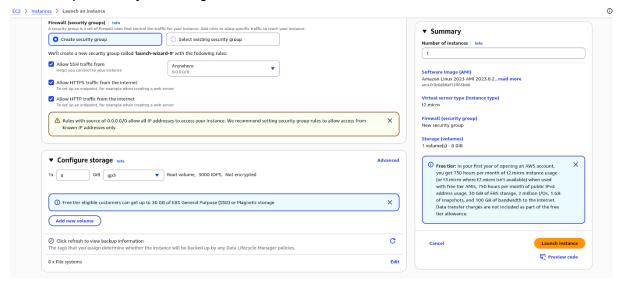
TASK 1- Automate Code Deployment Using CI/CD Pipeline(GitHub Actions)

Step 1- Launched a AWS Instance(t2-free tier) and setup the security configurations, also taken the private key for taking SSH-access



Step2- installed Docker, and started the service

🔟 Update your system

sudo apt update
sudo apt upgrade -y

Install required packages

sudo apt install apt-transport-https ca-certificates curl
software-properties-common -y

These are needed to allow apt to use HTTPS repositories.

Add Docker's official GPG key

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg
--dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg

Add the Docker repository

```
echo "deb [arch=$(dpkg --print-architecture)
signed-by=/usr/share/keyrings/docker-archive-keyring.gpg]
https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
| sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

Install Docker

sudo apt update
sudo apt install docker-ce docker-ce-cli containerd.io -y

Check version:

docker --version

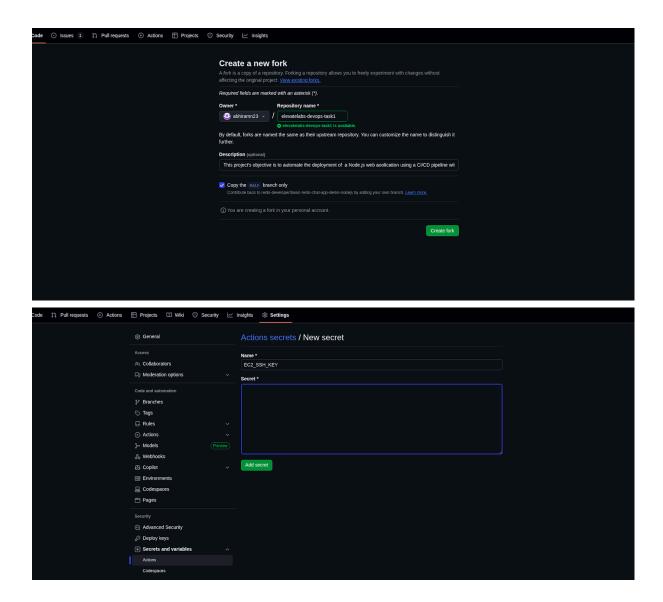
Start Docker service

sudo systemctl start docker
sudo systemctl enable docker

Check status:

sudo systemctl status docker

Step3- Forked a NodeJS webapplication (in GItHub)



Added secrets, like ec2 instance public ip, hostname, ssh key value,docker username and docker token.

Step3-

Added .github/workflows/main.yaml

For automating the push, build and notification tasks

Step4- Go to GitHub Actions for checking the progress, once the workflow completes successfully open the EC2-instance.s public IP to see the web application is working propely

