CSE322 Cloud Computing

Lab-4.2.2025

Name: Sree Vardhan Reddy

Roll no: 2022BCS0056

STARTING INSTANCE

DOCKER INSTALLATION

Task 1: Explore atleast 8 docker commands after installing docker container on AWS EC2 instance.

1. Helloworld in docker

```
Last login: Fri Feb  7 15:56:01 2025 from 13.239.158.5
ubuntu@ip-172-31-20-247:~$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
e6590344b1a5: Pull complete
Digest: sha256:d715f14f9eca81473d9112df50457893aa4d099adeb4729f679006bf5ea12407
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/
ubuntu@ip-172-31-20-247:~$
```

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2. ps command : gives the running container names.

```
ubuntu@ip-172-31-20-247:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
ubuntu@ip-172-31-20-247:~$
```

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```
ubuntu@ip-172-31-20-247:~$ docker ps -a
CONTAINER ID   IMAGE         COMMAND    CREATED        STATUS                   PORTS     NAMES
c845714a43cb   hello-world   "/hello"   7 minutes ago  Exited (0) 7 minutes ago           magical_saha
ubuntu@ip-172-31-20-247:~$
```

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3.docker images: gives the image names that are found

```
ubuntu@ip-172-31-20-247:~$ docker images
REPOSITORY     TAG       IMAGE ID       CREATED       SIZE
hello-world    latest    74cc54e27dc4   2 weeks ago   10.1kB
ubuntu@ip-172-31-20-247:~$
```

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4. docker pull nginx

```
ubuntu@ip-172-31-20-247:~$ docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
c29f5b76f736: Pull complete
e19db8451adb: Pull complete
24ff42a0d907: Pull complete
c558df217949: Pull complete
976e8f6b25dd: Pull complete
6c78b0ba1a32: Pull complete
84cade77a831: Pull complete
Digest: sha256:91734281c0ebfc6f1aea979cffeed5079cfe786228a71cc6f1f46a228cde6e34
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
ubuntu@ip-172-31-20-247:~$
```

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5. docker rmi nginx

```
ubuntu@ip-172-31-20-247:~$ docker rmi nginx
Untagged: nginx:latest
Untagged: nginx@sha256:91734281c0ebfc6f1aea979cffeed5079cfe786228a71cc6f1f46a228cde6e34
Deleted: sha256:97662d24417b316f60607afbca9f226a2ba58f09d642f27b8e197a89859ddc8e
Deleted: sha256:370743f4a662caa24478adaea2f35df5e064b030d5ae991f99d559cf80484103
Deleted: sha256:d5d7a9136c37528de696c22750013876035584c16bfce28f4bc5f6d232af6803
Deleted: sha256:d4f33622e2347fa63ba6c3e6adbd9bd53ed3aa46d28bbc8040a06b1d5965b241
Deleted: sha256:0712905f64a4cd608351d3de55b34debca1e7f2b43d8105c49df767b84ce6064
Deleted: sha256:870227b568adc7ac6b9fa4cb7758622126b793a6b70826266e8eda0bf7e071f2
Deleted: sha256:43379c4e8397d2c249d364065a734b0be1e2f4a546c77451902156e66383efb2
Deleted: sha256:7914c8f600f532b7adbd0b003888e3aa921687d62dbe2f1f829d0ab6234a158a
ubuntu@ip-172-31-20-247:~$
```

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6.docker container prune

```
ubuntu@ip-172-31-20-247:~$ docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
c845714a43cbc034273f21c71692f3901a397f93ea28cfc7cd4b9b6fbf58eb73

Total reclaimed space: 0B
ubuntu@ip-172-31-20-247:~$
```

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7.docker run -it ubuntu bin/bash: It opens ubuntu terminal interactively

```
ubuntu@ip-172-31-20-247:~$ docker run -it ubuntu bin/bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
5a7813e071bf: Pull complete
Digest: sha256:72297848456d5d37d1262630108ab308d3e9ec7ed1c3286a32fe09856619a782
Status: Downloaded newer image for ubuntu:latest
root@1d66ce8e5c08:/#
```

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8. docker restart: docker stop

```
ubuntu@ip-172-31-20-247:~$ docker restart 1d66ce8e5c08
1d66ce8e5c08
ubuntu@ip-172-31-20-247:~$ docker stop 1d66ce8e5c08
1d66ce8e5c08
ubuntu@ip-172-31-20-247:~$
```

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Task 2: Run two containers that run nodejs and golang-based hello-world services.

Creating a directory with two files in it

Created a folder named node

Created two files server.js and Dockerfile

```
ubuntu@ip-172-31-20-247:~$ mkdir nodejs-app
ubuntu@ip-172-31-20-247:~$ cd nodejs-app
ubuntu@ip-172-31-20-247:~/nodejs-app$ nano server.js
ubuntu@ip-172-31-20-247:~/nodejs-app$ nano server.js
ubuntu@ip-172-31-20-247:~/nodejs-app$ nano dockerfile
```

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-> server.js

```
const http = require('http');

const PORT = 3000;

const server = http.createServer((req, res) => {
    res.writeHead(200, { 'Content-Type': 'text/plain' });
    res.end('Hello from Node.js\n');
});

server.listen(PORT, () => {
    console.log(`Server running at http://localhost:${PORT}`);
});
```

->Dockerfile

```
FROM node:latest
WORKDIR /app
COPY server.js.
CMD ["node","server.js"]
```

```
^G Help         ^O Write Out    ^W Where Is     ^K Cut        ^T ExecuteRead 4^C Lc
^X ExitMark   M^R Read File     ^\ Replaces     ^U Paste      ^J Justify      ^/ Gc
-6 Copy
Q  Where Was  M-W Next
```

docker run -d -p 3000:3000 --name nodejs-container nodejs-hello

```
ubuntu@ip-172-31-20-247:~/nodejs-app$ docker build -t nodejs-hello .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  3.072kB
Step 1/5 : FROM node:18
18: Pulling from library/node
a492eee5e559: Pull complete
32b550be6cb6: Pull complete
35af2a7690f2: Pull complete
7576b00d9bb1: Pull complete
d55bd4ee018b: Pull complete
699c77750bbf: Pull complete
a90d998fbd35: Pull complete
0d7872d72f6b: Pull complete
Digest: sha256:f12d34408955b2081f82078e8f96c3299ca0f38d11e76086cb9b9b1b669977e4
Status: Downloaded newer image for node:18
 ---> 9cc56e2c5141
Step 2/5 : WORKDIR /app
 ---> Running in 9d31884aaefb
 ---> Removed intermediate container 9d31884aaefb
 ---> 8a92cd60cfd3
Step 3/5 : COPY server.js .
 ---> 1aa35465413f
Step 4/5 : EXPOSE 3000
 ---> Running in a6a516767cd4
 ---> Removed intermediate container a6a516767cd4
 ---> 99721ebd4bf0
Step 5/5 : CMD ["node", "server.js"]
 ---> Running in 536a8d5a6bbf
 ---> Removed intermediate container 536a8d5a6bbf
 ---> eb7621fcd103
Successfully built eb7621fcd103
Successfully tagged nodejs-hello:latest
ubuntu@ip-172-31-20-247:~/nodejs-app$
```

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Start Sever

```
ubuntu@ip-172-31-20-247:~/nodejs-app$ docker logs 333df66d6716
Server running at http://localhost:3000
ubuntu@ip-172-31-20-247:~/nodejs-app$
```

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Visit Site

```
ubuntu@ip-172-31-20-247:~/nodejs-app$ curl http://0.0.0.0:3000
Hello from Node.js
ubuntu@ip-172-31-20-247:~/nodejs-app$
```

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For Go-lang

Creating two files:

```
ubuntu@ip-172-31-20-247:~$ mkdir golang
ubuntu@ip-172-31-20-247:~$ cd golang
ubuntu@ip-172-31-20-247:~/golang$ nano hello.go
ubuntu@ip-172-31-20-247:~/golang$ nano Dockerfile
```

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Go code:

```
  GNU nano 7.2                                                    main.go
package main

import (
        "fmt"
        "net/http"
)

func handler(w http.ResponseWriter, r *http.Request) {
        fmt.Fprintln(w, "Hello from Golang!")
}

func main() {
        http.HandleFunc("/", handler)
        fmt.Println("Server running on port 8080...")
        http.ListenAndServe(":8080", nil)
}



                                                      [ Read 16 lines ]
^G Help          ^O Write Out    ^W Where Is     ^K Cut          ^T Execute      ^C Location     M-U Undo
^X Exit          ^R Read File    ^\ Replace      ^U Paste        ^J Justify      ^/ Go To Line   M-E Redo
```

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Dockerfile code:

```
FROM golang:1.20 AS builder
WORKDIR /app
COPY main.go .
RUN go build -o hello-world main.go

FROM alpine:latest
WORKDIR /app
COPY --from=builder /app/hello-world .
EXPOSE 8080
CMD ["./hello-world"]
```

[Read 11 lines]

```
^G Help        ^O Write Out    ^W Where Is    ^K Cut      ^T Execute    ^C Location      M-U Undo
^X Exit        ^R Read File    ^\ Replace     ^U Paste    ^J Justify    ^/ Go To Line    M-E Redo
```

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Build

```
ubuntu@ip-172-31-20-247:~/golang$ docker build -t golang-hello .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  3.072kB
Step 1/9 : FROM golang:1.20 AS builder
 ---> d5beeac3653f
Step 2/9 : WORKDIR /app
 ---> Using cache
 ---> 9e76ab0bcf13
Step 3/9 : COPY main.go .
 ---> cccdce4cc041
Step 4/9 : RUN go build -o hello-world main.go
 ---> Running in 3b805161f9c8
 ---> Removed intermediate container 3b805161f9c8
 ---> effa0276abde
Step 5/9 : FROM alpine:latest
latest: Pulling from library/alpine
1f3e46996e29: Pull complete
Digest: sha256:56fa17d2a7e7f168a043a2712e63aed1f8543aeafdcee47c58dcffe38ed51099
Status: Downloaded newer image for alpine:latest
 ---> b0c9d60fc5e3
Step 6/9 : WORKDIR /app
 ---> Running in b6b1a1dff2d1
 ---> Removed intermediate container b6b1a1dff2d1
 ---> ed5dc4dedcef
Step 7/9 : COPY --from=builder /app/hello-world .
 ---> f73655440250
Step 8/9 : EXPOSE 8080
 ---> Running in 310cc3ef9a0b
 ---> Removed intermediate container 310cc3ef9a0b
 ---> c60c621124b1
Step 9/9 : CMD ["./hello-world"]
 ---> Running in fb83fdc69f92
 ---> Removed intermediate container fb83fdc69f92
 ---> 0621dbabdfe1
Successfully built 0621dbabdfe1
Successfully tagged golang-hello:latest
ubuntu@ip-172-31-20-247:~/golang$
```

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Creating image and mapping port:

```
ubuntu@ip-172-31-20-247:~/golang-app$ docker run -d -p 8080:8080 --name golang-container golang-app
98b342687ee8897445a10d0fdcf891ac9d9fdaf7bed004f6cb25c5600a0e76dc
ubuntu@ip-172-31-20-247:~/golang-app$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED           STATUS                      PORTS                                       NAMES
98b342687ee8   golang-app     "./server"               8 seconds ago     Up 7 seconds                0.0.0.0:8080->8080/tcp, :::8080->8080/tcp   golang-container
333df66d6716   nodejs-hello   "docker-entrypoint.s…"   36 minutes ago    Up 36 minutes               0.0.0.0:3000->3000/tcp, :::3000->3000/tcp   nodejs-container
1d66ce8e5c08   ubuntu         "bin/bash"               About an hour ago Exited (137) About an hour ago                                          relaxed_perlman
ubuntu@ip-172-31-20-247:~/golang-app$ docker logs 98b342687ee8
Server running on port 8080...
ubuntu@ip-172-31-20-247:~/golang-app$ curl http://
```

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Hello from Go-lang:

```
ubuntu@ip-172-31-20-247:~/golang-app$ curl http://0.0.0.0:8080
Hello from Golang!
ubuntu@ip-172-31-20-247:~/golang-app$
```

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Task 3: List the state of running containers and remove all running docker images.

Docker images:

```
ubuntu@ip-172-31-20-247:~$  docker images
REPOSITORY                              TAG           IMAGE ID        CREATED          SIZE
golang-app                              latest        2f3c1c1d41d7    19 minutes ago   919MB
sreevardhan2022bcs0056/golang-app       2022bcs0056   2f3c1c1d41d7    19 minutes ago   919MB
golang-hello                            latest        0621dbabdfe1    43 minutes ago   14.5MB
<none>                                  <none>        effa0276abde    43 minutes ago   914MB
nodejs-hello                            latest        eb7621fcd103    55 minutes ago   1.09GB
sreevardhan2022bcs0056/nodejs-hello     2022bcs0056   eb7621fcd103    55 minutes ago   1.09GB
golang                                  latest        9dc5a72b2e89    2 days ago       838MB
ubuntu                                  latest        a04dc4851cbc    11 days ago      78.1MB
node                                    18            9cc56e2c5141    2 weeks ago      1.09GB
hello-world                             latest        74cc54e27dc4    2 weeks ago      10.1kB
alpine                                  latest        b0c9d60fc5e3    4 weeks ago      7.83MB
golang                                  1.20          d5beeac3653f    12 months ago    846MB
ubuntu@ip-172-31-20-247:~$
```

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Removing node image:

```
ubuntu@ip-172-31-20-247:~$ docker stop nodejs-container
nodejs-container
ubuntu@ip-172-31-20-247:~$ docker rm nodejs-container
nodejs-container
ubuntu@ip-172-31-20-247:~$ docker rmi nodejs-hello
Untagged: nodejs-hello:latest
ubuntu@ip-172-31-20-247:~$ docker ps
CONTAINER ID   IMAGE        COMMAND      CREATED          STATUS          PORTS                                              NAMES
98b342687ee8   golang-app   "./server"   21 minutes ago   Up 21 minutes   0.0.0.0:8080->8080/tcp, :::8080->8080/tcp          golang-container
ubuntu@ip-172-31-20-247:~$
```

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Removing Golang-app :

```
ubuntu@ip-172-31-20-247:~$ docker ps
CONTAINER ID   IMAGE        COMMAND     CREATED        STATUS         PORTS                                          NAMES
98b342687ee8   golang-app   "./server"  22 minutes ago Up 22 minutes  0.0.0.0:8080->8080/tcp, :::8080->8080/tcp     golang-container
ubuntu@ip-172-31-20-247:~$ docker stop golang-container
golang-container
ubuntu@ip-172-31-20-247:~$ docker rm golang-container
golang-container
ubuntu@ip-172-31-20-247:~$ docker rmi golang-app
Untagged: golang-app:latest
ubuntu@ip-172-31-20-247:~$ docker ps
CONTAINER ID   IMAGE      COMMAND     CREATED     STATUS      PORTS       NAMES
```

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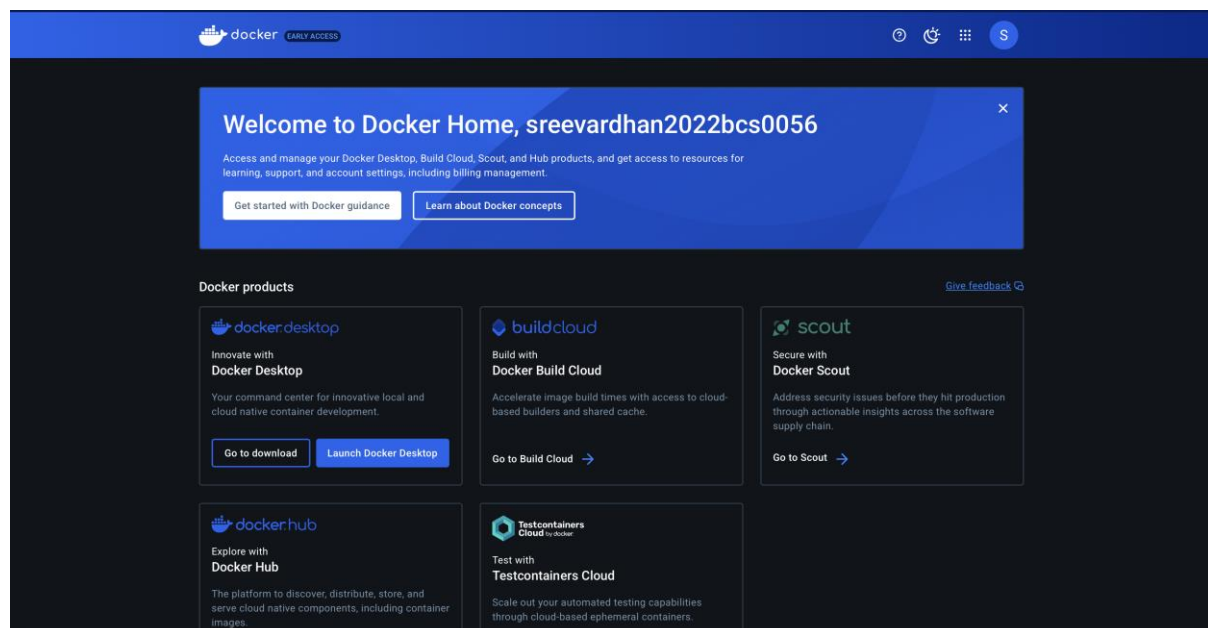PublicIPs: 3.26.53.233   PrivateIPs: 172.31.20.247

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Task 4: Create a dockerhub on your name and upload the newly created image

to the dockerhub. Use your rollnumber as the tag of the docker image.

Created the docker account

Docker login:

```
ubuntu@ip-172-31-20-247:~$ docker login
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a
Docker ID, head over to https://hub.docker.com/ to create one.
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants bett
er security and is required for organizations using SSO. Learn more at https://docs.docker.com/go/access-
tokens/

Username: sreevardhan2022bcs0056
Password:
WARNING! Your password will be stored unencrypted in /home/ubuntu/.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-172-31-20-247:~$
```

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Creating tags:

```
ubuntu@ip-172-31-20-247:~$ docker tag nodejs-hello sreevardhan2022bcs0056/nodejs-hello:2022bcs0056
ubuntu@ip-172-31-20-247:~$ docker tag golang-app sreevardhan2022bcs0056/golang-app:2022bcs0056
ubuntu@ip-172-31-20-247:~$
```

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PublicIPs: 3.26.53.233   PrivateIPs: 172.31.20.247

Docker images:

```
ubuntu@ip-172-31-20-247:~$ docker images
REPOSITORY      TAG       IMAGE ID       CREATED         SIZE
golang-app      latest    2f3c1c1d41d7   11 minutes ago   919MB
golang-hello    latest    0621dbabdfe1   35 minutes ago   14.5MB
<none>          <none>    effa0276abde   35 minutes ago   914MB
nodejs-hello    latest    eb7621fcd103   47 minutes ago   1.09GB
golang          latest    9dc5a72b2e89   2 days ago       838MB
ubuntu          latest    a04dc4851cbc   11 days ago      78.1MB
node            18        9cc56e2c5141   2 weeks ago      1.09GB
hello-world     latest    74cc54e27dc4   2 weeks ago      10.1kB
alpine          latest    b0c9d60fc5e3   4 weeks ago      7.83MB
golang          1.20      d5beeac3653f   12 months ago    846MB
```

i-0a0cc2652cd70090e (SreeVardhan_2022BCS0056) ✕

PublicIPs: 3.26.53.233   PrivateIPs: 172.31.20.247

Pushing the repositories:

```
ubuntu@ip-172-31-20-247:~$ docker push sreevardhan2022bcs0056/golang-app:2022bcs0056
The push refers to repository [docker.io/sreevardhan2022bcs0056/golang-app]
15af3cec9aaa: Pushed
d091b63c4836: Pushed
746c02a169c3: Pushed
5f70bf18a086: Mounted from library/golang
6422f5afca27: Mounted from library/golang
727ecdde08c3: Mounted from library/golang
1299c97d7d50: Mounted from library/golang
41d4dc7516bb: Mounted from sreevardhan2022bcs0056/nodejs-hello
c0f51bbdc37d: Mounted from sreevardhan2022bcs0056/nodejs-hello
91b542912d12: Mounted from sreevardhan2022bcs0056/nodejs-hello
2022bcs0056: digest: sha256:c0bc75f6b21a6ecbc5ef89ba80597864318b4f77bc08cc4dafd888cc29ca3509 size: 2415
ubuntu@ip-172-31-20-247:~$
```

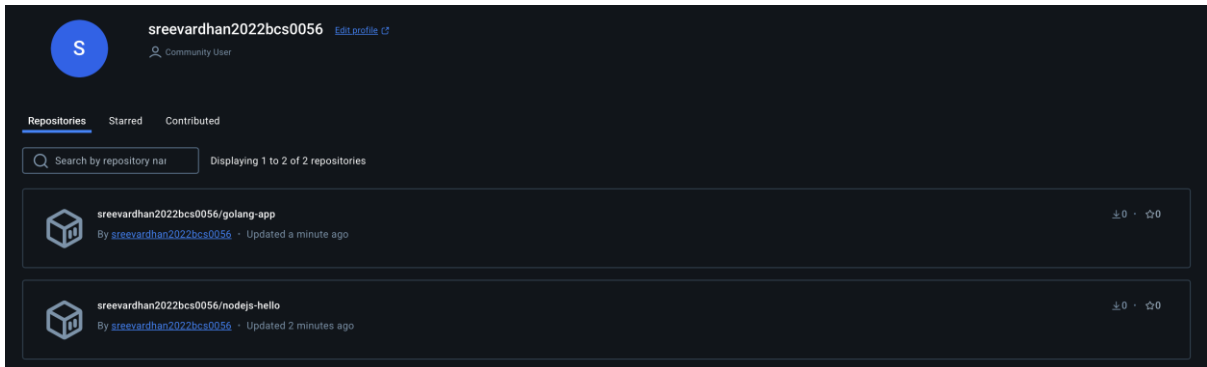**i-0a0cc2652cd70090e (SreeVardhan_2022BCS0056)** ✕

PublicIPs: 3.26.53.233   PrivateIPs: 172.31.20.247

```
ubuntu@ip-172-31-20-247:~$ docker tag golang-app sreevardhan2022bcs0056/golang-app:2022bcs0056
ubuntu@ip-172-31-20-247:~$ docker push sreevardhan2022bcs0056/nodejs-hello:2022bcs0056
The push refers to repository [docker.io/sreevardhan2022bcs0056/nodejs-hello]
2e3947e3113a: Pushed
48fc09d3a97d: Pushed
bcfce6d69e55: Mounted from library/node
f1f62a16538c: Mounted from library/node
48b86cff2099: Mounted from library/node
48cc25dc4131: Mounted from library/node
dafb8aed9f7f: Mounted from library/node
41d4dc7516bb: Mounted from library/golang
c0f51bbdc37d: Mounted from library/golang
91b542912d12: Mounted from library/golang
2022bcs0056: digest: sha256:811a9cd17fe22838334986c95554c2a73be4167727edeaea87ecadae7c7d67fe size: 2417
ubuntu@ip-172-31-20-247:~$
```

i-0a0cc2652cd70090e (SreeVardhan_2022BCS0056) ✕

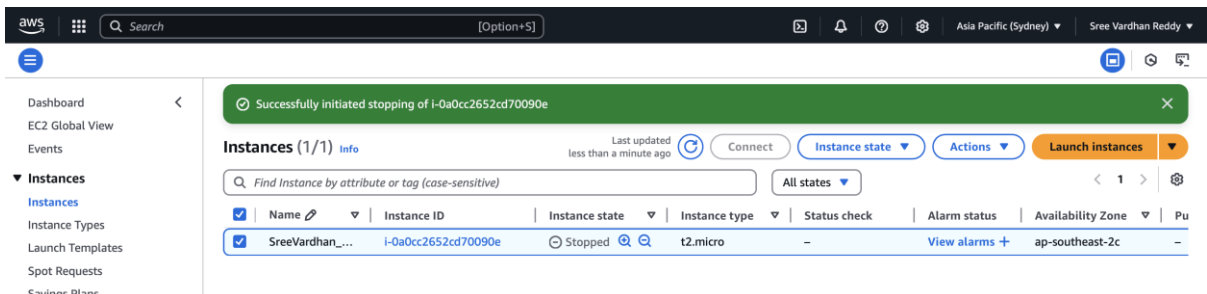PublicIPs: 3.26.53.233   PrivateIPs: 172.31.20.247

Verification of repositories:

Stopped the AWS instance: