# ACCESS S3 OBJECTS FROM EC2 INSTANCE

➢ **Create an IAM instance profile that grants access to Amazon S3**
Complete the following steps:

- Open the AWS Identity and Access Management (IAM) console.

- In the navigation pane, under Access management, choose Roles.

- Choose Create role.

- Under Trusted entity type, choose AWS service, and then choose EC2.

- Choose Next.

- Create a custom policy that provides the minimum required permissions to access your S3 bucket.

Note: It's a security best practice to create a policy with the minimum required permissions. However, to allow EC2 access to all your S3 buckets, use the AmazonS3ReadOnlyAccess or AmazonS3FullAccess managed IAM policy.

- Choose Next.

- Enter a role name, and then choose Create role.
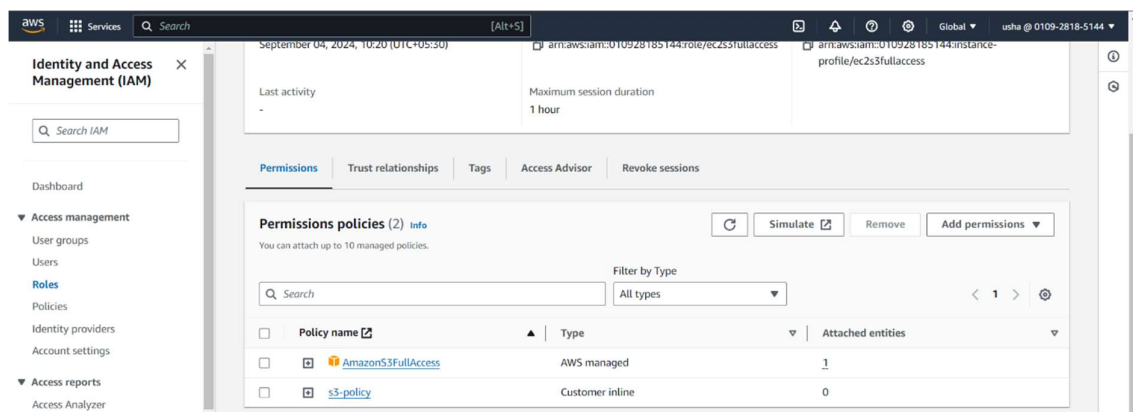
➢ CREATE AMAZON S3 BUCKET

Complete the following steps:

- Open the Amazon S3

- Go to the buckets – click on create bucket

- Enabling VERSIONING is mandatory – create bucket

- After the creation of bucket – click on it – click on upload – add files- upload the files - close

➤ **CREATE EC2 INSTANCE & Attach the IAM ROLE TO THE EC2 INSTANCE**

   <u>Complete the following steps:</u>

   • Open the Amazon EC2 console.

   • In the navigation pane, choose Instances.

   • Select the instance that you want to attach the IAM role to.

   • Choose the Actions tab, and then choose Security.

   • Choose Modify IAM role.

   • Select the IAM role, and then choose Save. The IAM role is assigned to your EC2 instance
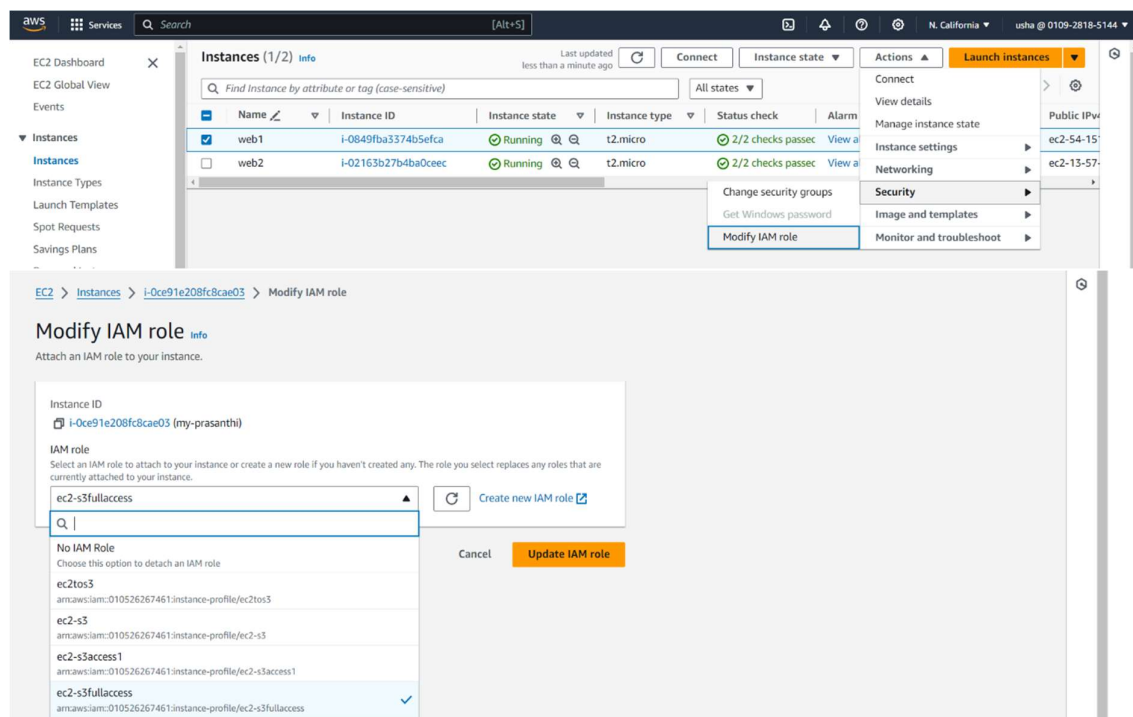
➤ **VERIFY ACCESS TO THE S3 BUCKET**

<u>Complete the following steps</u>:

Note: If you receive errors when you run AWS Command Line Interface (AWS CLI) commands, then see Troubleshoot AWS CLI errors. Also, make sure that you're using the most recent AWS CLI version.

• Install the AWS CLI on your EC2 instance.

• Run the following command to verify access to your S3 buckets:

Aws s3 ls s3://DOC-EXAMPLE-BUCKET

```
inflating: aws/dist/docutils/writers/s5_html/themes/default/outline.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/__base__
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/__base__
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-white/pretty.css
inflating: aws/dist/docutils/writers/html4css1/template.txt
inflating: aws/dist/docutils/writers/html4css1/html4css1.css
inflating: aws/dist/docutils/writers/pep_html/pep.css
inflating: aws/dist/docutils/writers/pep_html/template.txt
inflating: aws/dist/docutils/writers/odf_odt/styles.odt
You can now run: /usr/local/bin/aws --version
root@ip-172-31-10-231:~# ^C
root@ip-172-31-10-231:~# ls
aws   awscliv2.zip   snap
root@ip-172-31-10-231:~# aws s3 ls
2024-09-04 04:37:23 s3-bucket-usha
2024-09-04 04:31:55 swathi-bucket-1
root@ip-172-31-10-231:~# ls
aws   awscliv2.zip   snap
root@ip-172-31-10-231:~# touch usha
root@ip-172-31-10-231:~# aws s3 cp usha s3://swathi-bucket-1
upload: ./usha to s3://swathi-bucket-1/usha
root@ip-172-31-10-231:~#
```

i-0004627893e76548e (my s3-ec2)

PublicIPs: 54.177.33.249   PrivateIPs: 172.31.10.231

-----SUCCESSFULLY ACCESSED S3 OBJECTS FROM EC2 INSTANCE-----