# **OpenHIM documentation for implementers**

## **Manual Installation**

If you don’t have ubuntu or prefer to proceed with the installation manually, please follow the following steps.

## **Installing the OpenHIM Core**

The latest active LTS is **recommended**.

**Note**: libappstream3 may cause problems with the npm package manager if your ubuntu instance is not fully updated.

1. Install the latest stable Node.js v8 or greater

$ curl -sL https://deb.nodesource.com/setup\_8.x| sudo -E bash

$ sudo apt-get install -y nodejs gcc g++ make

1. Install Yarn

$ curl -sL https://dl.yarnpkg.com/debian/pubkey.gpg | sudo apt-key add -

$ echo "deb https://dl.yarnpkg.com/debian/ stable main" | sudo tee /etc/apt/sources.list.d/yarn.list

$ sudo apt-get update && sudo apt-get install yarn

1. Install and start MongoDB 2.6 or greater. (If you are running Ubuntu 16.04, you may want to configure MongoDB as a systemd service that will automatically start on boot)
2. Install Git

$ apt-get install git

1. Install npm

$ sudo apt install npm

1. Install the OpenHIM-core package globally (this will also install an OpenHIM-core binary to your PATH)

$ sudo yarn global add openhim-core

1. Start the server by executing below command from anywhere

$ openhim-core

To make use of your own custom configurations, you have two options:

You can copy the default.json config file and override the default settings:

$ wget <https://raw.githubusercontent.com/jembi/openhim-core-js/master/config/default.json>

* Edit default.json as required
* Start opehim core with the configuration

openhim-core --conf=path/to/default.json

Or, you can use environment variables to set specific parameters. Environment variables use a \_ as a separator for nested keys. For example, to change the port that the Application Programming Interface (API) listens on and to change the ports that the router listens on you could do the following:

api\_httpsPort=8081 router\_httpsPort=50456 router\_httpPort=50457 npm start

**Note**: The environment variables are case sensitive.

For more information about the config options, please visit [OpenHIM Config Options](https://github.com/jembi/openhim-core-js/blob/master/config/config.md).

## **Installing the OpenHIM Console**

Before installing the OpenHIM console, it is required that you first have the OpenHIM core server up and running. The OpenHIM console communicates with the OpenHIM core via its API to pull and display data.

It is **recommended** that as soon as the OpenHIM core is up and running that you setup a properly signed TLS certificate. However, it is possible to do this later through the OpenHIM console under ‘Certificates’ on the left navigation pane.

Next, you need to download the latest release of the web app and deploy it to a web server (Replace the X’s in the below command to the latest release):

1. Get the latest release

sh wget https://github.com/jembi/openhim-console/releases/download/vX.X.X/openhim-console-vX.X.X.tar.gz

1. Export the contents of the download to apache root directory

tar -vxzf openhim-console-vX.X.X.tar.gz --directory /var/www/html

The next step is vital for the successful setup of the OpenHIM console. Firstly, you need to configure the console to point to your OpenHIM core server and lastly, navigate to the config/default.js file in the folder that you extracted the OpenHIM console’s contents to and edit it as follows:

{

"version": "x.x.x", //Replace the x's with the latest release

"minimumCoreVersion": "3.4.0",

"protocol": "https",

"host": "localhost",

"port": 8080

"title": "OpenHIM Admin Console

"footerTitle": "OpenHIM Administration Console",

"footerPoweredBy": "<a href='http://openhim.org/' target='\_blank'>Powered by OpenHIM</a>",

"loginBanner": "",

"mediatorLastHeartbeatWarningSeconds": 60,

"mediatorLastHeartbeatDangerSeconds": 120

}

## **Ensure communication between the OpenHIM Console and Core**

Make sure you have the latest Apache server installed sudo apt-get install apache2 Make sure the apache service is up and running sudo service apache2 status

References:

https://openhim.readthedocs.io/en/latest/getting-started.html#manual-installation