Deploy Application on Cloud

Screenshots

Here are the screenshots from

- Spring Boot Console
- cmd Docker Terminal
- AWS EC2 instance creation and EC2 Terminal

From Spring Boot Console

(Creation of WAR file)

```
] Scanning for projects...
MARNING] The requested profile "pom.xml" could not be activated because it does not exist.
    Building Vaccination-Center 0.0.1-SNAPSHOT
     -----[ war ]-----
           ven-clean-plugin:3.2.0:clean (default-clean) @ Vaccination-Center ---
    Deleting F:\GitHub - Akshay\Vaccination-Center-Application\target
                                              rces (default-resources) @ Vaccination-Center ---
    Using 'UTF-8' encoding to copy filtered resources.
Using 'UTF-8' encoding to copy filtered properties files.
    Copying 1 resource
    Copying 0 resource
    --- maven-compiler-plugin:3.10.1:compile (default-compile) @ Vaccination-Center --- Changes detected - recompiling the module!
     Compiling 21 source files to F: GitHub - Akshay\Vaccination-Center-Application\target\classes
                                                       (default-testResources) @ Vaccination-Center ---
     Using 'UTF-8' encoding to copy filtered resources.
     Using 'UTF-8' encoding to copy filtered properties files.
     skip non existing resourceDirectory F:\GitHub - Akshay\Vaccination-Center-Application\src\test\resources
                        -plugin:3.10.1:testCompile (default-testCompile) @ Vaccination-Center ---
     --- maven-compiler-plugin:3.10.1:testCompi
Changes detected - recompiling the module!
     --- maven-surefire-plugin:2.22.2:test (default-test) @ Vaccination-Center ---
```

```
INFO] --- spring-boot-maven-plugin:2.7.12:repackage (repackage) @ Vaccination-Center ---
INFO] Downloading from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.7.12/spring-boot-buildpac
INFO] Downloading from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.7.12/spring-boot-buildpac
INFO] Downloading from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/2.7.12/spring-boot-loader-tools-2
INFO] Downloading from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.7.112/spring-boot-buildpac
INFO] Downloading from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/2.7.12/spring-boot-loader-tools-2
INFO] Downloading from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.7.12/spring-boot-loader-tools-2
INFO] Downloaded from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.7.12/spring-boot-loader-tools-2
INFO] Downloaded from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.7.12/spring-boot-buildpack
INFO] BUILD SUCCESS
INFO]
INFO] BUILD SUCCESS
INFO]
INFO] BUILD SUCCESS
INFO]
INFO] Finished at: 2023-07-26T09:39:06+05:30
```

From cmd - Docker Terminal

```
F:\GitHub - Akshay\Vaccination-Center-Application>docker images

REPOSITORY TAG IMAGE ID CREATED 51ZE
mysql latest 7c5ae0d3388c 28 hours ago 57798
ubuntu latest 5a81c4b8502e 3 weeks ago 77.8MB

F:\GitHub - Akshay\Vaccination-Center-Application>docker build -t vaccination-center-docker .

[-] Building 0.9s (2/3)
[-] B
```

```
F:\GitHub - Akshay\vaccination-Center-Application>docker run -p 8084:8084 --name final-app --link docker-sql:mysql vaccination-center-docker

| Comparison | Comp
```

```
F:\GitHub - Akshay\Vaccination-Center-Application>docker tag vaccination-center-docker akshaytr19/vaccination-center-docker

F:\GitHub - Akshay\Vaccination-Center-Application>docker images

REPOSITORY

TAG IMAGE ID CREATED SIZE

Akshaytr19/vaccination-center-docker latest dcd/fbed976c About an hour ago 570MB

Vaccination-center-docker latest dcd/fbed976c About an hour ago 570MB

Vaccination-center-docker latest dcd/fbed976c About an hour ago 570MB

Vaccination-center-docker latest fcased3388c 28 hours ago 577MB

Ubuntu latest fsa81c4b8502e 3 weeks ago 77.8MB

F:\GitHub - Akshay\Vaccination-Center-Application>docker push akshaytr19/vaccination-center-docker

Using default tag: latest

12023-07-2605314-19.2758201002][docker-cedential-desktop.system][W] Windows version might not be up-to-date: The system cannot find the file specified.

12023-07-2605314-19.2758201002][docker-cedential-desktop.system][W] Windows version might not be up-to-date: The system cannot find the file specified.

12023-07-2605314-19.2758201002][docker-cedential-desktop.system][W] Windows version might not be up-to-date: The system cannot find the file specified.

12023-07-2605314-19.2758201002][docker-cedential-desktop.system][W] Windows version might not be up-to-date: The system cannot find the file specified.

12023-07-2605314-19.2758201002][docker-cedential-desktop.system][W] Windows version might not be up-to-date: The system cannot find the file specified.

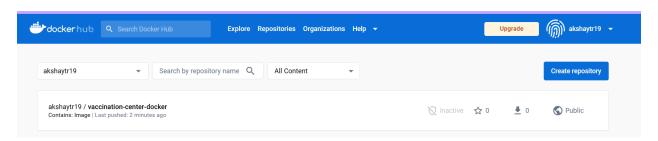
12023-07-2605314-19.2758201002][docker-cedential-desktop.system][W] Windows version might not be up-to-date: The system cannot find the file specified.

12023-07-2605314-19.2758201002][docker-cedential-desktop.system][W] Windows version might not be up-to-date: The system cannot find the file specified.

12023-07-2605314-19.2758201002][docker-cedential-desktop.system][W] Windows version might not be up-to-date: The system cannot find the file specified.

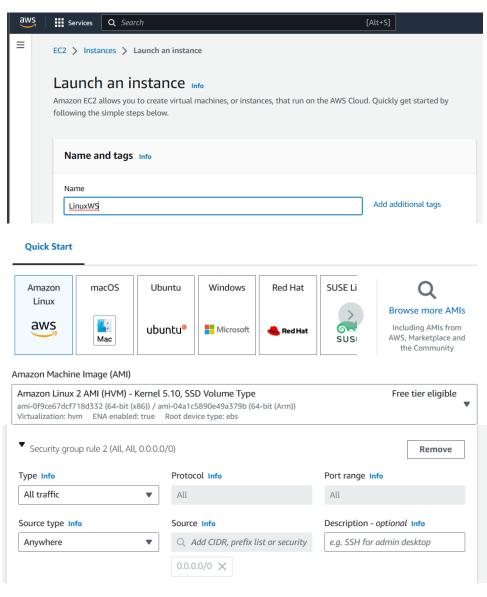
12023-07-2605314-19.2758201002][docker-cedential-desktop.system][W] Windows version might not be up-to-date: The system cannot fi
```

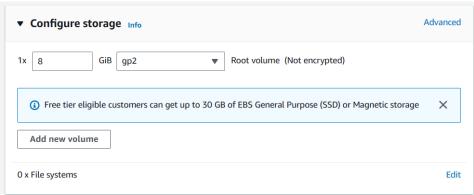
Docker Hub

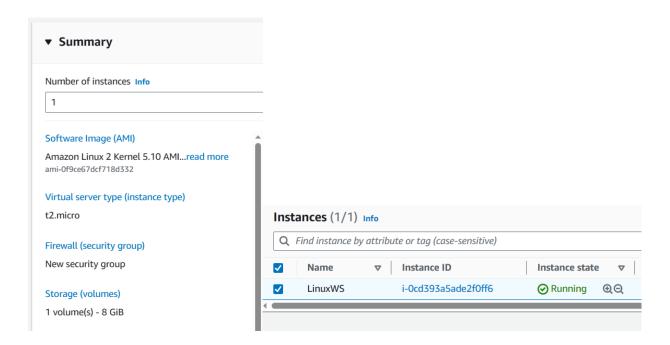


From AWS

1. Creating an EC2 instance

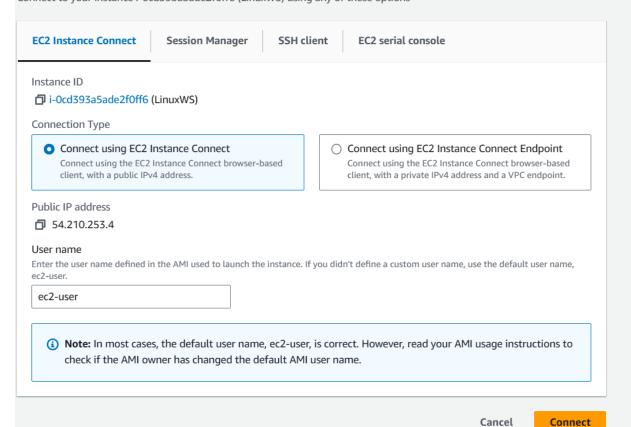






Connect to instance Info

Connect to your instance i-Ocd393a5ade2f0ff6 (LinuxWS) using any of these options



2. From EC2 Terminal

```
[root@ip-172-31-18-167 ~]# yum install docker
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Resolving Dependencies
 -> Running transaction check
 --> Package docker.x86 64 0:20.10.23-1.amzn2.0.1 will be installed
--> Processing Dependency: runc >= 1.0.0 for package: docker-20.10.23-1.amzn2.0.1.x86 64
 -> Processing Dependency: libcgroup >= 0.40.rc1-5.15 for package: docker-20.10.23-1.amzn2.0.1.x86 64
 -> Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.23-1.amzn2.0.1.x86_64
 -> Processing Dependency: pigz for package: docker-20.10.23-1.amzn2.0.1.x86 64
 -> Running transaction check
 --> Package containerd.x86_64 0:1.6.19-1.amzn2.0.1 will be installed
---> Package libcgroup.x86 64 0:0.41-21.amzn2 will be installed
 --> Package pigz.x86_64 0:2.3.4-1.amzn2.0.1 will be installed
 --> Package runc.x86_64 0:1.1.7-1.amzn2 will be installed
--> Finished Dependency Resolution
Dependencies Resolved
Installed:
   docker.x86_64 0:20.10.23-1.amzn2.0.1
 ependency Installed:
containerd.x86_64 0:1.6.19-1.amzn2.0.1
                                                               pigz.x86 64 0:2.3.4-1.amzn2.0.1
                                                                                            runc.x86 64 0:1.1.7-1.amzn2
Complete!
[root@ip-172-31-18-167 ~]#
```

[root@ip-172-31-18-167 ~]# service docker start Redirecting to /bin/systemctl start docker.service

```
[root@ip-172-31-18-167 ~] # docker pull mysql
Using default tag: latest
latest: Pulling from library/mysgl
49bb46380f8c: Pull complete
aab3066bbf8f: Pull complete
d6eef8c26cf9: Pull complete
0e908b1dcba2: Pull complete
480c3912a2fd: Pull complete
264c20cd4449: Pull complete
d7afa4443f21: Pull complete
d32c26cb271e: Pull complete
f1f84a2204cb: Pull complete
9a41fcc5b508: Pull complete
7b8402026abb: Pull complete
Digest: sha256:51c4dc55d3abf4517a5a652794d1f0adb2f2ed1d1bedc847d6132d91cdb2ebbf
Status: Downloaded newer image for mysql:latest
[root@ip-172-31-18-167 ~] # docker pull akshaytr19/vaccination-center-docker:latest
latest: Pulling from akshaytr19/vaccination-center-docker
001c52e26ad5: Pull complete
d9d4b9b6e964: Pull complete
2068746827ec: Pull complete
9daef329d350: Pull complete
d85151f15b66: Pull complete
52a8c426d30b: Pull complete
8754a66e0050: Pull complete
8ee7a72c3f23: Pull complete
Digest: sha256:ed5a3c05d4a0c4a2e670d1cf42e81e7aa16f9ca50661c954837390c56ddba6cd
Status: Downloaded newer image for akshaytr19/vaccination-center-docker:latest
docker.io/akshaytr19/vaccination-center-docker:latest
```

```
[root@ip-172-31-18-167 ~]# docker run --name docker-sql -e MYSQL_ROOT_PASSWORD=password -e MYSQL_DATABASE=dbl -e MYSQL_USER=user -e MYSQL_PASSWORD=password -d mysql:latest --default-authentication-plugin=mysql_native_password
67de15589a9889410a7898a1dadec@b2a54f@b1dc4cbd2e672fa1cf7db55f530
S/Ge1595939894104/9798416406€CBDZ6454FBDLGC4CBDZ667/ZEALCT/GD551530
[root@ip-172-31-18-167 ~]# docker exec -it docker-sg1 mysq1 - u user -ppassword
mysq1: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MysQL monitor. Commands end with ; or \g.
Your MysQL connection id is 8
Server version: 8.0.34 MysQL Community Server - GPL
  opyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
  ysql> show databases;
   Database
    information_schema
performance_schema
 mysql> use db1;
Database changed
mysql> CREATE TABLE city (id INT AUTO_INCREMENT PRIMARY KEY, cityname VARCHAR(20));
Query OK, 0 rows affected (0.02 sec)
mysql> INSERT into city (cityname) VALUES
               -> ("Bengaluru"),
              -> ("Chennai"),
               -> ("Hyderabad"),
               -> ("Kolkata"),
               -> ("Mumbai"),
              -> ("Pune"),
               -> ("New Delhi")
               -> ;
Query OK, 7 rows affected (0.01 sec)
Records: 7 Duplicates: 0 Warnings: 0
mysql>
    aws Services Q Search
                                                                                                                                                                              [Alt+S]
                                                                                                                                                                                                                                                         oot@ip-172-31-18-167 ~]# docker run -p 8084:8084 --name final-app --link docker-sql:mysql akshaytr19/vaccination-center-docker
   : No active profile set, falling back to 1 default profile: "default"

| Solition | Soli
  023-07-26 06:22:38.158 INFO 1 --- [ main

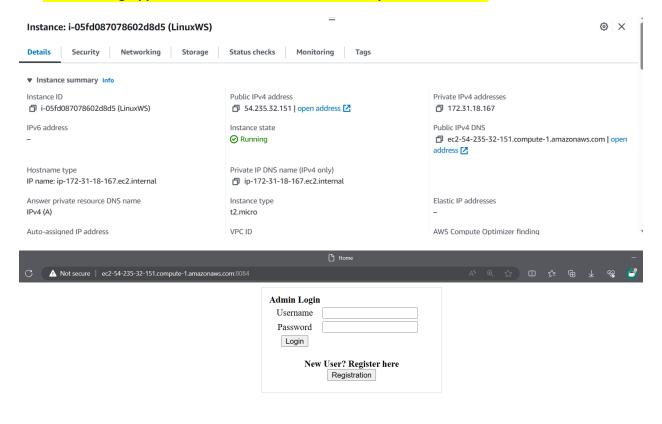
342 on 25e7249dbe5c with PID 1 (/Vaccination-Center

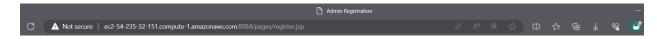
023-07-26 06:22:38.166 INFO 1 --- [ main

023-07-26 06:22:40.13 INFO 1 --- [ main

023-07-26 06:22:40.296 INFO 1 --- [ main
```

3. Accessing Application on Public IPv4 DNS URL with port number 8084





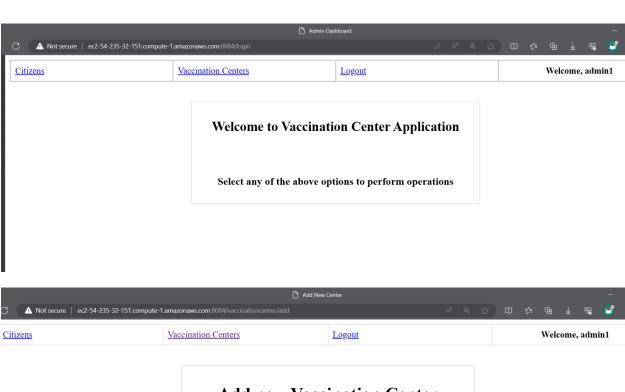
Admin Registration





Account created Successfully!



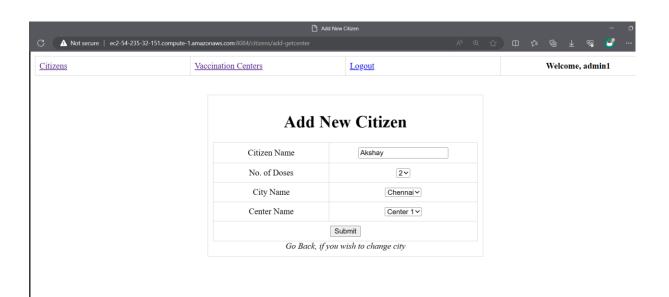






Centers

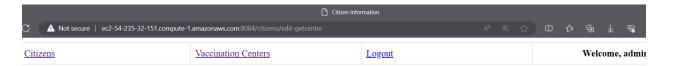
Add New Cent							
ID	Name	City	Action				
1	Center 1	Chennai	View Edit Delete				
2	Center 2	Hyderabad	View Edit Delete				
3	New Center 1	Bengaluru	View Edit Delete				
Total 3 Vaccination Centers found.							

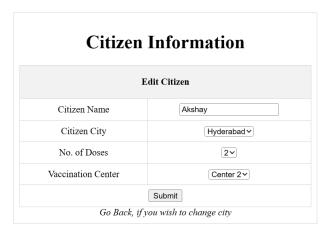




Citizens

						Add New Citizer
ID	Name	City	No. Of Doses	Vaccination Status	Vaccination Center	Action
1	Akshay	Chennai	2	Fully Vaccinated	Center 1	View Edit Delet
2	Ashok	Bengaluru	0	Not Vaccinated	New Center 1	View Edit Dele
3	Kishore	Hyderabad	1	Partially Vaccinated	Center 2	View Edit Dele
			Total 3 citizens found.			







Logged out successfully!



