# Kubernetes - Dashboard Setup

Setting up Kubernetes dashboard involves several steps with a set of tools required as the prerequisites to set it up.

* Docker (1.3+)
* go (1.5+)
* nodejs (4.2.2+)
* npm (1.3+)
* java (7+)
* gulp (3.9+)
* Kubernetes (1.1.2+)

## Setting Up the Dashboard

$ sudo apt-get update && sudo apt-get upgrade

Installing Python

$ sudo apt-get install python

$ sudo apt-get install python3

Installing GCC

$ sudo apt-get install gcc-4.8 g++-4.8

Installing make

$ sudo apt-get install make

Installing Java

$ sudo apt-get install openjdk-7-jdk

Installing Node.js

$ wget https://nodejs.org/dist/v4.2.2/node-v4.2.2.tar.gz

$ tar -xzf node-v4.2.2.tar.gz

$ cd node-v4.2.2

$ ./configure

$ make

$ sudo make install

Installing gulp

$ npm install -g gulp

$ npm install gulp

## Verifying Versions

Java Version

$ java –version

java version "1.7.0\_91"

OpenJDK Runtime Environment (IcedTea 2.6.3) (7u91-2.6.3-1~deb8u1+rpi1)

OpenJDK Zero VM (build 24.91-b01, mixed mode)

$ node –v

V4.2.2

$ npn -v

2.14.7

$ gulp -v

[09:51:28] CLI version 3.9.0

$ sudo gcc --version

gcc (Raspbian 4.8.4-1) 4.8.4

Copyright (C) 2013 Free Software Foundation, Inc. This is free software;

see the source for copying conditions. There is NO warranty; not even for

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

## Installing GO

$ git clone https://go.googlesource.com/go

$ cd go

$ git checkout go1.4.3

$ cd src

Building GO

$ ./all.bash

$ vi /root/.bashrc

In the .bashrc

export GOROOT = $HOME/go

export PATH = $PATH:$GOROOT/bin

$ go version

go version go1.4.3 linux/arm

## Installing Kubernetes Dashboard

$ git clone https://github.com/kubernetes/dashboard.git

$ cd dashboard

$ npm install -g bower

## Running the Dashboard

$ git clone https://github.com/kubernetes/dashboard.git

$ cd dashboard

$ npm install -g bower

$ gulp serve

[11:19:12] Requiring external module babel-core/register

[11:20:50] Using gulpfile ~/dashboard/gulpfile.babel.js

[11:20:50] Starting 'package-backend-source'...

[11:20:50] Starting 'kill-backend'...

[11:20:50] Finished 'kill-backend' after 1.39 ms

[11:20:50] Starting 'scripts'...

[11:20:53] Starting 'styles'...

[11:21:41] Finished 'scripts' after 50 s

[11:21:42] Finished 'package-backend-source' after 52 s

[11:21:42] Starting 'backend'...

[11:21:43] Finished 'styles' after 49 s

[11:21:43] Starting 'index'...

[11:21:44] Finished 'index' after 1.43 s

[11:21:44] Starting 'watch'...

[11:21:45] Finished 'watch' after 1.41 s

[11:23:27] Finished 'backend' after 1.73 min

[11:23:27] Starting 'spawn-backend'...

[11:23:27] Finished 'spawn-backend' after 88 ms

[11:23:27] Starting 'serve'...

2016/02/01 11:23:27 Starting HTTP server on port 9091

2016/02/01 11:23:27 Creating API client for

2016/02/01 11:23:27 Creating Heapster REST client for http://localhost:8082

[11:23:27] Finished 'serve' after 312 ms

[BS] [BrowserSync SPA] Running...

[BS] Access URLs:

--------------------------------------

Local: http://localhost:9090/

External: http://192.168.1.21:9090/

--------------------------------------

UI: http://localhost:3001

UI External: http://192.168.1.21:3001

--------------------------------------

[BS] Serving files from: /root/dashboard/.tmp/serve

[BS] Serving files from: /root/dashboard/src/app/frontend

[BS] Serving files from: /root/dashboard/src/app

## The Kubernetes Dashboard

