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# Hands-On Setup Steps

**Presenter Name**

**Meeting**

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# Hands-On Demo Requirements

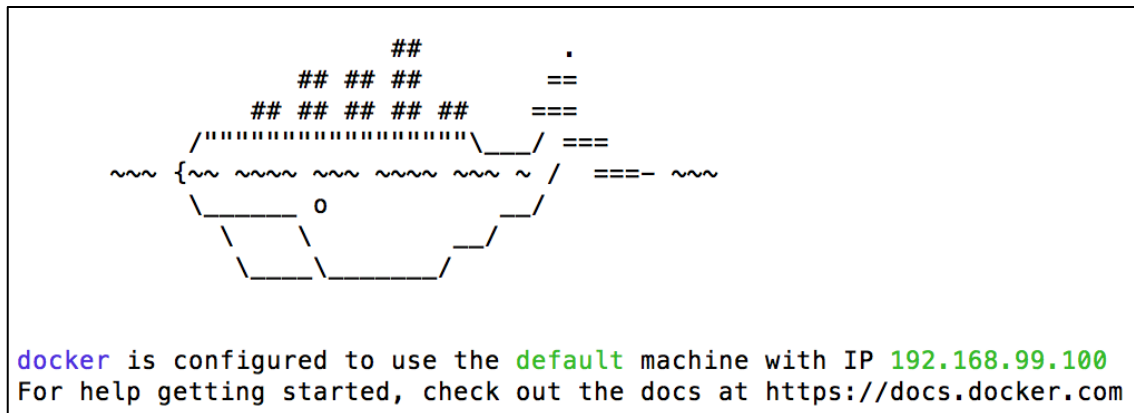
- **Docker:**
  - Install Docker Toolbox (if on Mac or Windows): <https://docs.docker.com/v1.12/>
  - Install Docker for Linux (if on Linux): <https://docs.docker.com/v1.12/>
- **BigDAWG code repository:**
  - Download and unzip: <https://github.com/bigdawg-istc/bigdawg>
  - Or: `git clone https://github.com/bigdawg-istc/bigdawg.git`
- **Networking:**
  - `curl`: for creating BigDAWG queries
  - Port 8080 available
  - No active VPN

## Note

BigDAWG has been tested on these versions of Docker:

- Docker version 1.11.1, build 5604cbe (Tested on Ubuntu 14.04)
- Docker version 1.12.1, build 6f9534c (Tested on Docker Toolbox for Mac, version 0.8.1, build 41b3b25)
- Docker version 1.12.6, build 78d1802 (Tested on Docker Toolbox for Mac)

- **Launch Docker Quickstart Terminal**



- **Change to the "provisions" directory: `cd <bigdawg_home>/provisions`**
- **Run the setup script: `./setup_bigdawg_docker.sh`**
  - **Note: setup can take up to 15-20 minutes depending on system resources.**
  - **The setup script will pull docker containers, run them, download sample MIMIC II data, and insert the data into their respective databases.**



# Verify the Cluster Setup

- Run these commands in a separate Docker Quickstart Terminal
- Check the status of all images: `docker images`

```
user@local:~$ docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
bigdawg/accumulo    latest      804fa44f5eb4     2 seconds ago   1.656 GB
bigdawg/scidb       latest      c1b578c504bb     8 seconds ago   1.237 GB
bigdawg/postgres    latest      1a2600f05cbb     12 seconds ago  1.086 GB
```

You will need these 3 images:

- bigdawg/accumulo
- bigdawg/scidb
- bigdawg/postgres

- Check the status of all running containers: `docker ps`

```
user@local:~$ docker ps
CONTAINER ID   IMAGE                STATUS    PORTS                                                                 NAMES
ef66f13c4694   bigdawg/accumulo    Up 1 minute   0.0.0.0:42424->42424/tcp      bigdawg-accumulo-proxy
3e02a26c9da5   bigdawg/accumulo    Up 1 minute   0.0.0.0:9999->9999/tcp, 0.0.0.0:50095->50095/tcp  bigdawg-accumulo-master
13deae26bff7   bigdawg/accumulo    Up 1 minute   0.0.0.0:9997->9997/tcp      bigdawg-accumulo-tserver0
c6e6b8185d7f   bigdawg/accumulo    Up 1 minute   0.0.0.0:2181->2181/tcp      bigdawg-accumulo-zookeeper
7d3135d17a7e   bigdawg/accumulo    Up 1 minute   0.0.0.0:2181->2181/tcp      bigdawg-accumulo-namenode
3b1710639c09   bigdawg/scidb       Up 1 minute   0.0.0.0:1239->1239/tcp      bigdawg-scidb-data
4d119d50458c   bigdawg/postgres    Up 1 minute   0.0.0.0:5402->5402/tcp      bigdawg-postgres-data2
626ba8425e5b   bigdawg/postgres    Up 1 minute   0.0.0.0:5401->5401/tcp      bigdawg-postgres-data1
e4fe27b0c8ed   bigdawg/postgres    Up 1 minute   0.0.0.0:5400->5400/tcp, 0.0.0.0:8080->8080/tcp  bigdawg-postgres-catalog
```