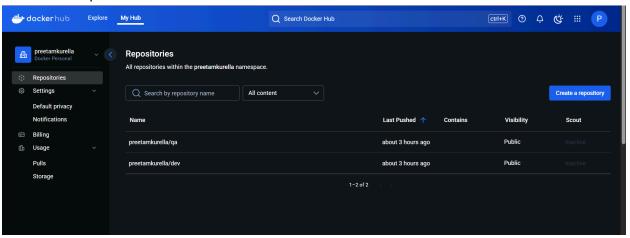
REPORT

Mar 18, 2025 P. Kurella

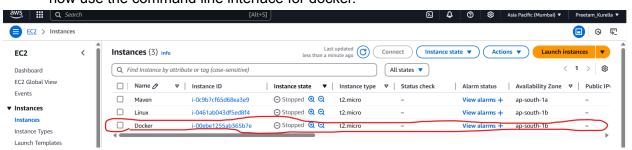
DOCKER 101.

DOCKET INSTALLATION & USAGE:

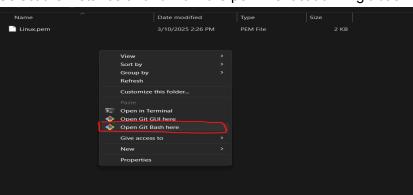
- Go to docker hub.com and create an account for yourself.
- Now open the dashboard and leave it there.



• Open AWS and create an AWS Linux docker instance and using the git bash we can now use the command line interface for docker.



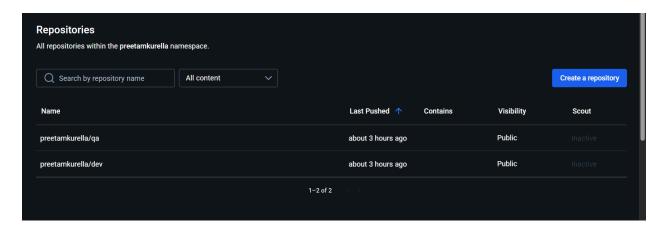
Select the instance and run it in the pem file location in git-bash



- Select the git bash option and the git bash command line will open.
- Copy the commands from the AWS instance to connect and run the two commands one after another.
 - o chmod 400 "Linux.pem"
 o ssh -i "Linux.pem"
 ec2-user@ec2-15-207-16-193.ap-south-1.compute.amazonaws.co
 m
- After entering the commands your interface will look like this.

- Now check if docker is installed in your environment or not.
- To check this type the command \$ docker --version.
- If the interface shows a docker version, then it indicates that a docker version is already installed on your device.
- If not then type this command \$ yum install -y docker.
- Now docker is installed.
- Now before checking the installed docker configuration, first start the docker service using the command \$ service docker start.
- Now use the command \$ ifconfig -a to see the configuration of the installed docker application.
- Use the \$ docker info command to know the info of the running instance, the type of os, home directory location, etc.

- The default home directory location for the docker application will be / var/lib/docker.
- To enter into the docker directory use the \$ cd /var/lib/docker command.
- Now go to the docker hub account in your browser, create two repositories, and name them dev and qa.
- They should look like this once they have been created.



- Now go to the bash and use the \$ 1s command to see the list of files in the docker file.
- It will show all the files in the current working directory.
- Use the \$ docker images or the \$ docker image Is command to check for images in the files.
- The parameters of the docker image will only show the headings of the structure as there are no images present in the current directory.
- The parameters will be:

REPO TAG IMAGE ID CREATED SIZE

- Use the \$ docker ps command to check for containers in the current directory.
- The parameters will be:

CONTAINER ID IMG COMMAND CREATED STATUS PORTS NAMES

- Use the \$ docker ps -a command to check all the running containers.
- To pull an image to the current directory we will pull an image from an online repository which is an official website.
- Let's pull the Nginx image from online.
- To do this use the \$ docker pull nginx command.
- Use the \$ docker images command to see the image ID and other attributes of the docker image we pulled.
- Use the \$ docker inspect <imageid> command to inspect the details of the docker image.
- Now we will clone the image to our repository. But before that, we need to login to our docker account in the command line.
- To do that, use the \$ docker login command to log into the account by entering the username and password.

- Now use the \$ docker run -itd --name <your name> -p cid:apn <imageID> to create a docker container in your repository.
- Now use the \$ docker ps command to check if the container is created.
- Now use the \$ docker tag nginx:latest <username/repo>:<filename> to add the container to the staging area to your repository.
- Now use the \$ docker push <username/repo>:<filename> to push the container to the docker repository.