Readme

Contents

[Deploying 1](#_Toc472620408)

[Software requirements 1](#_Toc472620409)

[Setup steps 1](#_Toc472620410)

[Starting server 1](#_Toc472620411)

[Instruction 2](#_Toc472620412)

[Application 2](#_Toc472620413)

[Dashboard 3](#_Toc472620414)

[Greenhopper gadget setting 5](#_Toc472620415)

[New Epic Test Execution Report: 5](#_Toc472620416)

[New User Story Test Execution Gadget instance: 6](#_Toc472620417)

[New Assignee and Cycle Gadget instance: 7](#_Toc472620418)

[Authorize Product-Release: 7](#_Toc472620419)

[Database diagram 8](#_Toc472620420)

[Back-end diagram 9](#_Toc472620421)

[Front-end diagram 10](#_Toc472620422)

[Caching 11](#_Toc472620423)

[Greenhopper gadget caching: 11](#_Toc472620424)

[Test Execution Report Querying Rules 12](#_Toc472620425)

[Logging 13](#_Toc472620426)

[Possible Improvements 14](#_Toc472620427)

# Deploying

## Software requirements

- JDK 8u112: <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

- Maven 3.3.9: https://maven.apache.org/download.cgi

- MongoDB community 3.41: <https://www.mongodb.com/download-center#community>

Please download and install them.

## Setup steps

1. Database

- Download “data.zip” from “ftp://ftp2.tma.com.vn/nnmchau/Database/”

- Extract it in to home dir (C:\) like this:



1. Network

* To change/enable/disable proxy option, modify values of *resourcebundle.proxy.ip, resourcebundle.proxy.port* in “src/main/resources/internal\_conf.properties” file.

Note\*: Comment out one of them to disable proxy.

* By default, application work on port: 1373. To change it, modify “src/main/java/conf/application.conf”.

## Starting server

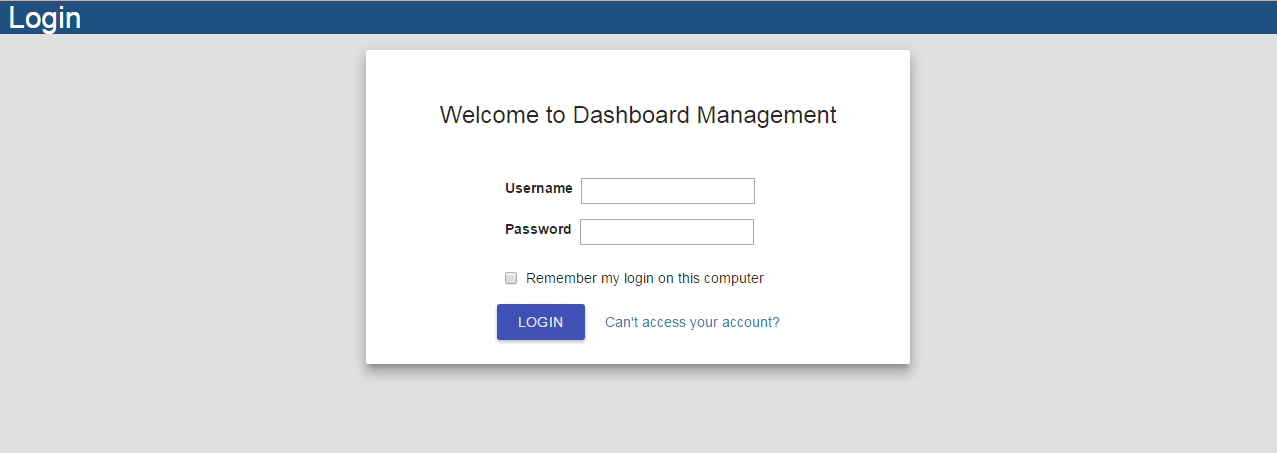
1. Run “mongod.exe” from “C:\Program Files\MongoDB\Server\3.2\bin\”.
2. At the root dir of project, run cmd with command “mvn package ninja:run”



# Instruction

## Application

* We strongly recommend using Google Chrome browser.
* Login UI



* Toolbar
* Regular user

C:\Users\nnmchau\Desktop\toolbar.PNG

* Admin user



User’s name

Create new dashboard

User’s profile page

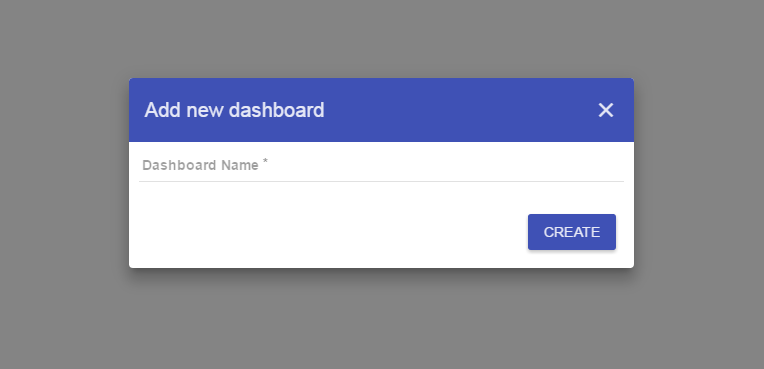
Configuration page for admin

Logout

## Dashboard

* Create Dashboard

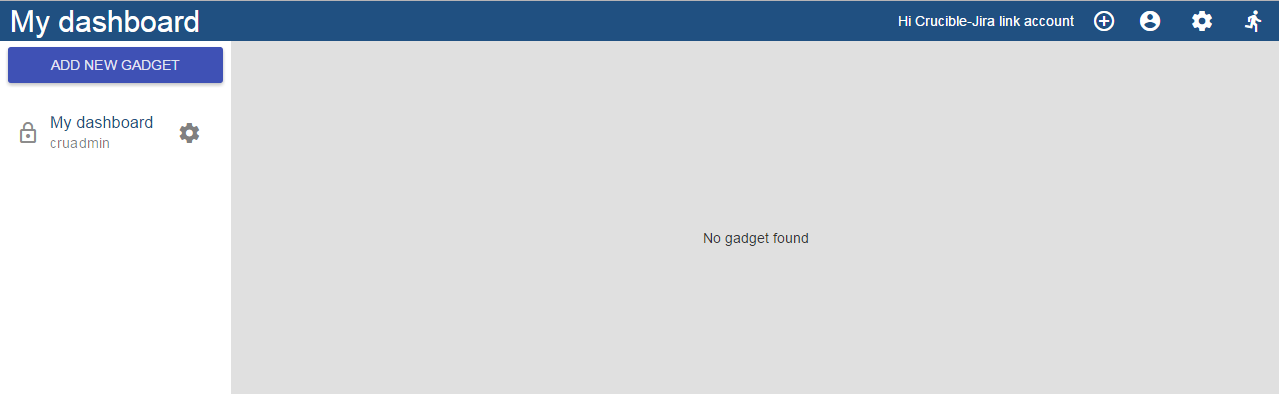
Click create new dashboard on tool bar.



Enter dashboard’s name here

And then click here to create new dashboard

* Dashboard main UI



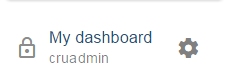
Dashboard list

Dashboard’s gadget list

Dashboard list item

Add new gadget button

* Dashboard list item



Dashboard privacy

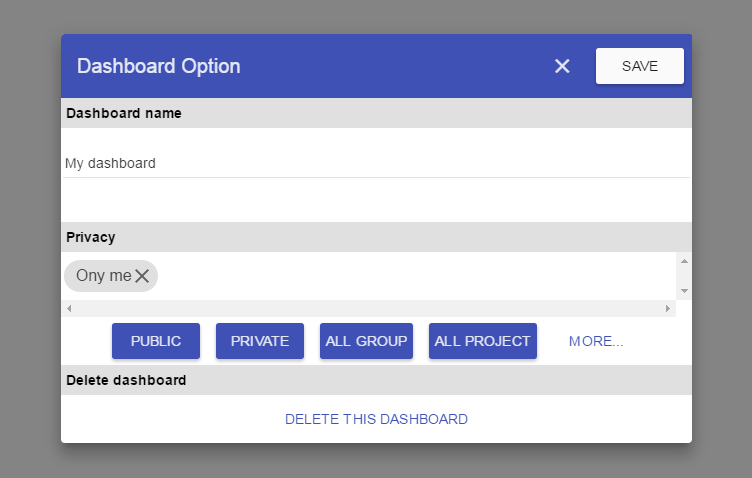
Dashboard owner

Dashboard option

Dashboard name

|  |  |
| --- | --- |
| Icon | Privacy status |
| C:\Users\nnmchau\AppData\Local\Temp\7zEC96B4444\ic_lock_outline_black_24dp_2x.png | private |
| C:\Users\nnmchau\AppData\Local\Temp\7zE4DEF8F75\ic_public_black_24dp_2x.png | public |
| C:\Users\nnmchau\AppData\Local\Temp\7zE066694F7\ic_people_outline_black_24dp_2x.png | Share to specific group or project |

* Dashboard option UI



Save option

Edit dasboard name

Privacy status

Quick action to change privacy

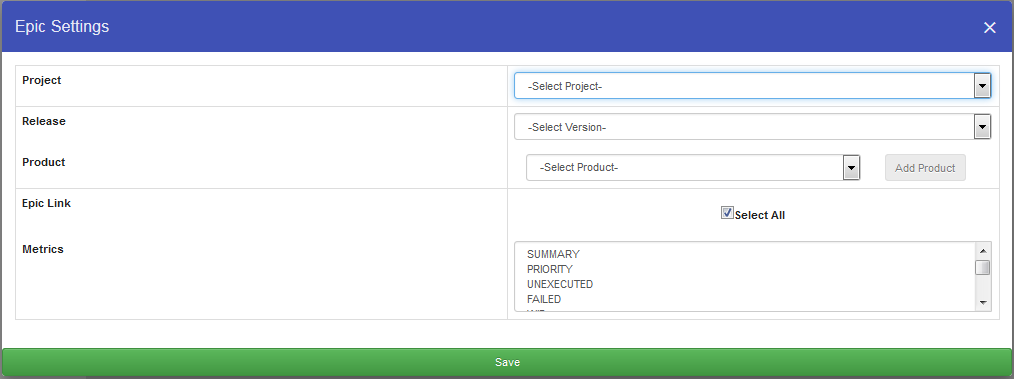
Show groups and projects

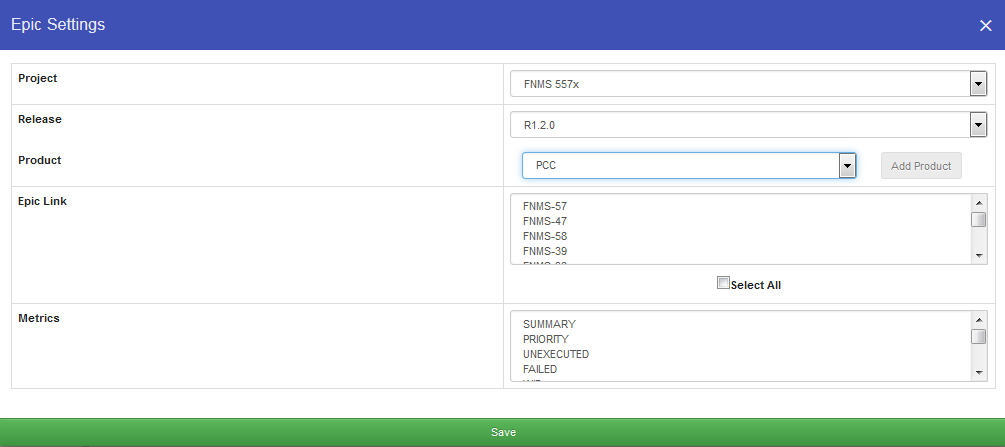
Delete dashboard

Close dialog

## Greenhopper gadget setting

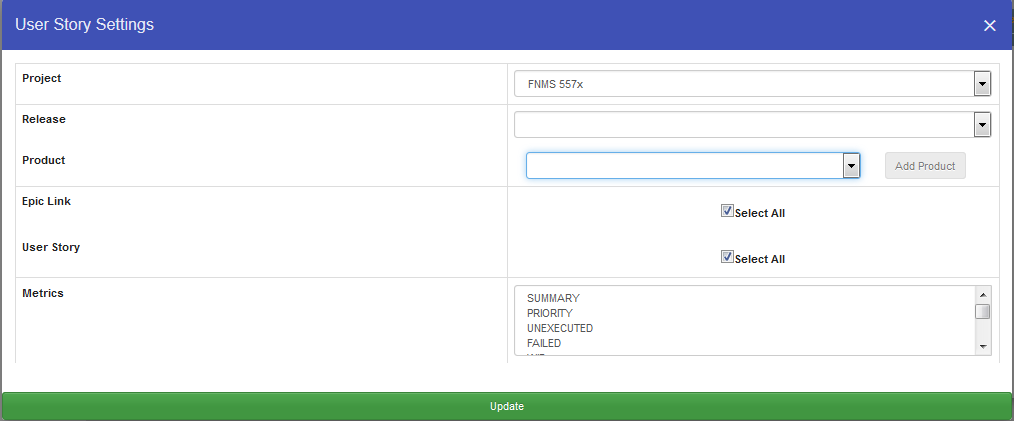
### New Epic Test Execution Report:



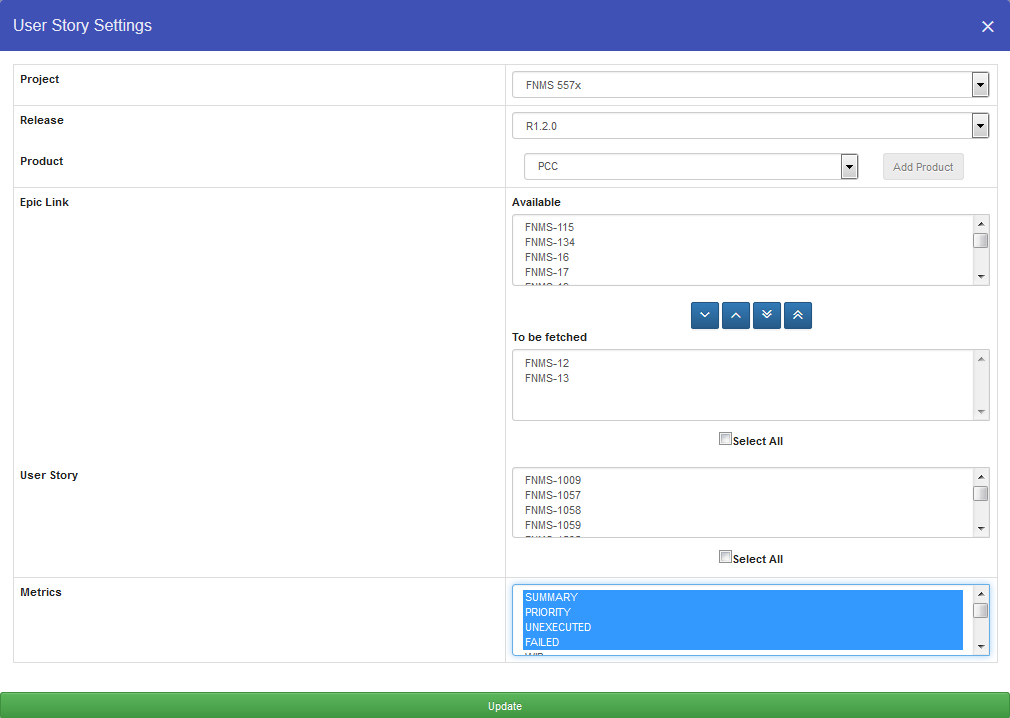
After filling in project, release, and product field, if epic link is not “Select All". Database will query for a list of epic issue keys.  
 

* Select epic link and all the remaining options you want for your table then save gadget.

### New User Story Test Execution Gadget instance:



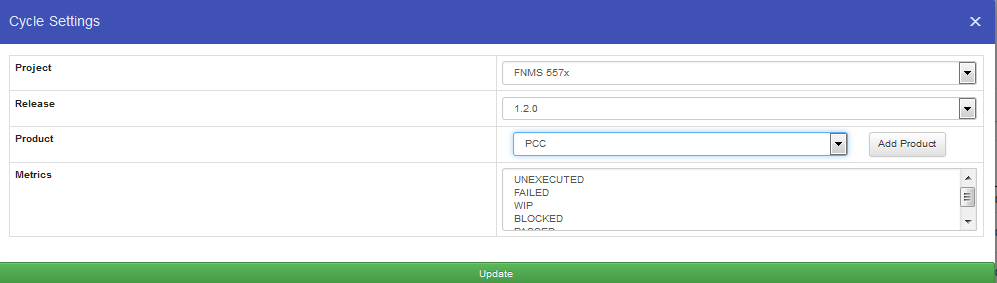
* After filling in project, release, product field. If epic link field is not “Select All". Database will query for a list of epic issue keys. By default epic links and user story are selected all.



* After obtaining available epic links list, select available epic keys you want to fetch story issues.
* Select user story issue keys you want for the table then update.

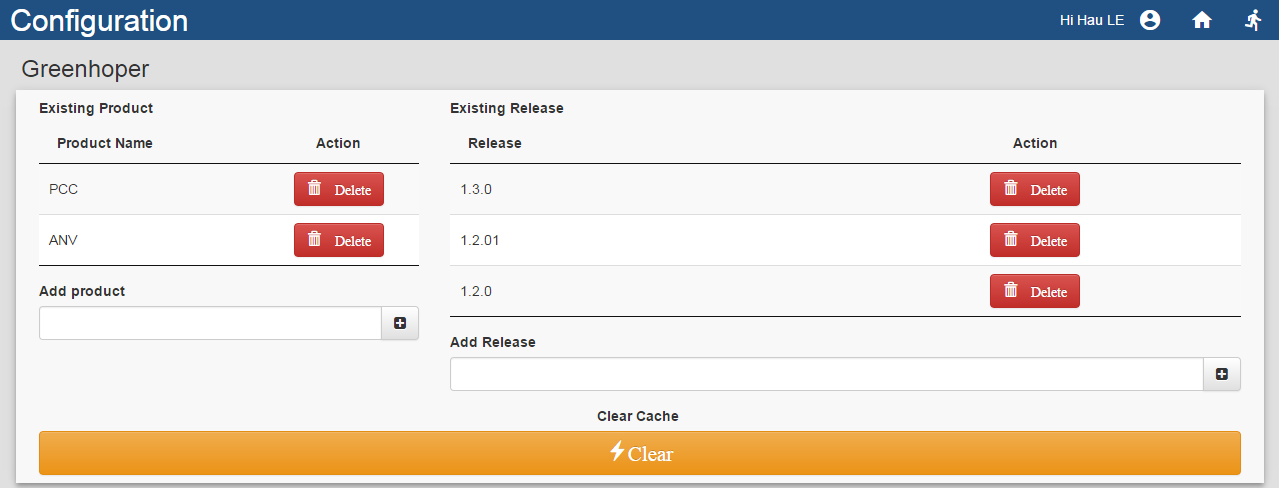
### New Assignee and Cycle Gadget instance:

* Assignee and Test Cycle gadget have the same dialog interface with the only difference is table details once it’s drawn. In Assignee Gadget, all assignees belong to a Test Cycle will be shown.



### Authorize Product-Release:

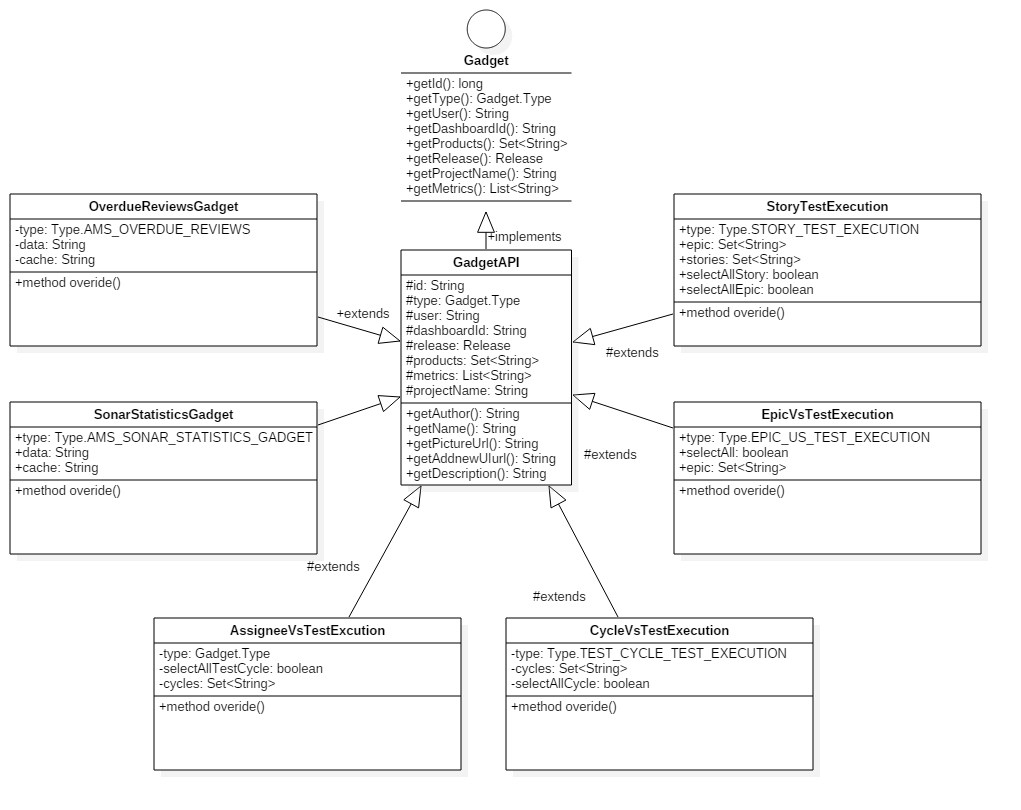
* You can commission new Product and Release for other users to choose from



# Database diagram

**C:\Users\dthehung\Downloads\Database (1).png**

# Back-end diagram

****

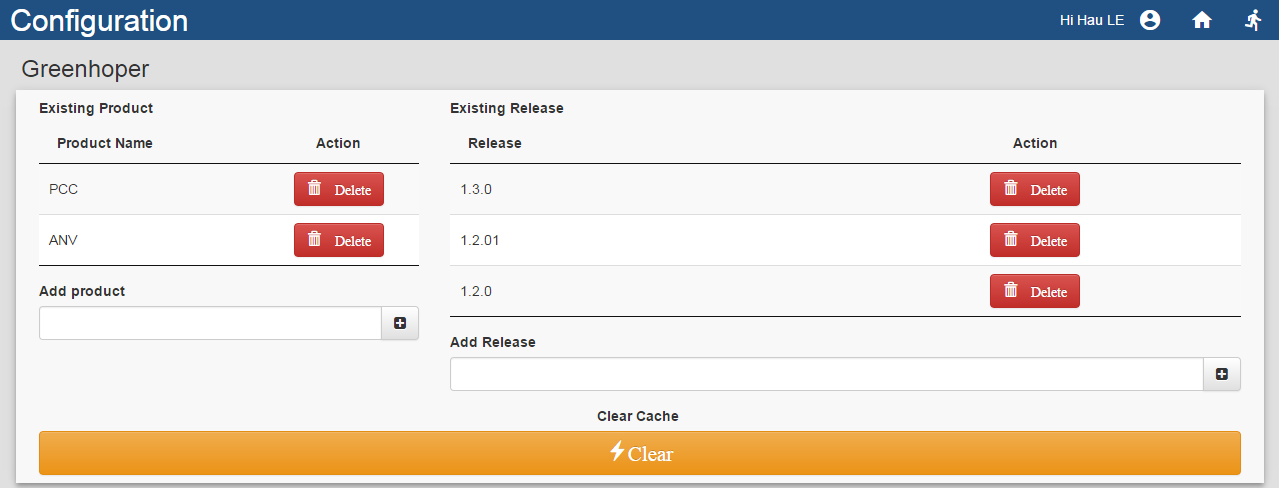
# Front-end diagram

**C:\Users\dthehung\Downloads\Untitled Diagram (1).png**

# Caching

## Greenhopper gadget caching:

* Data caching duration, login timeout and maximum concurrent threads allowed to fetch data from greenhopper is defined in *internal.conf.properties.*
* On Configuration page, there is a big wide orange button that will clear all greenhopper related cache on push.



* Overview:

#Greenhopper connection timeout. No timeout if value is 0

resourcebundle.project.timeout=60000

#Maximum records return by greenhopper json.

resourcebundle.search.maxrecords=10000

#Maximum number of concurrent threads

internal.conf.concurrent\_thread=20

#Interval(hour) to clear cache (Greenhopper data)

internal.conf.clearcache.time=24

#Interval(minute) to clear cache (Greenhopper data)

internal.conf.cleardatacache.time=1

#Time to live(minute).The time to live for each cached greenhopper gadget.

internal.conf.gadgetdata.timetolive=10

# Test Execution Report Querying Rules

* For Epic issue, fetch Test issue for the first children. If the original epic issue has multiple epic child issues, user story issues, test issues and each of these issues has multiple child then fetch only Test issues belong to the original epic and its user story.
* Only fetch Test issue with “is a test by” issue link for Story issue
* On the other hand, fetch all Test issues inside Epic issue, including Test with “is a test by” link
* Only fetch the newest test execution in Test issue.
* “PLANNED” test metric is gotten from customfield\_14809 in return json query.
* “UNPLANNED” test metric is the sum of “PASSED” + “FAILED” + “UNEXECUTED” + “BLOCKED” + “WIP”.

# Logging

* There are 2 log files containing debugging information at project root folder.

1. debug.log
2. mylog.log

# Possible Improvements

* Sonar Metric is hardcoded in database, append option to add new sonar metric in Jira Administrator configuration page.