**Steps to Launch Selenium Scripts(Headless Mode) on Linux Server (EC2 Instance Redhat-RHEL 7.3(MaiPO)**

1. Integrate the Jenkins with the pom.xml of the Test automation Framework.
2. Install Maven and jdk on LINUX server.
3. Since LINUX server does not provide GPU (Graphics Processing Unit), we need mentioned steps to create virtual display, which will provide the platform to launch scripts in headless mode

Install xfvb.

yum install xorg-x11-server-Xvfb

if unable to install, try below commands.

yum install xorg-x11-server-Xvfb-1.10.4-6.el6.x86\_64.rpm

Once xvfb installation is done, run below commands

Xvfb :1 -screen 0 800x600x24&

#where 1 is display id, it can be anything between 0 to 99

# 0 800x600x24 is the screen resolution.

export DISPLAY=1

**Before script run, virtual display session should be up**

1. Install Required browsers on Linux server.

**For Firefox**

sudo yum install firefox

**For Google Chrome**

sudo yum install -y google-chrome-stable

1. Required changes to be done in the code.

**public** FirefoxDriver getLinuxFireFoxDriver() {

DesiredCapabilities dcap = DesiredCapabilities.*firefox*();

System.*setProperty*("lmportal.xvfb.id", ":1");

String Xport = System.*getProperty*("lmportal.xvfb.id");

System.*setProperty*("lmportal.deploy.firefox.path", "/usr/bin/firefox");

**final** File firefoxPath = **new** File(System.*getProperty*("lmportal.deploy.firefox.path"));

FirefoxBinary firefoxBinary = **new** FirefoxBinary(firefoxPath);

firefoxBinary.setEnvironmentProperty("DISPLAY", Xport);

**return** **new** FirefoxDriver(dcap);

}

1. IF running the Maven project from Linux location ,

Execute all the mentioned commands at once.

export JAVA\_HOME=/opt/TestSP/jdk1.8.0\_131

export M2\_HOME=/opt/apache-maven-3.0.5

export M2=$M2\_HOME/bin

export PATH=$M2:$PATH

mvn test

1. Execute the scripts from Jenkins .
2. The scripts should be launched in LINUX server in headless mode.