

HONEUR – remote setup with Docker

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Prerequisites

1. *Operating System*

One of the following operating systems should be installed on the host machine:

- Windows 10, or
- Linux (Ubuntu, Debian, CentOS or Fedora), or
- MacOS

2. *Docker*

Docker should be installed on the host machine

- Windows 10: <https://docs.docker.com/docker-for-windows/install/>
- Linux: <https://docs.docker.com/install/linux/docker-ce/ubuntu/>
- MacOS: <https://docs.docker.com/docker-for-mac/install/>
- Cloud:
 - AWS: <https://docs.docker.com/docker-for-aws/>
 - Azure: <https://docs.docker.com/docker-for-azure/>

3. *Docker Hub Account*

The installer should have a Docker Hub account with read access on the HONEUR repository:

<https://hub.docker.com/u/honeur>

4. *GitHub Account*

The installer should have a GitHub account that can access the public HONEUR Setup repository:

<https://github.com/solventrix/HONEUR-Setup>

Installation steps

1. Open a terminal window (Command Prompt on Windows)
2. Clone the HONEUR-Setup repository

```
git clone https://github.com/solventrix/HONEUR-Setup
```
3. Change working directory to HONEUR-Setup files

```
cd HONEUR-Setup/secure
```
4. Run `start-honeur-secure.sh` (on Linux or Mac) or `start-honeur-secure.cmd` (on Windows)
5. The program will prompt you for username and password for your docker account. Make sure this docker account has read access on the honeur images. If you are already logged in to docker, the program will automatically use the existing credentials.
6. The program will first try to remove any old version of the HONEUR Docker containers – if this is the first install, the script may display some error messages that can be ignored.
7. The program will prompt you to give a Fully Qualified Domain Name(FQDN) or IP Address of the host machine. Atlas will only be accessible on the host machine (via localhost) if you fill in localhost.
8. The program will prompt you to give the directory of where to store the zeppelin log files and notebooks.
9. The program will prompt you for the following ldap properties :
 - a. `security.ldap.url: ldap://ldap.forumsys.com:389`
 - b. `security.ldap.system.username: cn=read-only-admin,dc=example,dc=com`
 - c. `security.ldap.system.password: password`
 - d. `security.ldap.baseDn: dc=example,dc=com`
 - e. `security.ldap.dn: uid={0},dc=example,dc=com`
10. The program will prompt you for the following user management properties:
 - a. `usermgmt admin username: admin`
 - b. `usermgmt admin password: admin`
11. The Postgres database, Atlas, Zeppelin and a User Mgmt applications will be downloaded and started as Docker containers

Installation notes

1. Downloading the database can take a while. The download is +/- 2GB.
2. The following ports are used on the host machine:
 - a. Postgres: 5444
 - b. Atlas: 8080
 - c. User Management: 8081
 - d. Zeppelin: 8082

Please contact the HONEUR support team if these ports are not available or should be changed

3. The database data will be stored in a Docker volume named “pgdata”

Connecting to the running Docker containers

Postgres database

1. Open a SQL client

E.g.: <https://dbeaver.io/> is a nice and free SQL client

2. Connect to the postgres database running on:

host: **localhost:5444**

port: **5444**

Database: **OHDSI**

username: **honeur**, password: **honeur** (select, update and delete data) or

username: **honeur_admin**, password: **honeur_admin** (make DB changes)

Please change the default password of the **honeur** and **honeur_admin** DB accounts

Changing the password of the **honeur** and **honeur_admin** account will not have impact on the correct working of the different installation components

3. The “omopcdm”, “results” and “webapi” schemas can be accessed in the database

Atlas

1. Open Google Chrome
2. Navigate to [http://\[server-name\]:8080/atlas](http://[server-name]:8080/atlas) or [http://\[server-ip\]:8080/atlas](http://[server-ip]:8080/atlas) or <http://localhost:8080/atlas> (on the host machine)
3. The Atlas home page will be displayed

User Mgmt

1. Open Google Chrome
2. Navigate to [http://\[server-name\]:8081/user-mgmt](http://[server-name]:8081/user-mgmt) or [http://\[server-ip\]:8081/user-mgmt](http://[server-ip]:8081/user-mgmt) or <http://localhost:8081/user-mgmt> (on the host machine)
3. The User Management home page will be displayed
4. login using the credentials:
 - a. username: [usermgmt admin username]
 - b. password: [usermgmt admin password]

Zeppelin

1. Open Google Chrome
2. Navigate to [http://\[server-name\]:8082](http://[server-name]:8082) or [http://\[server-ip\]:8082](http://[server-ip]:8082) or <http://localhost:8082> (on the host machine)
3. The Zeppelin home page will be displayed

Starting and stopping the Docker containers

The Docker containers for HONEUR will automatically restart when the host machine is restarted.

The containers can also be manually started and stopped as follows:

Postgres

Open a terminal window. Run one of the following commands:

- Start: `docker start postgres`
- Stop: `docker stop postgres`

Atlas

Open a terminal window. Run one of the following commands:

- Start: `docker start webapi`
- Stop: `docker stop webapi`

User Management

Open a terminal window. Run one of the following commands:

- Start: `docker start user-mgmt`
- Stop: `docker stop user-mgmt`

Zeppelin

Open a terminal window. Run one of the following commands:

- Start: `docker start zeppelin`
- Stop: `docker stop zeppelin`