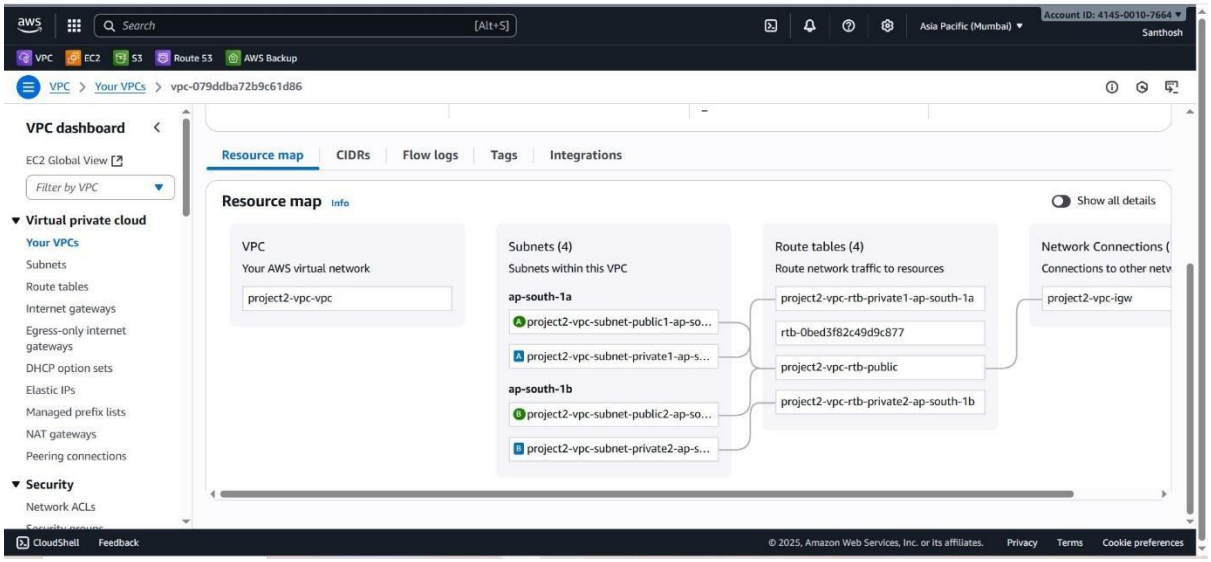
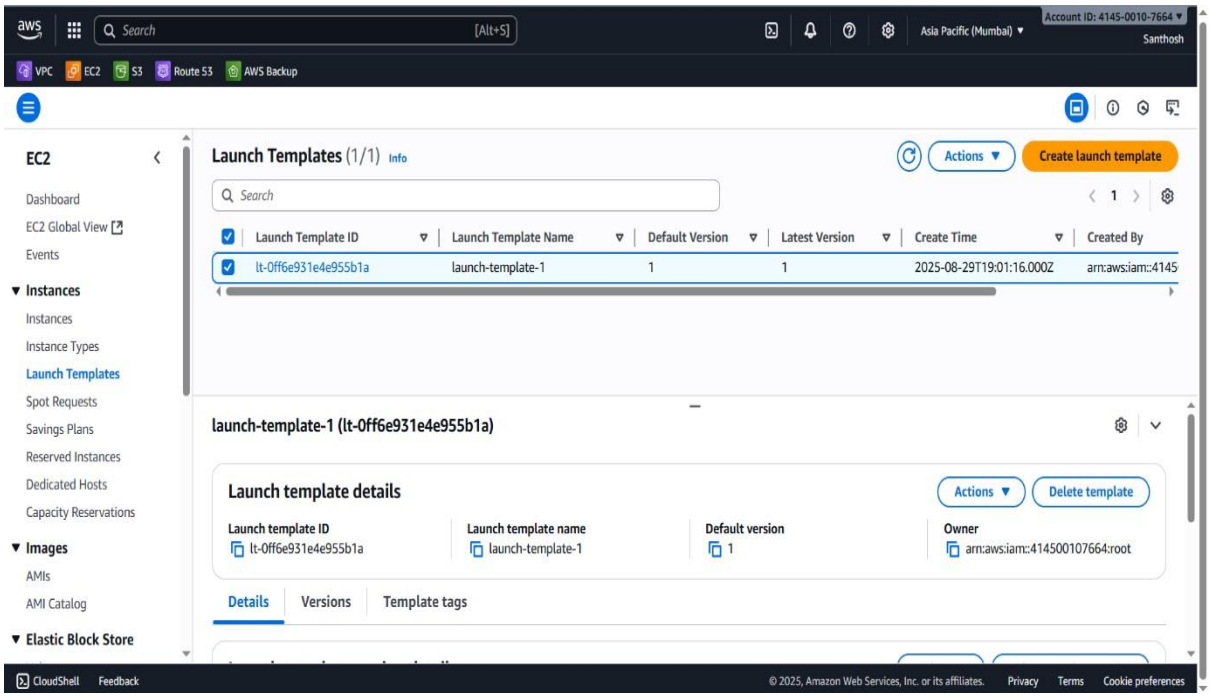
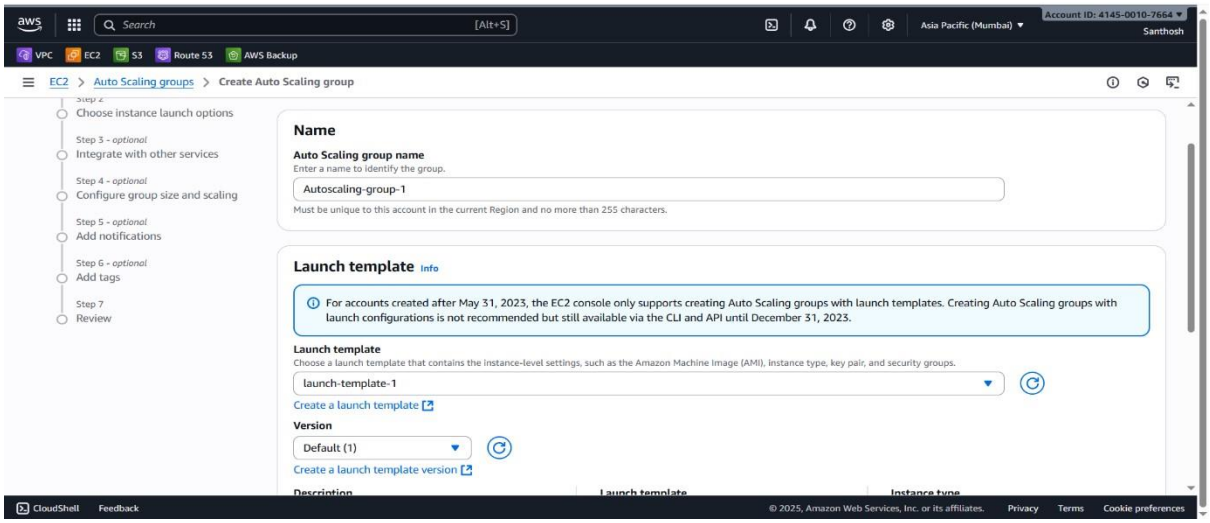
Step 1– 5: Creating vpc, public subnets, private subnet, attaching internet gateway to the public route table.



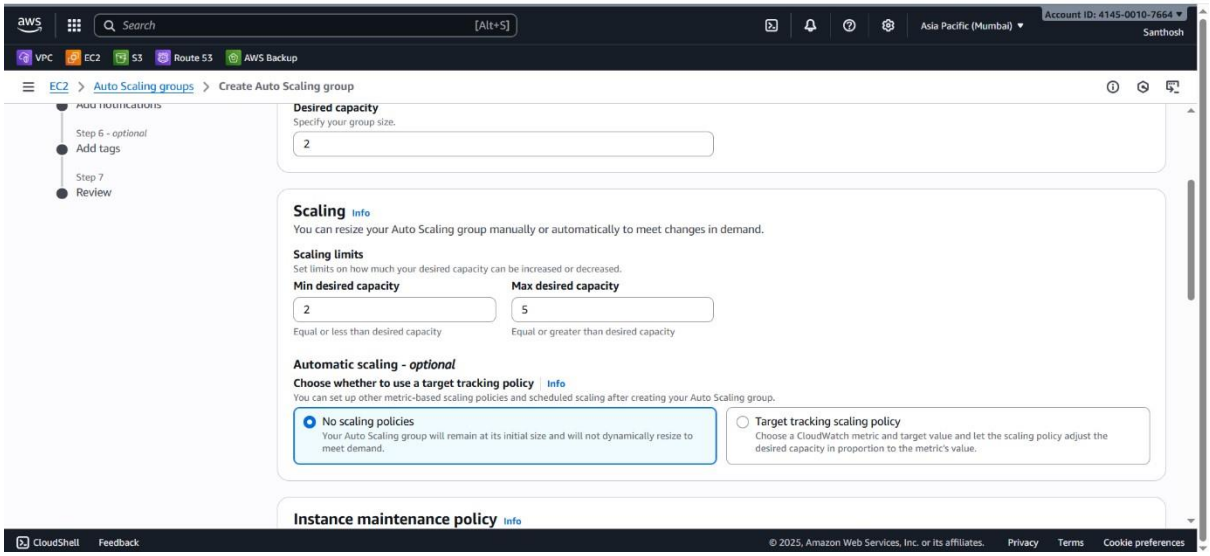
Step 6: Created a Launch Template with custom AMI.



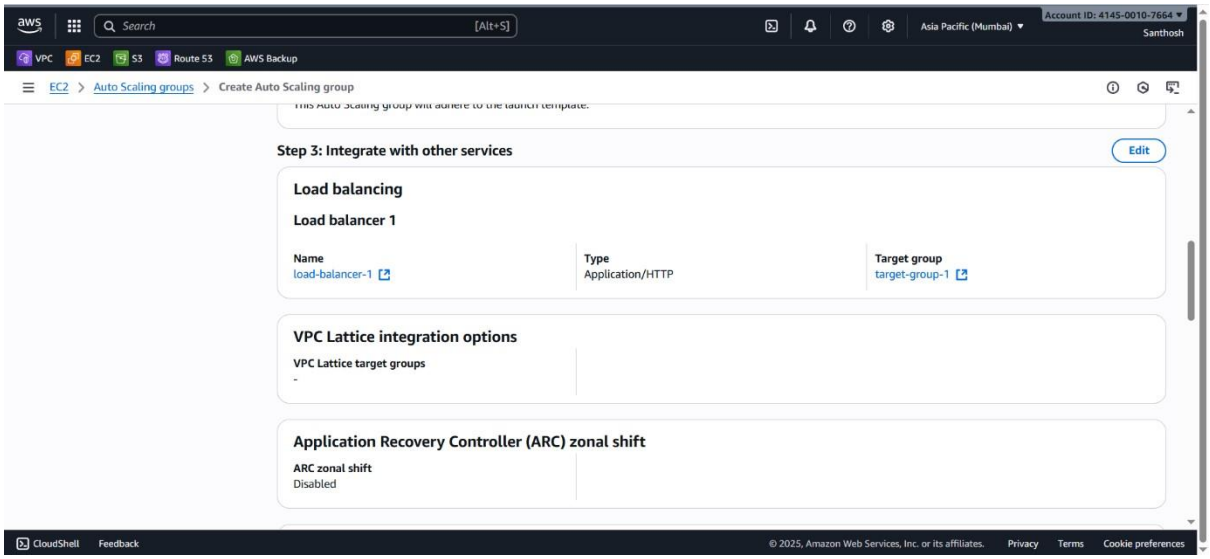
Using the same in Autoscaling config.



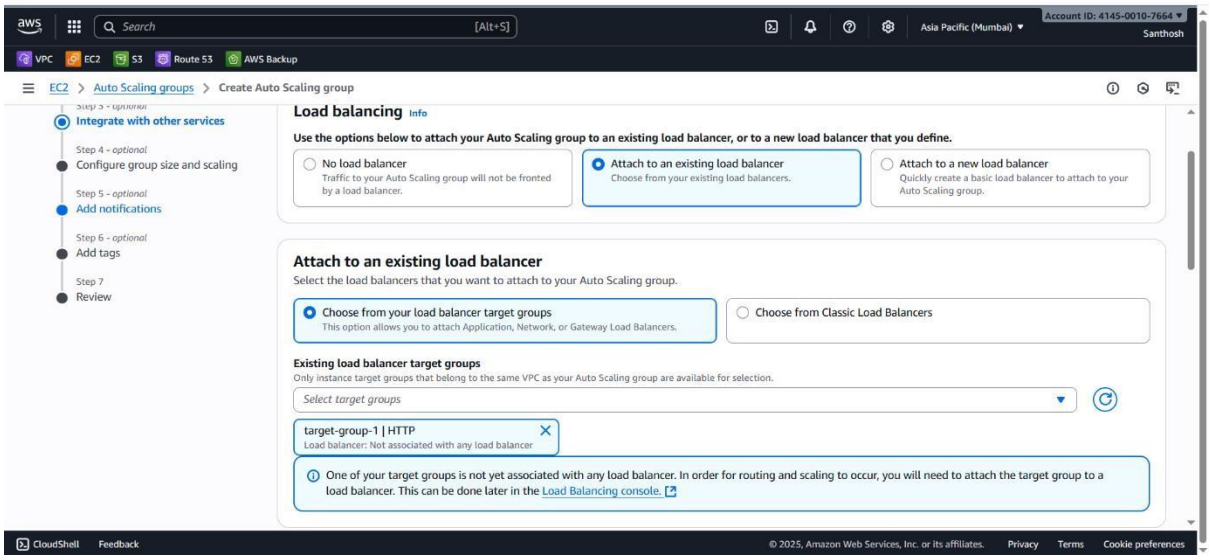
Defining the Minimum: 2, Max: 5, Desired: 2 capacity.



Attaching a Load balancer in the same.

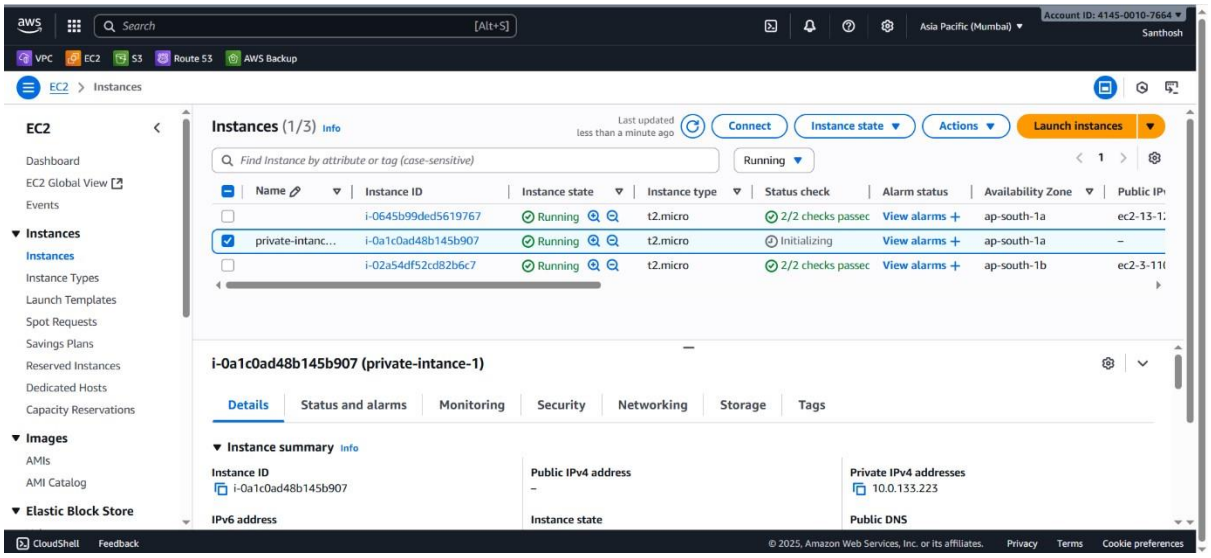


Step 7: Using application loadbalancer, create a target group and launch the instances using autoscaling.



Launched the instance using load balancer and auto scaling group.

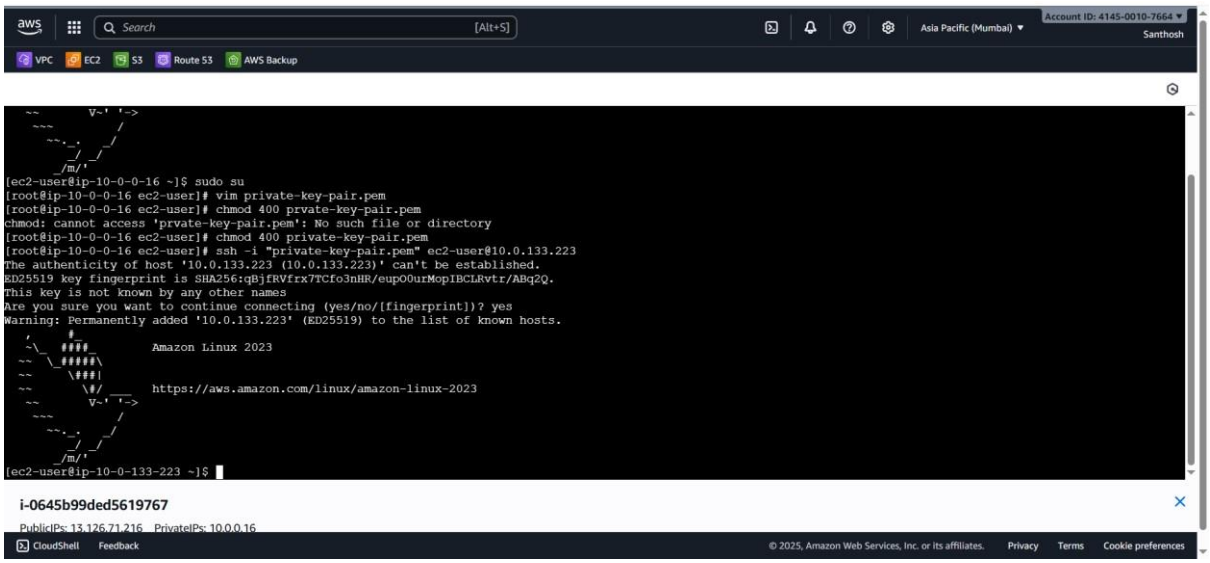
Step 8: creating EC2 instance in a private subnet.



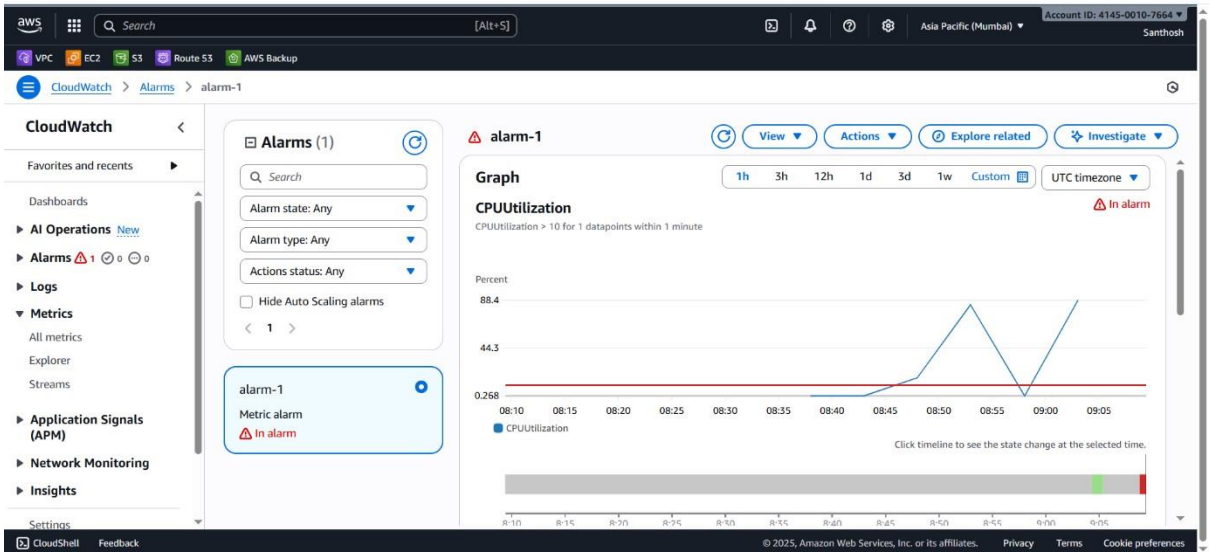
Accessing private instance from public instance.

public Ip of public EC2: 13.126.71.216 and private Ip of public EC2: 10.0.0.16.

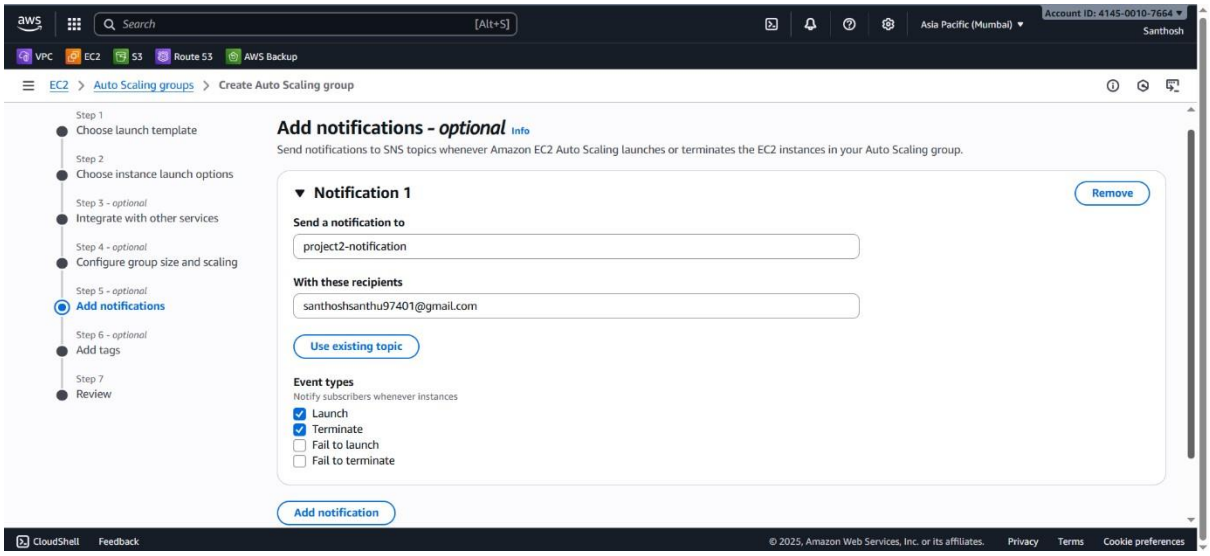
private Ip of private EC2: 10.0.133.223



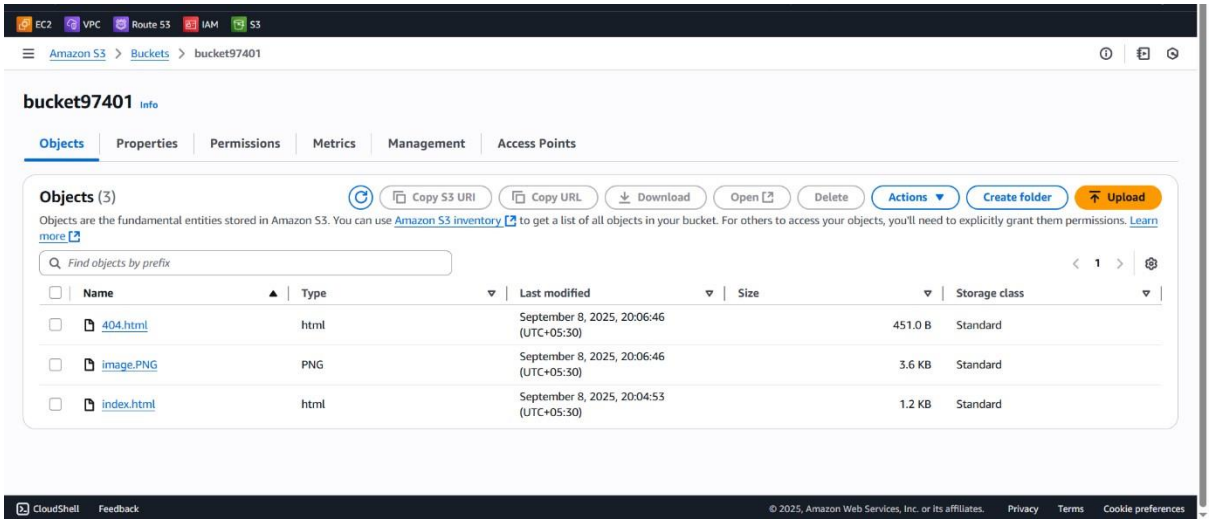
Step 9: Create an Alarm in CloudWatch.



Sending notification whenever a new instance is launched/terminated using autoscaling.



Step 10: created S3 bucket static website hoisting and added index.html and other required files through EC2 instance maintained by IAM role.


EC2 VPC Route 53 IAM S3
Amazon S3 > Buckets > bucket97401
bucket97401 Info
Objects Properties Permissions Metrics Management Access Points
Objects (3)
Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Find objects by prefix
Name Type Last modified Size Storage class
404.html html September 8, 2025, 20:06:46 (UTC+05:30) 451.0 B Standard
image.PNG PNG September 8, 2025, 20:06:46 (UTC+05:30) 3.6 KB Standard
index.html html September 8, 2025, 20:04:53 (UTC+05:30) 1.2 KB Standard
CloudShell Feedback
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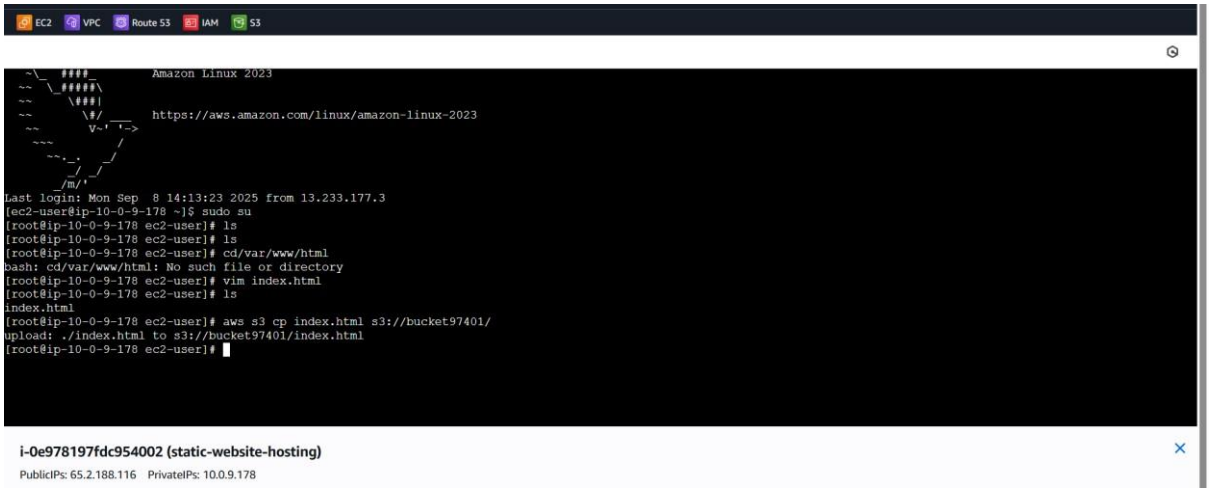
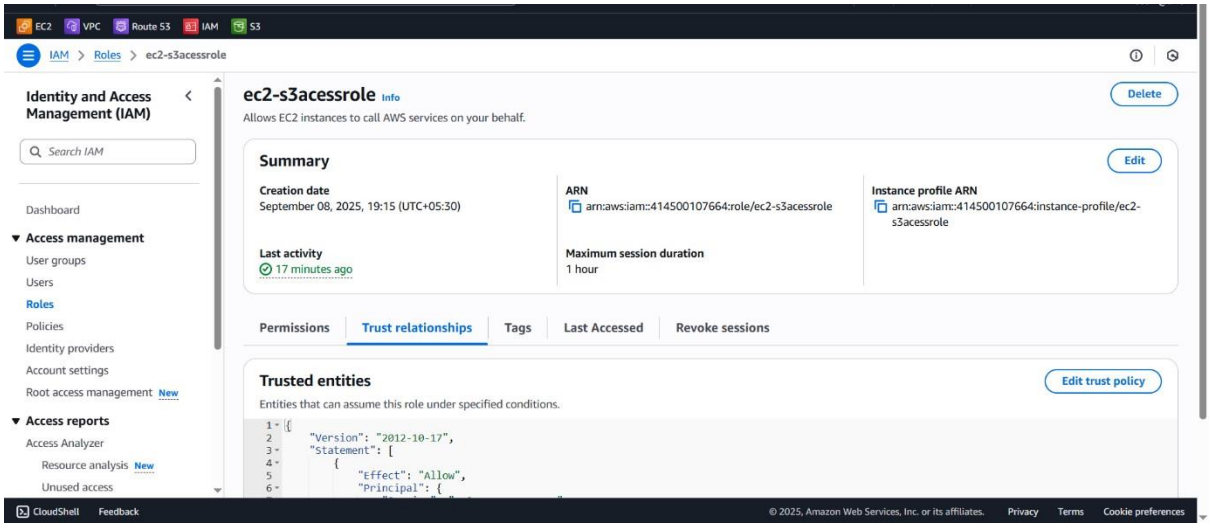

EC2 VPC Route 53 IAM S3
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Mon Sep 8 14:13:23 2025 from 13.233.177.3
[ec2-user@ip-10-0-9-178 ~]$ sudo su
[root@ip-10-0-9-178 ec2-user]# ls
[root@ip-10-0-9-178 ec2-user]# ls
[root@ip-10-0-9-178 ec2-user]# cd/var/www/html
bash: cd/var/www/html: No such file or directory
[root@ip-10-0-9-178 ec2-user]# vim index.html
[root@ip-10-0-9-178 ec2-user]# ls
index.html
[root@ip-10-0-9-178 ec2-user]# aws s3 cp index.html s3://bucket97401/
upload: ./index.html to s3://bucket97401/index.html
[root@ip-10-0-9-178 ec2-user]#
i-0e978197fdc954002 (static-website-hosting)
PublicIPs: 65.2.188.116 PrivateIPs: 10.0.9.178


EC2 VPC Route 53 IAM S3
IAM > Roles > ec2-s3acessrole
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
Resource analysis New
Unused access
ec2-s3acessrole Info
Allows EC2 instances to call AWS services on your behalf.
Delete
Summary
Edit
Creation date
September 08, 2025, 19:15 (UTC+05:30)
ARN
arn:aws:iam::414500107664:role/ec2-s3acessrole
Instance profile ARN
arn:aws:iam::414500107664:instance-profile/ec2-s3acessrole
Last activity
17 minutes ago
Maximum session duration
1 hour
Permissions Trust relationships Tags Last Accessed Revoke sessions
Trusted entities
Edit trust policy
Entities that can assume this role under specified conditions.
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Principal": {
CloudShell Feedback
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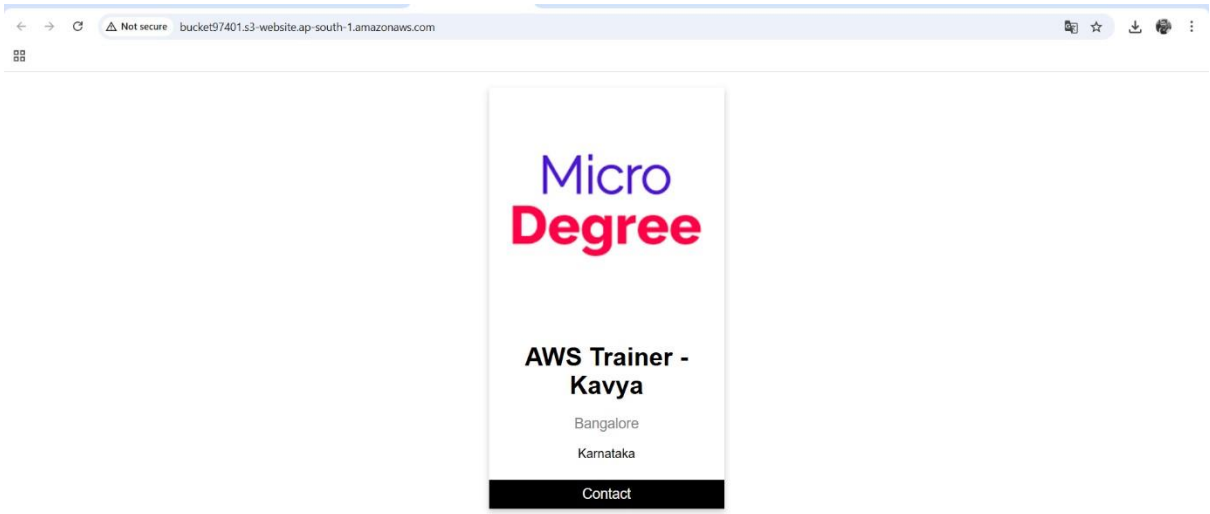
Not secure
bucket97401.s3-website.ap-south-1.amazonaws.com
Micro
Degree
AWS Trainer - Kavya
Bangalore
Karnataka
Contact