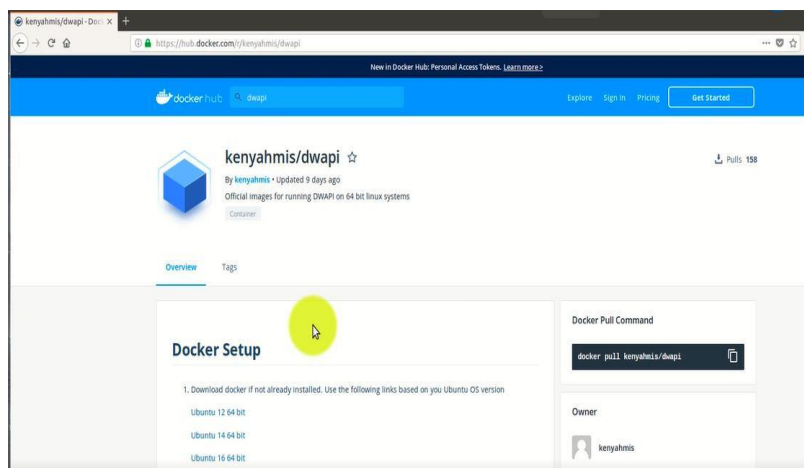


Job Aid: Installation and Configuration of DWAPI on Docker

Revised: May 2021

Applies to: Ubuntu 16.04, DWAPI 2.4.4, MySQL 5.6, KenyaEMR 17.1.
Tasks: To install Docker, install DWAPI on Docker and connect to KenyaEMR for data extraction and transmission
Who: HIS user
What: Docker is a 'container software' that enables DWAPI (Windows application) to run on Ubuntu
Pre-requisites: Ubuntu 16.04 OS 64-bit running MySQL, Internet connectivity, 8GB RAM or more

1. Download Docker



Access KenyaHMIS Docker Page

Open <https://hub.docker.com>

Search for dwapi (select KenyaHMIS/dwapi) OR go to:

<https://hub.docker.com/r/kenyahmis/dwapi>

On resultant page, select link for Docker (**Ubuntu 16.04 64bit**) to download the application.

2. Installing Docker

```
test@test-Inspiron-15-3567: ~
test@test-Inspiron-15-3567:~$ sudo dpkg -i /home/test/Downloads/docker-ce_17.2-ce-0-ubuntu-xenia1_amd64.deb
```

Install and Upgrade Docker From Ubuntu terminal run the installation command;

```
sudo dpkg -i /path_to_ package.deb
```

Upgrade Docker to latest version *(for Ubuntu 14 and 16 Only)* by issuing 2 commands;

```
sudo apt-get update
```

and

```
sudo apt-get upgrade docker-ce
```

3. Installing DWAPI on Docker

```
Processing triggers for resolvconf (1.78ubuntu7) ...
test@test-Inspiron-15-3567:~$ sudo docker run --name dwapi -p 5757:5757 -d --
tart unless-stopped kenyahmis/dwapi:latest
[sudo] password for test:
Unable to find image 'kenyahmis/dwapi:latest' locally
latest: Pulling from kenyahmis/dwapi
fc7181108d40: Pull complete
8b01d789a397: Pull complete
88b297f96aab: Pull complete
f523c3817e30: Pull complete
7c8b0a592cf8: Pull complete
2ba63ed4cff0: Pull complete
Digest: sha256:8225f13fd3e6c48180ac3a7e581ea3845fbfc49bf8588961f62789f91a3628
Status: Downloaded newer image for kenyahmis/dwapi:latest
6fb642c943ed25526ae13aa72c87d74d51ad3e9746b7db20f5360a2e657e3116
test@test-Inspiron-15-3567:~$
```

Install DWAPI for first time and run the following commands:

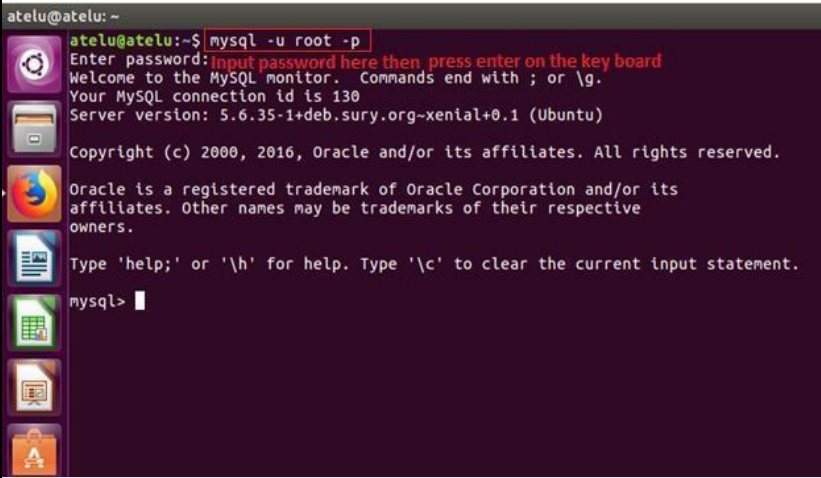
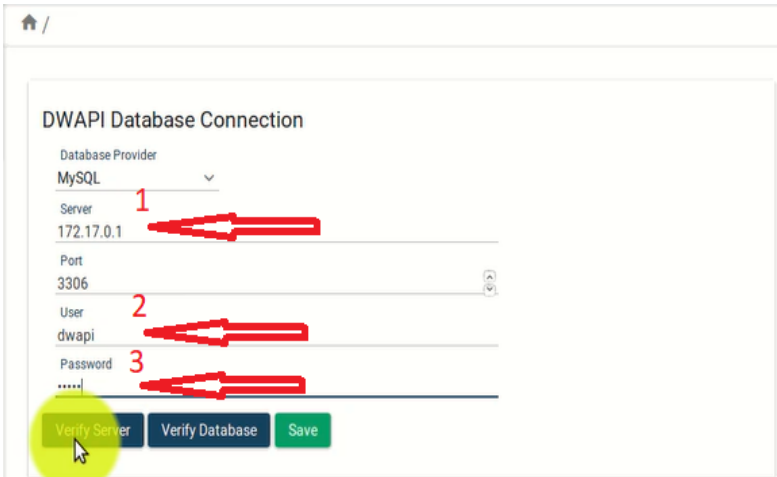
```
sudo docker run --name dwapi -p 5757:5757 -p
5753:5753 -d --restart unless-stopped
kenyahmis/dwapi:latest
```

To confirm successful installation, access DWAPI page on your browser at: <http://localhost:5753>

b) To upgrade existing DWAPI on Docker
Issue these 4 commands on terminal:

```
sudo docker pull kenyahmis/dwapi
sudo docker stop dwapi
sudo docker rm dwapi
```

```
sudo docker run --name dwapi -p 5757:5757 -p
5753:5753 -d -- restart unless-stopped
kenyahmis/dwapi:latest
```

<p>4.</p>	<h3>Login and Configure MySQL</h3> 	<h3>Login and Configure MySQL</h3> <p>[Refer to SOP: Configuring MySQL in Ubuntu to complete MySQL configuration steps]</p>
<p>5.</p>	<h3>Setting DWAPI Database Connection</h3> 	<h3>Setting DWAPI database connection</h3> <p>Open DWAPI page on browser and set the following:</p> <ol style="list-style-type: none"> Database provider as MySQL and port as 3306 Server to Docker IP address (Using <i>ifconfig</i> command, note the IP address for Docker network interface) Enter user dwapi account and password - configured on MySQL earlier Click to Verify Server and Save Restart DWAPI service by issuing command; <div style="text-align: center;"> <pre>sudo docker restart dwapi</pre> </div> Refresh DWAPI page Verify database to create DWAPI database

6. Configure DWAPI to load data from KenyaEMR

Database Connection (KenyaEMR)

✓ connection was successful

DBMS	MySQL
Host	192.168.1.54 ^a
Port	3306
User	dwapi ^b
Password ^c
Database	openmrs
Advanced Properties	Allow User Variables=True

Save Verify

Configure DWAPI to load data from KenyaEMR

1. Select Configuration docket, Click on EMR settings menu,
2. Select EMR system to connect DWAPI to i.e. KenyaEMR
3. Under action tab, select Default
4. Click on edit icon under Action to configure your KenyaEMR database instance
5. On database connection window,
 - a. enter KenyaEMR **Host** IP address
 - b. enter **user** account and **password**
 - c. provide name of **database** to connect (as appears in MySQL)
 - d. Verify details, and
 - e. Save

[You are now ready to load data from KenyaEMR and transmit to DWH]

Refer to SOP: DWAPI Data Upload SOP for more