

ECR

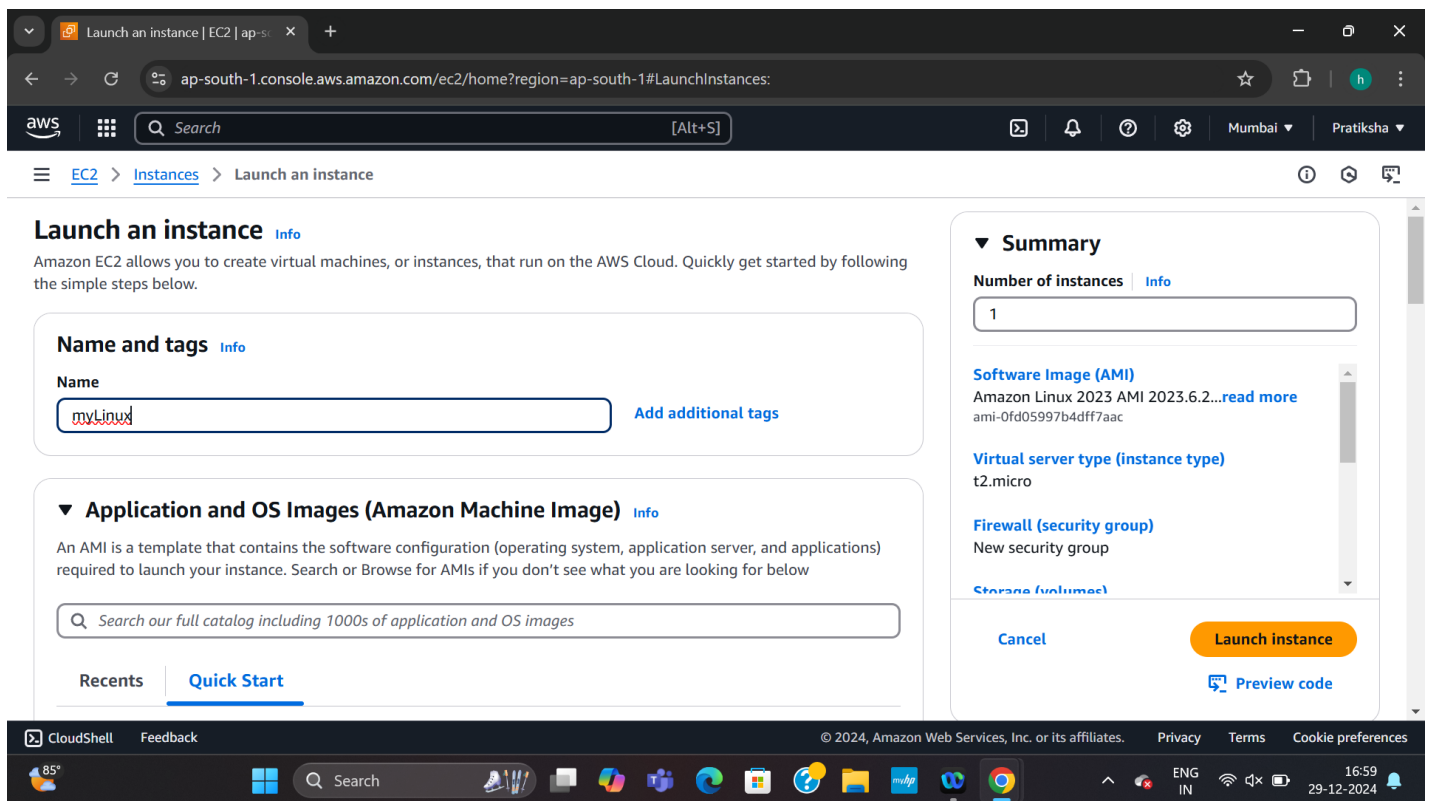
ECR-[Elastic Container Registry]

- We store Docker image inside this for future use.
- this is like our repository.
- It allows developers to store, share, and deploy container images, and integrates with other AWS services to create an ecosystem for managing containerized applications.

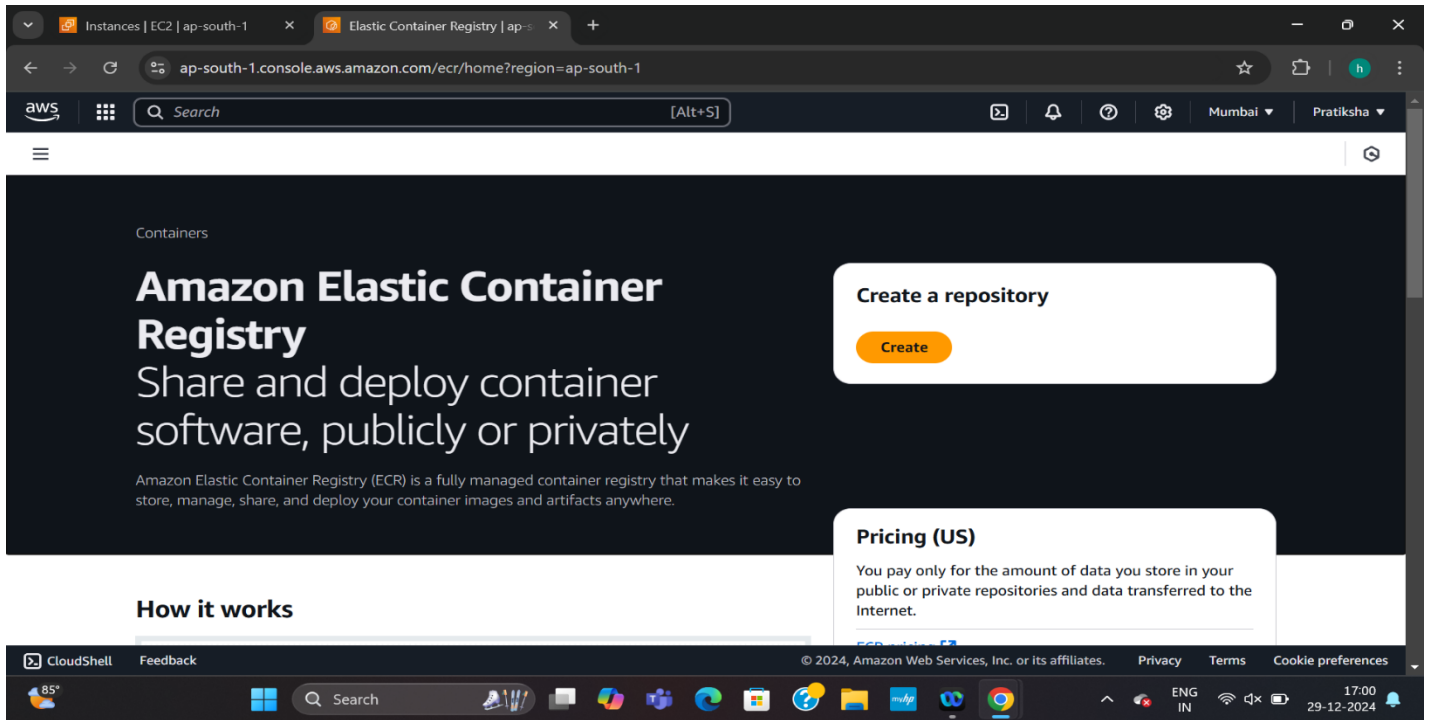
Search 'amazon ecr public gallery' on google-->

Steps-->

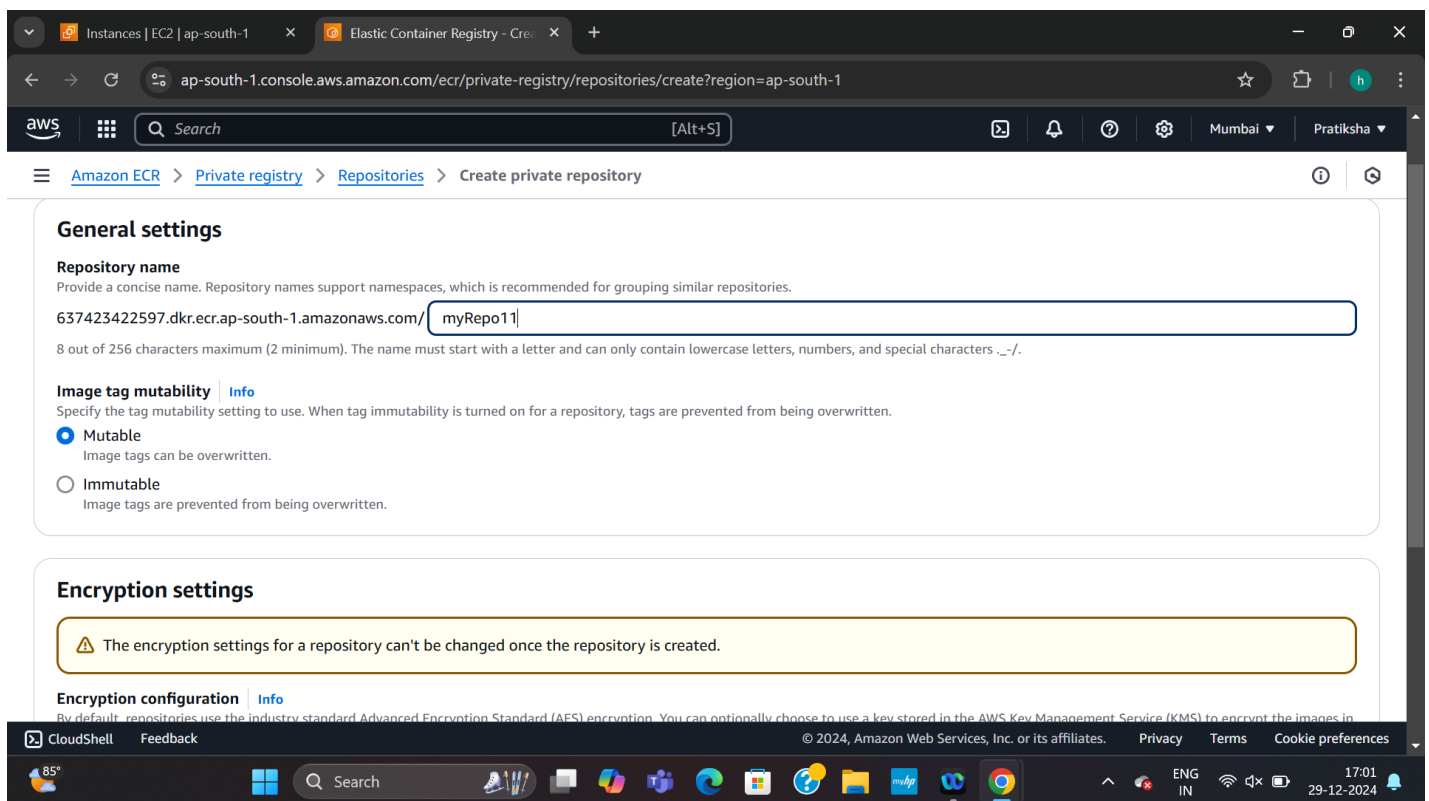
-Launch Linux Instance

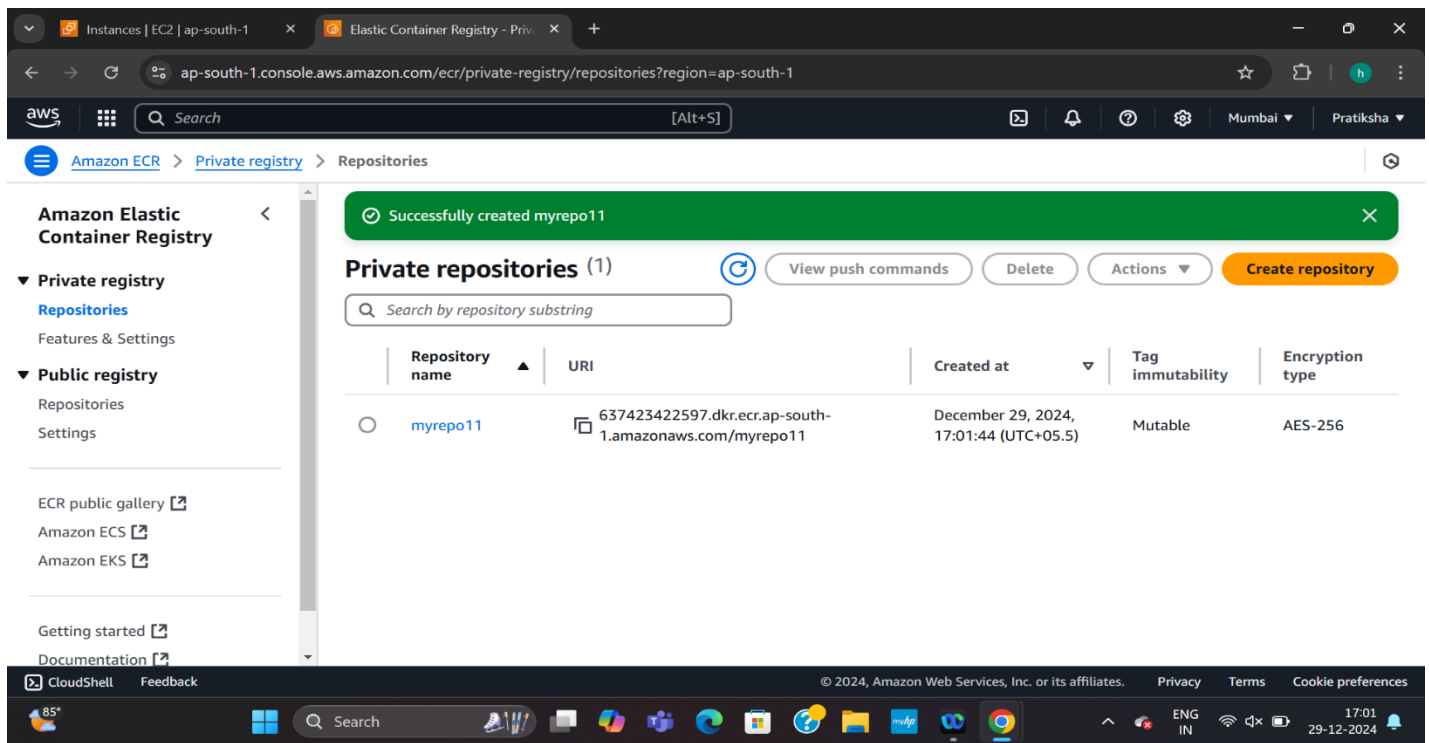


--> Search ECR



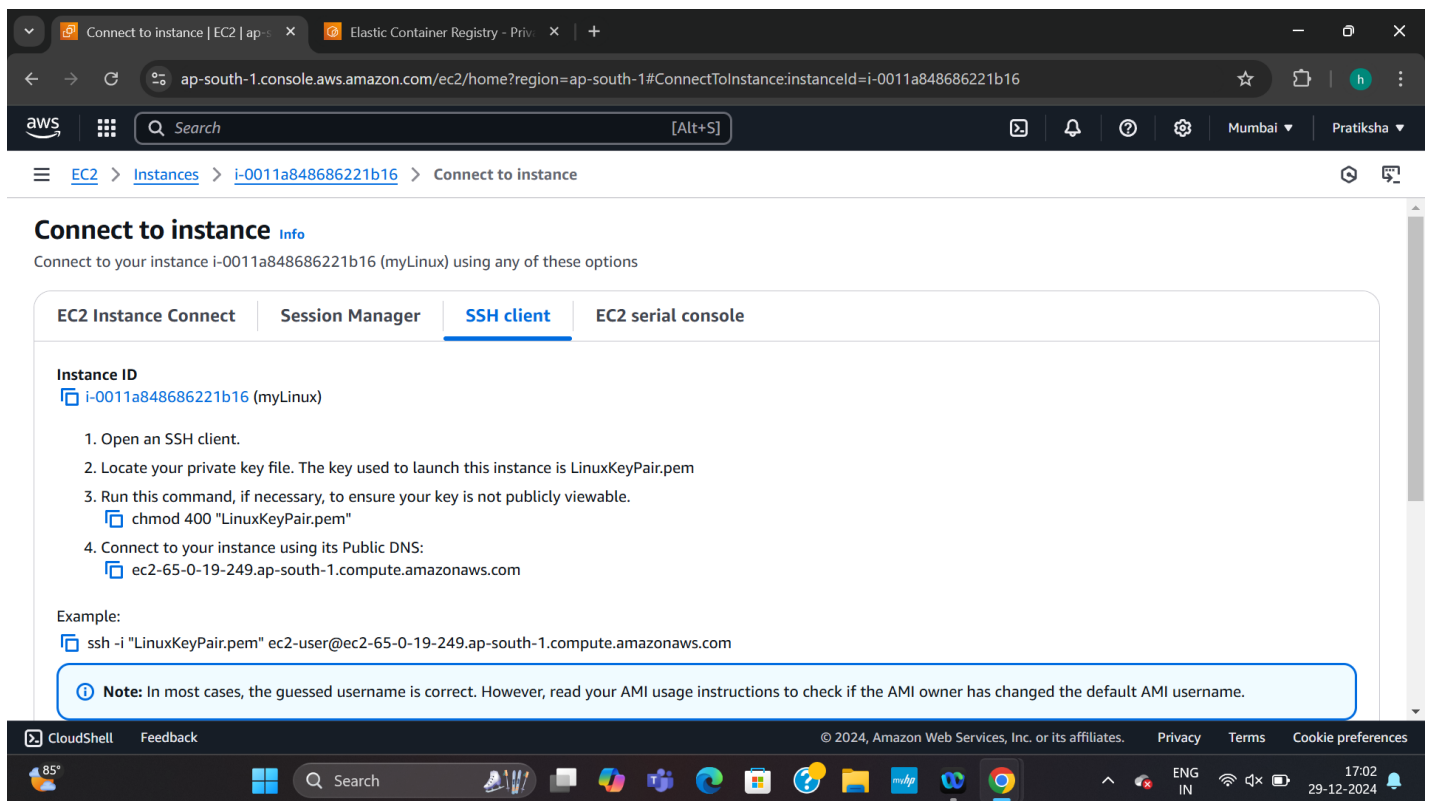
--> create a private Repo--> provide name--> create repo.





--> connect

Instance SSH client



sudo su

yum update -y

[illegible]

start

FROM ubuntu

RUN apt-get install apache2 -y

EXPOSE 80

--> create index.html also

```
root@ip-172-31-3-247:/home/ec2-user
Verifying      : pigz-2.5-1.amzn2023.0.3.x86_64      9/10
Verifying      : runc-1.1.14-1.amzn2023.0.1.x86_64  10/10

Installed:
containerd-1.7.23-1.amzn2023.0.1.x86_64      docker-25.0.6-1.amzn2023.0.2.x86_64      iptables-libs-1.8.8-3.amzn2023.0.2.x86_64
iptables-nft-1.8.8-3.amzn2023.0.2.x86_64    libcgrou-3.0-1.amzn2023.0.1.x86_64      libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
libnftnl-1.0.1-19.amzn2023.0.2.x86_64      libnftnl-1.2.2-2.amzn2023.0.2.x86_64    pigz-2.5-1.amzn2023.0.3.x86_64
runc-1.1.14-1.amzn2023.0.1.x86_64

Complete!
[root@ip-172-31-3-247 ec2-user]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-3-247 ec2-user]# vi Dockerfile
[root@ip-172-31-3-247 ec2-user]# vi index.html
[root@ip-172-31-3-247 ec2-user]# cat index.html
<html>
  <h1>Welcome to ECR</h1>
</html>

[root@ip-172-31-3-247 ec2-user]# cat Dockerfile
FROM ubuntu
RUN apt update -y
RUN apt-get install apache2 -y
COPY index.html /var/www/html
EXPOSE 80
CMD ["apache2ctl", "-D", "FOREGROUND"]

[root@ip-172-31-3-247 ec2-user]# docker build -t img1:v1 .
[+] Building 3.7s (4/8)                                     docker:default
-> [internal] load build definition from Dockerfile        0.0s
-> => transferring dockerfile: 236B                        0.0s
-> [internal] load metadata for docker.io/library/ubuntu:latest 2.2s
-> [internal] load .dockerignore                          0.0s
-> => transferring context: 2B                               0.0s
-> [1/4] FROM docker.io/library/ubuntu:latest@sha256:80dd3c3b9c6ceb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734ab 1.4s
-> => resolve docker.io/library/ubuntu:latest@sha256:80dd3c3b9c6ceb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734ab 0.0s
-> => sha256:80dd3c3b9c6ceb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734ab 6.69kB / 6.69kB 0.0s
-> => sha256:6e75a10070b0fcb0ead763c5118a369bc7cc30dfc1b0749c491bbb21f15c3c7 424B / 424B 0.0s
-> => sha256:b1d9df8ab81559494794e522b380878cf9ba82d4c1fb67293bcf931c3aa69ae4 2.30kB / 2.30kB 0.0s
-> => sha256:de44b265507ae44b212defcb50694d666f136b35c1090d9709068bc861bb2d64 29.75MB / 29.75MB 0.6s
-> => extracting sha256:de44b265507ae44b212defcb50694d666f136b35c1090d9709068bc861bb2d64 0.8s
-> [internal] load build context                          0.0s
-> => transferring context: 139B                             0.0s
```

--> docker images

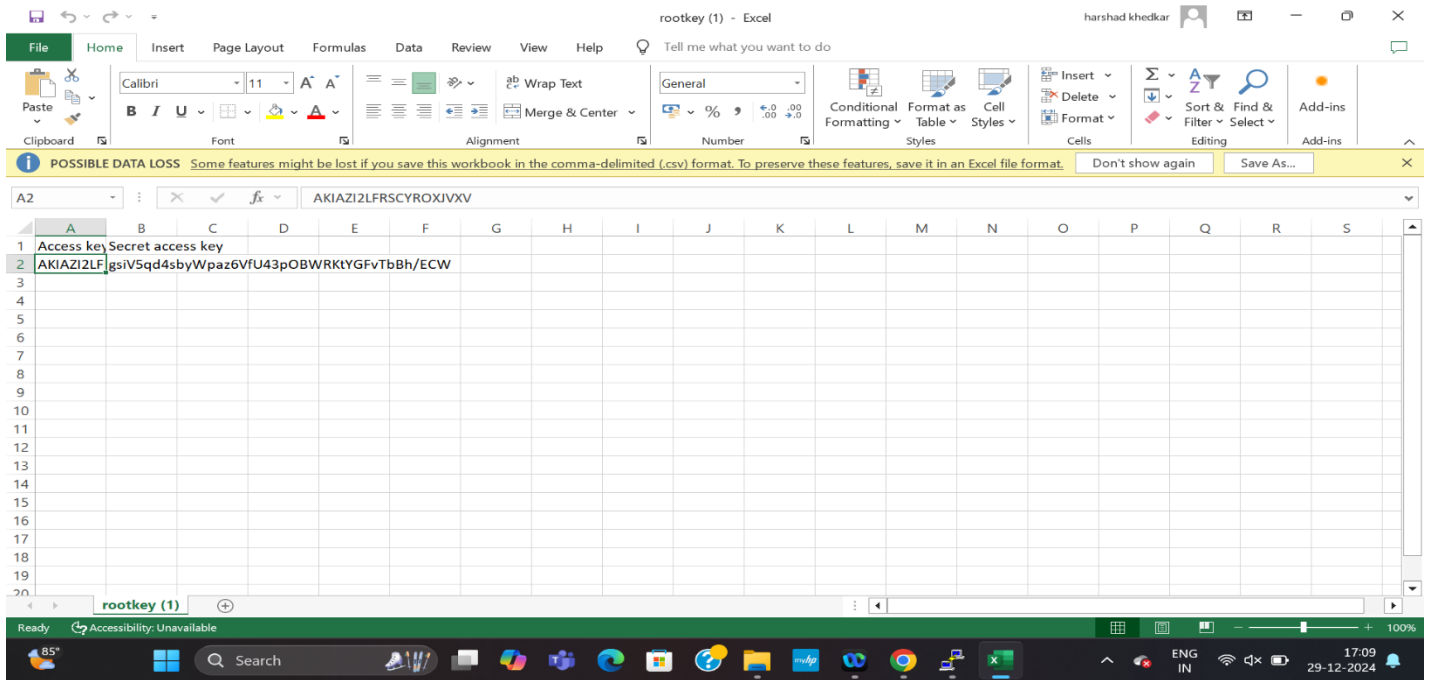
```
root@ip-172-31-3-247:/home/ec2-user
[root@ip-172-31-3-247 ec2-user]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-3-247 ec2-user]# vi Dockerfile
[root@ip-172-31-3-247 ec2-user]# vi index.html
[root@ip-172-31-3-247 ec2-user]# cat index.html
<html>
  <h1>Welcome to ECR</h1>
</html>

[root@ip-172-31-3-247 ec2-user]# cat Dockerfile
FROM ubuntu
RUN apt update -y
RUN apt-get install apache2 -y
COPY index.html /var/www/html
EXPOSE 80
CMD ["apache2ctl", "-D", "FOREGROUND"]

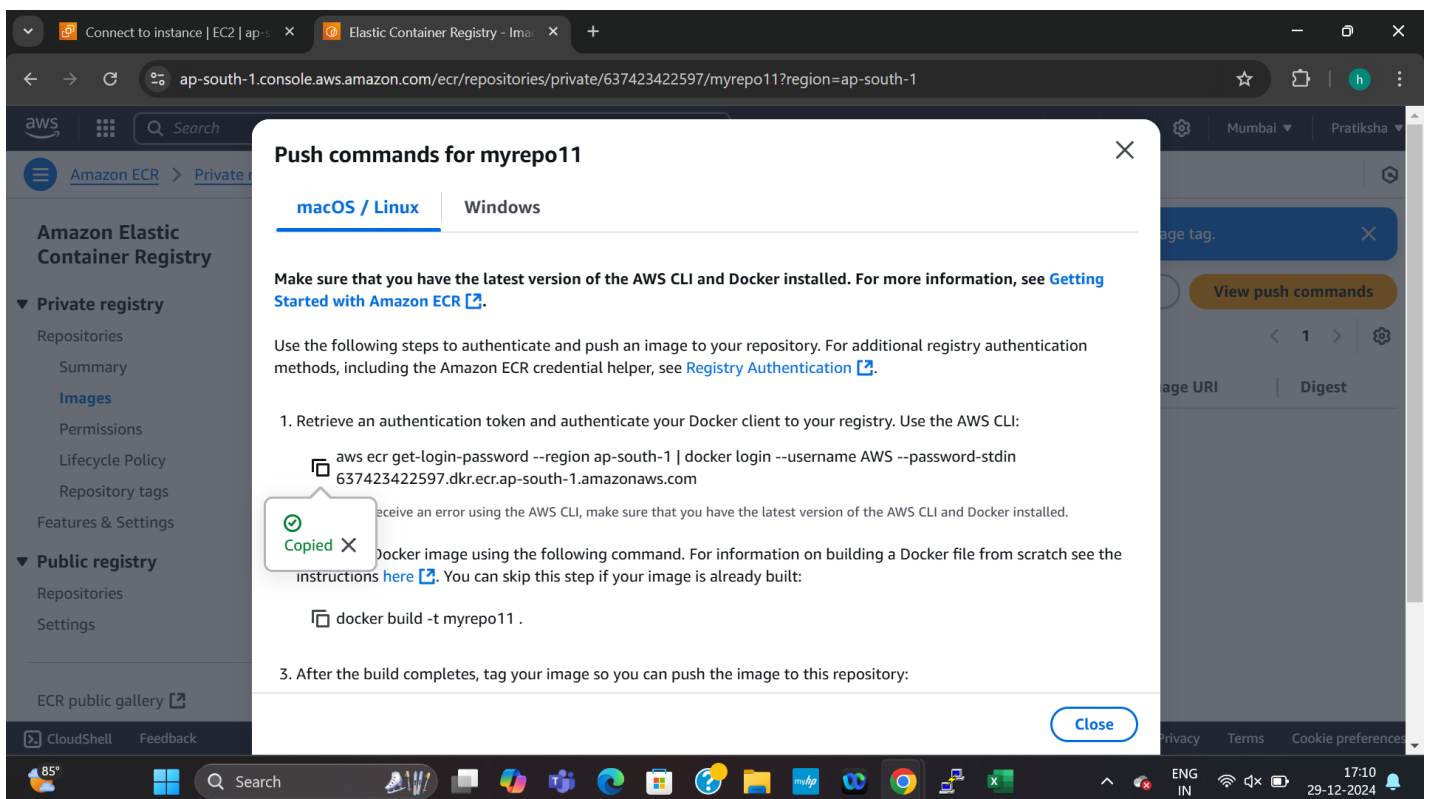
[root@ip-172-31-3-247 ec2-user]# docker build -t img1:v1 .
[+] Building 26.8s (9/9) FINISHED                             docker:default
-> [internal] load build definition from Dockerfile        0.0s
-> => transferring dockerfile: 236B                        0.0s
-> [internal] load metadata for docker.io/library/ubuntu:latest 2.2s
-> [internal] load .dockerignore                          0.0s
-> => transferring context: 2B                               0.0s
-> [1/4] FROM docker.io/library/ubuntu:latest@sha256:80dd3c3b9c6ceb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734ab 2.2s
-> => resolve docker.io/library/ubuntu:latest@sha256:80dd3c3b9c6ceb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734ab 0.0s
-> => sha256:80dd3c3b9c6ceb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734ab 6.69kB / 6.69kB 0.0s
-> => sha256:6e75a10070b0fcb0ead763c5118a369bc7cc30dfc1b0749c491bbb21f15c3c7 424B / 424B 0.0s
-> => sha256:b1d9df8ab81559494794e522b380878cf9ba82d4c1fb67293bcf931c3aa69ae4 2.30kB / 2.30kB 0.0s
-> => sha256:de44b265507ae44b212defcb50694d666f136b35c1090d9709068bc861bb2d64 29.75MB / 29.75MB 0.6s
-> => extracting sha256:de44b265507ae44b212defcb50694d666f136b35c1090d9709068bc861bb2d64 1.5s
-> [internal] load build context                          0.0s
-> => transferring context: 139B                             0.0s
-> [2/4] RUN apt update -y                                6.7s
-> [3/4] RUN apt-get install apache2 -y                   13.7s
-> [4/4] COPY index.html /var/www/html                    0.1s
-> exporting to image                                    1.8s
-> => exporting layers                                       1.8s
-> => writing image sha256:715975a90057cddb1040f288ad37a3f06dbcf946fd260dd5e3f77e47aa2a70c 0.0s
-> => naming to docker.io/library/img1:v1                  0.0s
[root@ip-172-31-3-247 ec2-user]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
img1          v1        715975a90057  13 seconds ago  229MB
[root@ip-172-31-3-247 ec2-user]#
```

--> aws configure

--> paste access key --> enter --> paste secret access key --> enter --> enter --> enter-->



--> go to ecr repo--> view push commands--> copy first command and paste as it is in the putty-->



--> skip second command--> edit third and fourth command and paste it in putty (Edit image name and tag name only)

```
root@ip-172-31-3-247:/home/ec2-user
-> [internal] load metadata for docker.io/library/ubuntu:latest
-> [internal] load .dockerignore
-> => transferring context: 2B
-> [1/4] FROM docker.io/library/ubuntu:latest@sha256:80dd3c3b9c6cecb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734ab
-> => resolve docker.io/library/ubuntu:latest@sha256:80dd3c3b9c6cecb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734ab
-> => sha256:80dd3c3b9c6cecb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734ab 6.69kB / 6.69kB
-> => sha256:6e75a10070b0fcb0bead763c5118a369bc7cc30dfc1b0749c491bbb21f15c3c7 424B / 424B
-> => sha256:b1d9df8ab81559494794e522b380878cf9ba82d4c1fb67293bcf931c3aa69ae4 2.30kB / 2.30kB
-> => sha256:de44b265507ae44b212defcb50694d666f136b35c1090d9709068bc861bb2d64 29.75MB / 29.75MB
-> => extracting sha256:de44b265507ae44b212defcb50694d666f136b35c1090d9709068bc861bb2d64
-> [internal] load build context
-> => transferring context: 139B
-> [2/4] RUN apt update -y
-> [3/4] RUN apt-get install apache2 -y
-> [4/4] COPY index.html /var/www/html
-> exporting to image
-> => exporting layers
-> => writing image sha256:715975a90057cddb1040f288ad37a3f06dbcf946fd260dd5e3f77e47aa2a70c
-> => naming to docker.io/library/img1:v1

[root@ip-172-31-3-247 ec2-user]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
img1 v1 715975a90057 13 seconds ago 229MB

[root@ip-172-31-3-247 ec2-user]# aws configure
AWS Access Key ID [None]: AKIAZ12LERSQYXROXJVVX
AWS Secret Access Key [None]: gsiV5qd4sbyWpaz6VFU43pOBWRKtYGFvTbBh/ECW
Default region name [None]:
Default output format [None]:

[root@ip-172-31-3-247 ec2-user]#
[root@ip-172-31-3-247 ec2-user]# aws ecr get-login-password --region ap-south-1 | docker login --username AWS --password-stdin 637423422597.dkr.ecr.ap-south-1.amazonaws.com
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[root@ip-172-31-3-247 ec2-user]# docker tag img1:v1 637423422597.dkr.ecr.ap-south-1.amazonaws.com/myrepo11:v1
[root@ip-172-31-3-247 ec2-user]# docker push 637423422597.dkr.ecr.ap-south-1.amazonaws.com/myrepo11:v1
The push refers to repository [637423422597.dkr.ecr.ap-south-1.amazonaws.com/myrepo11]
681e1057e708: Pushed
aacc05a27c1c: Pushed
8f391455f10a: Pushed
687d50f2f6a6: Pushed
v1: digest: sha256:0ba05f82bc0ba8a5c30c541474bbce2ea588b66c5afalacbb3e407636781c9c1 size: 1160
[root@ip-172-31-3-247 ec2-user]#
```

Img:

Connect to instance | EC2 | ap- | Elastic Container Registry - Ima | +

ap-south-1.console.aws.amazon.com/ecr/repositories/private/637423422597/myrepo11?region=ap-south-1

aws Search [Alt+S]

Mumbai Pratiksha

Amazon ECR > Private registry > Repositories > myrepo11

Amazon Elastic Container Registry

Private registry

Repositories

Summary

Images

Permissions

Lifecycle Policy

Repository tags

Features & Settings

Public registry

Repositories

Settings

ECR public gallery

Image scan overview, status, and full vulnerabilities has moved to the Image detail page. To access, click an image tag.

Images (1)

Search artifacts

1

	Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest
	v1	Image	December 29, 2024, 17:15:31 (UTC+05.5)	97.29	Copy URI	sha256:0ba05f8...

View push commands

CloudShell Feedback

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17:16 29-12-2024

