Deploy SIMO website Manual

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1 Introduction

- SIMO System
- Deploy: Operation: Windows 10, Use Docker platform to deploy

2 Tool and version

• Docker Desktop 4.40.0 (187762)

3 Docker Image

Link to get the image: https://hub.docker.com/u/phamphuchau28

- Frontend Image: https://hub.docker.com/r/phamphuchau28/simo_frontend_img
- Backend Image: https://hub.docker.com/r/phamphuchau28/simo_backend_img

Figure 1: Docker Images

4 Folder Directory

```
D:\Deploy\
```

```
.test_env
.prod_env
.env
docker-compose.yml
docker-compose.prod.yml
docker-compose.test.yml
```

```
run_prod.bat
run_test.bat
prod
test
D:\UPLOAD_DATA
PROD
TEST
```

Note

Grand full permission for the folder by running command line : " icacls "<Folder Path>" /grant <username>:F /t" EXP: "icacls "D:" /grant Administrator:F /t"

5 Environment Config

The enironment configuration is set in these files contain: Public key, secret key, database connection string, configuration system like port, etc.

D:\Deploy\

```
.test_env
.prod_env
.env
```

6 Deployment

6.1 Run test Environment

Double-click on the file run_test.bat to deploy the test environment.

Figure 2: Stop old container and start new in test environment

If the image does not have, the docker will automatically download.

```
CANNING STORY MANUAL CONTROL OF THE STORY OF
```

Figure 3: Pull Image and Deploy in test environment

6.2 Run Production Environment

Double-click on the file run_prod.bat to deploy production environment

```
Clearing up 1551 environment...

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Figure 4: Stop old container and start new

If the image does not have, the docker will automatically download.

Figure 5: Pull Image and Deploy

7 Monitoring

- Frontend http://localhost:5173
- $\bullet \ \, \text{Backend http://localhost:} 8081/\text{actuator/health}$

• Database: Kt ni MongoDB bng MongoDB Compass: mongodb://admin:admin123@localhost:27017

8 Troubleshooting

8.1 Port is already use

1. Get process id is running this port : "5173" by commnand : net stat -ano \mid findstr ":5173"

```
C:\Users\Administrator>netstat -ano |findstr "5173"

TCP 0.0.0.0;5173 0.0.0.0:0

TCP [::]:5173 [::]:0 LISTENING 5288

TCP [::]:5173 [::]:0 LISTENING 2584
```

Figure 6: Check port

- 2. Check process name is running : tasklist /FI "PID eq <PID>"
 - (a) Get process id is running this port : "5173" by commnand : net stat -ano | findstr ":5173"

```
C:\Users\Administrator>tasklist /FI "PID eq 5288"

Image Name PID Session Name Session# Mem Usage
com.docker.backend.exe 5288 Console 1 193,448 K
```

Figure 7: Check port

(b) Kill the port by typing this command: taskkill /PID <PID> -F

```
C:\Users\Administrator>taskkill /PID 5288 /F
SUCCESS: The process with PID 5288 has been terminated.
C:\Users\Administrator>
```

Figure 8: Check port