**HYGIEIA - DASHBOARD** :

1. **HYGIEIA:**

**Hygieia** is an OSS Project Sponsored by Capital One which promotes a single, configurable, easy to use dashboard to visualize near real-time status of the entire delivery pipeline. This is an open source initiative to provide a unified, configurable, and easy-to-use **DevOps dashboard** for an end-to-end application CI/CD pipeline. The point of having them is to have a view of all the tools in a single dashboard.

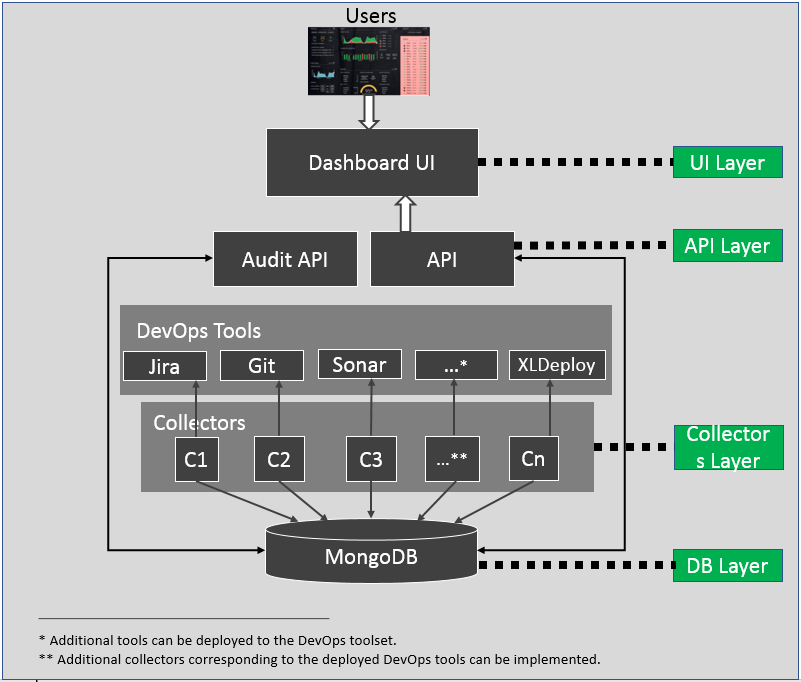
**2. Layers:**

There are 4 main layers of Hygieia Dashboard as follows,

* **Collector Layer**
* **API Layer**
* **UI Layer**
* **DB Layer**

**Features**

* **Team Dashboard**: Monitor things like work items, code repo, builds, quality items (unit tests, security, coverage, etc.), and deployments in one dashboard.
* **Real-time Status:** Monitor quality, productivity, and work in process on a real-time basis within the dashboard.
* **Configurable View:** Set up the dashboard to display the widgets that matter most to your project, which helps amplify and shorten the feedback loop.
* **Open Source :** Hygieia is open source and free for everyone to use. We also encourage external users to commit to the project.



**Layers of Hygieia**

**3.PreRequisites**

The following are the prerequisites to set up Hygieia:

* Install Git - Install Git for your platform.
* Install Java - Version 1.8 is recommended
* Install Maven - Version 3.3.9 and above are recommended
* MongoDB
* Node JS
* npm

**4. Setting Up the HYGIEIA Dashboard:**

These are the four main steps to followed in a sequence to setup Hygieia dashboard.

* DB setup
* Hygieia CodeBase Setup

**Configuration steps: DB**

\*Download and install Mongo DB

* **Step 1**: Create Data Directory

Create a data directory in the C:/ Drive I.e a folder with name “Data” and one more folder within “Data” named as “db”.

* **Step 2**: Open Command Prompt

Change the current working directory to the bin directory of your MongoDB installation.

In the command prompt, run the following command:

{ cd C:\Program Files\MongoDB\Server\3.2\bin>mongod --dbpath C:/data }

Where C:/data is the path of the “data” folder you created.

* **Step 3**: Starting Mongo

Open a new Command prompt and run the command in the “C:\” directory. Run the “mongo” command as shown below.

“C:\mongo”

Now the mongo server starts at 27017 port.

* **Step 4**: Create DB

Create a database and create a user data as shown below.

To create a database, command - “use DB\_NAME”

Eg : “use dashboard” , “use Virtusa” implies you are creating a new Db with a name.

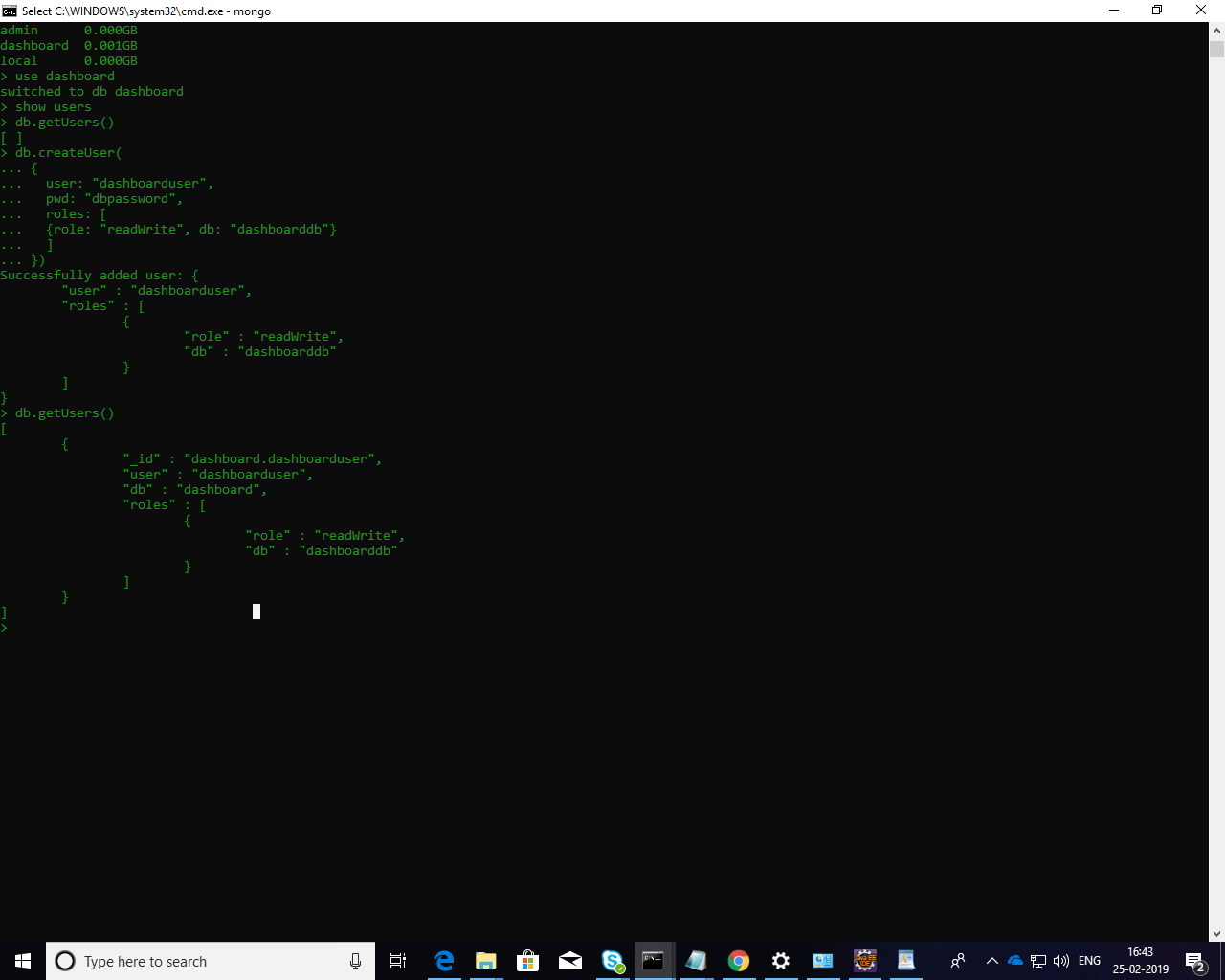
Now run the following commands:

Creating DB: use dashboard

Creating User : > db.createUser({ user: "dashboarduser", pwd: "dbpassword", roles: [

{role: "readWrite", db: "dashboarddb"} ]})

Output : Successfully added user: { "user" : "dashboarduser", "roles" : [ {"role" : "readWrite", "db" : "dashboarddb" } ] }



----------------------------------- Done with setting up the DB. --------------------------

**Configuration steps: Hygieia CodeBase Setup**

Download or clone the Hygieia code base from GIT repositories -

<https://github.com/Hygieia/Hygieia> - Link for Hygieia master

<https://github.com/Hygieia/hygieia-core> - link for Hygieia core

**Make sure you download both the folders.**

**Step 1:** Run Maven Build – **Hygieia Core**

Open a new command prompt – and go to the path **\Hygieia-core** and run the command -

“**mvn clean install package**”.

**Step 2**: Run Maven Build – **Hygieia Master**

Go to **\Hygieia-master** directory run:

“**mvn clean install package**”

successful build gives the following structure.

└── Hygieia

├── UI

├── API

├── AuditAPI

└── Collectors

├─ Feature

│ ├── JIRA

│ └── VersionOne

└─ Repos

' ├── GitHub

' ├── GitLab

' ├── Subversion

' └── Bitbucket

'

'

and so on.

The output .jar file is generated in the \target folder for each component of Hygieia, including collectors.

**Step 3:**

Go to **/UI** Folder under **Hygieia-master/** and open with cmd.

1. npm install -g gulp
2. npm install

----------------------------Done with Hygieia code base setup-----------------------------

**Steps to Run Hygieia:**

**Step 1: Starting Mongo DB (DB Layer)**

1. Open cmd
2. Run mongod --dbpath C:/data
3. Mongo Db starts on port 27017

**Step 2: Starting api (Api Layer)**

1. Go to /api under /Hygieia-master
2. Create file with name **api.properties** with the following details.

dbname=dashboard

dbusername=dashboarduser

dbpassword=dbpassword

dbhost=[Host on which MongoDB is running, defaults to localhost]

dbport=[Port on which MongoDB is listening, defaults to 27017]

dbreplicaset=[false if you are not using MongoDB replicaset]

dbhostport=[host1:port1,host2:port2,host3:port3]

server.contextPath=[Web Context path, if any]

server.port=[Web server port - default is 8080]

1. Go to /target folder under /api and open in cmd and run below command

**java -jar api.jar --spring.config.location=C:\[path to]\Hygieia\api\api.properties -Djasypt.encryptor.password=hygieiasecret**

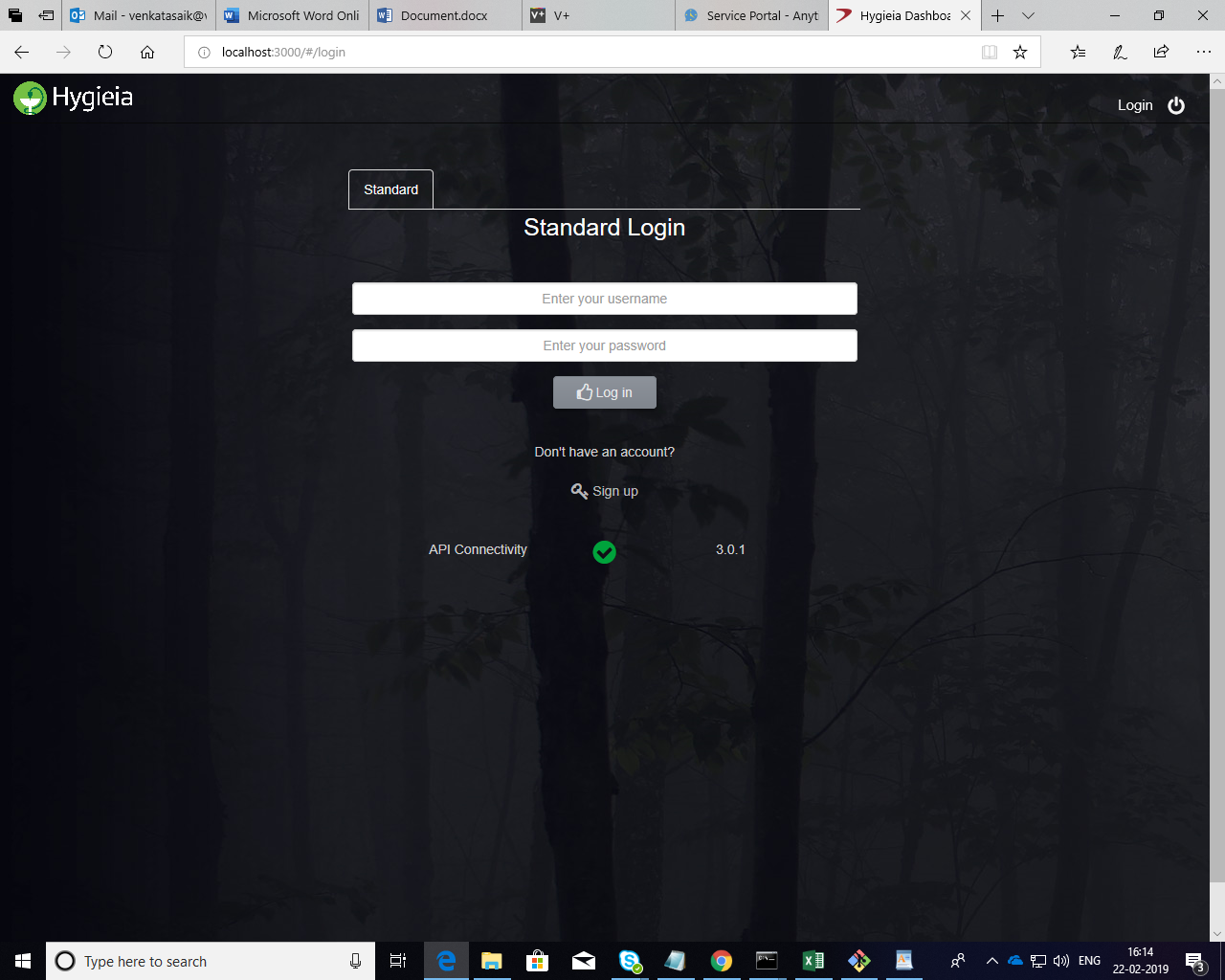
The api should be up and running on port 8080 (default)

1. Open Browser and <http://ServerHost:Port/api/ping>gives true if the api is running successfully.

**Step 3** : **Starting UI ( UI Layer)**

1. Open UI/ Folder Under Hygieia-master with cmd
2. Run “**gulp serve**”

The server will start at “localhost:3000” and dashboard will be up.



1. First time Click on SignUp and create User.
2. After Creation log in with new user.

**Step 4: Running Collectors (Collector Layer)**

Hygieia has different types of collectors from Scm, Build ,Quality, Tests, Deploy etc.

Each collector has its own configuration

Configuration for each Collector can be found here

<https://hygieia.github.io/Hygieia/collectors.html>