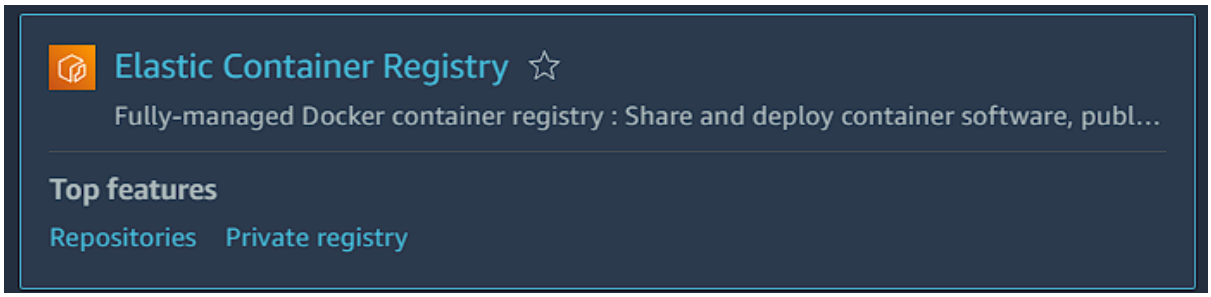
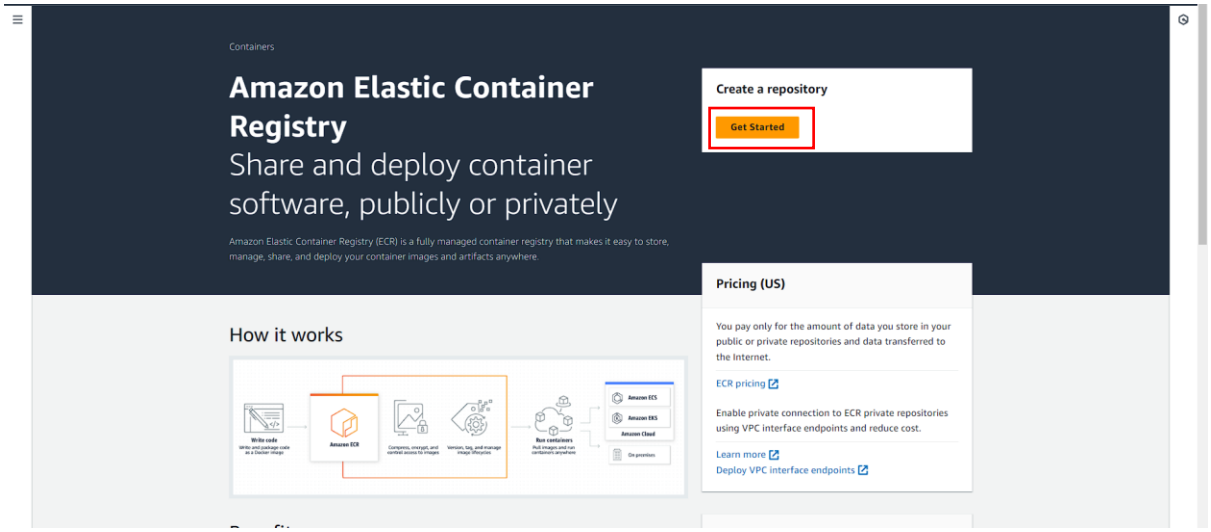
😊 Elastic Container Registry

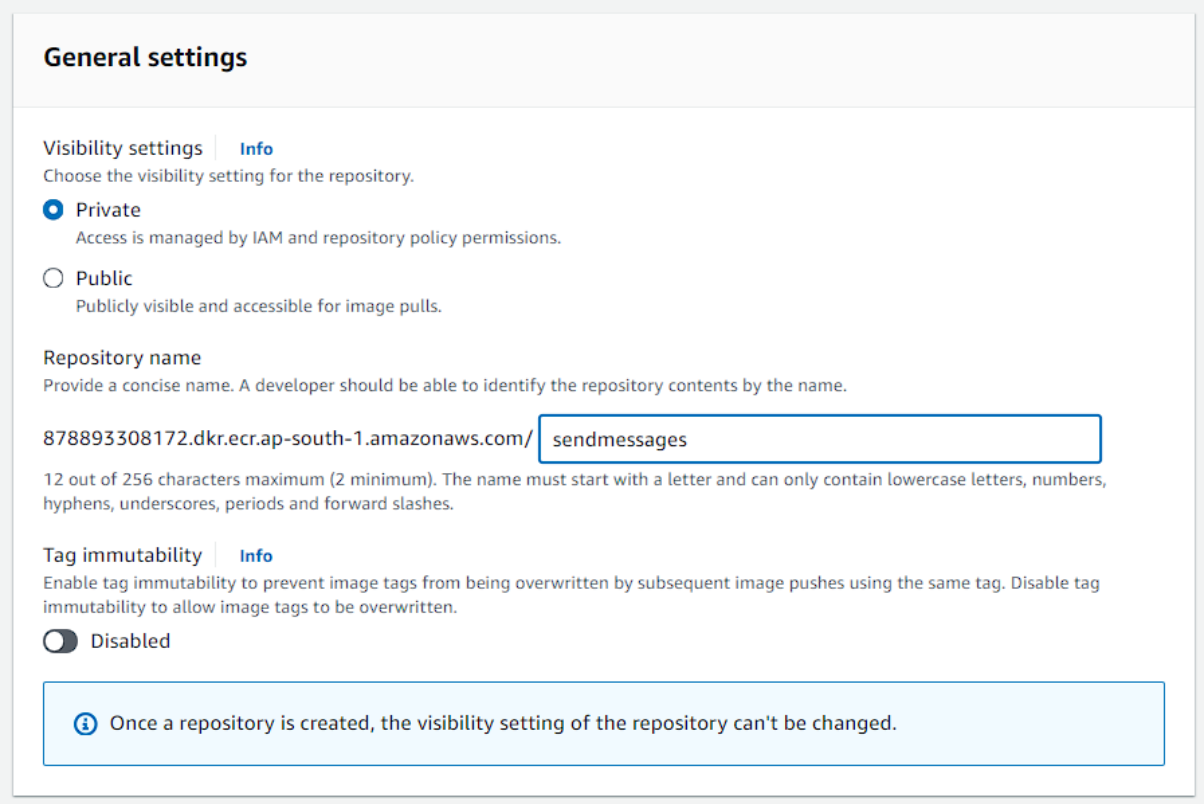
1. In this lab you are going to learn about AWS ECR service hands on.
2. The prerequisites used in this lab are from the previous lab.
3. For that navigate to ECR. Choose this service accordingly.
4. Here you can create your elastic container registry and then you can tag and push your image onto the registry itself.



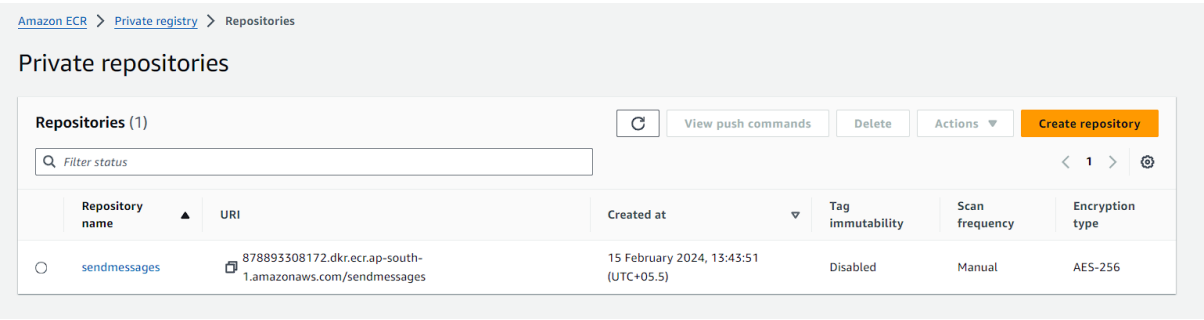
5. Now on the dashboard of ECR click on get started.



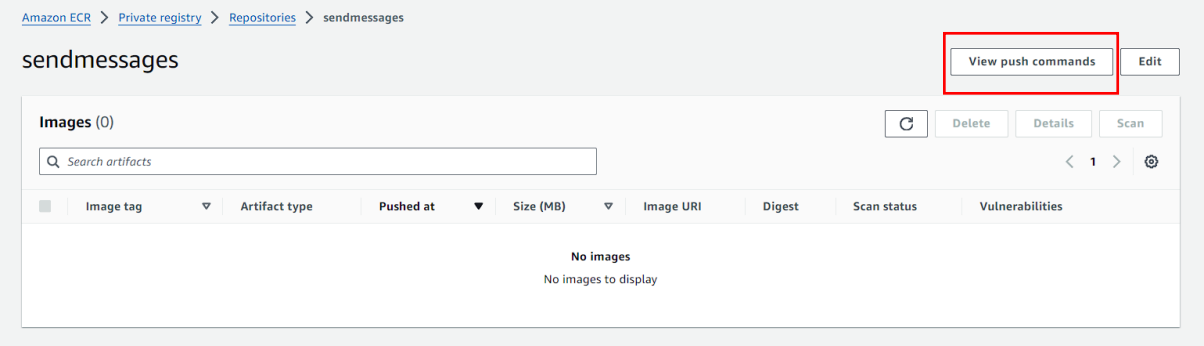
6. Let me give the name of send messages because I have the same image name on my EC2 instance, so I am trying to now create a central repository in AWS that can be used for storing that image.
7. Then just scroll down and create the repository.



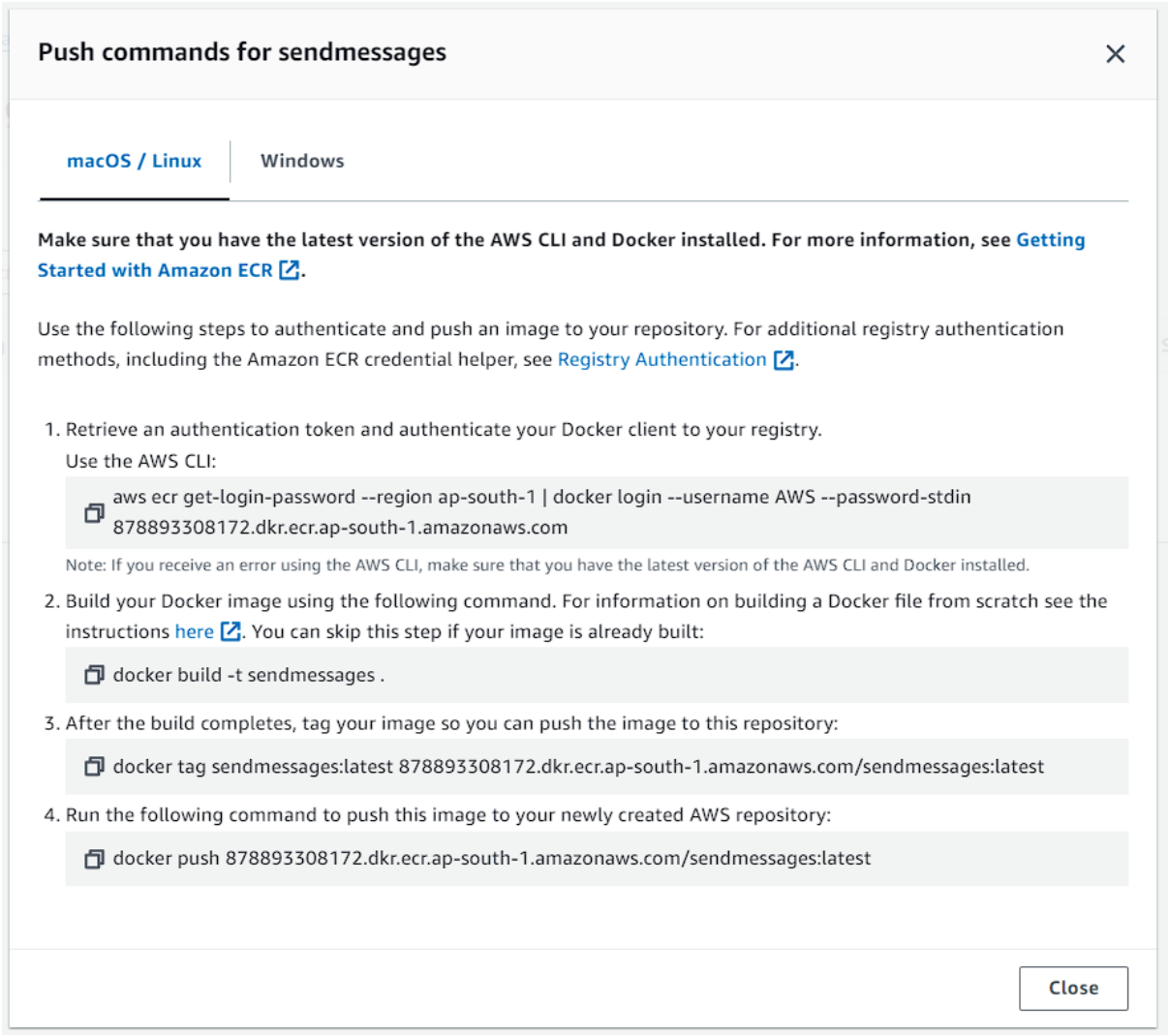
8. Now open your repository.



9. Here you need to click on View push commands.

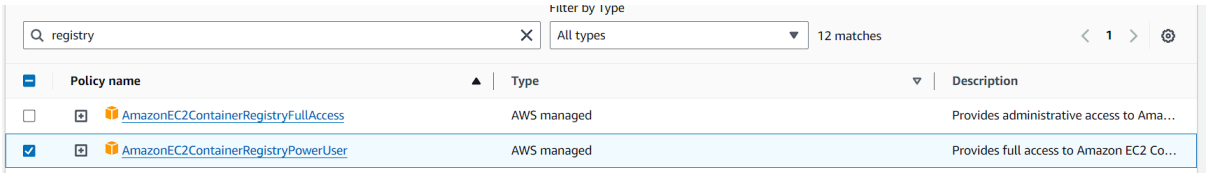


10. And you will these commands which you need to run in your EC2 instance.



11. First and foremost, you need to install AWS CLI on your instance. For that you need to run this command.

    sudo apt-get install awscli
12. Once this is done now you need to copy the command from ECR and paste them onto your instance.
13. But before that you need to add permission to your IAM role which you have assigned to your instance, this will allow that command to get executed perfectly.
14. Now navigate to IAM role in another tab. Add this policy to your role. Then go back to you instance and run the commands.



15. Once you will run the command you will get a message which says login succeeded.
16. Remember to add sudo before docker in the command.

```
ubuntu@ip-172-31-0-26:~$ aws ecr get-login-password --region ap-south-1 | sudo docker login --username AWS --password-stdin 878893308172.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
ubuntu@ip-172-31-0-26:~$
```

17. You are not need to copy the second command because it only says to build the docker but you have already built the docker in the previous lab.
18. Now just run command number 3 and 4 one by one and remember to add sudo before docker else it won't work.

```
ubuntu@ip-172-31-0-26:~$ sudo docker tag sendmessages:latest 878893308172.dkr.ecr.ap-south-1.amazonaws.com/sendmessages:latest
ubuntu@ip-172-31-0-26:~$ sudo docker push 878893308172.dkr.ecr.ap-south-1.amazonaws.com/sendmessages:latest
The push refers to repository [878893308172.dkr.ecr.ap-south-1.amazonaws.com/sendmessages]
10699c4925a6: Pushed
bd70701711a6: Pushed
5bb6a06c6676: Pushed
76049aadf39b: Pushed
a54d0098e057: Pushed
0baf2321956a: Pushed
latest: digest: sha256:b323731f3b324814d2c8f633859609b6c633cc91e2d9907b08b6abf057182e80 size: 1576
ubuntu@ip-172-31-0-26:~$
```

19. Now go back to ECR and close your push command and refresh the page. You will see your image there.