

Automation Test Code – Setup and Execution

Document Control

Document Information

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1 Executive Summary

This document will guide on the list of setup details for Automation test code execution. This will cover with the steps involved for execution also.

2 Infrastructure Setup

2.1 Overview

Automation suites is built to run on JVM 1.8 or higher. It can run on 1.7 but not tested. This suite is majorly built using different automation tools & language used is Java. That implies that it requires primarily a good JVM & JVM space for a faster performance. This is tested to work on Windows machine.

2.2 Software list

The below are the software list which needs to be installed on the Execution VM's.

Sl.no	Software Name	Recommended Version
1	JDK 32bit	JDK 1.8_161 version
2	Certificates	CA Certs installed
3	MS Office excel	MS Office
4	Browser	Chrome > 25v
5	Any Java IDE	Intellij 2017-1.xxx

2.3 Software & It's Purpose

Software Name	Owner	Purpose
JDK 32bit	Oracle	Automation solution is built on Java, Hence would require JDK.
MS Office excel	MS	Required for editing excel.
Chrome	Google	To download the files from GIT

3 Users List

We usually don't require any special users to login into these VM's. All Automation QA team should be able to login into these VM's using their HQ Credentials.

4 VM Space

We would recommend any windows 7 OS based machine to run this program.

Details	Recommended Size
RAM	4.00 GB
OS	Windows 7 or Windows 8
Processor	2.4 GHz
Hard-disk Space	1 GB free space available

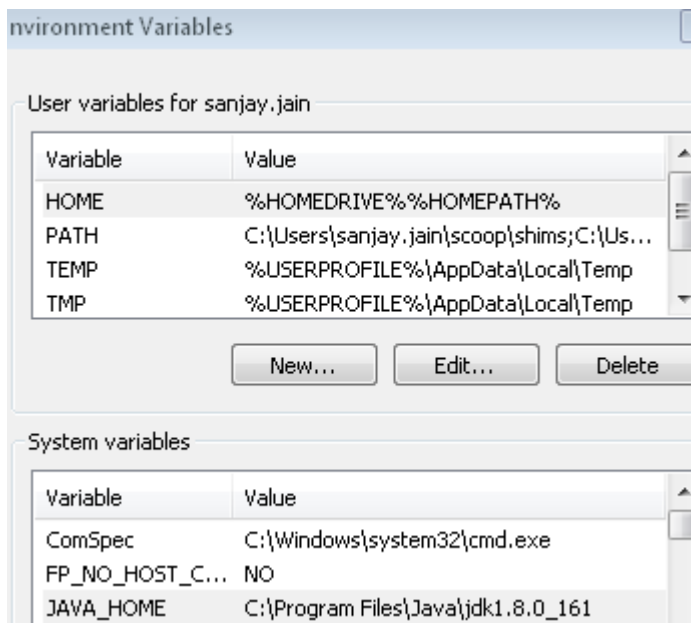
5 Steps or Sequence of installation

1. OS installation.
2. Microsoft office installation.
3. JDK installation.

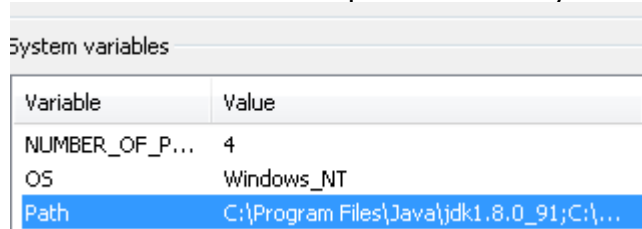
The above are all the installations.

Manual steps:

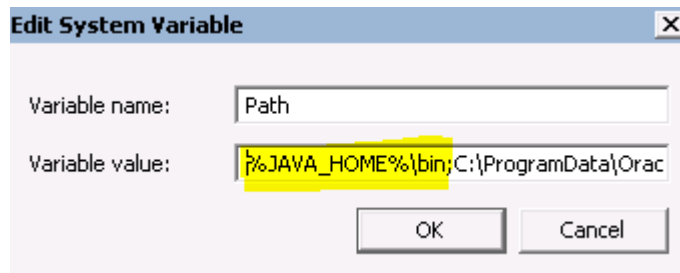
4. Configure the JAVA_HOME path.
 - Navigate to System Properties.
 - Click on New Button present in the "System Variables" section.
 - Enter the variable name has "JAVA_HOME"
 - Enter the variable path has shown below.
 - Click on OK button.



5. Configure the PATH variable.
 - Select the "Path" variable present in the System Variables.



- Append the variable value with the `%JAVA_HOME%\bin;` at the beginning of the String.



- Click on OK Button.
- Verify the java version set now. Open a new **command prompt every time** & enter the command "java -version"

```
C:\Users\sanjay.jain>java -version
java version "1.8.0_161"
Java(TM) SE Runtime Environment (build 1.8.0_161-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.161-b12, mixed mode)
C:\Users\sanjay.jain>
```

Note: This is a sample, It should show your version has "1.8.0_161"

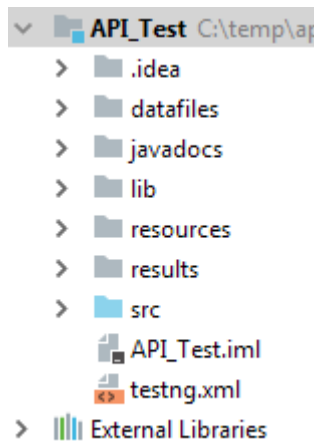
6. Copy the "cacerts" file to location **%JAVA_HOME%\jre\lib\security**
Eg: Copy the cacerts file. location to "C:\Program Files
x86)\Java\jdk1.7.0_80\jre\lib\security"
Note: If you get any certificate related failure than you need to perform this step.

6 Download the Test Code

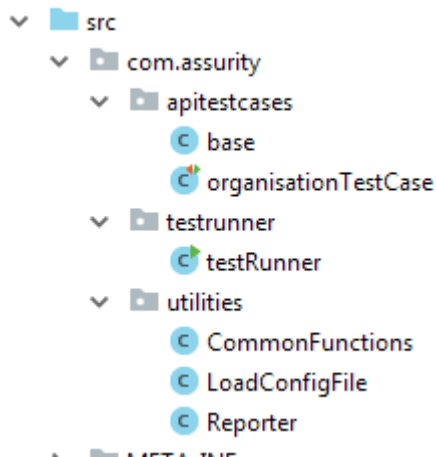
- Download the code and execution setup from the below url to your local.
GIT URL: https://github.com/sanjayrjain/api_test.git
- Extract the downloaded zip file.

7 Setup the Test Code using IntelliJ

- Open the IntelliJ.
- Follow the steps to setup the new project.
- Select the base folder for the project as "API_Test"
- Click on Finish.
- The below shown tree structure is seen.



- Add the library to the project. (lib is the library folder which contains all the required jar)
- Navigate to Test runner class.



- Run the java code.

Console output:

[TestNG] Running:

C:\temp\api_test-master\api_test-master\API_Test\testng.xml

Inland Revenue Department

Inland Revenue's mission is to provide quality tax and social policy services to Government. We aim to maximise compliance with New Zealand's tax and social policy legislation through education, quality service and appropriate enforcement.

Inland Revenue provides service to all New Zealanders. We work within the Inland Revenue Acts and other relevant laws to collect the bulk of the revenue needed by government to fund its programmes. This revenue is used according to government priorities and funds many of the services that the New Zealand community wants and needs. We also work in ways consistent with the spirit of the Treaty of Waitangi.

Inland Revenue:

- collects approximately 80% of government's revenue
- administers twenty-two types of taxes
- collects and disburses child support
- pays family assistance to those eligible
- administers the collection of the Student Loan Scheme
- deals with over 5.1 million taxpaying entities
- works with over 4,000 tax agents, who represent about 1.5 million taxpayers
- operates from 22 sites nationwide
- employs over 4,500 staff.

5

Public Service

2

```

5 row(s) affected
1 row(s) affected
1 row(s) affected
1 row(s) affected
1 row(s) affected
1 row(s) affected
1 row(s) affected

```

```

=====
API Suite validation test suite
Total tests run: 5, Failures: 0, Skips: 0
=====

```

Process finished with exit code 0

8 Reports

Location: .\results\api_test\APITest.html

ExtentReports
Automation Report
2018-01-24 05:43:40
v2.41.1

TESTS
API Test for the Services Exposed, Initial Setup
2018-01-24 05:43:37
2018-01-24 05:43:39
0h 0m 1s+950ms
Objective: To verify all the possible for an API

STATUS	TIMESTAMP	STEPNAME	DETAILS
✓	05:43:39	Completed the Initial Run	Completed the Initial Setup run.

API Test for the Services Exposed, Initial Setup
Pass

verifyOrganisationId
Pass

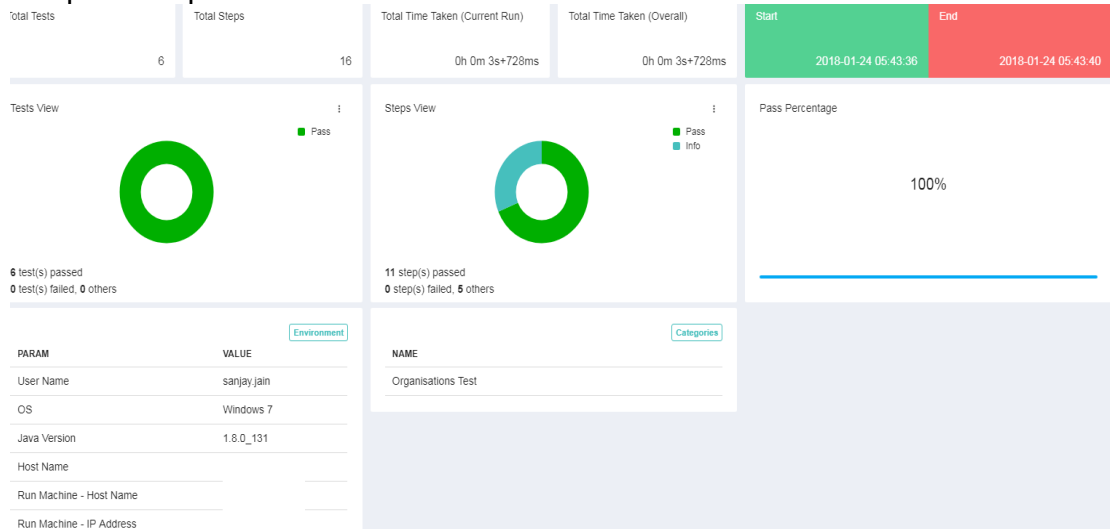
verifyOrgDescriptionContain
Pass

verifyOrganisationName
Pass

verifySectorId
Pass

verifySectorName
Pass

Samples of report:



Test Cases run:

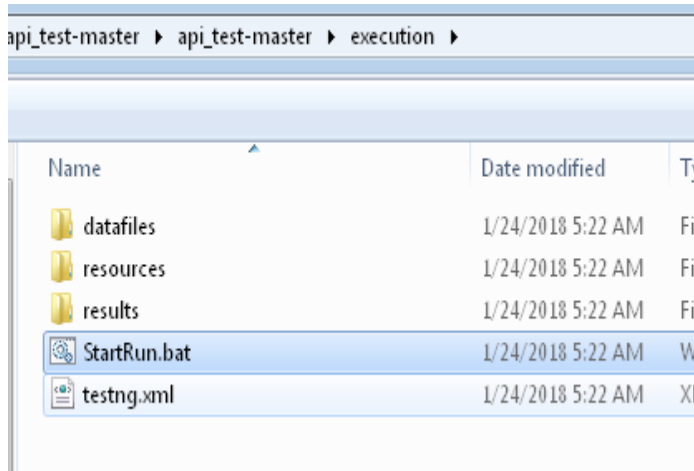
CATEGORIES		Organisations Test	
<div> <div>🔍</div> </div>		<div> <div>PASS 5</div> <div>FAIL 0</div> <div>OTHERS 0</div> </div>	
Organisations Test			
RUNDATE	TEST NAME	STATUS	
2018-01-24 05:43:39	verifyOrganisationId	Pass	
2018-01-24 05:43:39	verifyOrgDescriptionContain	Pass	
2018-01-24 05:43:39	verifyOrganisationName	Pass	
2018-01-24 05:43:40	verifySectorId	Pass	
2018-01-24 05:43:40	verifySectorName	Pass	

Excel Report

Sl_No	TestCase_Name	RequestType	URL	DataToVerify	Status	
1	verifyOrganisationId	GET	https://www.govt.nz/api/v2/organisation/list	926	PASS	
2	verifyOrganisationName	GET	https://www.govt.nz/api/v2/organisation/list	Inland Revenue Department	PASS	
3	verifySectorId	GET	https://www.govt.nz/api/v2/organisation/list	5	PASS	
4	verifySectorName	GET	https://www.govt.nz/api/v2/organisation/list	Public Service	PASS	
5	verifyOrgDescriptionContain	GET	https://www.govt.nz/api/v2/organisation/list	Treaty of Waitangi	PASS	

9 Run the Automation code

- Navigate to Execution zip file.
- Extract the content of the file.
- Double click on StartRun.bat



Console output.

```

...on>StartRun.bat

\...nexecution>java -Dsoapui.https.protocols=SSLv3,TLSv1.2,TLSv
-jar API_Test.jar
estNGI Running:
...tion\testng.xml

land Revenue Department
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blic Service

row(s) affected
row(s) affected
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row(s) affected
row(s) affected
row(s) affected
row(s) affected

=====
I Suite validation test suite
tal tests run: 5, Failures: 0, Skips: 0
=====

```

Report location: ..\results\api_test\ APITest.html

10 Glossary

Sl.No	Terminology used	Abbreviations/Location	Remarks
1	JDK	Java Development KIT	This is owned by Oracle.