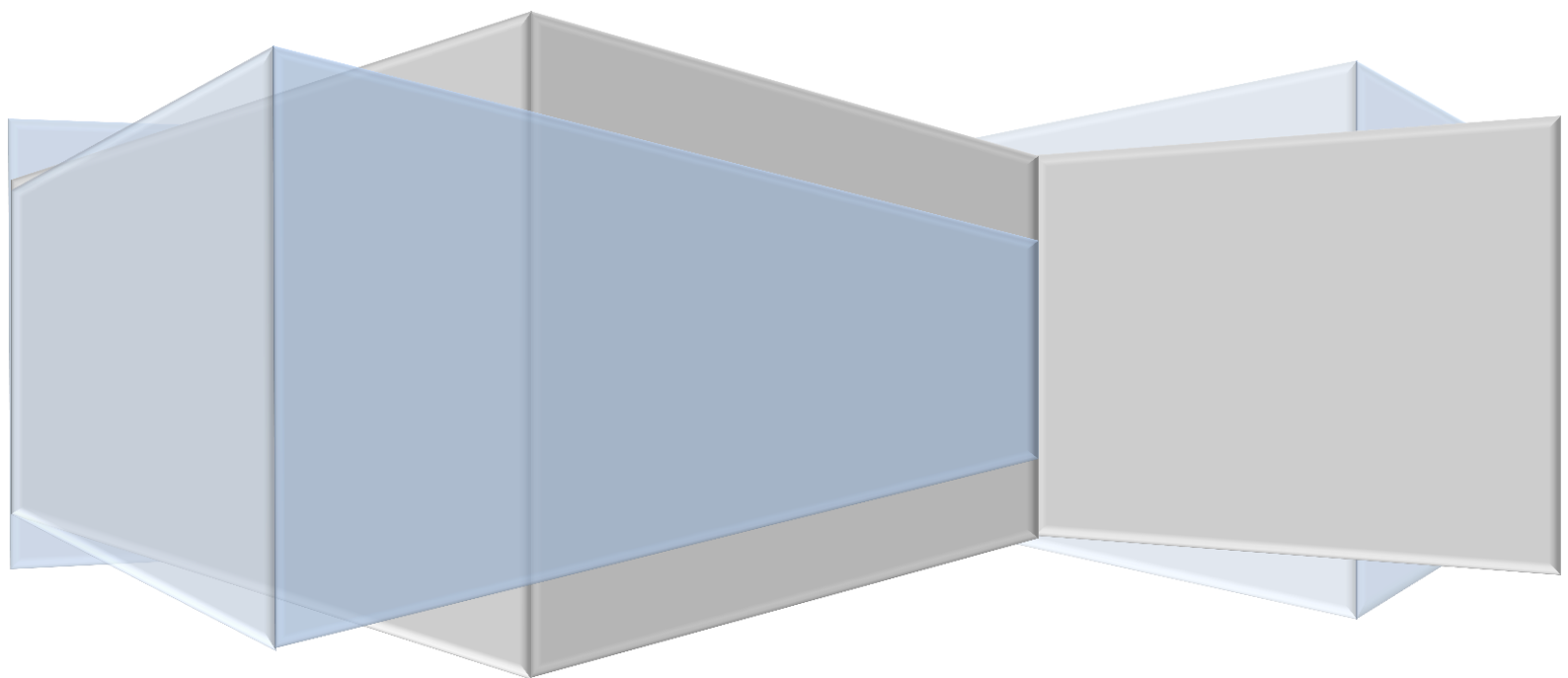**Automation Factory**

JIRA – As Issues tracking Tool

Setup and User Guide

Ganesh Palnitkar

Setting up JIRA server

Setting up JIRA

Jira is a Project Management and an Issue tracking tool. Is this document, we will see how we can setup JIRA as an issue tracking tool.

Setup JIRA on a Linux VM.

Copy the jira*.gz file to linux system from below link.

https://www.dropbox.com/s/y6rqtajl0jccymh/atlassian-jira-software-8.0.0.tar.gz?dl=0

Use CURL or WGET command to download.

```
$ curl –o ./atlassian-jira-software-8.0.0.tar.gz
https://www.dropbox.com/s/y6rqtajl0jccymh/atlassian-jira-software-8.0.0.tar.gz?dl=0

Or,

$ wget https://www.dropbox.com/s/y6rqtajl0jccymh/atlassian-jira-software-8.0.0.tar.gz?dl=0
```

Unzip the file to a user defined location. This can be in the root as well, e.g. /jirasetup. Here the '.gz' file is extracted to the 'jirasetup' folder on the root of file system.

Next, you will have to setup the JIRA_HOME environment variable to a path value pointing to the folder that not same as the installation directory. JIRA_HOME has to be different from the installation directory. In this case we are creating it under the /var directory.

Edit the file 'jira-application.properties' located at /<installation directory>/Atlassian-jira/WEB-INF/classes/ with the jira.home value to the directory different from the installation directory. In this case we are taking it as '/var/jira-home'.

Also we can set the environment variable as,

$ export JIRA_HOME=/var/jira-home

Setting up JIRA server

Follow the below screens to setup the JIRA instance on the Linux VM.
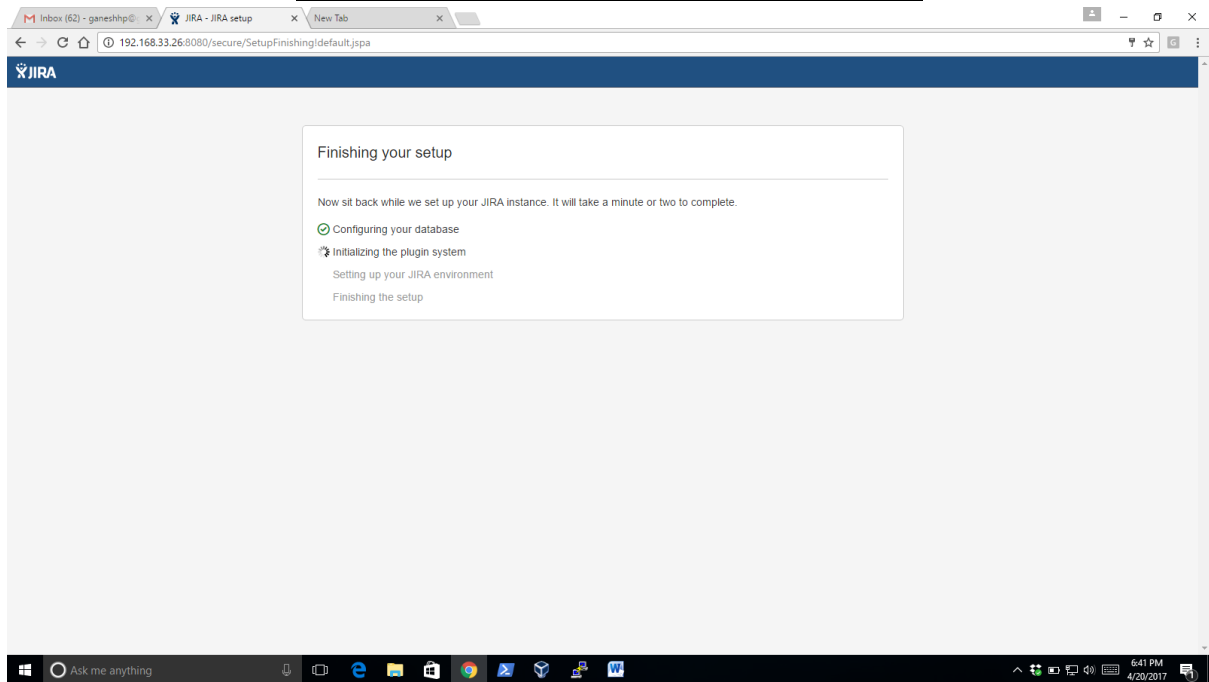

Enter email and username / password details. Once this updated Atlassian will help you to setup the JIRA instance. This is suitable for a LAB or a testing environment.
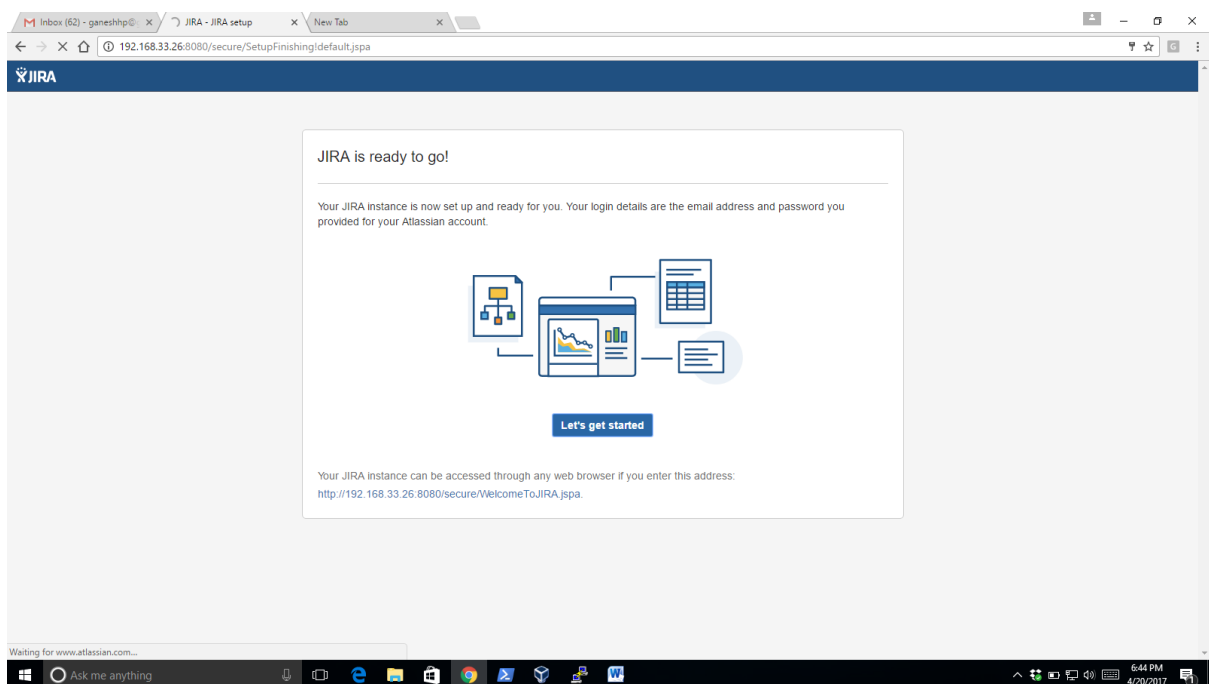
For production environment setup, use custom setting to setup your JIRA instance.

Click on 'get started' button to setup the JIRA instance. This will take you to setup the JIRA instance.

Setting up JIRA as Issue tracking tool:

At first we will have to create a project for which we want to track the issues. This can be selected as a 'basic software development' project or 'Agile scrum
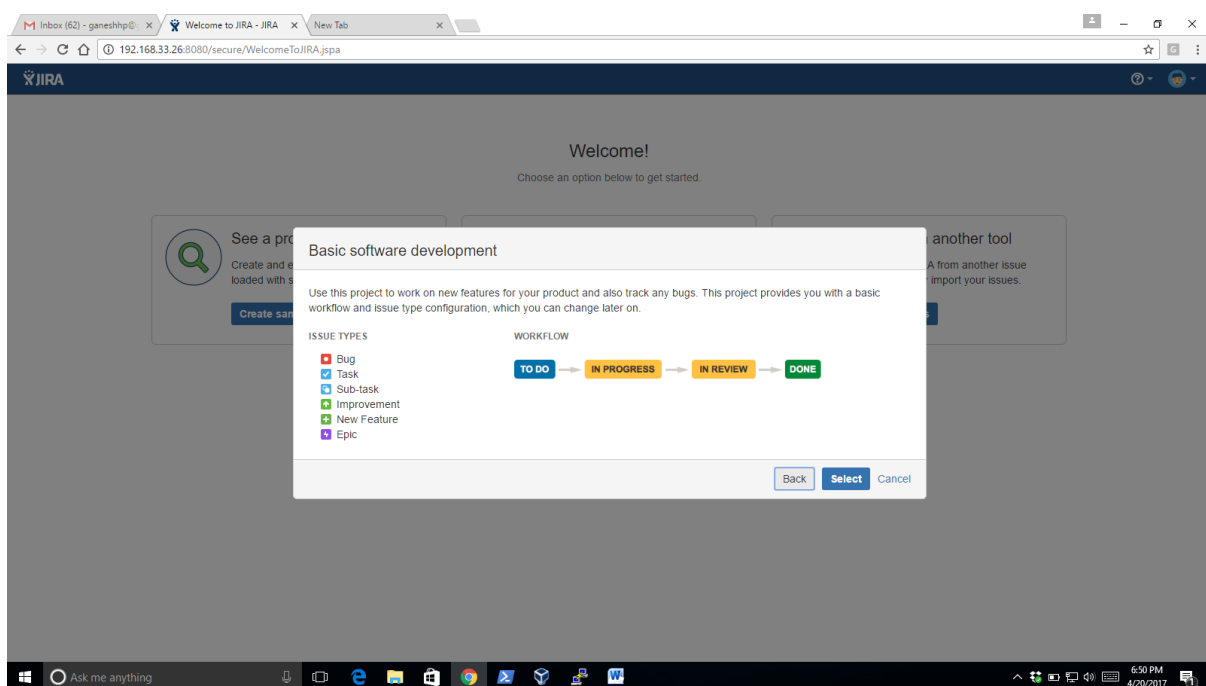
template' or 'Kanban template'. In this case we are selecting it as a 'Basic Software Development' project.

This selection will show the issues tracking process used in Basic Software development type of template. This will vary in case of Agile or Kanban projects.

While creating the project, provide a unique project key. This key value will be used in the JIRA-Jenkins Integration.

Once this done, we can then add components to the project.

A **Component in JIRA** Project is sub-sections of a project. It is used to group issues within a project into smaller parts.
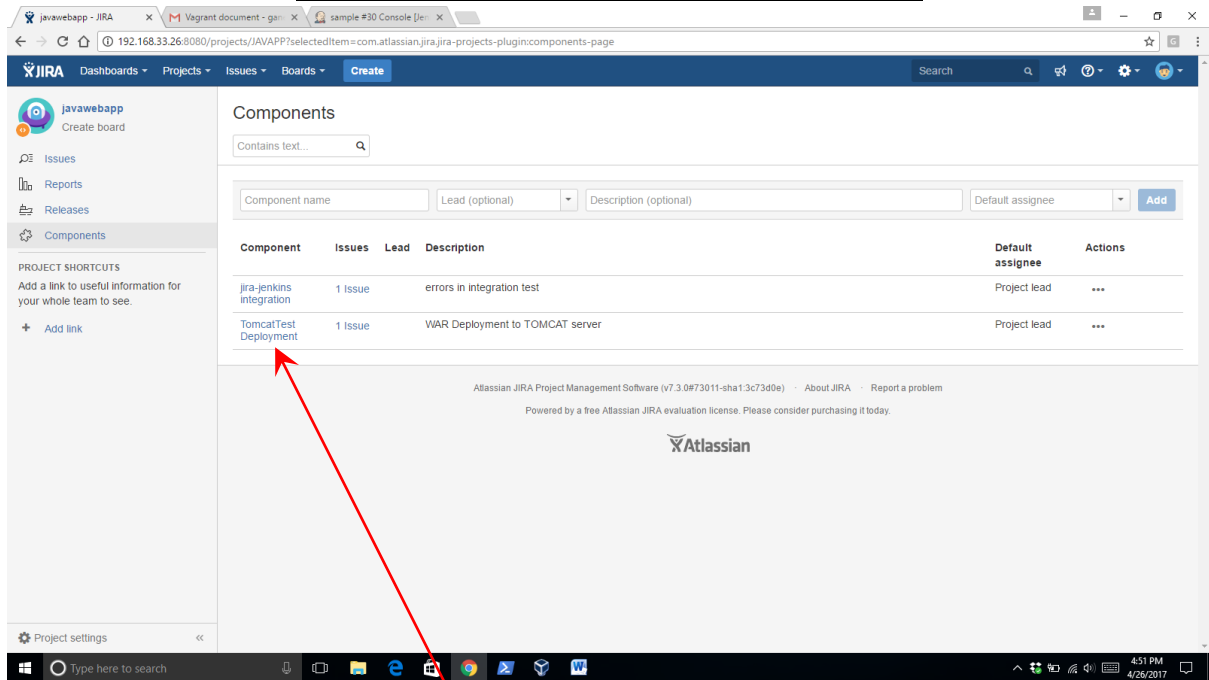
To add component into a JIRA project, you need to have the project-specific **AdministerProjects** permission or the **JIRA Administrator global** permission to be able to:

The component name should also be updated as the one to which an issues should be assigned to, in Jenkins as well.

Below image shows the JIRA project view and components created inside it.
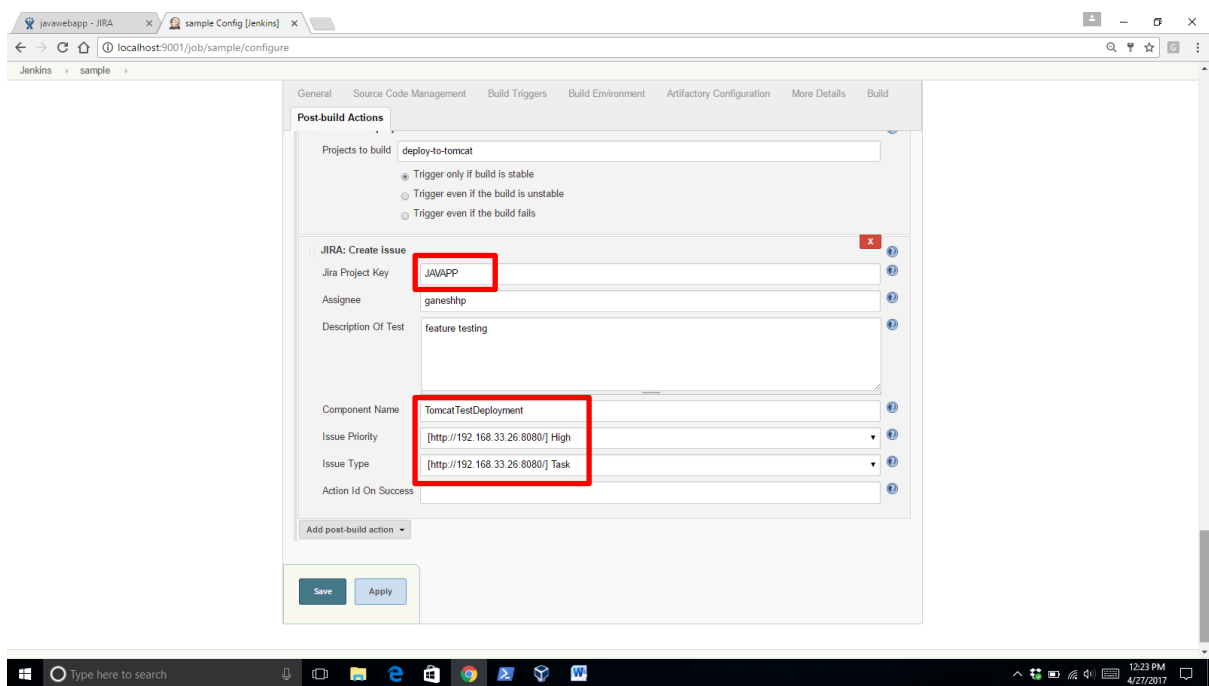
Setting up JIRA server

Component created inside a project

Inside Jenkins while we configure the JIRA plug-in make sure the Build JOB is updated with the project and component information.

Below image shows what values should be assigned to different fields inside a build job. If we want to create an issue type as bug, or task, etc. is updated in the job. Also we can set the priority for the issue.
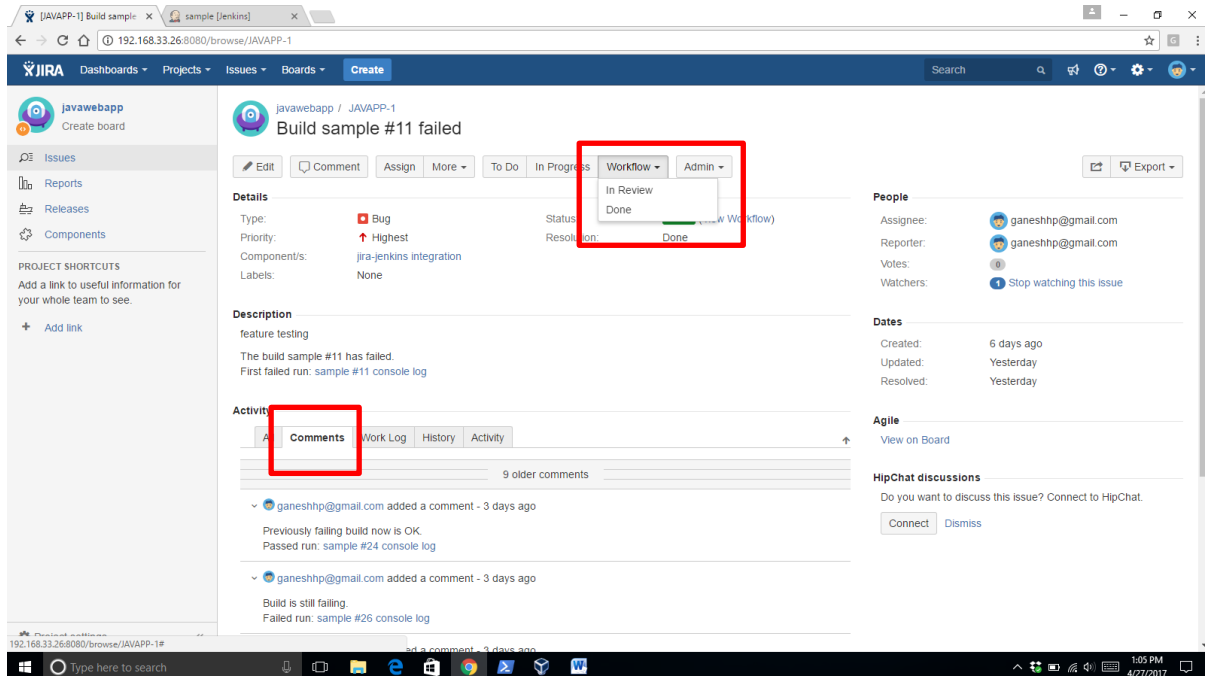
The job will update the issue in JIRA with status till it is closed. If the issue (bug) is resolved it should be closed manually and commented appropriately.

Setting up JIRA server

JIRA Issue status update as per workflow stages defined in the simple software development type of project.

Make sure the JIRA issue is updated as per the project workflow stages.

Reports:

JIRA provide variety of reports that can be customized to some extent.

Below image shows various built-in report templates available in JIRA.