



# HyperPerform User Manual

Organisation: <https://github.com/HyperPerform>

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# 1 System Overview

Many different tools are available for measuring the quality of products made, but very few tools exist which assess the quality of the people making said products. People play a huge role in a project, and trying to monitor each and every one becomes a tedious task which diverts man power away from other more critical tasks. Whether it be for an end of year evaluation, or attempting to assess the current status of a project, generating a report on a staff member can help keep up productivity, as well as get them any help they need in order to resume quality performance. By ensuring that there is constant quality performance from each individual on a project, one can increase project quality as well as reduce project risks such as loss of an important team member during a critical stage of a project's life-cycle.

## 2 System Configuration

This guide has been made for users using a Linux based operating system. To install the HyperPerform system on the machine you will be required to have an active connection to the internet. Please note that high amounts of data might be consumed.

### 2.1 Docker installation

To install system with ease and avoid all configurations you can download Docker. Docker can be found at [www.docker.com](http://www.docker.com) where guides are made available for installing docker on a particular operating system. If you intend to use Docker to install the HyperPerform system then please ensure you install Docker on your machine.

### 2.2 Manual Installation

The manual installation requires you to download the source code from the GitHub repository. The newest release is highly recommended. To carry out a manual installation please ensure you have Maven and the WildFly application server on your machine.

Maven can be downloaded from: [maven.apache.org](http://maven.apache.org)

WildFly can be downloaded from: [wildfly.org](http://wildfly.org)

Please ensure you download WildFly 10. The HyperPerform system was fully tested on this version of WildFly. Any other version might produce unexpected behaviour.

For the front-end Dashboard please ensure you have Nodejs (version 6.4.0 or higher) installed on your machine. Nodejs can be found at <https://nodejs.org/en/>.

## 3 Installation

### 3.1 Docker Installation

Assuming you have docker installed on your machine, simply run the following command in terminal:

```
docker run hyperperform/HyperPerform
```

This will download the HyperPerform Docker image from DockerHub and run it on your machine.

The front end component does not have a Docker image at this point in time. To install the front end component please look at section 3.2.5 for the manual installation.

### 3.2 Manual Installation

This installation guide assumes a Linux Server running Ubuntu 14 or higher:

#### 3.2.1 WildFly

Once you have downloaded the WildFly application server please carry out the WildFly installations and add a user. Once this is done proceed to installing PostgreSQL.

#### 3.2.2 PostgreSQL

The install PostgreSQL on your machine:

Install via terminal:

```
sudo apt-get update  
sudo apt-get install postgresql postgresql-contrib
```

To configure PostgreSQL to connect remotely:

```
sudo nano /etc/postgresql/9.3/main/postgresql.conf
```

Edit the following lines:

```
listen_addresses = "*"

```

### Create database hyperperform and the tables

Run the following commands in terminal:

```
psql -c 'CREATE DATABASE hyperperform;' -U postgres

psql -d hyperperform -c 'CREATE TABLE public."GitPush" ( id
integer NOT NULL, repository character varying(255), "
timestamp" timestamp without time zone, username character
varying(255), commitsize integer, url character varying(255)
, message character varying(255), CONSTRAINT "GitPush_pkey"
PRIMARY KEY (id) ); CREATE SEQUENCE public.
hibernate_sequence INCREMENT 1 MINVALUE 1 MAXVALUE
9223372036854775807 START 1 CACHE 1;' -U postgres

psql -d hyperperform -c 'CREATE TABLE public."TravisEvent" ( id
integer NOT NULL, branch character varying(255), commiter
character varying(255), repo character varying(255), status
character varying(255), "timestamp" timestamp without time
zone, CONSTRAINT "TravisEvent_pkey" PRIMARY KEY (id));' -U
postgres

psql -d hyperperform -c 'CREATE TABLE public."CalendarProject"
( projectid integer NOT NULL, calendarid character varying
(255), collaborators bytea, creator character varying(255),
duedate timestamp without time zone, eventid character
varying(255), reponame character varying(255), "timestamp"
timestamp without time zone, CONSTRAINT "
CalendarProject_pkey" PRIMARY KEY (projectid));' -U postgres

psql -d hyperperform -c 'CREATE TABLE public."CalendarMeeting"
( meetingid integer NOT NULL, calendarid character varying
(255), creator character varying(255), duedate timestamp
without time zone, eventid character varying(255), location
character varying(255), "timestamp" timestamp without time
zone, CONSTRAINT "CalendarMeeting_pkey" PRIMARY KEY (
meetingid));' -U postgres
```

```

psql -d hyperperform -c 'CREATE TABLE public."
CalendarMeeting_attendees" ( "CalendarMeeting_meetingID"
integer NOT NULL, attendees integer, attendees_key character
varying(255) NOT NULL, CONSTRAINT "
CalendarMeeting_attendees_pkey" PRIMARY KEY ("
CalendarMeeting_meetingID", attendees_key), CONSTRAINT
fkn4q1pmj9vx3tfsaw9irp9voax FOREIGN KEY ("
CalendarMeeting_meetingID") REFERENCES public."
CalendarMeeting" (meetingid) MATCH SIMPLE ON UPDATE NO
ACTION ON DELETE NO ACTION);' -U postgres

psql -d hyperperform -c 'CREATE TABLE public."GitIssue"(id
integer NOT NULL, action character varying(255), assignee
character varying(255), createdby character varying(255),
issueid bigint, repository character varying(255), "
timestamp" timestamp without time zone, title character
varying(255), url character varying(255), CONSTRAINT "
GitIssue_pkey" PRIMARY KEY (id));' -U postgres

psql -d hyperperform -c 'CREATE TABLE public."User" (email
character varying(255) NOT NULL, gitusername character
varying(255), name character varying(255), "position"
integer, profilepicture bytea, role integer, surname
character varying(255), username character varying(255),
password character varying(255), CONSTRAINT "User_pkey"
PRIMARY KEY (email));' -U postgres

psql -d hyperperform -c 'CREATE TABLE "AccessEvent"(id integer
NOT NULL, email character varying(255), day bigint, deviceid
character varying(255), employeeid character varying(255),
name character varying(255), surname character varying(255),
"timestamp" timestamp without time zone, CONSTRAINT "
AccessEvent_pkey" PRIMARY KEY (id) );' -U postgres

psql -d hyperperform -c 'CREATE TABLE public."ForecastData"(
data character varying(10485760) NOT NULL, CONSTRAINT "
ForecastData_pkey" PRIMARY KEY (data));' -U postgres

```

### 3.2.3 ActiveMQ

To setup ActiveMQ on your server:

- Start up your WildFly application server
- Navigate to WildFly management console on localhost:9990
- Navigate to configurations tab and click on sub-systems
- Scroll down and search for Messaging-ActiveMQ and click on it
- Click on default, select queues/topics

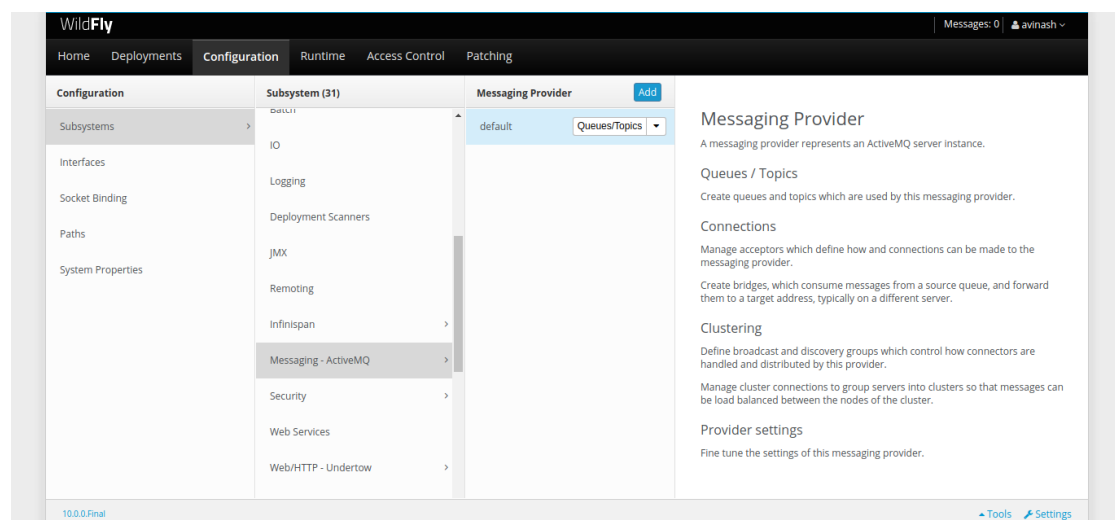
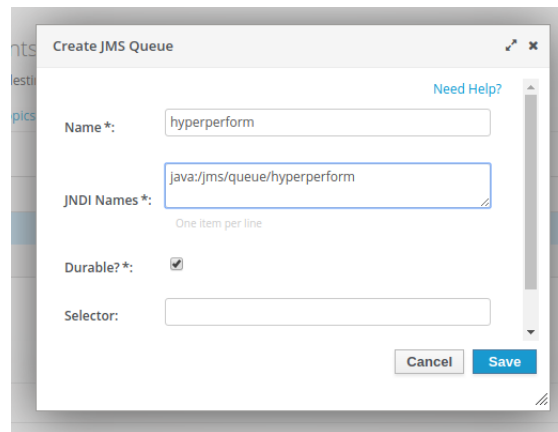


Figure 1: Subsystems Configuration

- Click add and input the following information:
  - Name\*: hyperperform
  - JNDI Names\*: java:/jms/queue/hyperperform



The image shows a 'Create JMS Queue' dialog box. It has a title bar with a maximize icon and a close icon. Inside the dialog, there is a 'Name \*:' field with the value 'hyperperform'. Below it is a 'JNDI Names \*:' field with the value 'java:/jms/queue/hyperperform'. A small text 'One item per line' is below the JNDI Names field. There is a 'Durable? \*:' checkbox which is checked. Below that is a 'Selector:' field which is empty. At the bottom right, there are 'Cancel' and 'Save' buttons. A 'Need Help?' link is in the top right corner.

Figure 2: Queue Configuration

- Click save

### 3.3 Notifications

Please Note: These settings are for a Gmail configuration if you are running your own smtp server you need to adjust the information appropriately. To setup Notifications via Email on the server:

- Start up your WildFly application server
- Navigate to WildFly management console on localhost:9990
- Navigate to configurations tab and click on sub-systems
- Scroll down and search for Email and click on it

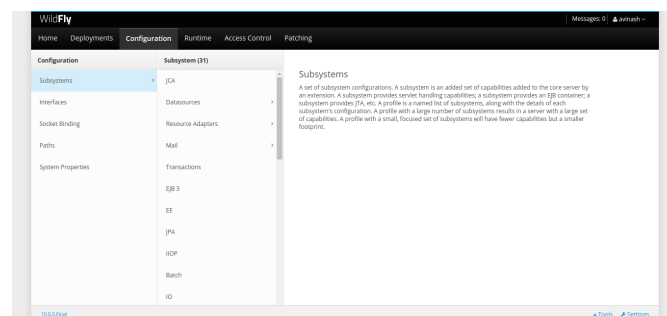


Figure 3: Subsystem Email



- Click add and input the following information:
  - Name\*: Gmail
  - JNDI: java:/jboss/mail/gmail
- Click save
- There after View the new configuration and Add a new type
  - Socket-binding: mail-smtp
  - Type: smtp
  - Username: "Your@gmail account"
  - Password: "Gmail password"
  - SSL: enable
- There after reload the server
- After reloading navigate to configurations tab and the Socket Bindings

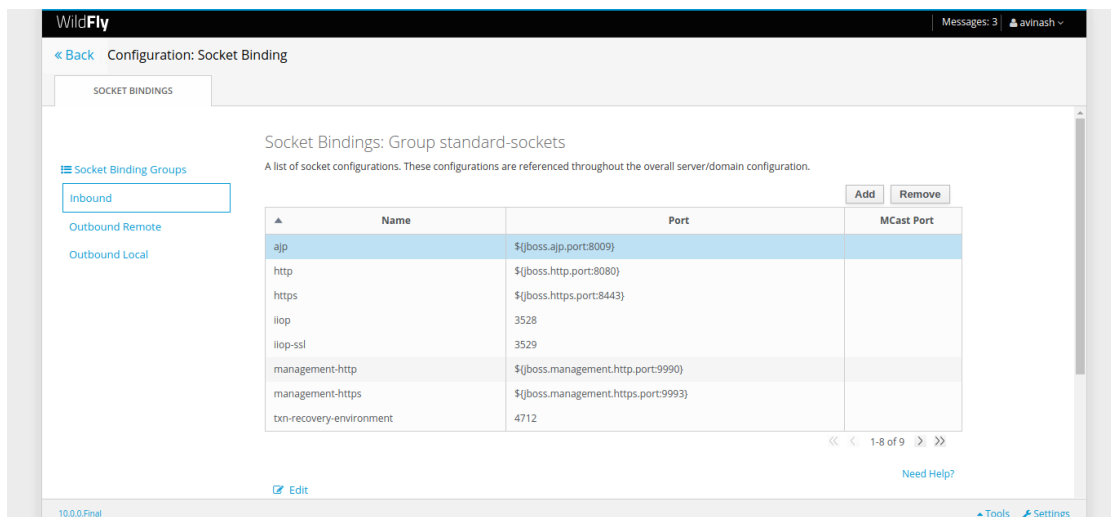


Figure 4: Socket Bindings

- Click on View and there after under standard-sockets click view
- Navigate to Outbound Remote and edit the mail-smtp socket bindings
  - Host: smtp.gmail.com

– Port: 465

Socket Binding Groups

Inbound

Outbound Remote

Outbound Local

Edit

Need Help?

Name \*: mail-smtp

Host \*: smtp.gmail.com

Port \*: 465

Source Interface \*:

Source Port \*: 0

Fixed Source Port? \*: ☐

Required fields are marked with an asterisk (\*).

Cancel Save

Figure 5: Outbound Socket Configuration

- Reload server

### 3.3.1 Deploying to WildFly

To deploy the HyperPerform system to the application you will need to build the system using from the source code.

- Ensure the WildFly server is running.
- Navigate to <https://github.com/HyperPerform/hyper-perform-server/releases> and download the newest release source code.
- Extract the source code
- Navigate to the root directory of the source code. A file named pom.xml should be clearly visible.
- Run the following command: `mvn clean wildfly:deploy`
- Maven will then ask you to provide your user name and password for the Wildfly Server.
- Thereafter Maven will automatically deploy the compiled code (war) to WildFly

### 3.3.2 Front-end Dashboard

Please note that there is no release yet for the dashboard and there might be a few bugs, or limitations to the software.

To start up the front end please ensure you have Node 6.4.0 or higher installed on your machine. Node can be found at <https://nodejs.org/en/>.

**Please make sure that these commands execute successfully before attempting to run the system:**

```
npm install -g gulp
npm install -g bower
npm install -g sass
```

Once that has completed with no errors do the following.

- Download the Dashboard source code from <https://github.com/HyperPerform/hyper-perform-web-application>
- Navigate to the root directory of the source code

Run the following commands in terminal:

```
npm install
gulp build
gulp serve
```

The front-end system will auto launch in your default browser in order to view the data in the front-end system the Wildfly application server must be running.

## 4 Getting Started/Using the System

Once the front-end Dashboard is served your default browser should automatically open. In the event that it didn't, simply open the browser of your choice and navigate to the following URL: `localhost:3000`.

Once the Dashboard loads you will be presented with the following screen:

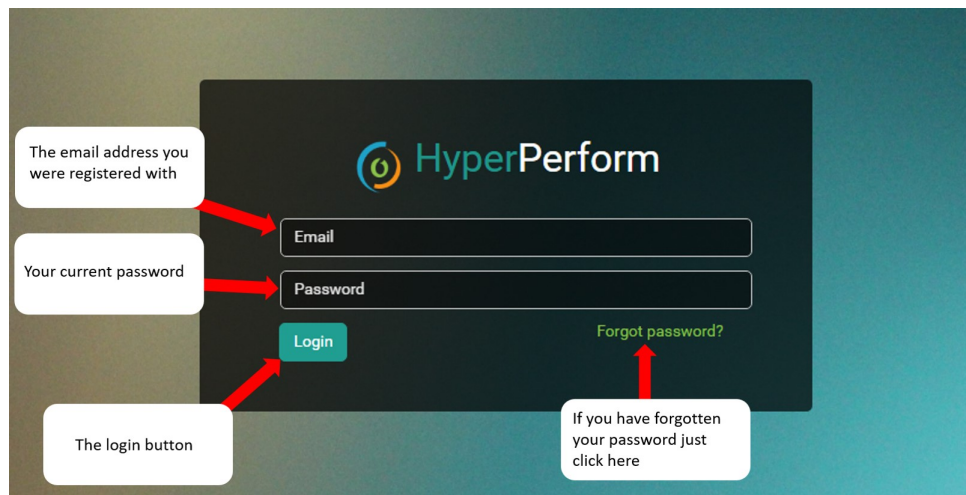


Figure 6: Login screen

The default username and password is Admin. This is a default login for when the system is installed for the first time. Once managers exist within the database this feature will be disabled for security purposes.

Once logged in the user will be presented with the following screen:

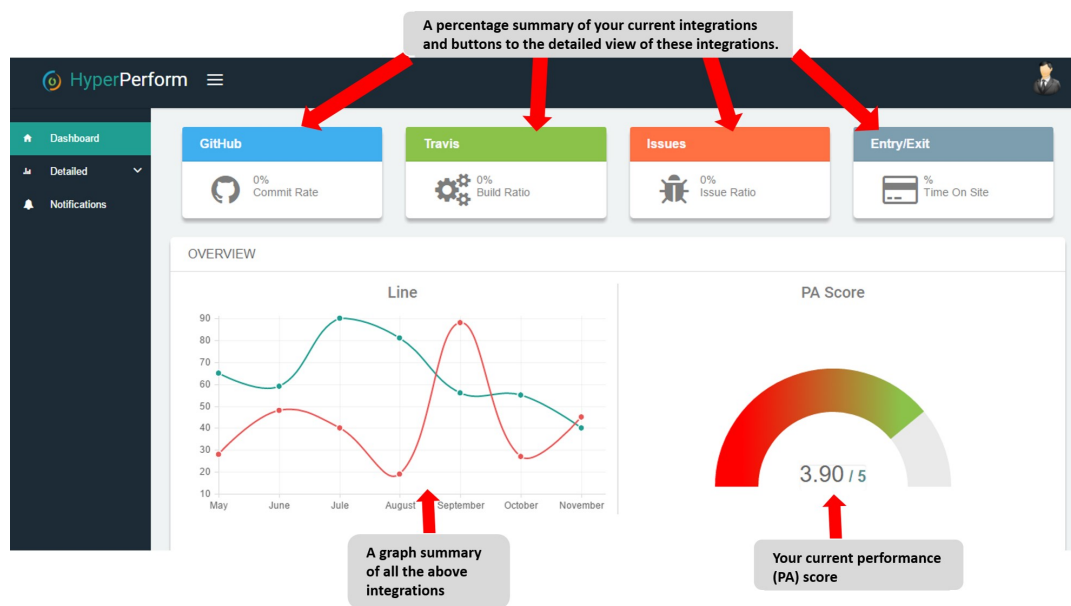


Figure 7: Dashboard

On this screen you are given a summarised view of all the integrations parts of the HyperPerform system. Note the four colour-coded panels on top, each of these panels represents an integration. These panels are click-able and will direct you to a details screen which will be discussed in the next section 5.

If you wish to logout then you merely click on the profile icon in the top right corner. Once clicked you will be presented with a small menu.

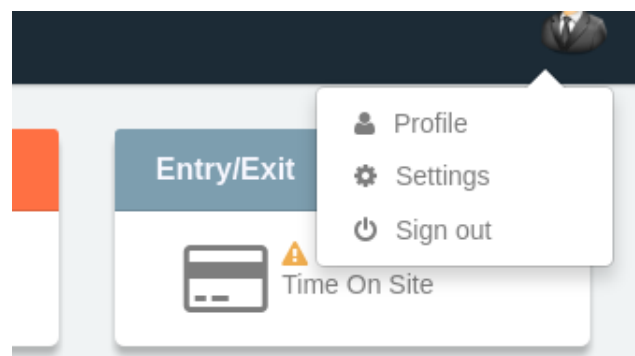


Figure 8: Dashboard

In this menu you have a few options to choose from. The Profile option will direct you to a profile page where you will be able to view and edit your current details.

The second option is a simple settings page where you can customize the dashboard.

And finally the Sign Out option can be used to log off the system. Once logged off you will be returned to the login screen in Figure 1.