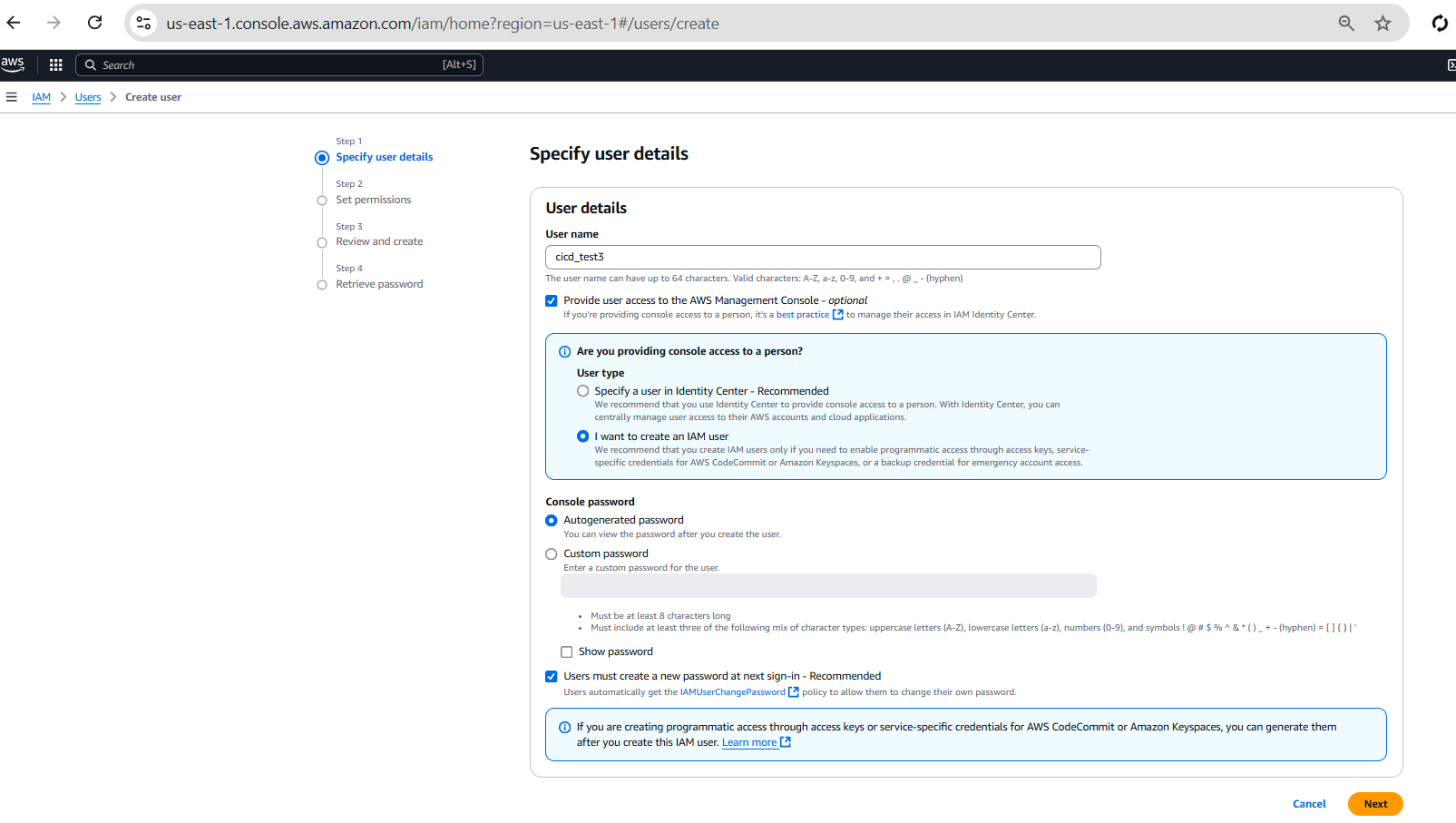
1. **Create an IAM user**



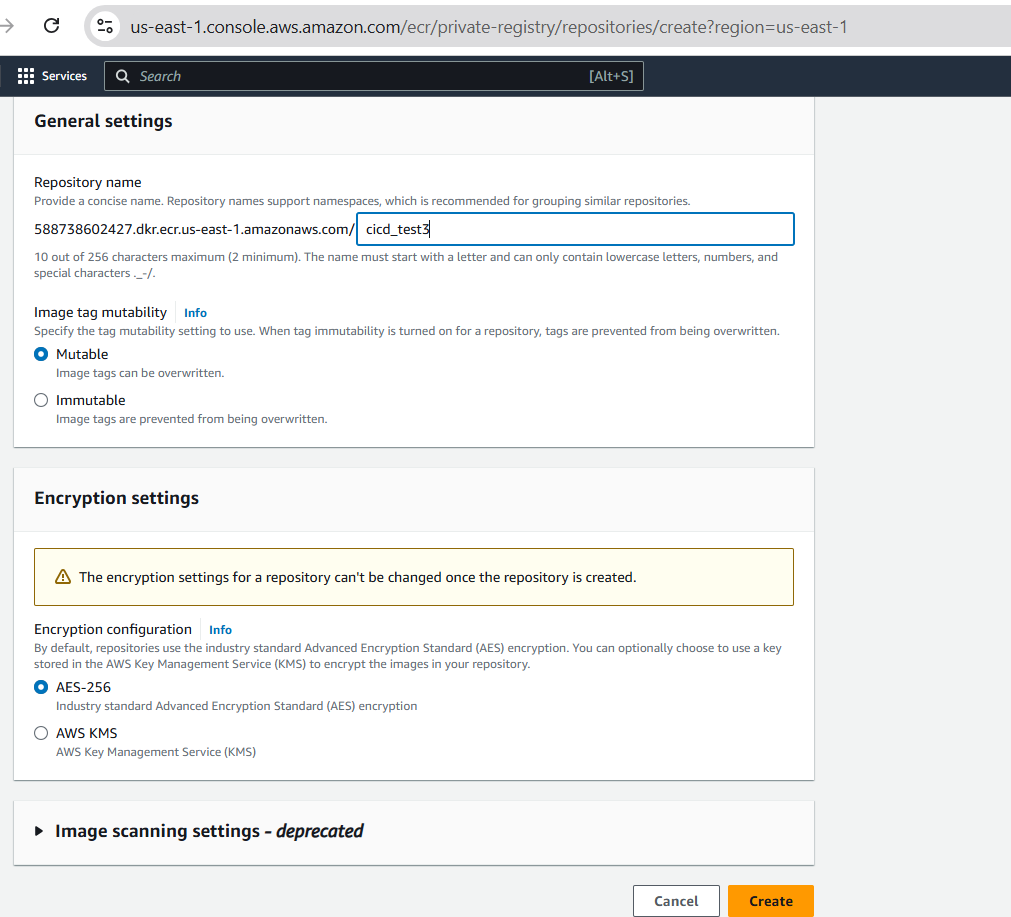
Attached policies => [AmazonEC2ContainerRegistryFullAccess](https://us-east-1.console.aws.amazon.com/iam/home#/policies/details/arn%3Aaws%3Aiam%3A%3Aaws%3Apolicy%2FAmazonEC2ContainerRegistryFullAccess) and [AmazonEC2FullAccess](https://us-east-1.console.aws.amazon.com/iam/home#/policies/details/arn%3Aaws%3Aiam%3A%3Aaws%3Apolicy%2FAmazonEC2FullAccess) => Create User

Now go back to user list => cicd\_test3 => security credentials => Create access key=> Command Line Interface (CLI)=>create access key => copy Access key and Secret access key and save locally.

Access key: AKIAYSE4OEW53AGSD7NN

Secret Access key: dcFKQTLEn+0AX1YEL0a0jPMPaDnAFbAxlqHGAGTn

**Step 2: create an ECR repository**

****

Now go back to repository and copy the URI of your repository:

URI: [588738602427.dkr.ecr.us-east-1.amazonaws.com/cicd\_test3\](http://588738602427.dkr.ecr.us-east-1.amazonaws.com/cicd_test3%5C)

**Step 3: Create an EC2 instance**

EC2 Instance => launch instance => fill below details and launch instance

Name: cicd\_test3

Os : Ubuntu

Key pair: select your key pair (if not created then create it)

Click => Allow HTTPS traffic from the internet

Click => Allow HTTP traffic from the internet

**Step 4: Open CLI of EC2 instance**

Go to EC2 instance which you created => Click on CONNECT button => click connect again => Once you are login to CLI run below command

sudo apt-get update -y

sudo apt-get upgrade

curl -fsSL https://get.docker.com -o get-docker.sh

sudo bash get-docker.sh

docker --version

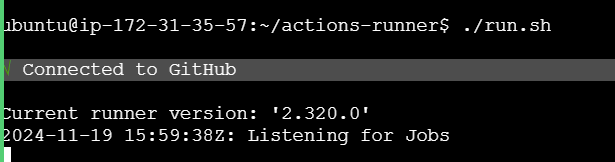
sudo usermod -aG docker ubuntu

newgrp docker

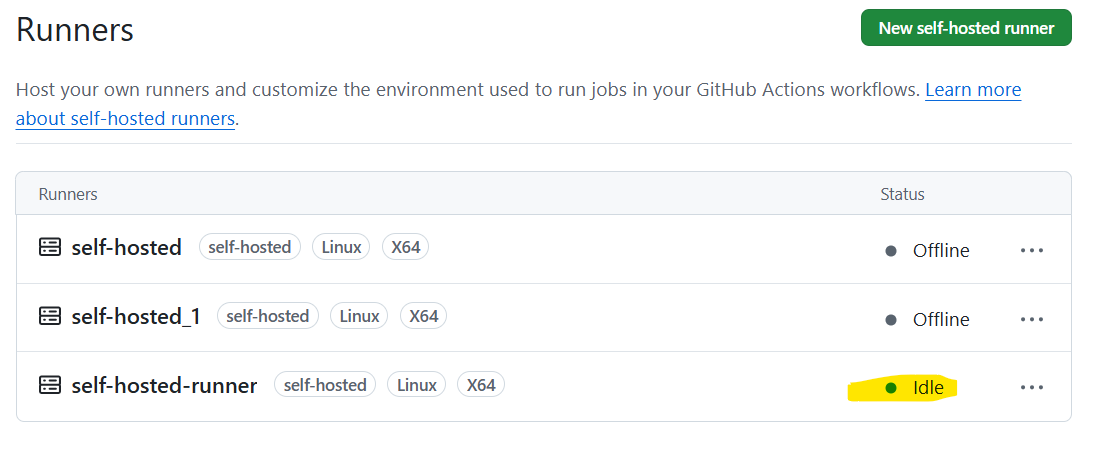
**Step 5: Go to github and create RUNNER**

Github Repo => Settings => actions => runners => create new self-hosted runner => runner image select LINUX => After that run all commands mentioned in **Download** and **configure section** on EC2 instance CLI

Now after running command => ./run.sh, we expect below output (which will confirm github connection)



Now go back to runner and verify if runner is created as below and status is IDLE (runner is listening for job)



**Step 6: Create github secrets with AWS detail**

Git repo => settings => secrets and vairianble => actions => Repository secrets => new repository secrets => create below secrets there

AWS\_ACCESS\_KEY\_ID => from step 1

AWS\_SECRET\_ACCESS\_KEY => from step 1

AWS\_ECR\_LOGIN\_URI => from step 2 => but make sure to put first part of URI which is [588738602427.dkr.ecr.us-east-1.amazonaws.com](http://588738602427.dkr.ecr.us-east-1.amazonaws.com/cicd_test3%5C)

ECR\_REPOSITORY\_NAME=> from step 2 => but make sure to put second p[art of URI which is [cicd\_test3](http://588738602427.dkr.ecr.us-east-1.amazonaws.com/cicd_test3%5C)

AWS\_REGION => from step 3 => go to EC2 instance => look region in URL e.g us-east-1

Now just push your changes to github and it will start the runner.