deepEA installation

- **Step 1**: Docker installation

  i) Docker installation and start (Official installation tutorial)

  For **Windows (Only available for Windows 10 Prefessional and Enterprise version):**

  - Download Docker for windows;
  - Double click the EXE file to open it;
  - Follow the wizard instruction and complete installation;
  - Search docker, select ***Docker for Windows*** in the search results and click it.

  For **Mac OS X (Test on macOS Sierra version 10.12.6 and macOS High Sierra version 10.13.3):**

  - Download Docker for Mac OS;
  - Double click the DMG file to open it;
  - Drag the docker into Applications and complete installation;
  - Start docker from Launchpad by click it.

  For **Ubuntu (Test on Ubuntu 18.04 LTS):**

  - Go to Docker, choose your Ubuntu version, browse to **pool/stable** and choose **amd64, armhf, ppc64el or s390x**. Download the **DEB** file for the Docker version you want to install;
  - Install Docker, supposing that the DEB file is download into following path:***"/home/docker-ce~ubuntu_amd64.deb"***

    ```
    $ sudo dpkg -i /home/docker-ce<version-XXX>~ubuntu_amd64.deb
    $ sudo apt-get install -f
    ```

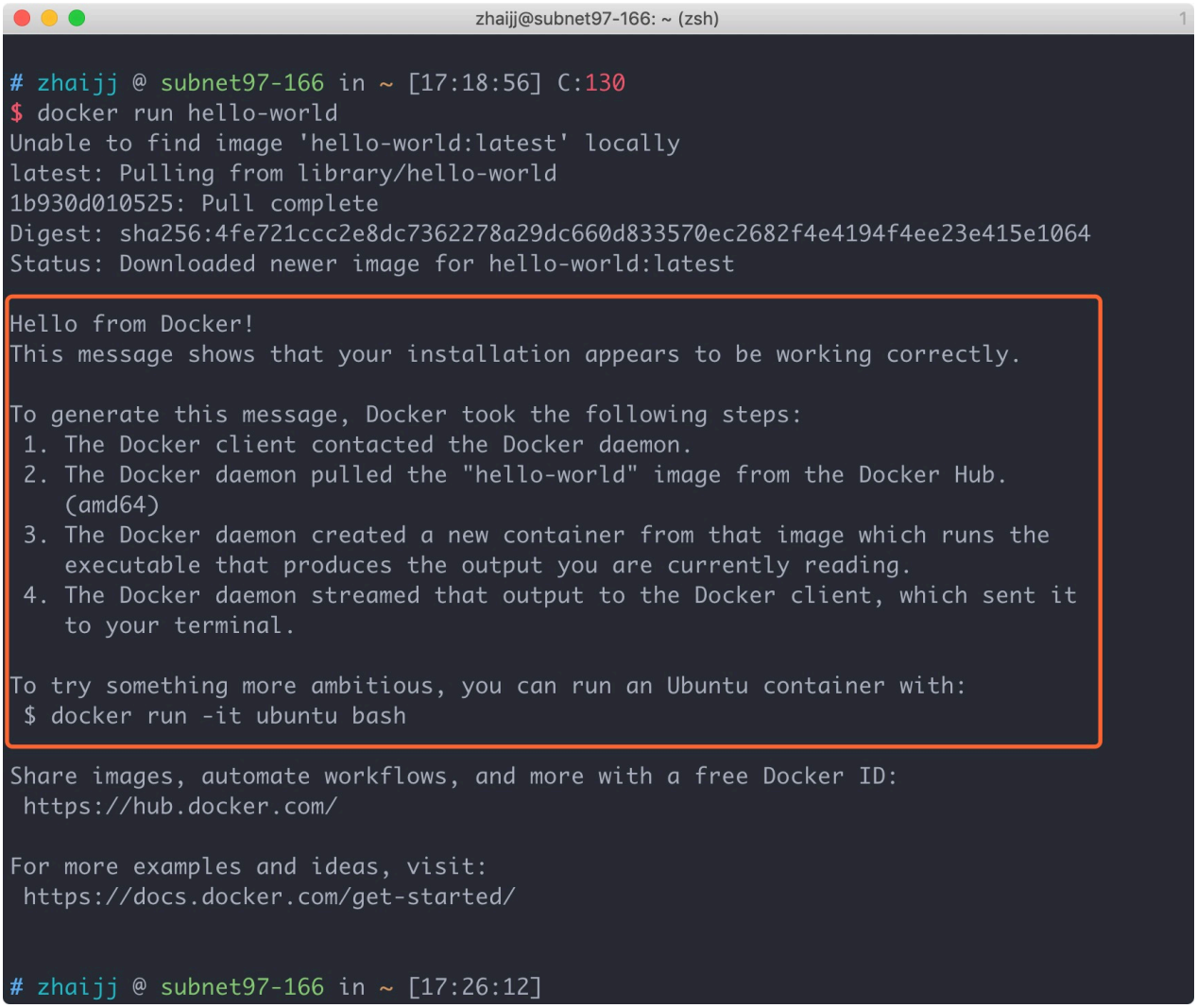
ii) Verify if Docker is installed correctly

Once Docker installation is completed, we can run `hello-world` image to verify if Docker is installed correctly. Open terminal in Mac OS X and Linux operating system and open CMD for Windows operating system, then type the following command:

```
$ docker run hello-world
```

Note: root permission is required for Linux operating system.

- Once Docker is installed successfully, you will see the following message:



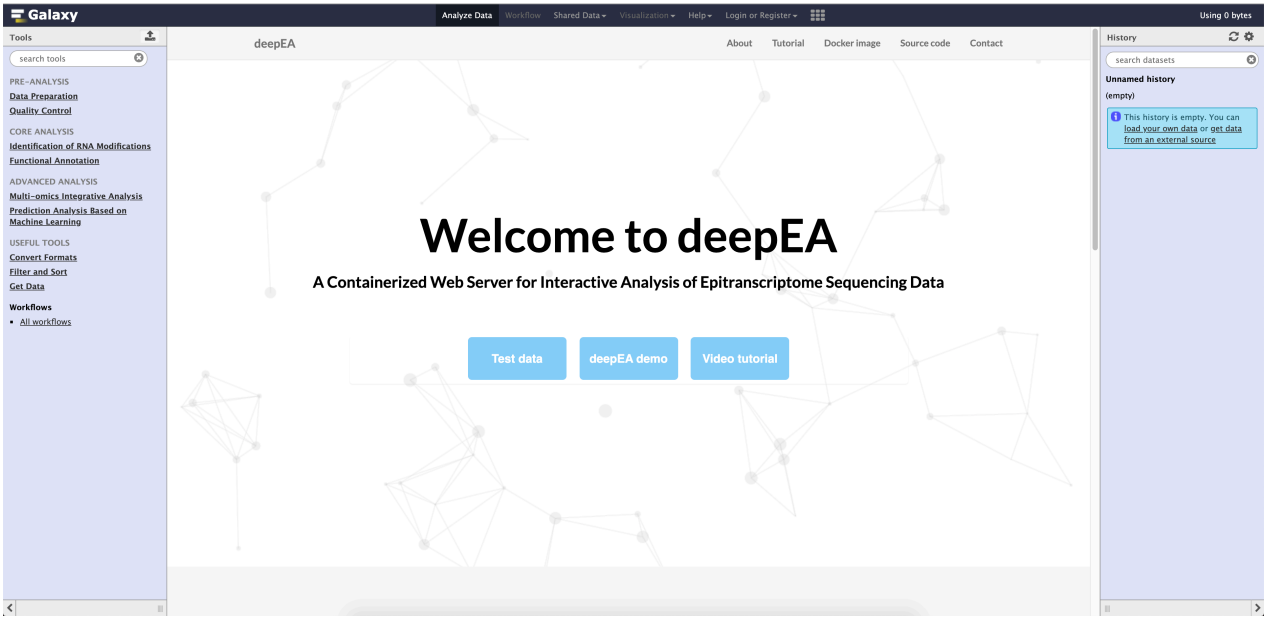
- **Step 2**: deepEA installation from Docker Hub

```
# pull latest deepEA Docker image from docker hub
$ docker pull malab/deepea
```

- **Step 3**: Launch iwa-miRNA local server

```
$ docker run -it -p 8080:8080 malab/deepea bash
$ bash /home/galaxy/run.sh
```

Then, deepea local server can be accessed via http://localhost:8080


Galaxy
Analyze Data
Workflow
Shared Data
Visualization
Help
Login or Register
Using 0 bytes
Tools
search tools
PRE-ANALYSIS
Data Preparation
Quality Control
CORE ANALYSIS
Identification of RNA Modifications
Functional Annotation
ADVANCED ANALYSIS
Multi-omics Integrative Analysis
Prediction Analysis Based on Machine Learning
USEFUL TOOLS
Convert Formats
Filter and Sort
Get Data
Workflows
All workflows
deepEA
About
Tutorial
Docker image
Source code
Contact
Welcome to deepEA
A Containerized Web Server for Interactive Analysis of Epitranscriptome Sequencing Data
Test data
deepEA demo
Video tutorial
History
search datasets
Unnamed history
(empty)
This history is empty. You can load your own data or get data from an external source