Jenkins installation with FIRE

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Jenkins installation

Steps need to follow:

Step # 1:

Download Jenkins from https://jenkins.io/download/, Download latest Jenkins for Generic java package (.war)

Step # 2:

Open a command prompt and type

java -Dhudson.model.DirectoryBrowserSupport.CSP= -jar jenkins.war --httpPort=<portno>

Note: Jenkins default port is 8080

```
E:\jenkins>java -Dhudson.model.DirectoryBrowserSupport.CSP= -jar jenkins.war --httpPort=8080

E:\jenkins>java -Dhudson.model.DirectoryBrowserSupport.CSP= -jar jenkins.war --httpPort=8080

komming from: e:\jenkins\jenkins.war

webroot: $user.home/.jenkins

B[33mOct 25, 2017 11:52:23 AM Main deleteWinstoneTempContents

MARNING: Failed to delete the temporary Winstone file c:\Users\MARGHO-1.AHM\AppData\Local\Temp\winstone\jenkins.war

B[0mOct 25, 2017 11:52:23 AM org.eclipse.jetty.util.log.log initialized

INFO: Logging initialized @519ms to org.eclipse.jetty.util.log.log initialized

INFO: Logging initialized @519ms to org.eclipse.jetty.util.log.JavaUtilLog

Oct 25, 2017 11:52:23 AM winstone.Logger logInternal

INFO: Belaning extraction from war file

B[33mOct 25, 2017 11:52:23 AM org.eclipse.jetty.server.handler.ContextHandler setContextPath

MARNING: Empty contextPath

B[0mOct 25, 2017 11:52:23 AM org.eclipse.jetty.server.Server doStart

INFO: jetty-9-4.z-SNAPSHOT

Oct 25, 2017 11:52:30 AM org.eclipse.jetty.webapp.StandardDescriptorProcessor visitServlet

INFO: No Jsp Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet

Oct 25, 2017 11:52:30 AM org.eclipse.jetty.server.session.DefaultSessionIdManager doStart

INFO: No SessionScavenger set, using defaults

Oct 25, 2017 11:52:30 AM org.eclipse.jetty.server.session.DefaultSessionIdManager doStart

INFO: No SessionScavenger set, using defaults

Oct 25, 2017 11:52:30 AM org.eclipse.jetty.server.session.DefaultSessionIdManager doStart

INFO: Scavenging every 600000ms

Jenkins home directory: C:\Users\marghoob.ahmad\.jenkins found at: $user.home/.jenkins

Oct 25, 2017 11:52:31 AM org.eclipse.jetty.server.handler.contextHandler doStart

INFO: Started w.@673fdbce{/,file:///C:/Users/marghoob.ahmad/.jenkins/war/,AVAILABLE}{C:\Users\marghoob.ahmad\.jenkins\war

Oct 25, 2017 11:52:31 AM org.eclipse.jetty.server.habstractConnector doStart

INFO: Started & ServerConnector@2dfaea86(HTTP/1.1,[http/1.1]}{0.0.0.0:8080}

Oct 25, 2017 11:52:31 AM org.eclipse.jetty.ser
```

Step # 3:

Wait for the console output to print 'Jenkins is fully up and running' and that's it! You have successfully started the Jenkins server!

Now check whether your Jenkins is ready to use; by default, it uses port 8080.

Step # 4:

Now go to the browser and type http://localhost:8080, you will be getting following screen to Unlock Jenkins. You need to enter Administrator password.

In order to get Administrator password, go to the cmd command prompt and check password, just copy password and enter.

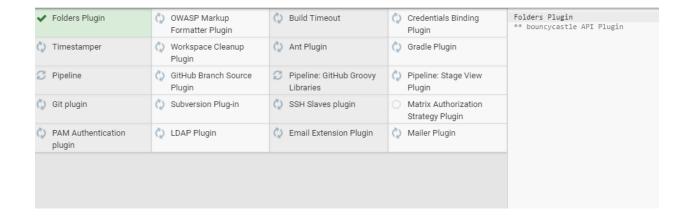
Unlock Jenkins To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server: C:\Users\m\.jenkins\secrets\initialAdminPassword Please copy the password from either location and paste it below. Administrator password Select Command Prompt - java -jar jenkins.war INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@3b447308: ining beans [filter,legacy]; root of factory hierarchy Oct 12, 2017 4:10:50 PM jenkins.install.SetupWizard init ************************************ Jenkins initial setup is required. An admin user has been created and a password generated. Please use the following password to proceed to installation: bf4b61f3ad364bafb382fa23bd765d58 This may also be found at: C:\Users\m\.jenkins\secrets\initialAdminPassword Oct 12, 2017 4:10:55 PM hudson.model.UpdateSite updateData INFO: Obtained the latest update center data file for UpdateSource default Oct 12, 2017 4:10:56 PM hudson.model.DownloadService\$Downloadable load INFO: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller Oct 12, 2017 4:10:56 PM hudson.model.UpdateSite updateData INFO: Obtained the latest update center data file for UpdateSource default ct 12, 2017 4:10:56 PM hudson.WebAppMain\$3 run INFO: Jenkins is fully up and running

Step # 5:

Let's customize Jenkins. Therefore, need to install suggested plugins. See the below screen shot to the same.

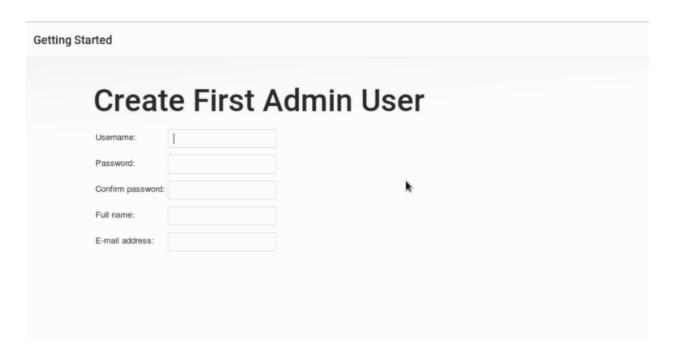
Getting Started

Getting Started



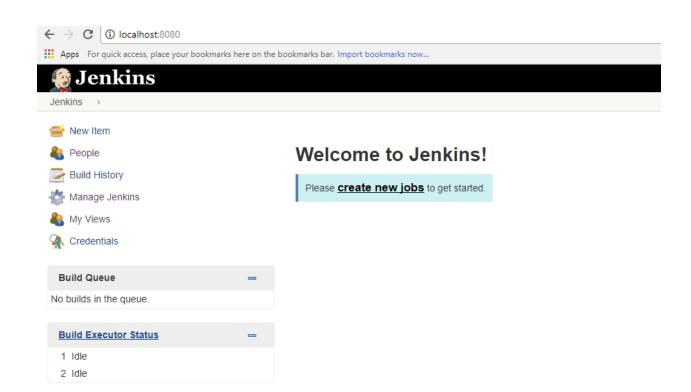
Step # 6:

Create admin user and save.



Step # 7:

Finally, you will be able to see Jenkins dashboard as below.



To use Selenium with Jenkins you need to configure Jenkins with Selenium

Step # 1:

Follow the below steps:

- · Go to Jenkins dashboard
- Click on manage Jenkins
- Click on configure Jenkins
- Click on JDK installation In JDK name section enter the name, under Java Home section give your java path
- Add list of variables under environment variables, java home and maven home

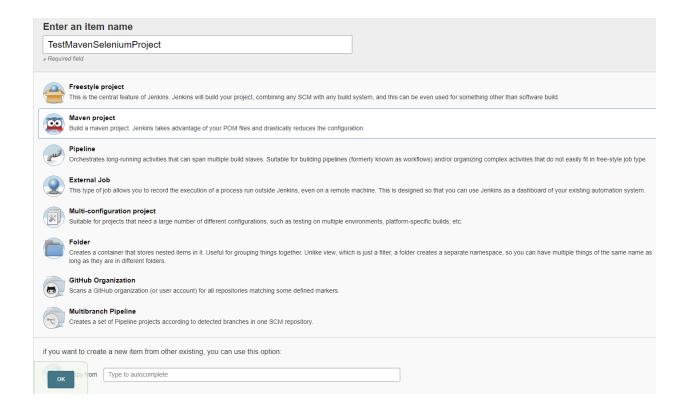


Step # 2:

Click on "Create new jobs" and enter the tem name eg: "TestMavenSeleniumProject"

Step # 3:

Select Maven project and click ok



Step # 4:

Click on project "Configure" and enter the build value,

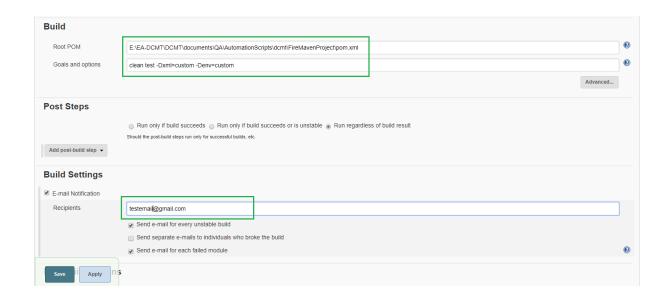
Root POM: need to add project pom.xml file

Goals and Options: just add the maven command to perform action

Eg: clean test -Dxml=custom -Denv=custom

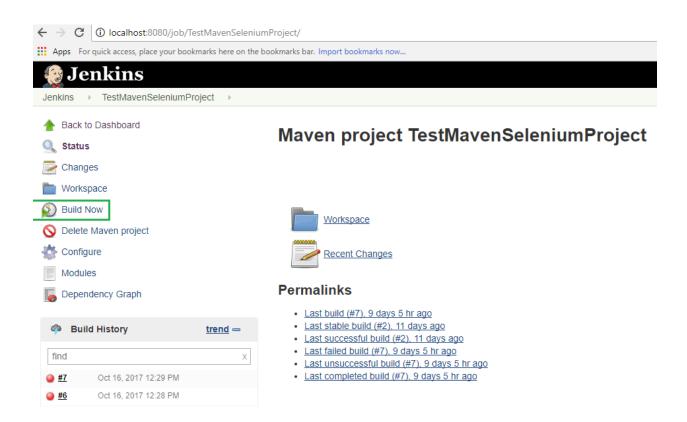
You can add email notification to add Recipients email id inside Build settings.

Click on apply and save.



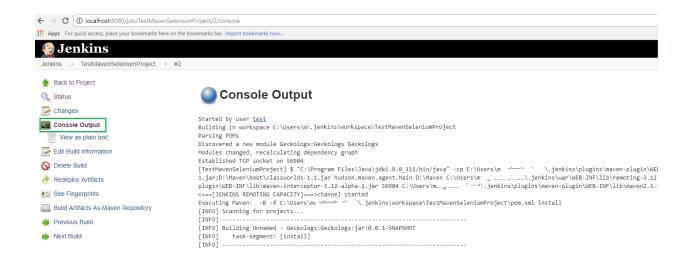
Step # 5:

Go back to the project and click on Build now link



Step # 6:

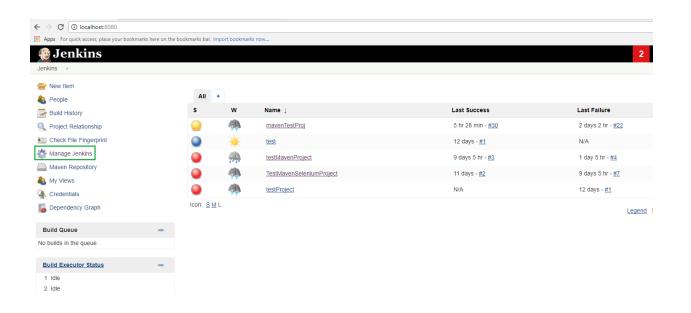
Verify console output to check the Build status.



Integration of FIRE scripts to JENKINS

Pre-requisite:

Step #1. Click on manage Jenkins in order to Manage Plugins



For email need to add email extension plugins



For HTML report need to add HTML publisher plugin

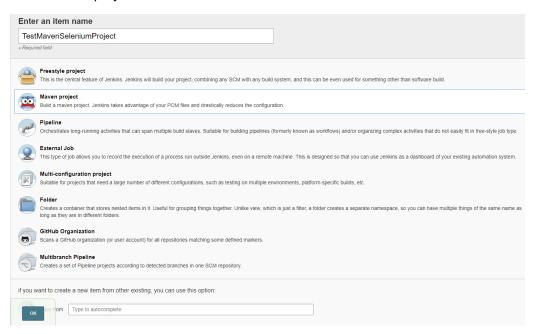


Step # 2:

Click on "Create new jobs" and enter the tem name eg: "TestMavenSeleniumProject"

Step # 3:

Select Maven project and click ok

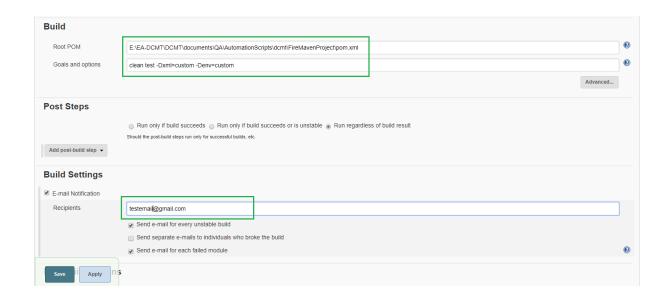


Step # 4:

Click on project "Configure" and enter the build value,

Goals and Options: just add the maven command to perform action

Eg: clean test -Dxml=custom -Denv=custom



Step # 5:

You can add email notification in order to add Recipients email id inside Build settings.



Step # 6:

We can schedule jobs in Jenkins using Build periodically.

If we wanted to trigger build automatically, however need to set build periodically option under build triggers section.

eg: If you want to schedule your build every

5 minutes, this will do the job: */5 * * * *

1 hour, this will do the job: H/1 * * * *

6:00PM and 1 AM every day: 0 1,18 * * *

build start daily at morning - 03 09 * * 1-5

build start at midnight - 59 23 * * 1-5 OR @midnight

November 29, 9:30 AM: 30 9 29 11 *

December 23, 7:30 PM: 30 19 23 12 *

Build Triggers		
☐ Build whenever a SNAPSH	IOT dependency is built	•
☐ Trigger builds remotely (e.g	j., from scripts)	•
Build after other projects are	re built	•
■ Build periodically		0
Schedule	30 19 23 12 *	()
	A Spread load evenly by using "H 19 23 12" rather than '30 19 23 12" Would last have run at Friday, December 23, 2016 7:30:42 PM IST, would next run at Saturday December 23, 2017 7:30:42 PM IST.	
GitHub hook trigger for GIT	Scm polling	•
□ Poll SCM		0

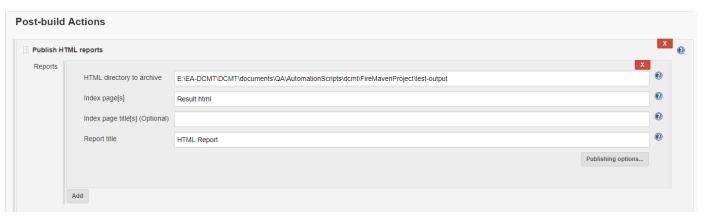
Step # 7:

To generate HTML report, need to add post build actions

HTML directory to archive: add project base folder -> test-output

Index page: Result.html

Report title: HTML report

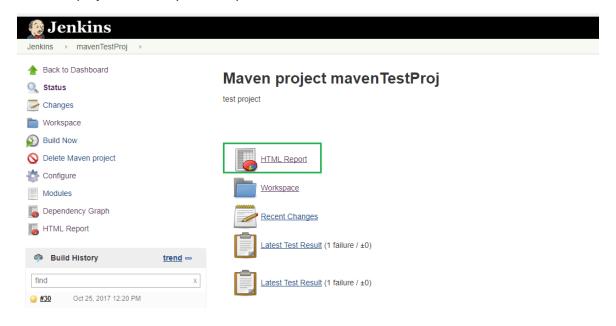


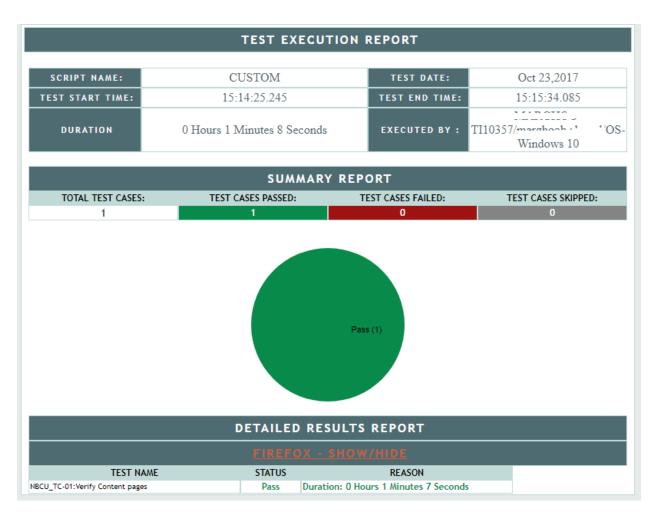
Click on **Apply** and **Save**.

Step #8:

Go back to the project and click on Build now link

Step # 9 : Go to the project and verify HTML report.





Configure FIRE

Pre-requisite:

To get started on the FIRE Framework, the initial setup steps are as follows

- 1. Install JDK and set environment variable JAVA_HOME
- 2. Download MAVEN and set environment variable MAVEN_HOME
- 3. Copy project "FireKWDemo" to system from SVN

(*path: http://svn.corp.tavant.com/svnproj/FunctionalAutomation/trunk/DemoProjects)

- 4. Download Eclipse and create maven project
- **5.** Run the Command "**mvn clean install**" from projectNamefolder where pom.xml file is located.
- 6. Now open the Testcases.xls from path "...\FireKWDemo\src\test\resources".
- 7. Next, click on Setup and RUN Button from RunConfiguration tab.
- 8. Select appropriate test cases / browser/groups and click on Submit.