Deploying a Medusa application on an AWS EC2 instance

1. Launch an EC2 Instance

Go to the EC2 dashboard.

Launch a New Instance:

- Click Launch Instance.
- Choose an Amazon Machine Image (AMI). For simplicity, use Ubuntu Server 20.04 LTS.
- Select an instance type, such as t2.small (free tier eligible).
- Configure instance details, add storage, and configure security group:
- Open ports: 22 (SSH), 80 (HTTP), 443 (HTTPS), and 5432 (PostgreSQL or MYSQL)
 - Review and launch the instance.
- 2. Install Packages
- 3. Set Up Medusa
- 4. Clone Medusa Repository

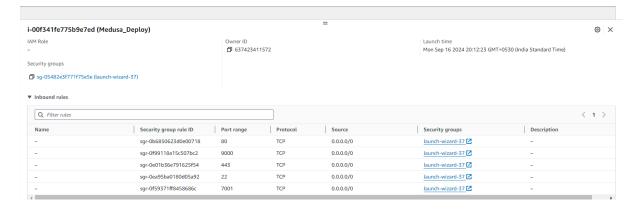
Configure Public Access: Ensure the application is accessible via the public IP or a domain name by configuring EC2 networking and DNS settings.

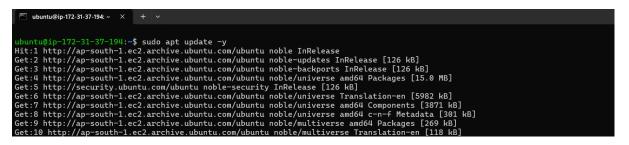
In the LOOM video, I explained Using Docker Method.

Here I'm attaching the Usual Method to access the Medusa Application.

- npm install
- npm run build
- npm run seed
- npm start







```
DEPRECATION WARNING

Node.js 16.x is no longer actively supported!

You will not receive security or critical stability updates for this version.

You should migrate to a supported version of Node.js as soon as possible.
Use the installation script that corresponds to the version of Node.js you wish to install. e.g.

* https://deb.nodesource.com/setup_16.x - Node.js 16 "Gallium" (deprecated)

* https://deb.nodesource.com/setup_19.x - Node.js 18 "Hydrogen" (Maintenance)

* https://deb.nodesource.com/setup_20.x - Node.js 19 "Nineteen" (deprecated)

* https://deb.nodesource.com/setup_20.x - Node.js 20 LTS "Iron" (recommended)

* https://deb.nodesource.com/setup_21.x - Node.js 21 "Iron" (current)
```

```
Reading package lists... Done
Building dependency tree... Done
Reading package lists... Done
Reading state information... Done
The following NEW packages will be installed:
node;5
8 uppraded, 1 newly installed, 0 to remove and 130 not upgraded.
Need to get 27.5 MB of archives.
After this operation, 128 MB of additional disk space will be used.
Get:1 https://deb.nodesource.com/node_16.x nodistro/main amd64 node;s amd64 16.20.2-Inodesource1 [27.5 MB]
Fetched 27.5 MB in 1s (52.4 MB/S)
Selecting previously unselected package node;s.
(Reading database ... 67745 files and directories currently installed.)
Preparing to unpack .../node;s.[16.20.2-Inodesource1] ...
Setting up node;s (16.20.2-Inodesource1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No containers need to be restarted.
No vM guests are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.

Mountainers need to be restarted.
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
ilbcomon-sense-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno-petilibjeno
```

```
ubuntuBip-172-31-37-194:-$ sudo npm install -g @medusajs/medusa-cli
npm MARN deprecated @oclif/screen@1.0.4: Deprecated in favor of @oclif/core
npm MARN deprecated @oclif/screen@1.0.4: Deprecated in favor of @oclif/core
npm MARN deprecated @oclif/errors@1.3.6: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm MARN deprecated @oclif/errors@1.3.5: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm MARN deprecated inflight@1.6: This module is not supported, and leaks memory. Do not use it. Check out tru-cache if you want a good and tested way to
coalesce async requests by a key value, which is much more comprehensive and powerful.
npm MARN deprecated @oclif/parseg3.8.17: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm MARN deprecated @oclif/command@1.8.36: Package no longer supported.
npm MARN deprecated @oclif/command@1.8.36: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm MARN deprecated @oclif/command@1.8.36: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm MARN deprecated @oclif/command@1.8.36: Package no longer supported.
npm MARN deprecated @oclif/comgige1.18.10: Set to 9 are no longer supported that the normal support for more info.
npm MARN deprecated @oclif/comgige1.18.12: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm MARN deprecated @oclif/confige1.18.2: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm MARN deprecated @oclif/confige1.18.2: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm MARN deprecated @oclif/confige1.18.2: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm MARN deprecated @oclif/confige1.18.2: Package no longer supported. Contact Support at https://www.npmjs.com
```

```
ubuntu@ip-172-31-37-194:~$ sudo service postgresql start ubuntu@ip-172-31-37-194:~$ sudo -u postgres psql psql (16.4 (Ubuntu 16.4-Oubuntu0.24.04.2))
Type "help" for help.
postgres=# \l
               List of databases
| Owner | Encoding | Locale Provider | Collate | Ctype | ICU Locale | ICU Rules | Access privileges
    Name
                                                                              C.UTF-8
                                   UTF8
 postgres
template0
                   postgres
                                                    libc
libc
                                                                                             C.UTF-8
                                                                                                                                                 =c/postgres
postgres=CTc/postgres
                   postgres
                                   UTF8
 template1
                                   UTF8
                                                    libc
                                                                              C.UTF-8
                                                                                             C.UTF-8
                                                                                                                                                 =c/postgres
postgres=CTc/postgres
                  postgres
(3 rows)
postgres=# exit;
ubuntu@ip-172-31-37-194:~$
```

```
ubuntu@ip-172-31-45-45:~$ cd my-medusa-app
ubuntu@ip-172-31-45-45:~/my-medusa-app$ nano .env
ubuntu@ip-172-31-45-45:~/my-medusa-app$ npm install

up to date, audited 2028 packages in 15s

331 packages are looking for funding
    run 'npm fund' for details

21 vulnerabilities (9 moderate, 9 high, 3 critical)

To address issues that do not require attention, run:
    npm audit fix

To address all issues (including breaking changes), run:
    npm audit fix --force

Run 'npm audit' for details.
    ubuntu@ip-172-31-45-45:~/my-medusa-app$ npm run seed

> medusa-starter-default@0.0.1 seed
> cross-env medusa seed -f ./data/seed.json
```

```
| Database initialized - 86ms | Page | Page
```

DOCKER METHOD

```
ubuntu@ip-172-31-0-119:~$ npm -v

10.8.3
ubuntu@ip-172-31-0-119:~$ node -v
v18.20.4
ubuntu@ip-172-31-0-119:~$ mysql --version
mysql Ver 8.0.39-0ubuntu0.24.04.2 for Linux on x86_64 ((Ubuntu))
ubuntu@ip-172-31-0-119:~$ docker --version
Docker version 24.0.7, build 24.0.7-0ubuntu4.1
ubuntu@ip-172-31-0-119:~$ git --version
git version 2.43.0
ubuntu@ip-172-31-0-119:~$ docker-compose --version
docker-compose version 1.29.2, build unknown
ubuntu@ip-172-31-0-119:~$ ls
Dockerfile Medusa_backend node_modules package-lock.json package.json
```

```
ubuntu@ip-172-31-0-119:~/Medusa_backend$ sudo docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

medusa latest 57d82bdb1097 3 minutes ago 234MB

<none> <none> 925fde09c645 4 minutes ago 1.03GB

node 16-alpine 2573171e0124 13 months ago 118MB

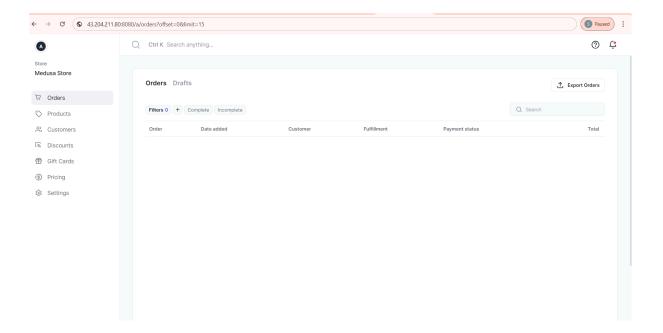
ubuntu@ip-172-31-0-119:~/Medusa_backend$ sudo docker ps -a
CONTAINER ID IMAGE COMMAND

CONTAINER ID IMAGE COMMAND

G032aef82862 medusa "docker-entrypoint.s..." 10 seconds ago Exited (0) 9 seconds ago zen_cartwright
```

DEPLOYMENT SITE

http://43.204.211.80:8080/



Summary

- Using Docker: Build and run the application with Docker commands.
- Direct Node.js Execution: Run the application directly with Node.js if not using npm.
- Alternative Package Manager: Use Yarn or another tool if npm is not preferred.
- Direct Execution: For non-Node.js apps, use appropriate commands or binaries.