

Selenium LoadRunner Online Training

srinu.qatrainner@gmail.com

Jenkins

Jenkins is a tool for Implementing CI(continuous integration)

Using Jenkins it is possible to schedule our Automation build for a particular date and Time

We can also send automated mails to the QA team when the build executes.

Configure Jenkins

Open jenkins.io – download Jenkins

To start Jenkins, Open CMD → Change the directory to the location of Jenkins.war file

Then Give the command as “java -jar Jenkins.war”

Jenkins starts on the port 8080

Wait for the message “ Jenkins is fully up and running”

How to Go to Jenkins Dashboard

Launch the Browser → trigger the command as “localhost:8080”

Go to the path mentioned in the browser and give the password → hit enter

Install Plugins → Create UserName and Password → Click on save and finish → Now the Jenkins Dashboard will be seen

Scheduling the Automation build through Jenkins

This can be done in 2 ways

1. Create a Runnable Jar file
2. Create a Batch file

Creating a Runnable Jar file

Open Eclipse → Right Click on our Project → Click on Export → Expand Java → Click on Runnable Jar file → Click on next →

Now goto Jenkins Dashboard → Click on new item → give some Name → select free style project -> click on OK Button → GO to build triggers → select Build Periodically → Now give the schedule data and time to Run the Build (click on ? , it will help with the format of the schedule)

Go to build → select Execute Windows batch command

Selenium LoadRunner Online Training

srinu.qatrainner@gmail.com

Now give the command as "java -jar 'path of the file(Runnable jar file)'" → click on save and Apply

Now goto Dashboard of Jenkins to see the test Execution.

Sending Automated E-mail through Jenkins

Open Dashboard of Jenkins

Goto Item created → click on dropdown → click configure → Goto Post build Actions → Click on Add post Build Action → Click on Email Notification → Give the Email ID of the QA team Separated by a space → Click on Save. → Again open Dashboard of Jenkins → Click on Manage Jenkins → Click on Configure System → goto E-mail Notification → SMTP: smtp.gmail.com → Click on Advance → enable "use SMTP Authentication" → Enter Email id and Password → enable checkbox "use ssl" →

SMTP port 465 → Enable "Test configuration by sending test email and enter your Gmail id → Click on Test Configuration.

NOTE: If the programs do not have main method, we cannot create Runnable Jar file.

In this case we should create a Batch file of the Entire TestNG test suite.

Creating Batch file

Open Notepad and give the below command and save the notepad with .bat as an extension

Java -cp "Path of the lib folder where external jar file are present"/*;"path of the bin folder where .class files are present" org.testng.TestNG "path of TestNG.xml present in Eclipse"

Now Open Jenkins and Schedule the Build Execution Date and Time (follow the above steps done for Runnable Jar file) → But in "Execute Windows Batch Command" type the command as below.

"path of the .bat file created"\fileName.bat

Eg: C:\Users\DELL\Desktop\NewToursLogInTesting.bat