Verizon Hygieia Dashboard Documentation

# Mongo DB Installation

Know your PC Architecture, Open Command prompt and run below command

**C:>wmic os get osarchitecture**

## 1) Download MongoDB

Download MongoDB from Infy portal - <http://sparshv2/portals/CCD/Downloads/Pages/Downloads.aspx> 🡪 Search ‘mongodb’

## 2) Extract and create Folders

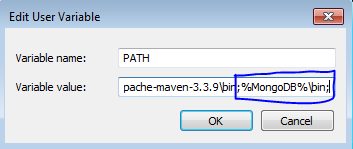
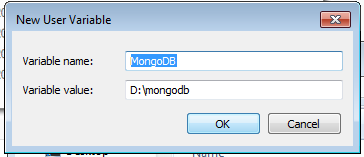
Using custom option install in ‘d:/mongodb’ drive

**Create following directories** manually inside d:/mongodb

D:\mongodb\datae

D:\mongodb\log

## 3) Path and Installation



MongoDB = D:\mongodb D:\mongodb\bin

4. Create a MongoDB config file

It’s a text file, for example: d:\mongodb\mongo.config

d:\mongodb\mongo.config

##store data here

dbpath=D:\mongodb\data

##all output go here

logpath=D:\mongodb\log\mongo.log

##log read and write operations

diaglog=3

## 4) Start the MongoDB Server

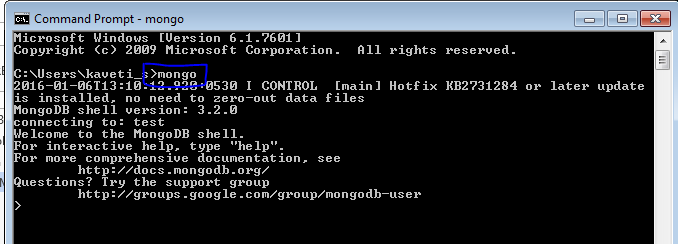
**Start**: Run below command in command prompt **Admin mode**

Open CMD > go to ‘cd d:\mongodb\bin’

1. D:\MongoDB\bin> mongod.exe --config="D:\MongoDB\mongo.config"
2. D:\MongoDB\bin> mongod --storageEngine=mmapv1 --dbpath=D:\MongoDB 🡪 This makes MongoDB up

Open new CMD in admin mode goto ‘D:\MongoDB\bin’ and execute below command

3) D:\MongoDB\bin>Mongo 🡪 Execute only first time to create Id and Pass

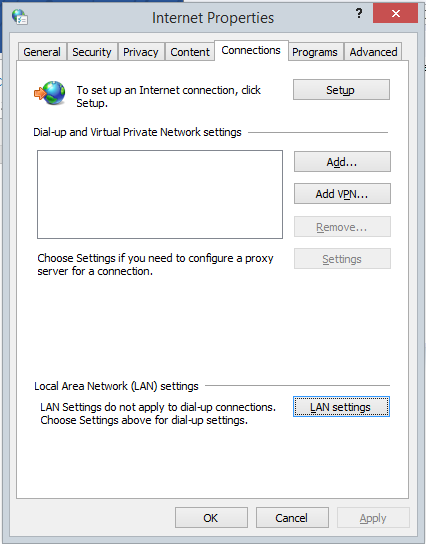


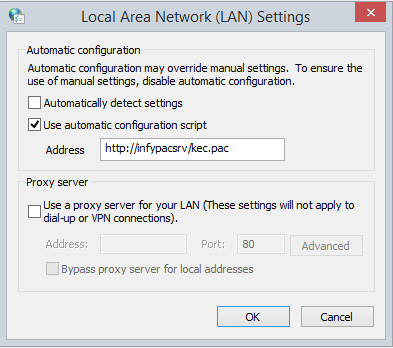
Proxy settings for Infosys network

Windows Key 🡪 Search 🡪 Internet Options 🡪 Switch to Connections tab 🡪 Click LAN settings

Check **Use automatic configuration script** and enter the following **Address**

<http://infypacsrv/kec.pac>

**

**

## 5. Configure to Hygieia

1. Run the following commands in above CMD (above point 3 **same CMD prompt**)

* use dashboarddb

Output -> switched to db dashboarddb

db.createUser(

{

user: "dashboarduser",

pwd: "1qazxSw2",

roles: [

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

]

})

# Configuring Hygieia

1. Download Hygieia 2.0 [Install this] <https://github.com/capitalone/Hygieia>

Download Hygieia 1.5.0

<https://github.com/capitalone/Hygieia/releases/tag/Hygieia-1.5.0>

1. Download Maven, install JDK, JRE (via infy portal) and setup environment variable for both Java (Set **JDK path**, not JRE. Otherwise Hygieia 🡪 API project will not build later) and Maven. Open CMD and run > ‘java --version’ and ‘mvn --version’ to verify Maven and Java setup is working properly

Set System Variables

JAVA\_HOME= C:\Program Files\Java\jdk1.8.0\_74

Path= %JAVA\_HOME%\bin;

1. Change Settings.xml file at **C:\apache-maven-3.3.9\conf (Or** path @Maven installed**)**

Also copy **settings.xml** file @C:\Users\<userID>\.m2\settings.xml



<proxy>

<id>myproxy</id>

<active>true</active>

<protocol>http</protocol>

<host>10.76.242.101</host>

<port>80</port>

<nonProxyHosts>\*.google.com|ibiblio.org</nonProxyHosts>

</proxy>

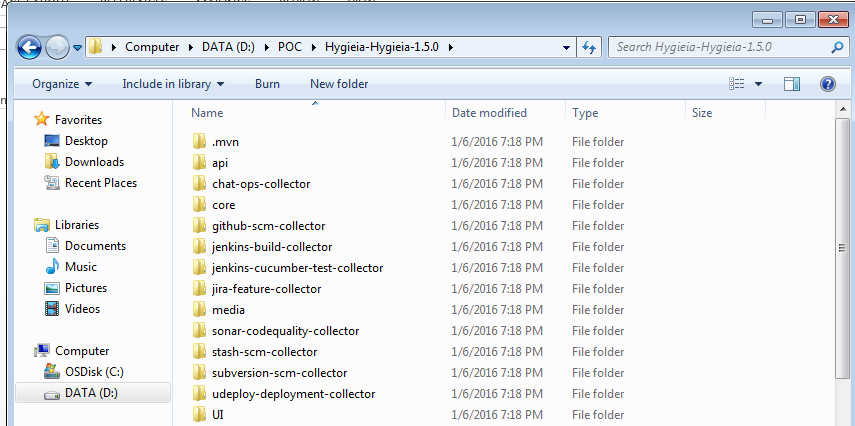
1. Download and Install ‘**Git’** [https://git-scm.com/download/win] and set PATH environment variable:

* Right-Click on My Computer
* Click Advanced System Settings
* Click Environment Variables
* Then under System Variables look for the path variable and click edit
* Add the path to git’s bin and cmd at the end of the string like this:

;C:\Program Files\Git\bin\git.exe;C:\Program Files\Git\cmd

* Open CMD in Admin mode and run ‘git --version’ to verify CMD is able to identify GIT

1. Download and Install ‘**Node JS’** [https://nodejs.org/en/download/]
2. Extract Hygieia folder



Open command prompt in Admin mode and go to Hygieia folder and run **mvn** cmds as below

1. D:\Hygieia-master> mvn clean install package
2. D:\Hygieia-master> mvn clean install package -Dmaven.test.skip=true (or –for Skipping PDM Violations)
3. D:\Hygieia-master> mvn clean install package -Dmaven.test.skip=true -Dpmd.failOnViolation=false

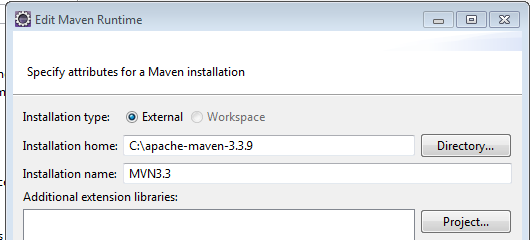
**If UI Throws Error – Ignore as of now…….**

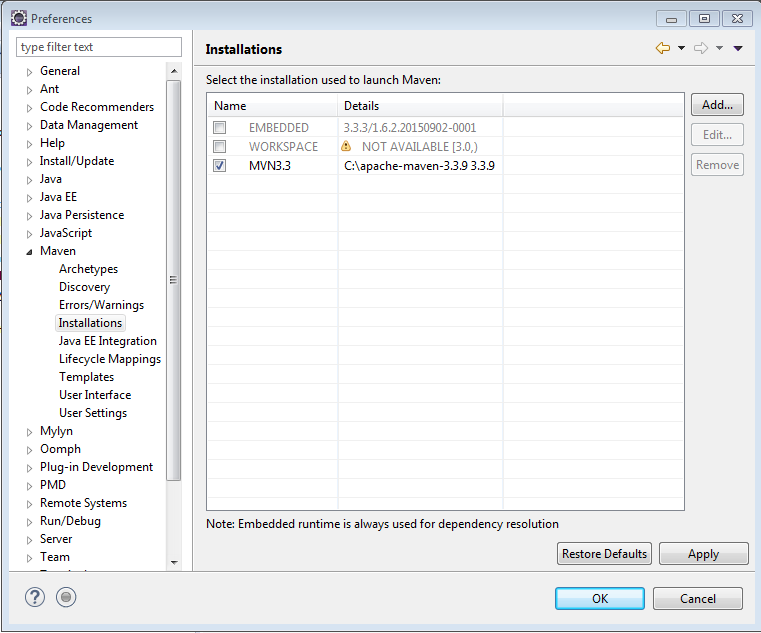
Now open Eclipse

## Configure Maven in Eclipse

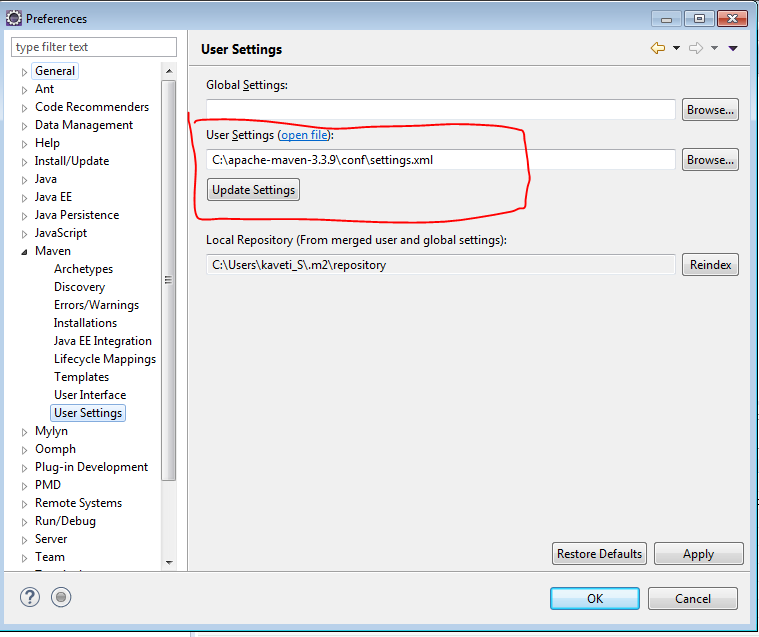
Copy maven installation path (Ex. C:\apache-maven-3.3.9)

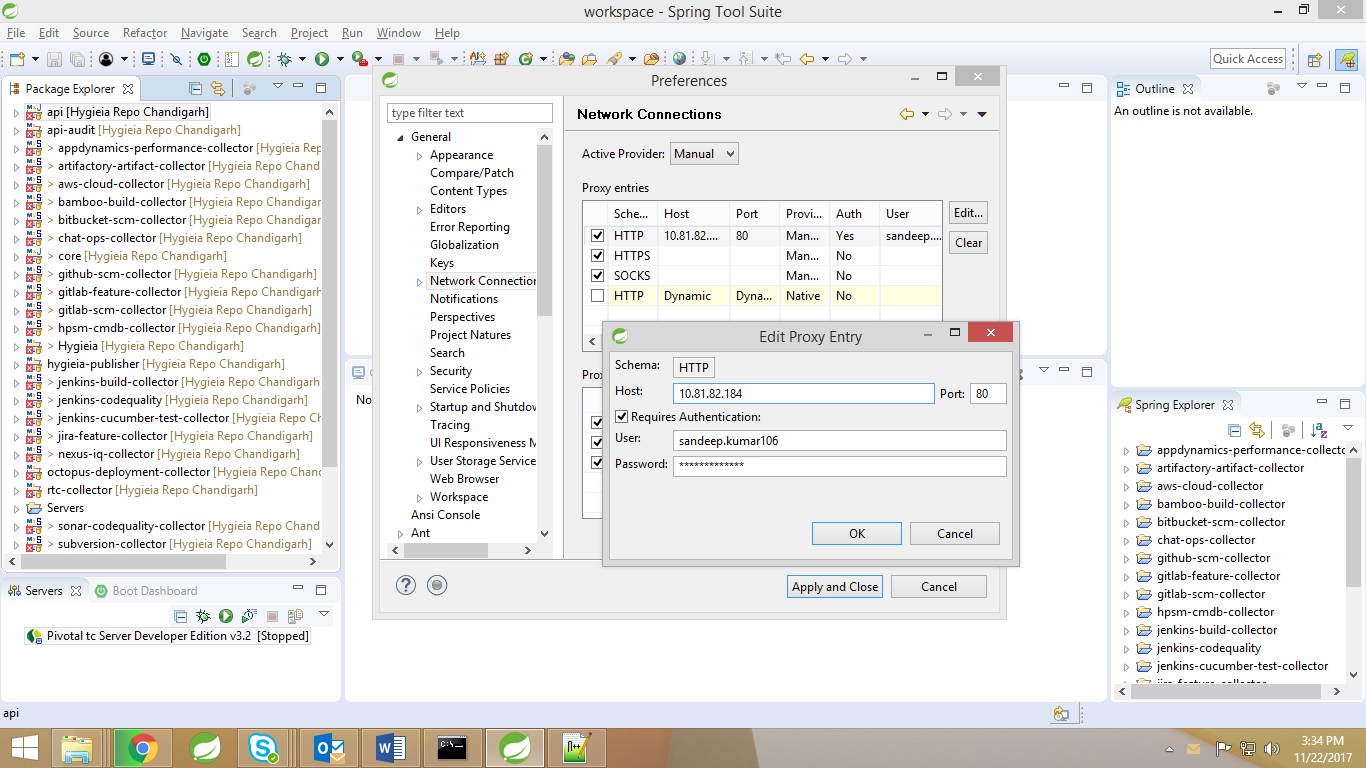
Window 🡪 preferences 🡪 Maven 🡪 Installations == add maven path



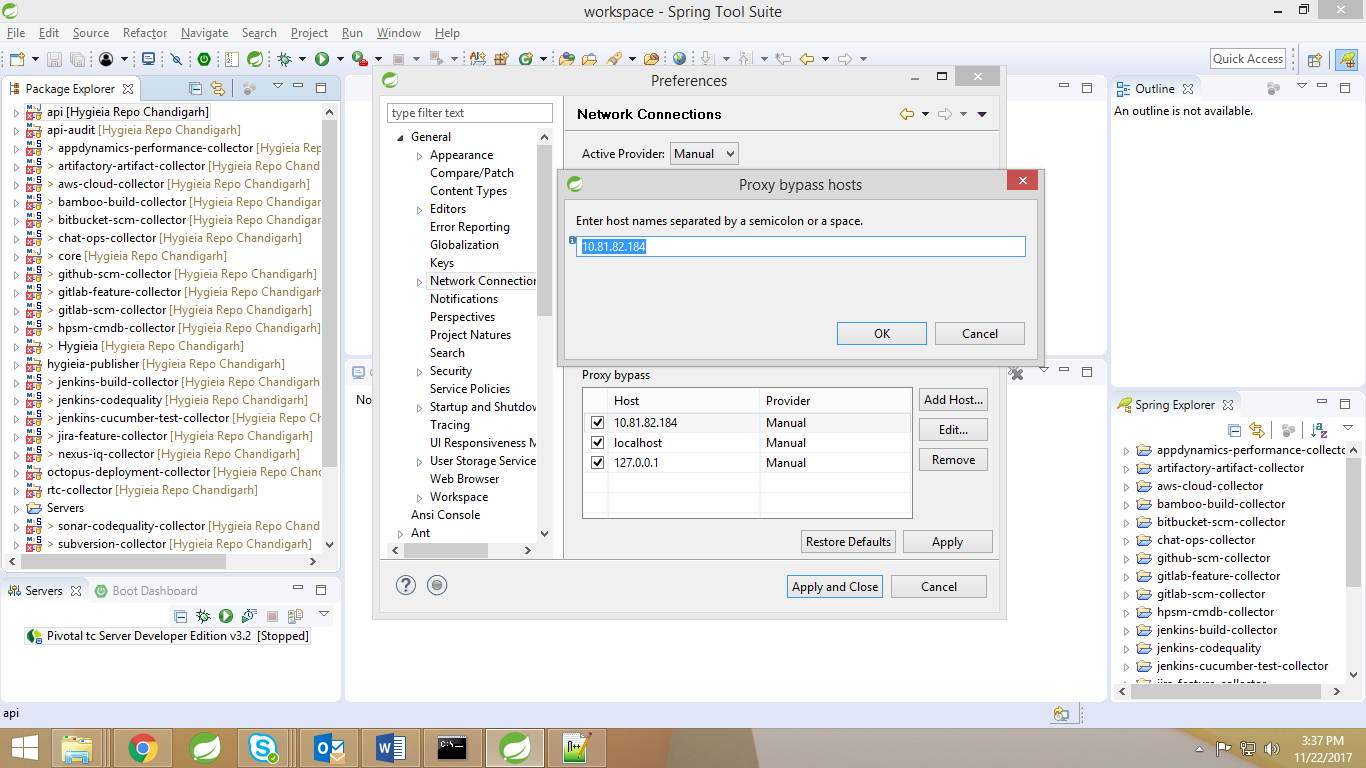


Change Settings.xml file path Window 🡪 preferences 🡪 Maven 🡪 User Settings



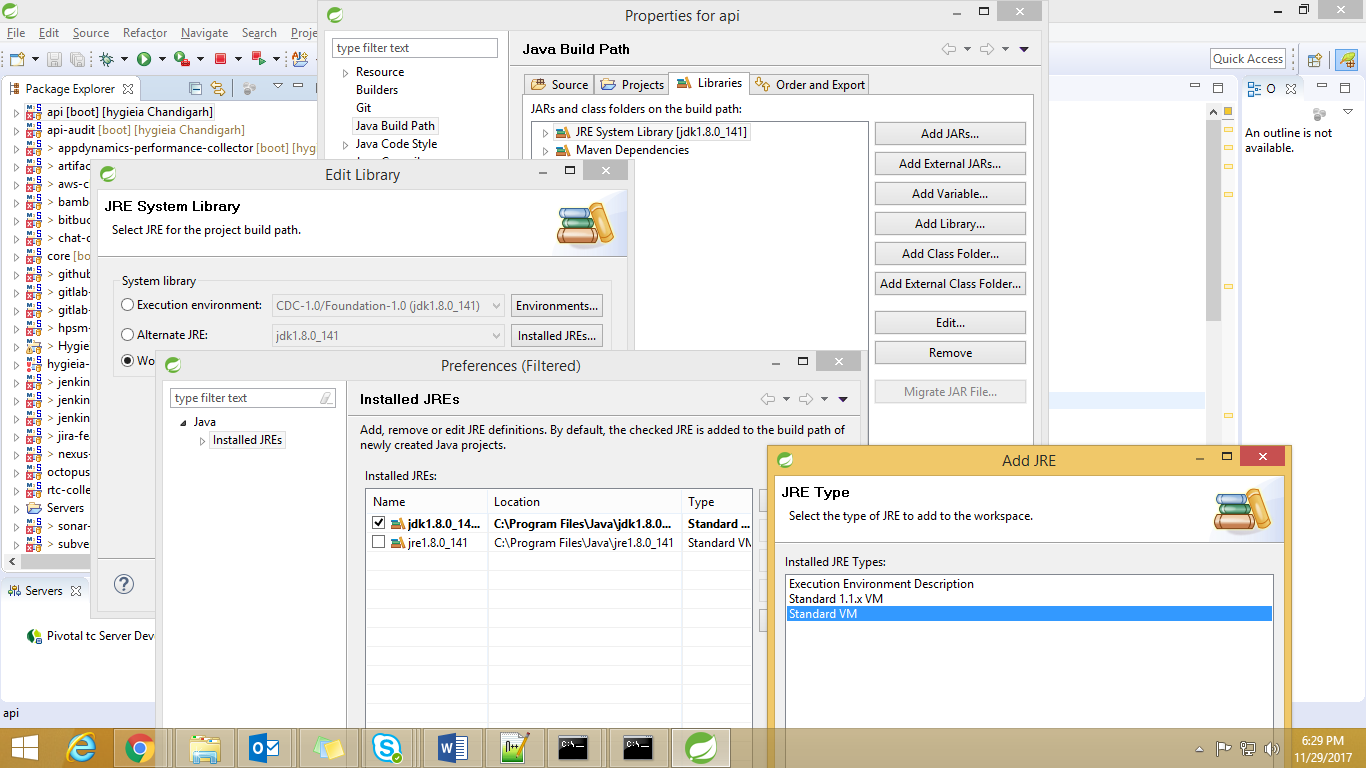


**🡪 window 🡪 preferences 🡪 general 🡪 network connections 🡪 Active provider should be (manual) 🡪 edit proxy settings as screenshot and username password (of user).**



**Proxy bypass. Add host 🡪 10.81.82.184**

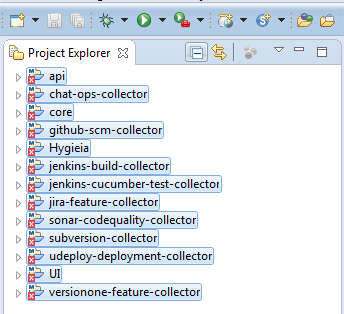
**Apply and close**



**Check for JDK path(always) for java build path for each collector or API… if not then add it as shown in picture**

## Import code to Eclipse

**File 🡪 Import 🡪 Maven🡪 Existing Maven Projects, browse Downloaded Hygieia folder**

**You will get Project like below**

**Select all 🡪 Right click 🡪 Maven Update**

**If Errors in pom.xml (under Eclipse 🡪 Problems screen) ignore as of now**

api project 🡪 right click 🡪new File :



*Copy Id and Pass from ‘5. Configure To Hygieia’*

dbname=dashboarddb

dbusername=dashboarduser

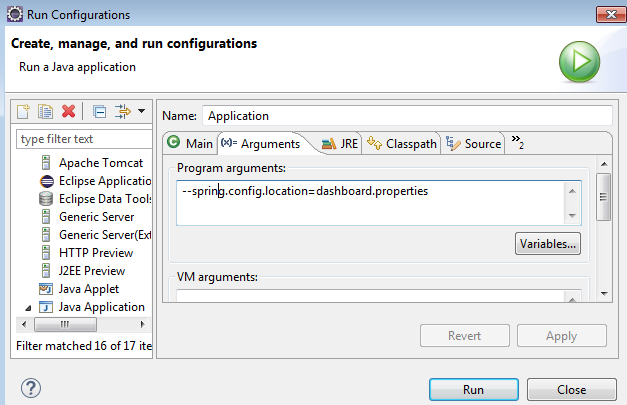
dbpassword=1qazxSw2

dbhost=localhost

dbport=27017

**api project 🡪 Right click 🡪Run Configurations 🡪 Java Application 🡪 Double click 🡪 Go to Arguments 🡪 Program arguments: 🡪 add below**

--spring.config.location=dashboard.properties



**Come to Main 🡪** Project 🡪 api

Main Class 🡪 com.capitalone.dashboard.Application

**Apply 🡪 Run 🡪 Proceed**

**Make sure you don’t have any errors 🡪 If API is not getting build then check your JAVA\_HOME path(should be JDK, not JRE) and MongoDB is up or not**

JAVA\_HOME - C:\Program Files\Java\jdk1.8.0\_74

PATH - %JAVA\_HOME%\bin;

## Configuring "bower" , "git", "npm" behind infosys firewall:

1. Double check if git is in command line path. Open a command prompt and type git to confirm.

**Exa:** Open CMD > run ‘git --version’. If we get details then GIT is configured in PATH variable properly.  
2. Under start menu, you will see "node js command prompt", open it, you will go to C:\users\<your user id>.  
 1. Run "notepad .npmrc", and enter the below contents there



1. Open **Git Bash** and for first time git setup, run below commands. After this .gitconfig gets created under C:\users\<your user id>  
   $ git config --global user.name "John Doe"   
   $ git config --global user.email [johndoe@example.com](mailto:johndoe@example.com)



1. Come back to ‘Node JS CMD’ and run "notepad .gitconfig" which opens the .gitconfig file created in step 1. Paste/add the below contents  
   
2. Come back to ‘Node JS CMD’ and run "notepad .bowerrc" and paste the below contents  
   
3. Check ‘npm’ folder is present under "C:\Users\YOUR\_USER\_ID\AppData\Roaming". If not create ‘npm’ folder manually

## Configuring NodeJs

Open NodeJs Command line in **Admin mode**

Run below **npm** commands one by one / **or** [refer](https://github.com/capitalone/Hygieia/blob/master/UI)

C:\Windows\System32> npm install -g bower

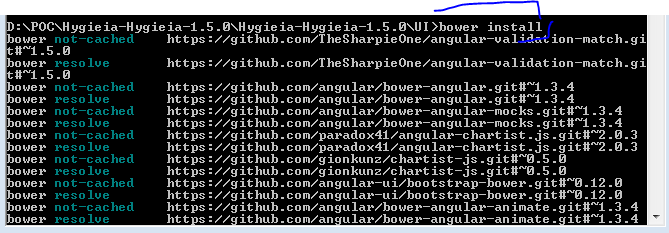
C:\Windows\System32> npm install -g gulp

## Run Commands on NodeJs commandline

‘Node JS’ command line **admin mode** -> Go to Hygieia UI folder

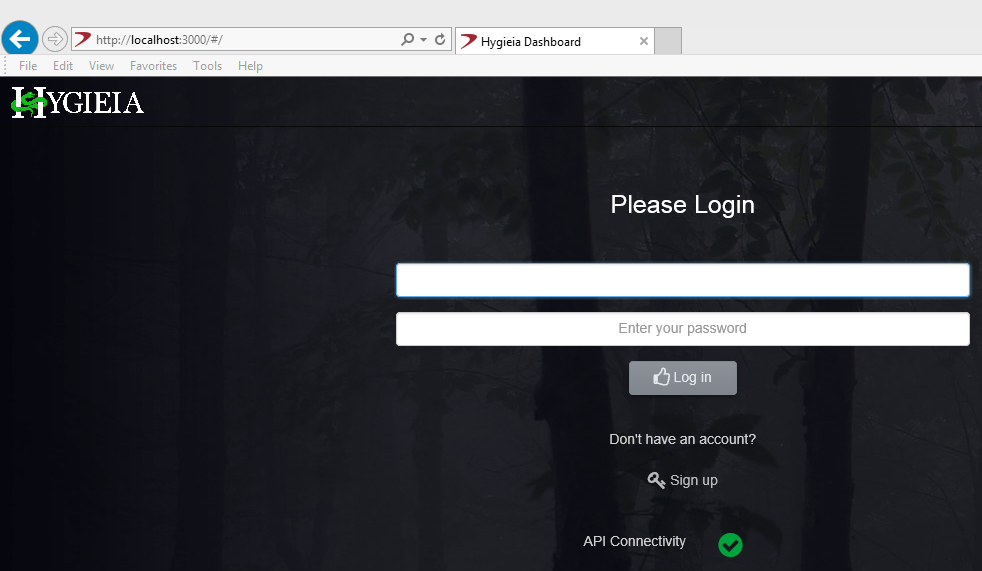
For me it is 🡪 **cd** **D:\Hygieia-master2.0\UI.** Run below command

1. D:\Hygieia-master2.0\UI> npm install
2. D:\Hygieia-master2.0\UI> bower install 🡪 If gets error, check GIT is set in Environment Variable ‘PATH’
3. D:\Hygieia-master2.0\UI> gulp serve 🡪 It will start the dashboard in Browser

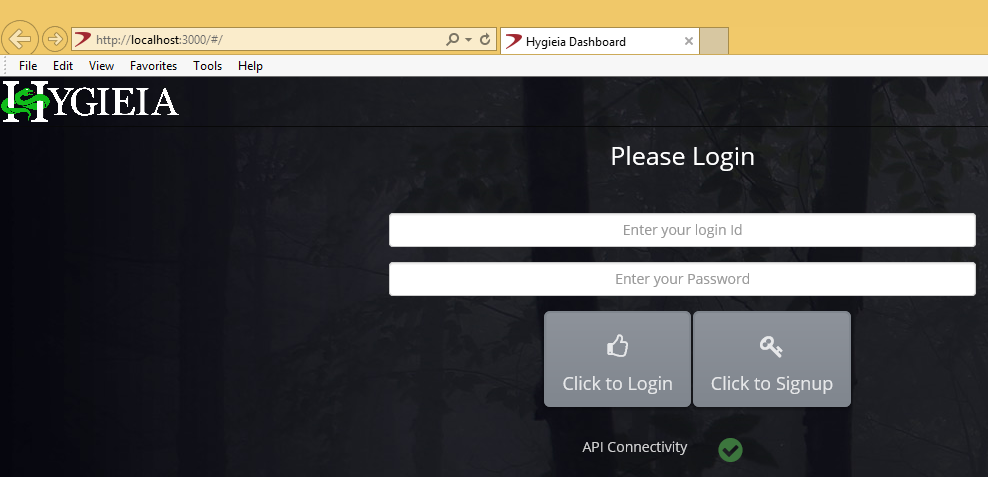


Once you get below screen with API Connectivity 🡪 marked Green tick 🡪 Setup is completed

**Hygieia 2.0**



**Hygieia 1.5**



Click to **Sign up** 🡪 create Account 🡪 Login with created account

# Working with Hygieia [Make Hygieia up to work]

## Starting UI

* **Check MongoDB Server is up.** If not, start executing below commands **[Note:** Execute below steps whenever need to make mongodb up]

Open CMD > go to ‘cd d:\mongodb\bin’

1. D:\MongoDB\bin> mongod.exe --config="D:\MongoDB\mongo.config"

2) D:\MongoDB\bin> mongod --storageEngine=mmapv1 --dbpath=D:\MongoDB

* **Run API project**

Eclipse 🡪 Api 🡪 Right Click 🡪 Run As 🡪 Select ‘Java Application’ 🡪 Application

Verify ‘Arguments: 🡪 Program Arguments:’ 🡪 Has below text

--spring.config.location=dashboard.properties

**Come to Main 🡪** Project 🡪 api

Main Class 🡪 com.capitalone.dashboard.Application

**Apply 🡪 Run**

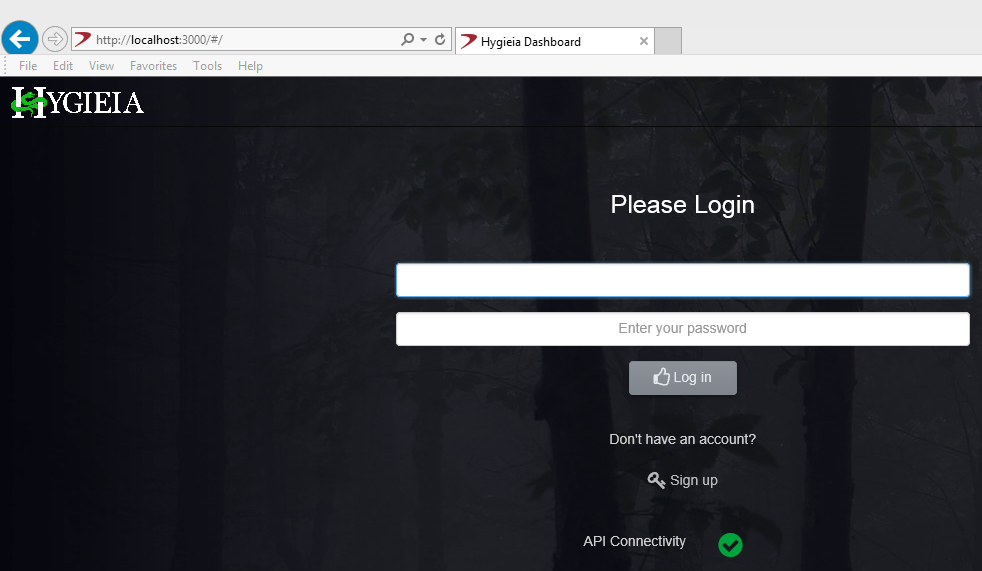
* **Start UI**

Open NodeJS command line, navigate to UI Folder, type

D:\Hygieia-master2.0\UI> gulp serve

Above command opens Hygieia in browser.

If default browser is IE and Hygieia is not working in it. Open Chrome or Firefox 🡪 type 🡪 localhost:3000



## Starting Collectors

### Starting jenkins-build-collectors

* + Go to <https://github.com/capitalone/Hygieia>
  + Open <https://github.com/capitalone/Hygieia/tree/master/jenkins-build-collector>
  + It will have Sample application.properties file details
  + Open Project
  + Create 🡪 new File 🡪 **application.properties**
  + Copy data from Github file to local application.properties

#Database Name

dbname=dashboarddb

#Database HostName - default is localhost

#dbhost=localhost

#Database Port - default is 27017

#dbport=9999

#Database Username - default is blank

#dbusername=db

#Database Password - default is blank

#dbpassword=dbpass

jenkins.servers[0]=**http://localhost:8181/jenkins/**

#Collector schedule (required)

jenkins.cron=0 0/1 \* \* \* \*

#Jenkins server (required) - Can provide multiple

#If using username/token for api authentication (required for Cloudbees Jenkins Ops Center) see sample

#jenkins.servers[1]=http://username:token@jenkins.company.com

#Another option: If using same username/password Jenkins auth - set username/apiKey to use HTTP Basic Auth (blank=no auth)

#jenkins.username=

#jenkins.apiKey=

#Determines if build console log is collected - defaults to false

jenkins.saveLog=true

* + Right click on Project 🡪 Run As 🡪 Run configurations 🡪 Run Applciation.java
  + Open 🡪 Higieia dashboard on webpage
  + Click on **Configure Build Widget 🡪 select Jenkins/Hudson 🡪save**
  + **It will display Jenkins data**

# Miscellaneous

## 1. Spring Express Configuration

1. Download <https://github.com/andzdroid/mongo-express>
2. Copy config.default change name to config.js
3. Open NodeJs Command line

**To install:**

npm install -g mongo-express

Or if you want to install a non-global copy:

npm install mongo-express

1. By default config.default.js is used where the default authentication is admin:pass
2. Go to root folder, run below command

npm install -g mongo-express

1. To Start
2. D:\Softwares\mongo-express-0.29.10\mongo-express-0.29.10>

mongo-express -u admin -p pass -d db

Open: <http://localhost:8081/> It’s ready

## AdminMongo

Download: <https://github.com/mrvautin/adminMongo>

1. Install dependencies: npm install
2. Start application: npm start
3. Visit [http://127.0.0.1:1234](http://127.0.0.1:1234/) in your browser
4. Local Host Configure : mongodb://localhost:27017

