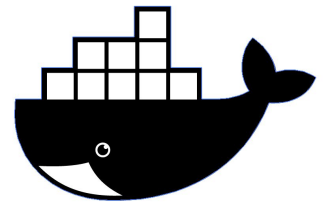# Installing and running Docker and Che

## Step 1: Download and Install Docker

- Docker is the software container for this project.
- Install Docker toolbox on Windows (versions before Windows 10, Windows 10 Home):
  !!**Note**: When installing right click on Docker Toolbox and click "Run as Administrator".
  https://www.docker.com/products/docker-toolbox
    - This will install the Docker Quickstart.
- Install Docker on Windows (Windows 10 Professional or Enterprise 64-bit):
  https://store.docker.com/editions/community/docker-ce-desktop-windows
- Install Docker toolbox on Mac (versions before Mac OS Yosemite 10.10.3):
  https://www.docker.com/products/docker-toolbox
- Install Docker on Mac (Mac OS Yosemite 10.10.3 or above):
  https://www.docker.com/docker-mac
- *Note*: Installing this will require Admin privileges on your computer
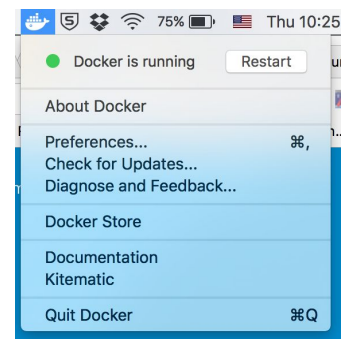- *Note*: Known Docker issue on Windows 7.

## Step 1.5: Run Docker

- Run Docker from Applications.
- On a Mac: The 'Docker Whale' will show up in the application menu bar while it is running.



## Optional Step: Download and install Kitematic

- Kitematic provides GUI for Docker. It is available for Mac OS X 10.8+ and Windows 7+ (64-bit).
- Kitematic comes in the Docker toolbox - you do not need to download if you had to install Docker Toolbox in a previous step.
- On a Mac, download Kitematic from the Docker application. Click on the 'Docker Whale' in the application menu bar, and select "Kitematic" from the dropdown (see screenshot).



## Step 2: Start Che

- Open Terminal (Mac) or Powershell (Windows).
  !!**Note**: For Windows, the path names did not properly link in Mingw. Use Powershell and command `/D/<path>` instead of `D:<path>`
- If you have a Mac:
    - cd to the folder in which you want to run Che (you may want to create a new empty folder for this project). Run command:

- - - cd <folder name>
  - ○ Run the code found in file "che_start_mac.sh".
    - ■ ./che_start_mac.sh
  - ○ View Che at: localhost:7000/
- ● If you have a Windows:
  - ○ Open Docker Quickstart
  - ○ Run the code found at http://www.eclipse.org/che/docs/setup/getting-started/
    - ■ docker run -it --rm -v /var/run/docker.sock:/var/run/docker.sock -v <path>:/data eclipse/che start
    - ■ <path> should be the path to the folder in which you want to run Che (you may want to create an empty folder for this project)
  - ○ View Che at: localhost:8080/

# Step 3: Ensure you have Github and Docker hub account

- ● Create a github account here: http://www.github.com
- ● Create a docker hub account here: http://hub.docker.com
- ● DevEnvy's Github and Docker hub
  - ○ https://github.com/DevEnvy-HackWithFriends
  - ○ https://hub.docker.com/u/devenvy17/