Proof of Work – Dockerized Node.js + AWS ECR + Docker Compose

Screenshots and short captions demonstrating each stage of the project.

1) SSH into the Ubuntu EC2 instance — verifying remote access.

```
adnanahmed@Adnans-MacBook-Air.local /<mark>Use</mark>r
% ssh -i ~/.ssh/docker-key.pem ec2-user@13.40.139.211
ec2-user@13.40.139.211: Permission denied (publickey).
adnanahmed@Adnans-MacBook-Air.local /Users/adnanahmed
% ssh -i ~/.ssh/docker-key.pem ubuntu@13.40.139.211
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 6.8.0-1035-aws x86_64)
 * Documentation: https://help.ubuntu.com
                   https://landscape.canonical.com
 * Management:
 * Support:
                   https://ubuntu.com/pro
 System information as of Wed Sep 3 18:23:33 UTC 2025
  System load: 0.0 Processes: Usage of /: 52.4% of 7.57GB Users logged in:
                                                          119
  Memory usage: 47%
                                 IPv4 address for ens5: 172.31.13.127
  Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
11 updates can be applied immediately.
11 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
9 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm
New release '24.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Wed Sep 3 16:07:17 2025 from 81.157.70.199
ubuntu@ip-172-31-13-127:~$
```

2) Docker & Docker Compose installed — versions confirmed.

```
ubuntu@ip-172-31-13-127:~$ docker --version
docker compose version
Docker version 28.3.3, build 980b856
Docker Compose version v2.39.1
```

3) Project directory on server — compose + app files in place.

```
ubuntu@ip-172-31-13-127:~$ cd ~/app
ls -l
total 12
drwxrwxr-x 7 ubuntu docker 4096 Sep 3 17:02 devops-journey
-rw-rw-r-- 1 ubuntu docker 763 Sep 3 17:29 docker-compose.yml
-rw-rw-r-- 1 ubuntu docker 770 Sep 3 16:57 docker-compose.yml.bak
```

4) docker compose up / logs — stack brought up successfully.



5) docker compose ps — services running (app, mongo, mongo-express).

```
ubuntu@ip-172-31-13-127:~/app$ docker logs $(docker compose ps -q app)

> my-app@1.0.0 start
> node index.js

Server listening on port 3000
```

Hello from Dockerized Node.js 🚀