## Scope

Th scope of this document is to prepare an environment for automating identified test cases using Robot framework and Selenium and dockerize test project.

## Prerequisites

The operation system should be Windows 7 or 10. If you want to run on another operatining systems. You should select correct version of these tools and frameworks below.

* JDK1.8.0\_101
* Docker Toolbox
* Maven 3.3.9

## Installation Instructions

1. Install JDK1.8.0\_101
2. Configure JAVA\_HOME environment variable and add java bin folder directory to PATH environment variable
3. Download and install Docker Toolbox from this url : <https://docs.docker.com/toolbox/toolbox_install_windows/#step-2-install-docker-toolbox>
4. If firewall is enableed, add a new inbound rule to the firewall
   1. Go to Advanced Setting For Windows Firewall window
   2. Click Inbound Rules
   3. Select new Rule in right top side
   4. Select “Custom” in the popup and click Next
   5. Select “All Programs” and click Next
   6. Click Next
   7. Get your ip address by using ipconfig in cmd prompt
   8. Change last block to 0 and 255 and create two different ip addresses. Sample if your ip address is 10.12.22.45, you will use 10.12.22.0 and 10.12.22.255
   9. Add these ip addresses to Local IPs in the popup like this 10.12.22.0-10.12.22.255
5. Install Maven 3.3.9 by following instruction in this web site : <https://www.mkyong.com/maven/how-to-install-maven-in-windows/>
6. Pull docker images by using instructions below
   1. Open docker quickstart terminal
   2. Run “docker pull selenium/hub” command in the docker console
   3. Run “docker pull selenium/node-firefox-debug:2.53.1-americium” command in the docker console
   4. Run “docker pull selenium/node-chrome-debug :3.0.1-dysprosium” command in the docker console

## Configure Test

1. Open Kitematic(Alpha) window
2. Open Selenium Hub image
3. Get its ip address
4. Open test.robot file under src\test\robotframework\acceptance in the project folder
5. Change “192.168.99.102” with new IP address in the file

## Run Test

1. Open command prompt
2. Go to the Project directory
3. Run “docker-compose up –d” command
4. Run “mvn integratio-test” command.
5. After the test is finished, go to target/robotframework-reports folder under the Project directory and open log.html in the web browser.

## Troubleshooting

1. **missing artifact tools.jar**

Copy tools.jar file in the Project folder to lib folder under JAVA\_HOME path.

1. **Could not find artifact com.sun:tools:jar:6 at specified path C:\Program Files\Java\jdk1.8.0\_101/../lib/tools.jar**

Create a new folder with “lib” name in the parent folder of JAVA\_HOME directory and add tools.jar file under this lib folder.

1. **Session [\*] was terminated due to SO\_TIMEOUT**

Restart all docker images by using these commands under the Project folder in the command prompt sequentially below and run tests again

docker-compose stop

docker-compose rm

docker-compose up –d

mvn integration-test