[Apache Hadoop CDH 5.8 Install with QuickStarts Docker](http://www.bogotobogo.com/Hadoop/BigData_hadoop_CDH5.8_QuickStarts_Docker_Install.php)

CDH 5.8

This tutorial will show how to install and configure version 5.8 of Cloudera's Distribution Hadoop (CDH 5) with [Quickstarts](http://www.cloudera.com/downloads/quickstart_vms/5-8.html" \t "_blank) on Ubuntu 16.04 host.

We have 4 choices:

1. Virtual Box
2. Docker
3. VM Ware
4. KVM

In this tutorial, we'll use Docker Image. The Cloudera QuickStart virtual machines (VMs) include everything we need to try CDH, Cloudera Manager, Cloudera Impala, and Cloudera Search.

The VM uses a package-based install. This allows us to work with or without Cloudera Manager.

Prerequisites

CDH 5 (default) requires 4GB+ memory.

Docker install

We can install Docker using the following command:

$ sudo apt-get install docker.io

Cloudera Docker Container

The Cloudera Docker image is a single-host deployment of the Cloudera open-source distribution, including CDH and Cloudera Manager.

Importing the Cloudera QuickStart Image

We can import the Docker image by pulling it from the Docker Hub:

$ docker pull cloudera/quickstart:latest

Running a Cloudera QuickStart Container

To run a container using the image (**cloudera/quickstart:latest**), we must know the name or hash of the image. The hash is also printed in the terminal when we import, or we can look up the hashes of all imported images with:

$ docker images

Once we know the name or hash of the image, we can run it:

$ docker run --hostname=quickstart.cloudera --privileged=true -t -i [OPTIONS] [IMAGE] /usr/bin/docker-quickstart

Actual **docker run** command we're going to use:

$ docker run --hostname=quickstart.cloudera --privileged=true -t -i -p 8888:8888 -p 80:80 -p 7180:7180 cloudera/quickstart /usr/bin/docker-quickstart

The required flags and other options are described in the following table:

|  |  |
| --- | --- |
| Option | Description |
| --hostname=quickstart.cloudera | Required: Pseudo-distributed configuration assumes this hostname. |
| --privileged=true | Required: For HBase, MySQL-backed Hive metastore, Hue, Oozie, Sentry, and Cloudera Manager. |
| -t | Required: Allocate a pseudoterminal. Once services are started, a Bash shell takes over. This switch starts a terminal emulator to run the services. |
| -i | Required: If you want to use the terminal, either immediately or connect to the terminal later. |
| -p 8888 | Recommended: Map the Hue port in the guest to another port on the host. |
| -p [PORT] | Optional: Map any other ports (for example, 7180 for Cloudera Manager, 80 for a guided tutorial). |
| -d | Optional: Run the container in the background. |

In the command, we used **/usr/bin/docker-quickstart** to start all CDH services, and then run a Bash shell. We can directly run **/bin/bash** instead, if we want to start services manually.

The output from the **docker run** looks good except the Hue.

So, we manually open the Hue:

  
  
  
  
