**Vikas Test Project**

# [Instructions for running Vikas Test Selenium project through ANT](http://confluence.remedysystems.com/display/MHRA/Instructions+for+running+mHRA+Selenium+project++through+ANT)

## Prerequisite:

Installing core dependencies:

* Download & Install JDK 1.7(Java SE Development Kit 7u9)
* Windows
  + [Win 32-Windows x86](http://www.oracle.com/technetwork/java/javase/downloads/jdk7u9-downloads-1859576.html)
  + [Win 64-Windows x64](http://www.oracle.com/technetwork/java/javase/downloads/jdk7u9-downloads-1859576.html)
  + [Set Path](http://java.com/en/download/help/path.xml)
* Mac & Linux
  + [Mac OS X](http://www.oracle.com/technetwork/java/javase/downloads/jdk7u9-downloads-1859576.html)
  + Path Auto configured

Verify JDK is configured correctly

* java -version
* javac -version

For windows: Copy the **tools.jar** file from Java>JDK>lib folder to Java>JRE>lib folder.

## Install ANT 1.8.4 or higher

Requirement: ANT 1.8.4

i> Installing Ant on Windows

\*Enter the URL: http://ant.apache.org/bindownload.cgi

\*On the Apache Ant Project page, find the heading 'Current Release of Ant.'

\*Select [apache-ant-1.9.2-bin.zip](http://www.poolsaboveground.com/apache/ant/binaries/apache-ant-1.9.2-bin.zip) [[PGP](http://www.apache.org/dist/ant/binaries/apache-ant-1.9.2-bin.zip.asc)] [[SHA1](http://www.apache.org/dist/ant/binaries/apache-ant-1.9.2-bin.zip.sha1)] [[SHA512](http://www.apache.org/dist/ant/binaries/apache-ant-1.9.2-bin.zip.sha512)] [[MD5](http://www.apache.org/dist/ant/binaries/apache-ant-1.9.2-bin.zip.md5)]

\*Click Save to unzip and save it to your C:\ directory

\*Set Environment Variable; follow

http://www.daimi.au.dk/~hbc/technical/ant/setup.html

ii>Installing Ant on Mac OS X

\* Ant is already installed on Mac OS X, and so it is not necessary to install it yourself.

\* If you absolutely want to install it, though, the best way would be to install it through MacPorts (using sudo port install apache-ant)

\* However, to install it manually, you would need to follow 2nd Answers

<http://stackoverflow.com/questions/3222804/how-can-i-install-apache-ant->on-mac-os-x

iii>Verify ANT installed correctly

a> open terminal

b> ant -version

## Ubuntu (Linux) install instructions for Java, Ant, and other dependencies

sudo add-apt-repository ppa:webupd8team/java

sudo apt-get update

sudo apt-get install oracle-java7-installer libgeronimo-activation-1.1-spec-java ant1.7 ant1.7-optional ant-contrib

## Setting up environment variables:

**i> On Windows**

JAVA HOME and ANT HOME path need to be set as environment variables.

a> Navigate to My Computer>Properties

b>Click on 'Advanced system settings'

c>Click on 'Environment Variables'

d> Under system variables grid, click on Path

e> Add path for ANT , i.e. ANT DIRECTORY/bin

f> Add path for JAVA, i.e. JAVA/JDK DIRECTORY/bin. Terminate the path by using a semi colon ;

**ii> On Linux or Macintosh System**

1. In your home folder, open the .bash\_profile file in the root directory.
2. Add the following lines to the file, substituting the directory where you installed Ant:
3. ANT\_HOME=/apache-install-dir/apache-ant-version
4. ANT\_OPTS="-Xms256M -Xmx512M"
5. PATH=$PATH:$HOME/bin:$ANT\_HOME/bin

export ANT\_HOME ANT\_OPTS PATH

1. To test the setting, type **ant** at a command prompt and press Return.
   * If a Build not found error message appears, you have correctly installed Ant.
   * If you do not see an error message, check the environment variable settings and make sure they are pointing to the correct directory locations.

## Setup JARS

Requirement: The appropriate JAR's need to be present in specific ANT's classpath.   
**Note:** Path where BUILD.XML is located is referred as **BASEDIR**

i> Copy all files from <Basedir/lib/antLib> to your machine specific ANT's lib folder,

a> Windows: C:/Program Files/apache-ant-1.8.4-bin/apache-ant-1.8.4/lib

b> MAC: /usr/share/ant/lib

c> Linux32/64: /usr/share/java/

**Running Automation Test Cases:**

i> Open Terminal

ii> Navigate to \*BASEDIR\*

iii> Run Automation using the command as per OS-Browser compatibility

Refer to ‘**Read me- Project running instructions.txt**’ file for running instructions.

**Android Setup Documentation**

1. **To download install the Android SDK :** <http://developer.android.com/sdk/index.html>
2. **Configure the Emulator**[Location: /android\_sdk/tools/]

* android list targets
* android create avd -n cms\_task -t 2 -c 100M [To delete: android delete avd -n cms\_task]

*For ABI  Error: http://stackoverflow.com/questions/10019532/no-abi-error-when-creating-an-android-virtual-device*

*When prompted "Do you wish to create a custom hardware profile [no]" enter "no".*

1. **Start the Emulator:**

* emulator -avd cms\_task &

1. **Install the Webdriver APK:**

Every device or emulator has a serial ID. Run this command to get the serial ID of the device or emulator you want to use:*Location: /android\_sdk/platform-tools*

* adb devices

1. **Download the Android server** from our [downloads page](http://code.google.com/p/selenium/downloads/list). To install the application do:[paste in platform-tools]

* adb -s <serialId> -e install -r  android-server.apk

1. **Start the Android WebDriver application** through the UI of the device or by running this command:

* adb -s <serialId> shell am start -a android.intent.action.MAIN -n org.openqa.selenium.android.app/.MainActivity

1. **Now we need to setup the port** forwarding in order to forward traffic from the host machine to the emulator. In a terminal type:

* adb -s <serialId> forward tcp:8080 tcp:8080

*This will make the android server available at http://localhost:8080/wd/hub/status from the host machine. (The wiki page*[*DeveloperTips*](http://code.google.com/p/selenium/wiki/DeveloperTips#Manually_interacting_with_RemoteWebDriverServer)*has some more information on this.)*

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**Real Device Android set up**

1. Download Install the web driver apk in android device. [https://code.google.com/p/selenium/downloads/list]
2. Connect the system and android device to same network.
3. Open the installed apk webdriver in android device.
4. Invoke the webdriver instance as following:

*WebDriver driver =* ***new*** *AndroidDriver("http://192.168.1.3:8080/wd/hub");*

*driver.get("https://cmsqc.indiatimes.com/cms");*

1. Start coding as usual for webdriver.

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**NOTE:** Document is very much a work in progress and will be updated as I move forward with automation and new files and classes will be added to this document.

***Author:***

***Vikas Gahlaut***

***Times Internet***

***For queries contact: vikas.gahlaut@timesinternet.in***