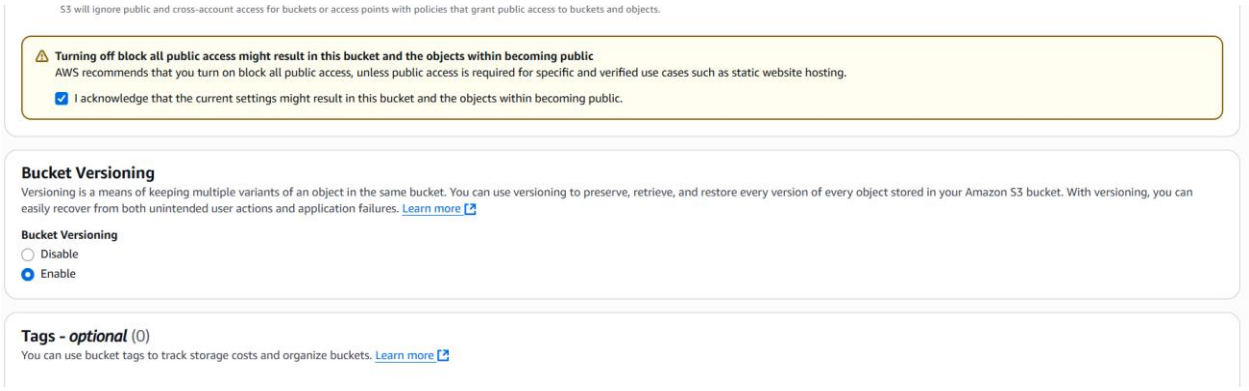
- Run the node app using the apache server.

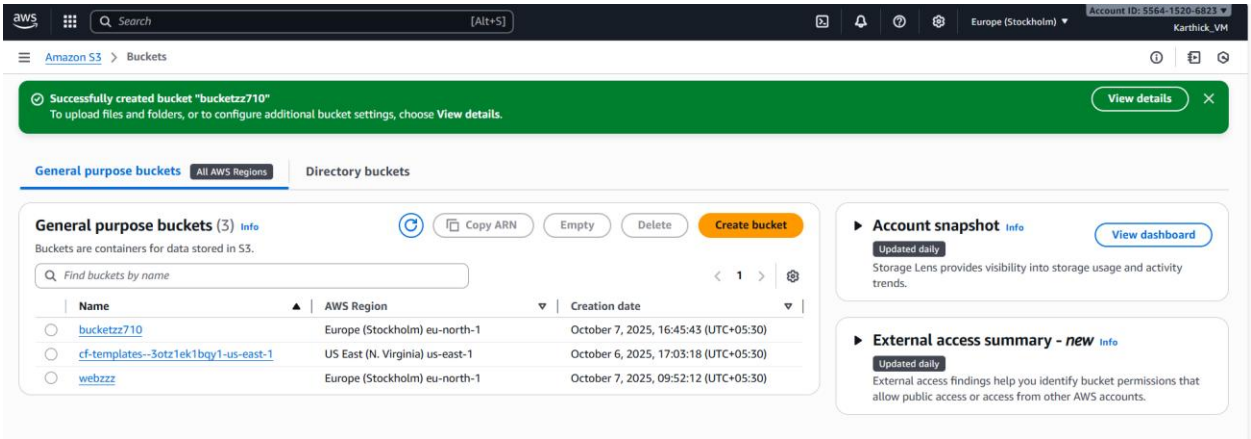


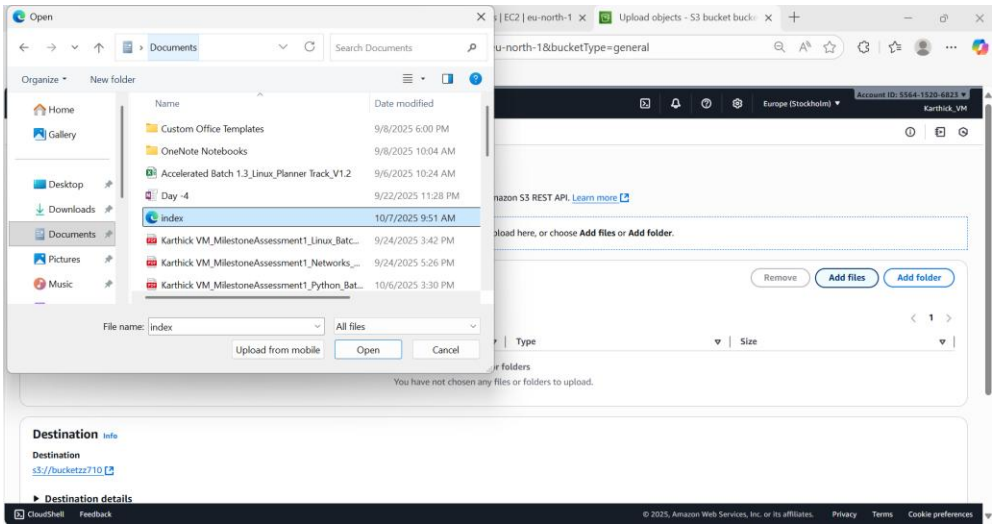
2. Create an S3 bucket, enable versioning, upload multiple file versions, and restore aprevious version.
    - Create a s3 bucket

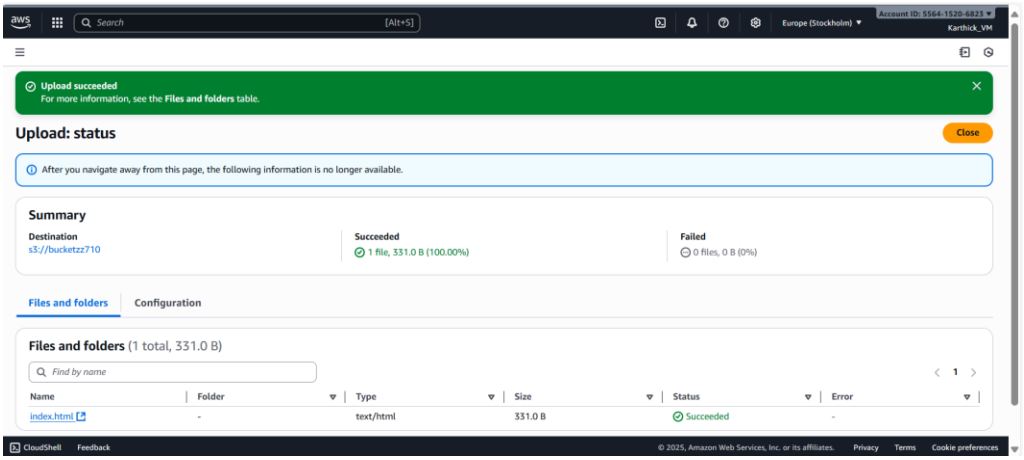


    - Enable versioning and upload a file

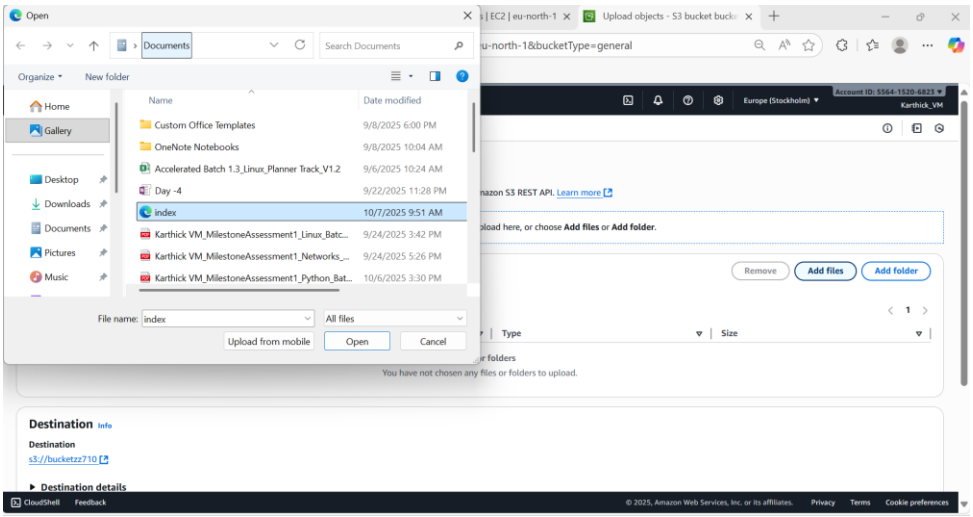




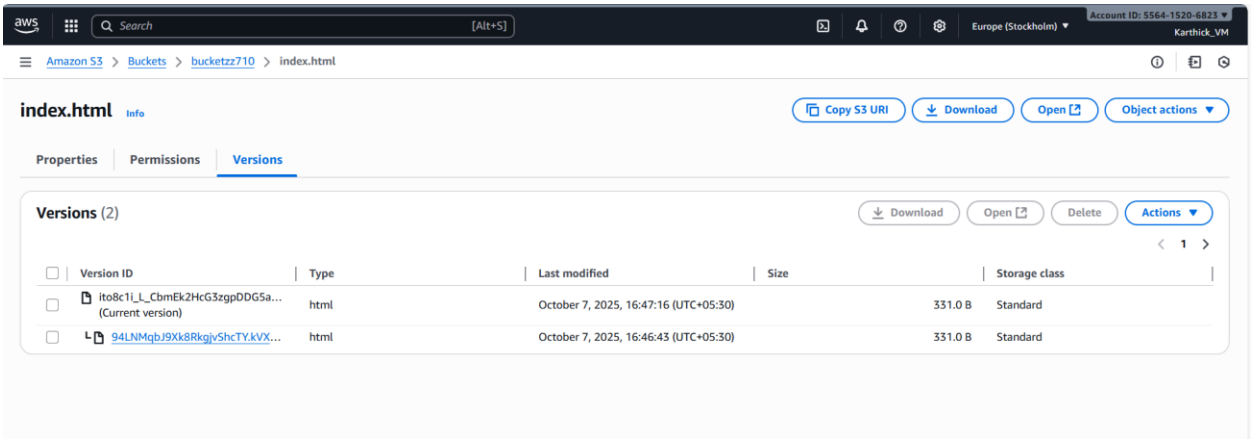




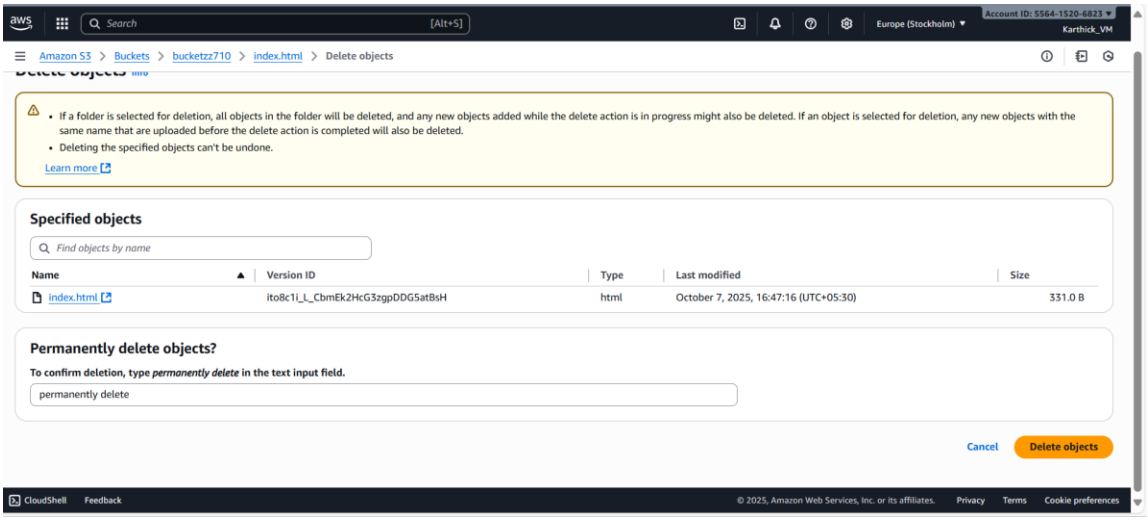
- Upload the same file again



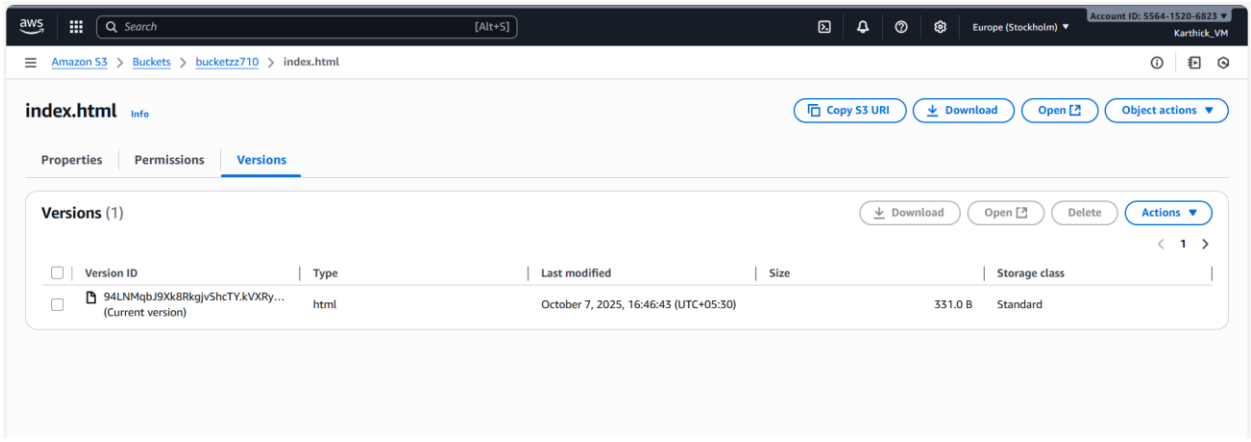
- Go to the file and go to the versions page , there you can see the pervious versions of the file.



- Now delete the current version of the file

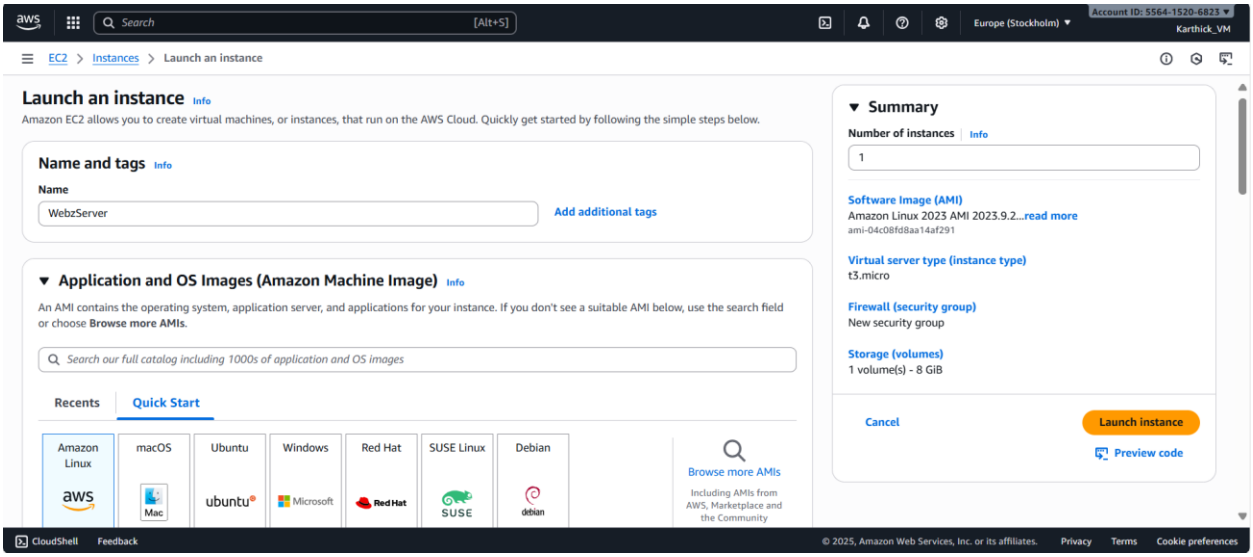


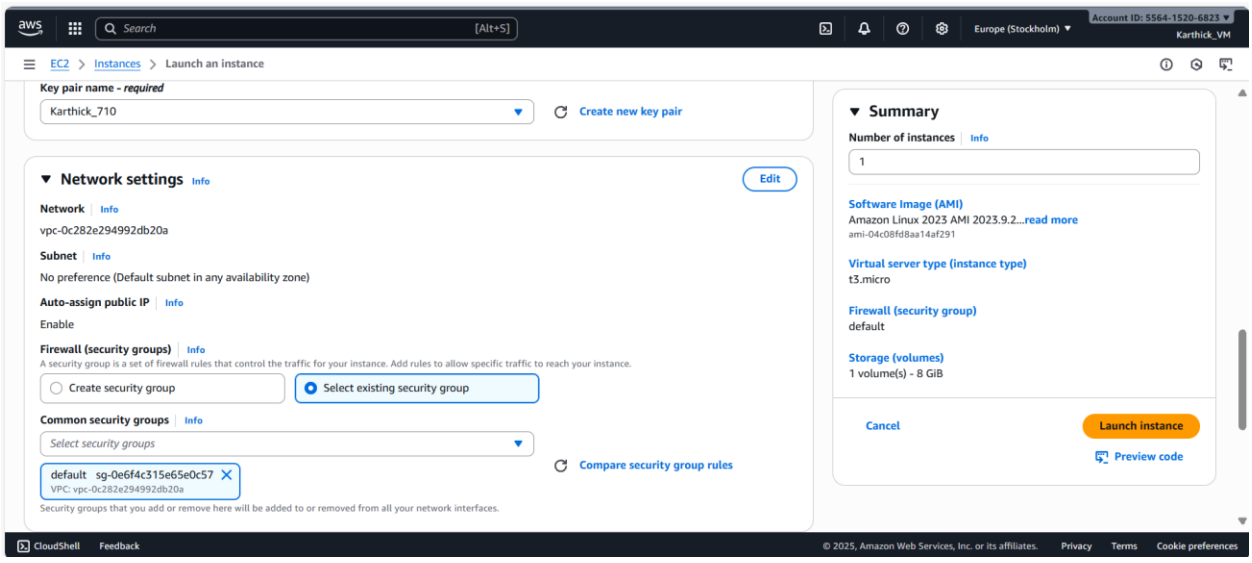
- You can see after we delete the current version of the file the previous version is restored.

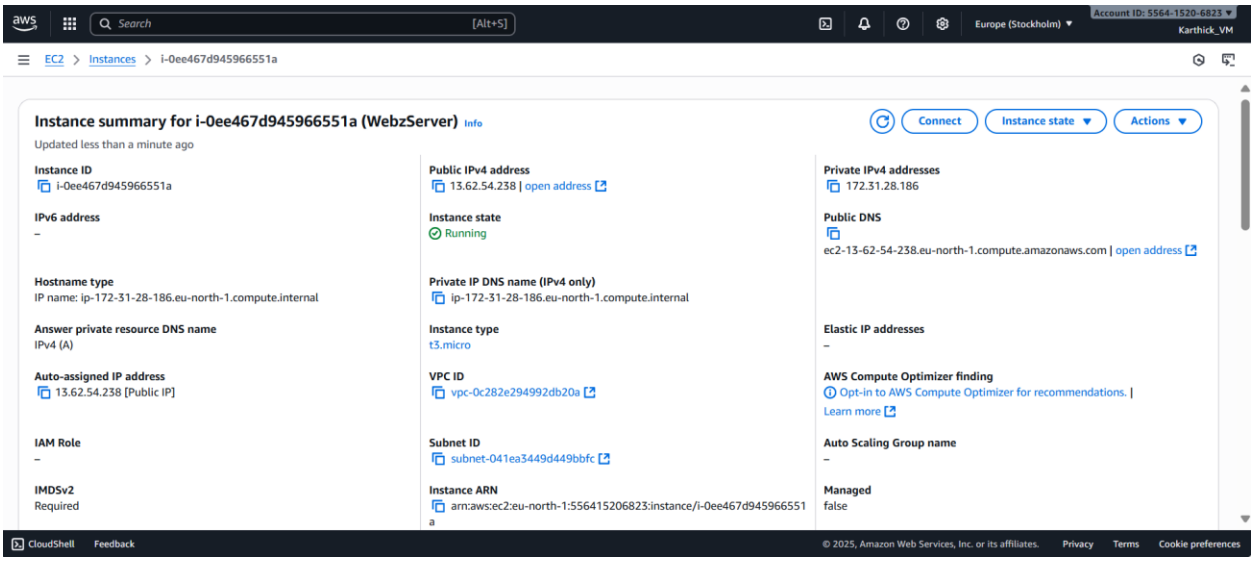


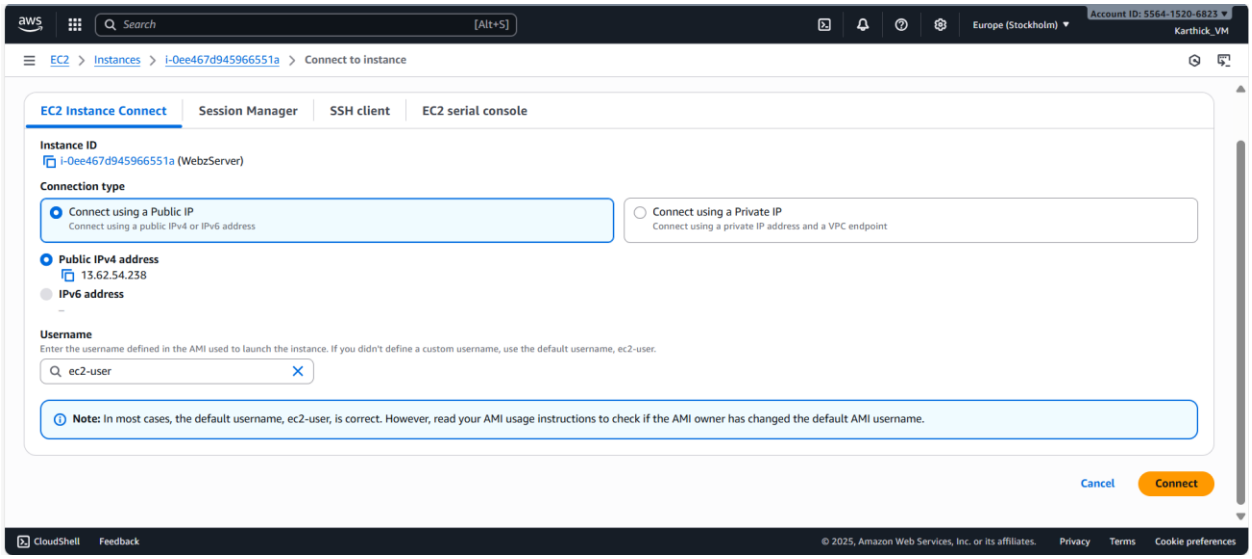
3. Launch two EC2 instances in different subnets and verify connectivity using securitygroups.

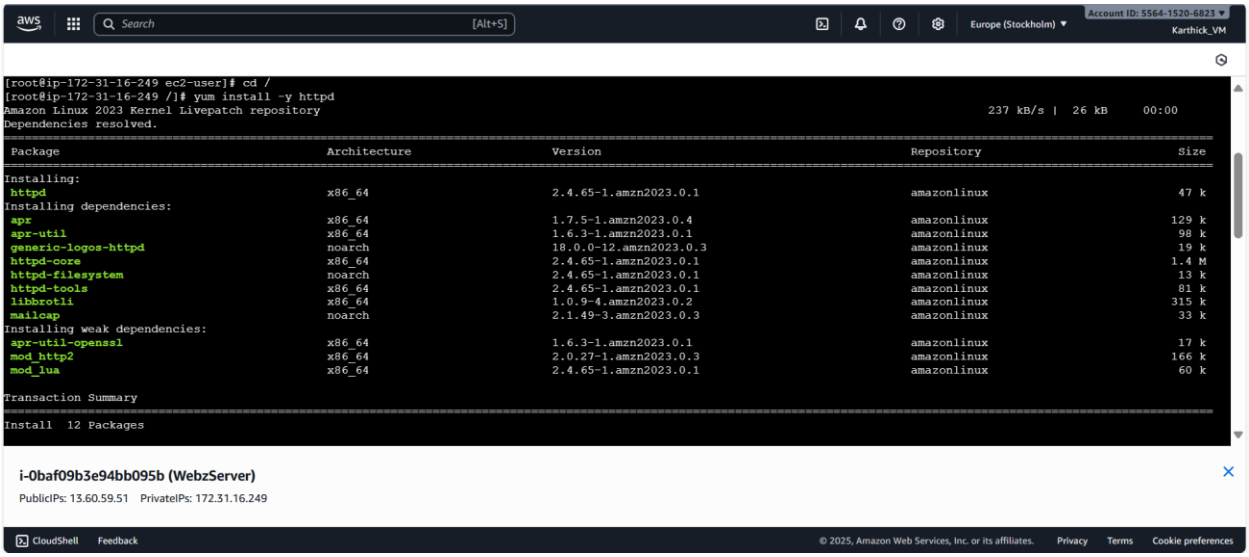
- EC2 Created using default vpc and subnet using default security group --- permissions inclusive of tcp,http,https.



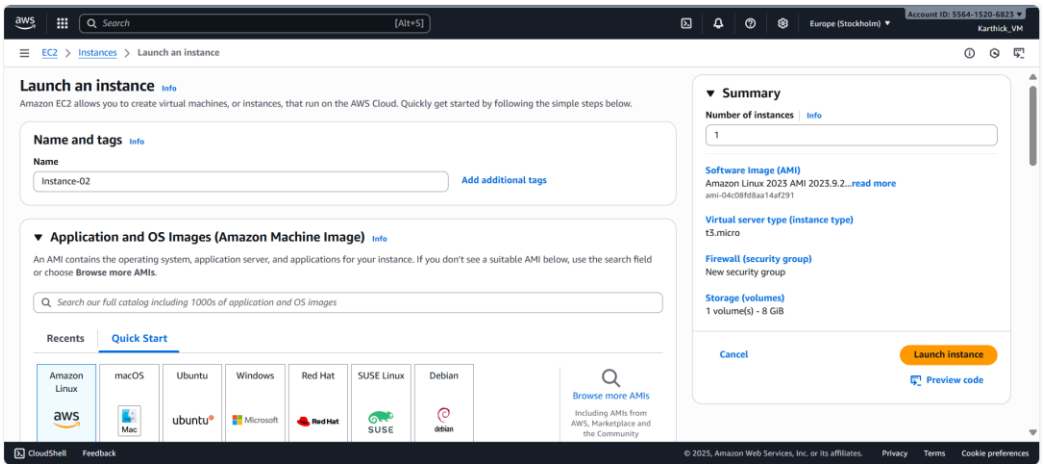


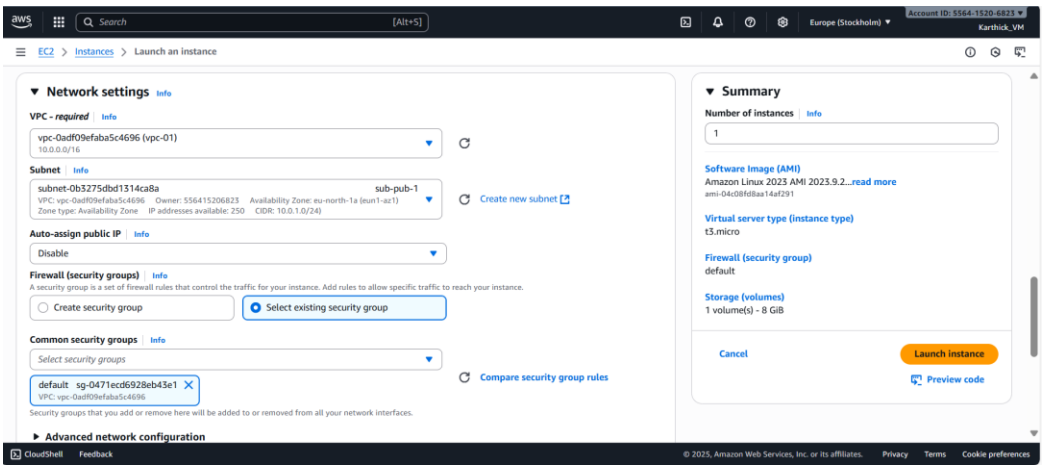

Search [Alt+S]
Europe (Stockholm)
Account ID: 5564-1520-6823
Karthick_VM
EC2 > Instances > i-0ee467d945966551a
Instance summary for i-0ee467d945966551a (WebzServer) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-0ee467d945966551a
Public IPv4 address
13.62.54.238 | open address
Private IPv4 addresses
172.31.28.186
IPv6 address
–
Instance state
Running
Public DNS
ec2-13-62-54-238.eu-north-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-28-186.eu-north-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-28-186.eu-north-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t3.micro
Elastic IP addresses
–
Auto-assigned IP address
13.62.54.238 [Public IP]
VPC ID
vpc-0c282e294992db20a
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role
–
Subnet ID
subnet-041ea3449d449bbfc
Auto Scaling Group name
–
IMDSv2
Required
Instance ARN
arn:aws:ec2:eu-north-1:556415206823:instance/i-0ee467d945966551a
Managed
false
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

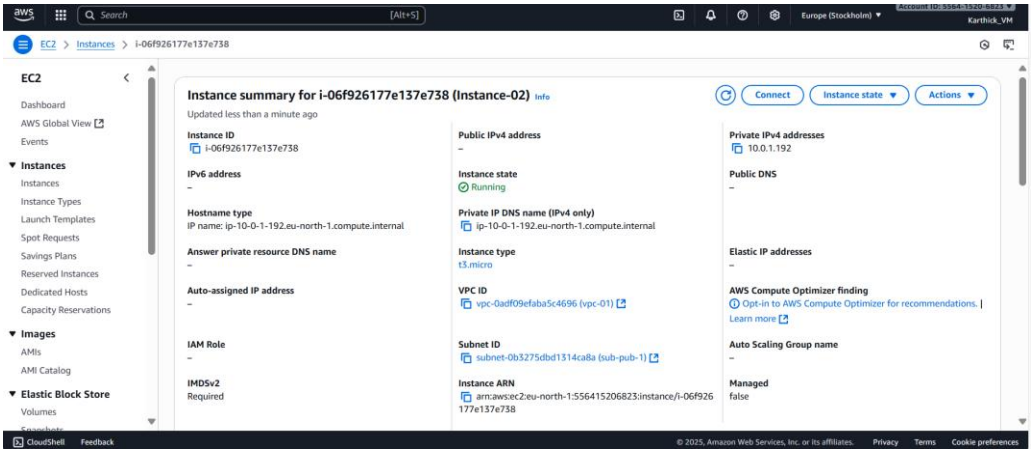

Search [Alt+S]
Europe (Stockholm)
Account ID: 5564-1520-6823
Karthick_VM
EC2 > Instances > i-0ee467d945966551a > Connect to instance
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0ee467d945966551a (WebzServer)
Connection type
Connect using a Public IP
Connect using a public IPv4 or IPv6 address
Connect using a Private IP
Connect using a private IP address and a VPC endpoint
Public IPv4 address
13.62.54.238
IPv6 address
–
Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.
ec2-user
Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
Cancel
Connect
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences



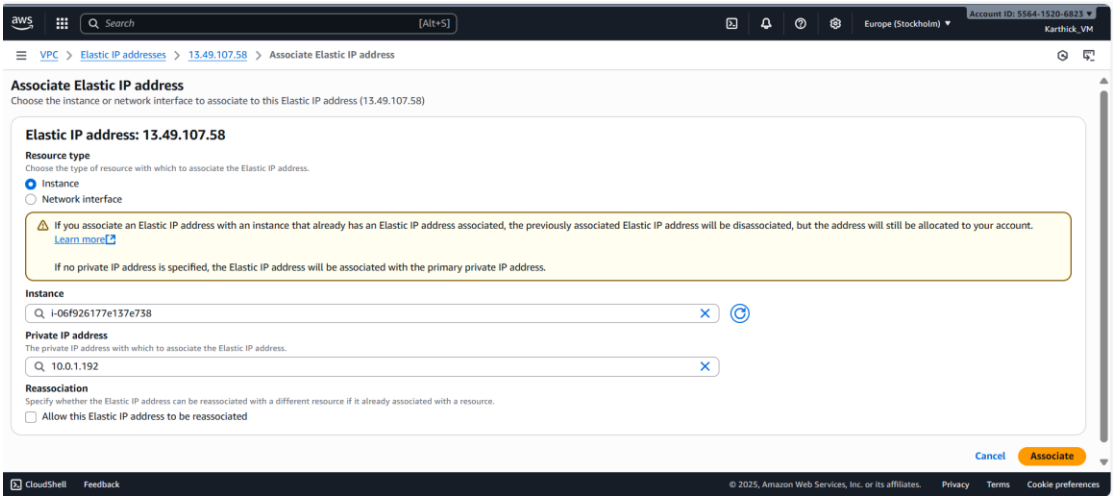
- Create another instance using another vpc i.e vpc-01





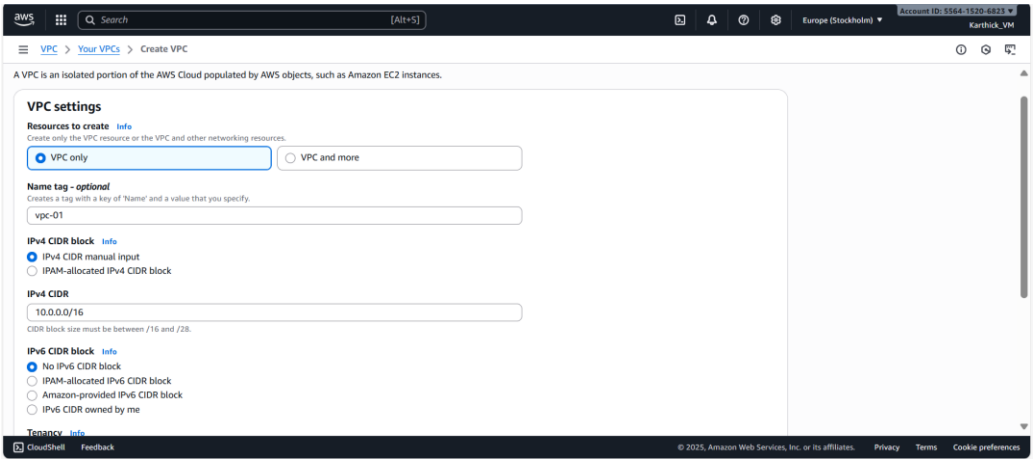


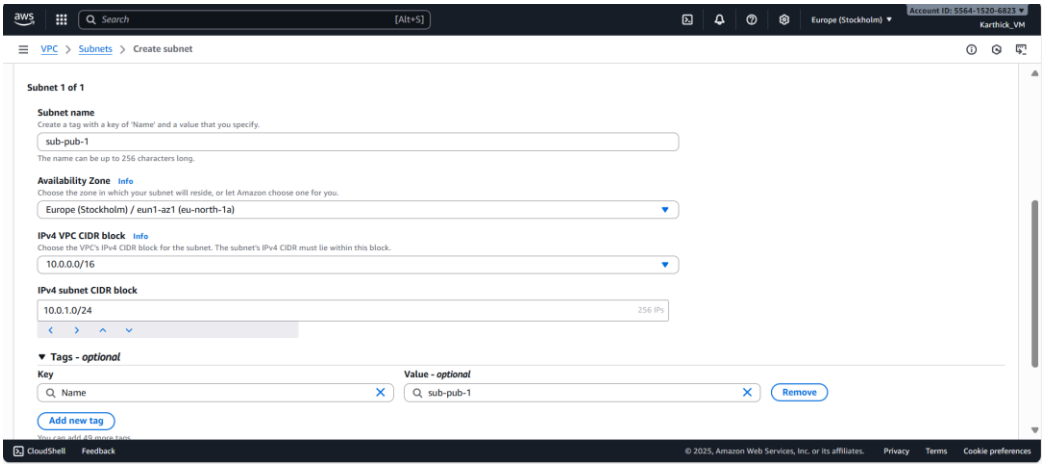
- You can see that the elastic ip address i.e public ip is not assigned to this instance soo we want to allocate the elastic ip address to this instance.



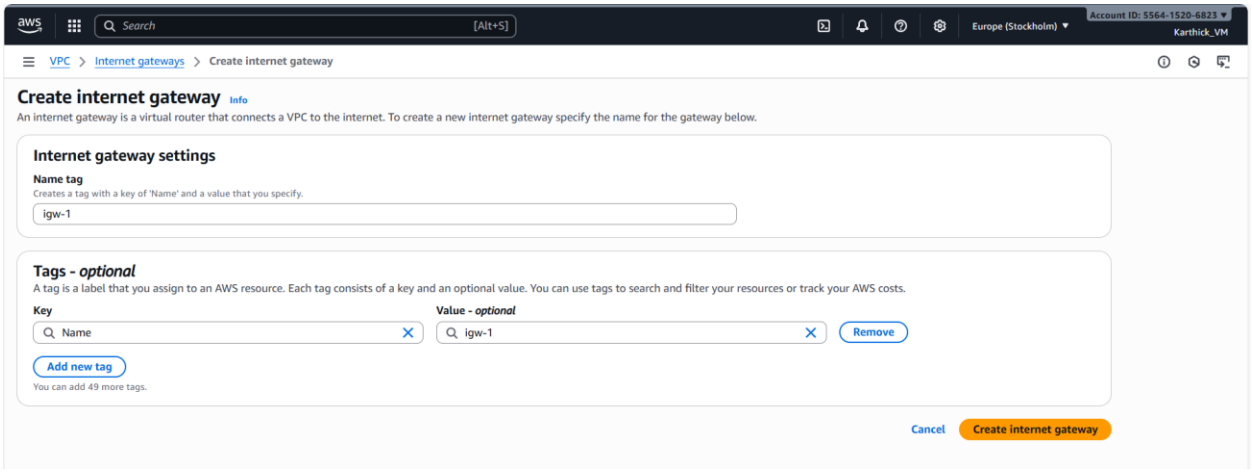
- Now you can connect to the ec2 instance .

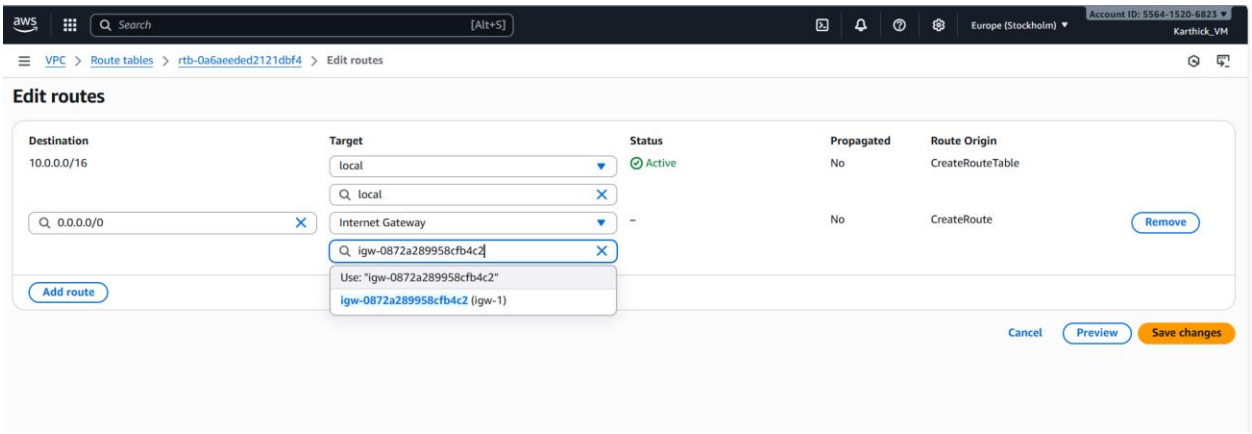
4. Configure a NAT Gateway in a public subnet and allow private instances to download updates from the internet.
    - Create a vpc and create a public subnet



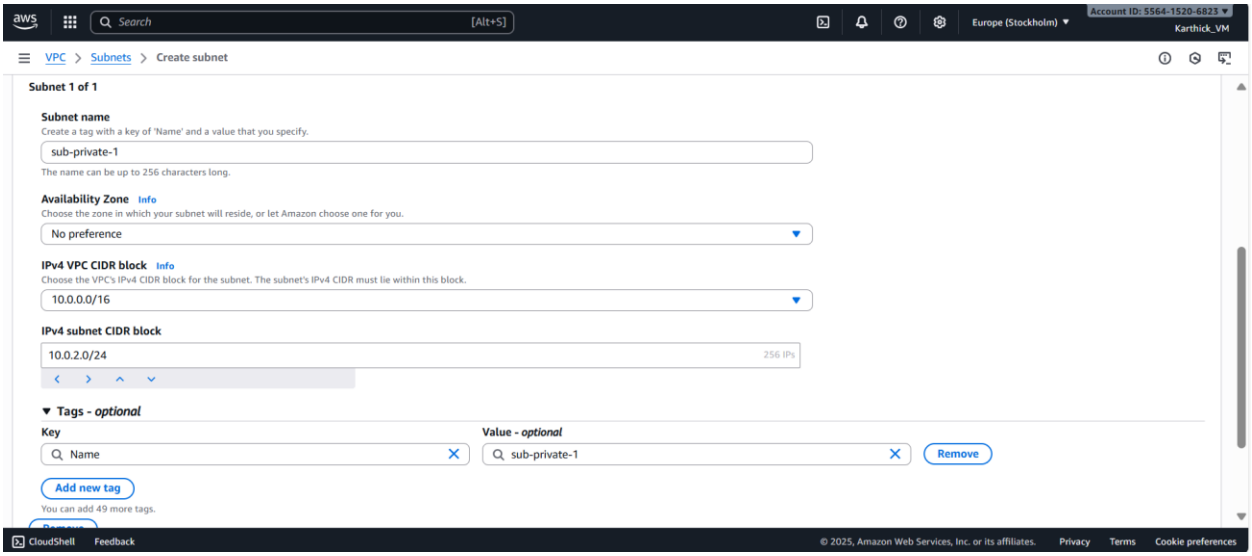


    - Create a internet gateway and route table , then associate the route table with the subnet and edit the route with the internet gateway.

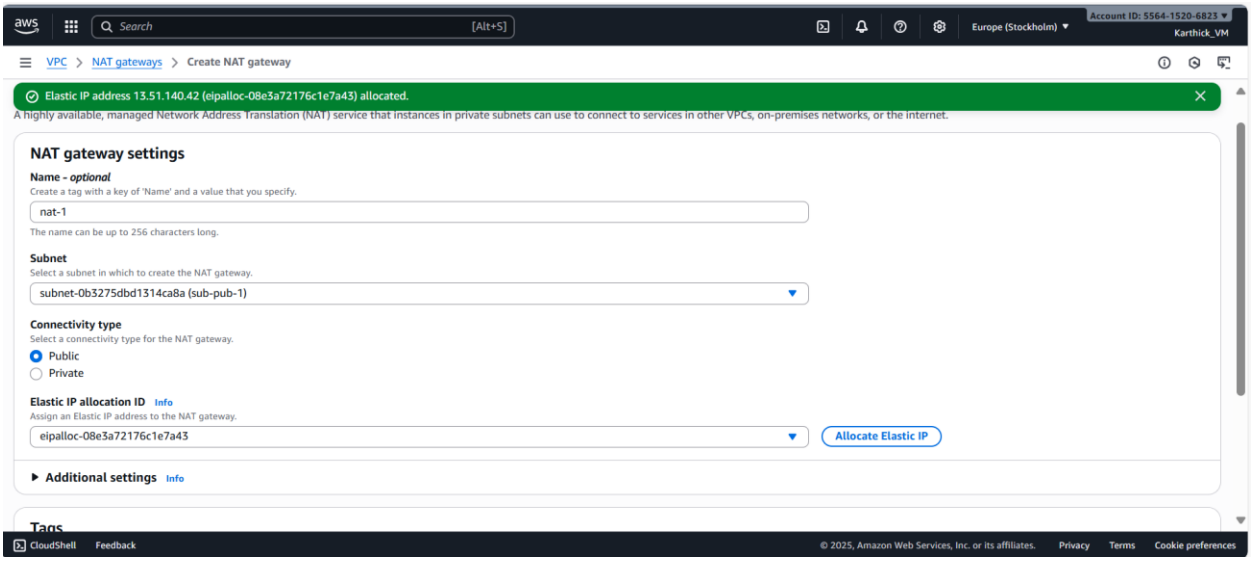




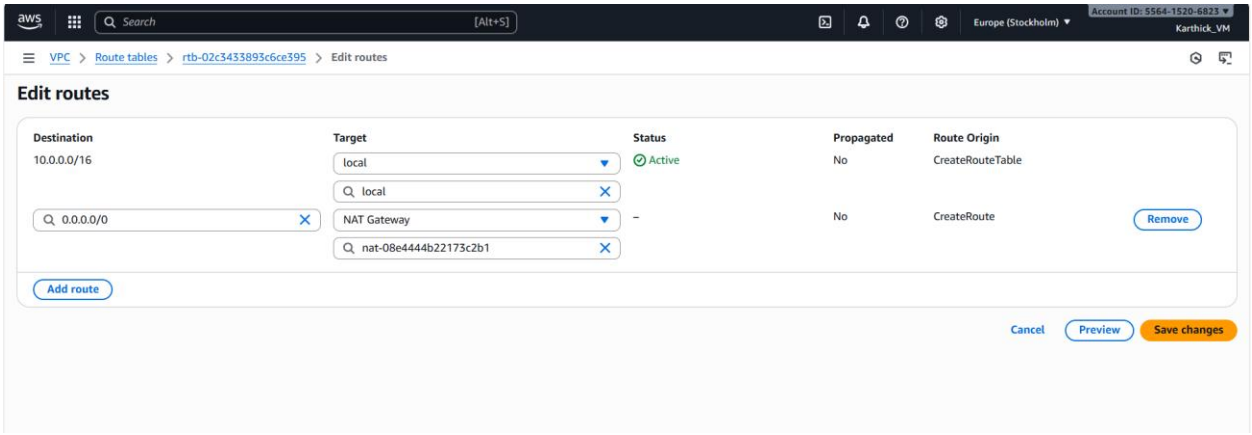
- Create a private subnet

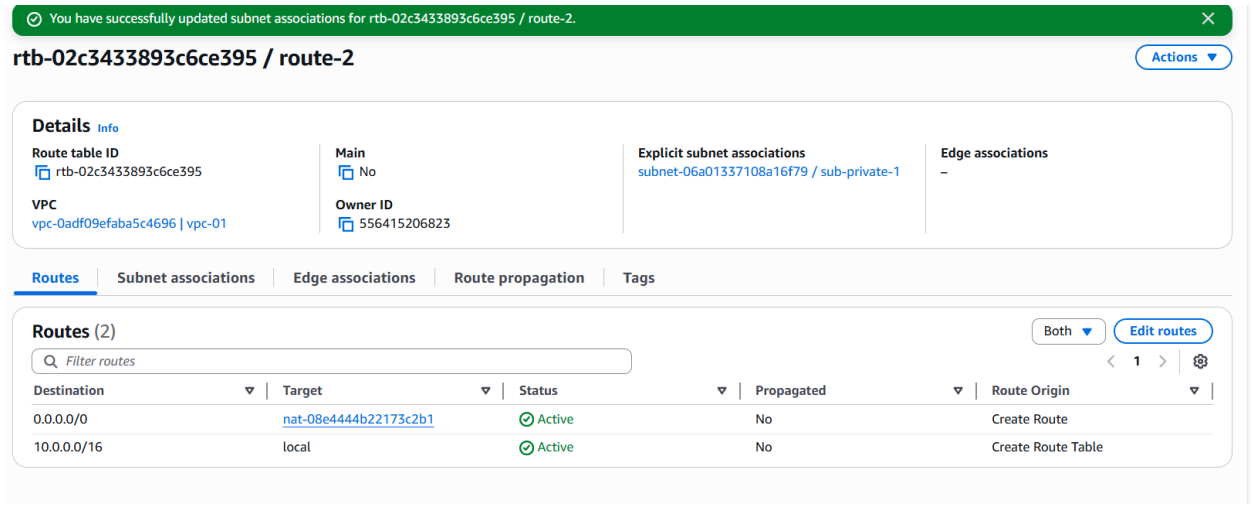


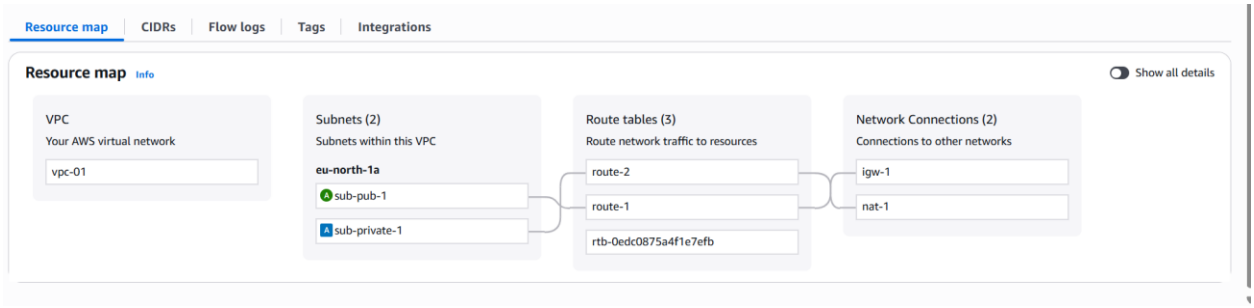
- Now create a NAT Gateway and select the public subnet (so that it can access the internet)



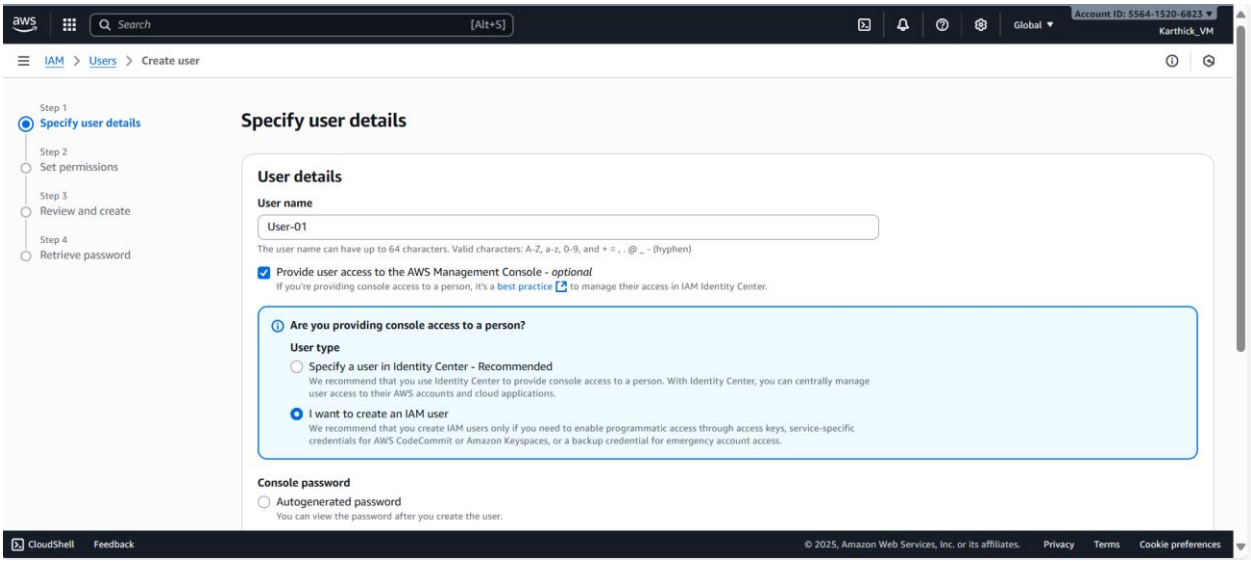
- Now create another route table and edit the route with NAT gateway and associate this route table with private subnet so it can access the internet using the NAT gateway.

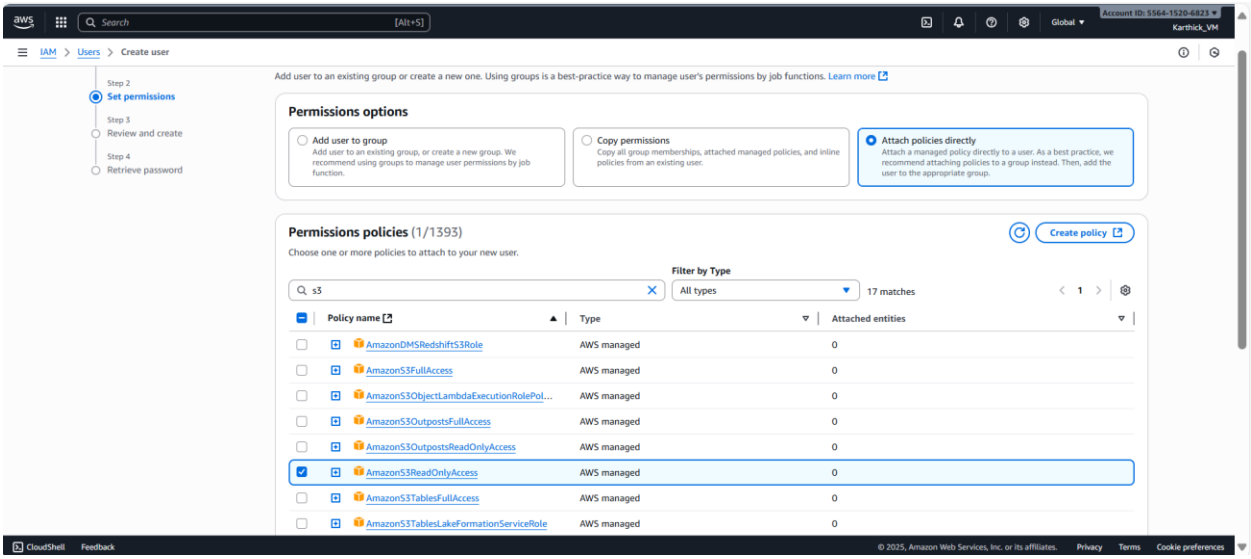


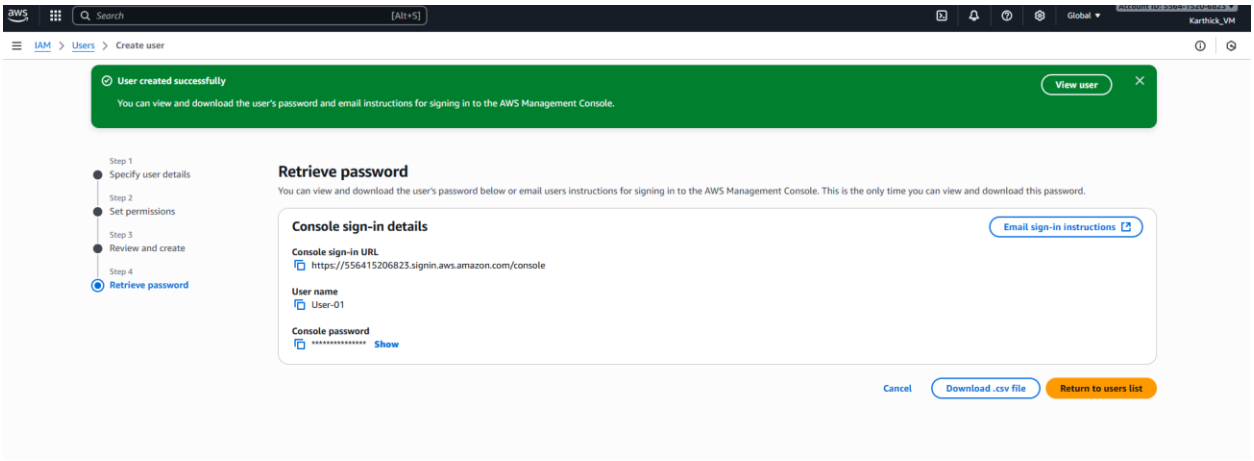




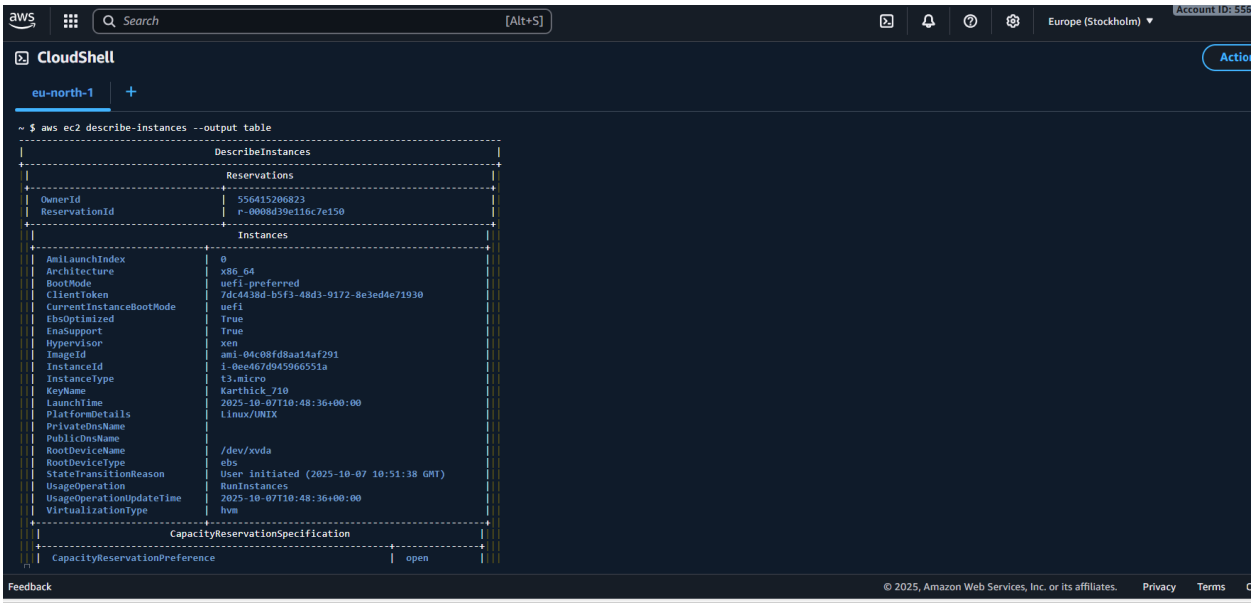
5. Use IAM to create a user with programmatic access and restrict themto only read53buckets.



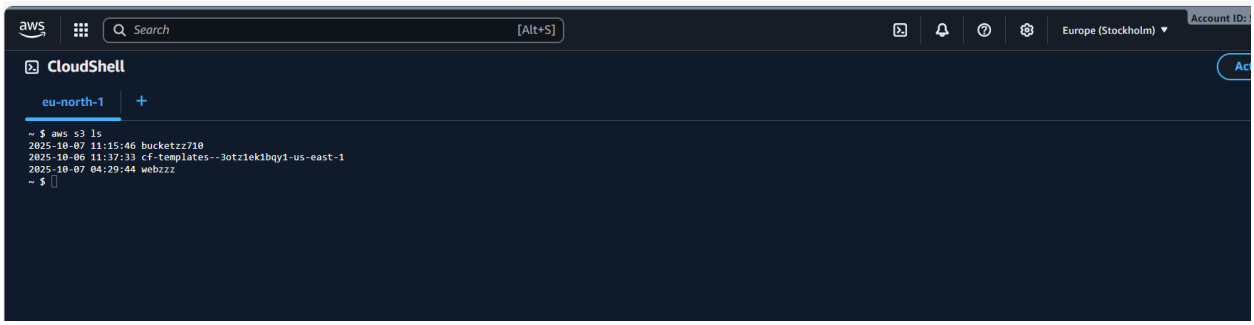




6. Run AWS CLI commands to list EC2 instances, 53 buckets, and IAMusers inyouraccount.
    - List Ec2 Instances



- List S3 buckets



- List IAM Users