

Using Marathon - GUI Acceptance Test Runner with isCOBOL™ Evolve

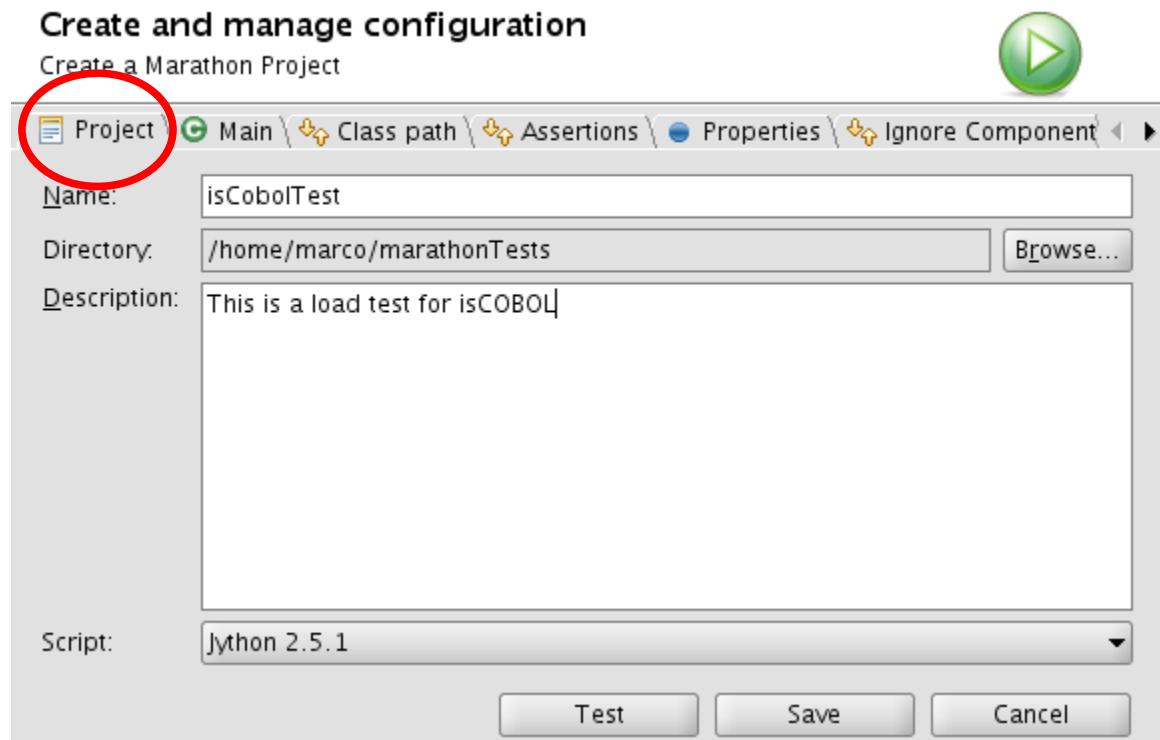
This document assumes that you have general knowledge on the use of Marathon, an open source project on SourceForge at <http://sourceforge.net/projects/marathonman/>

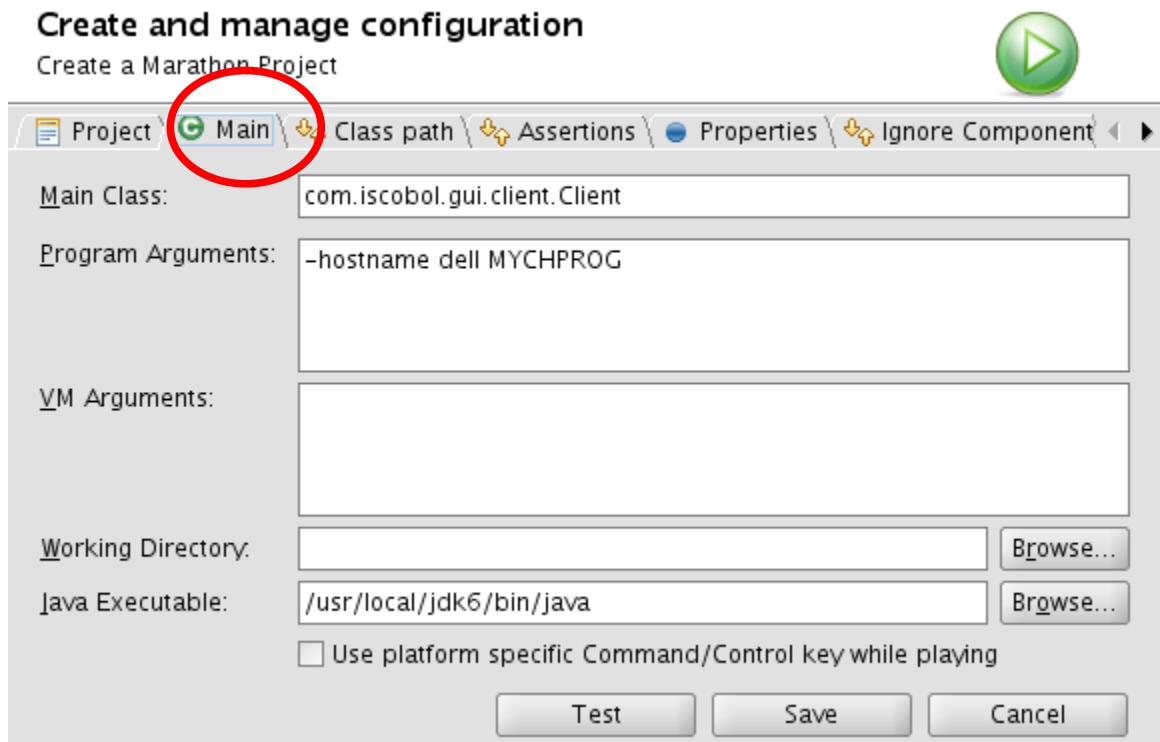
Here are the steps to create a Marathon project:

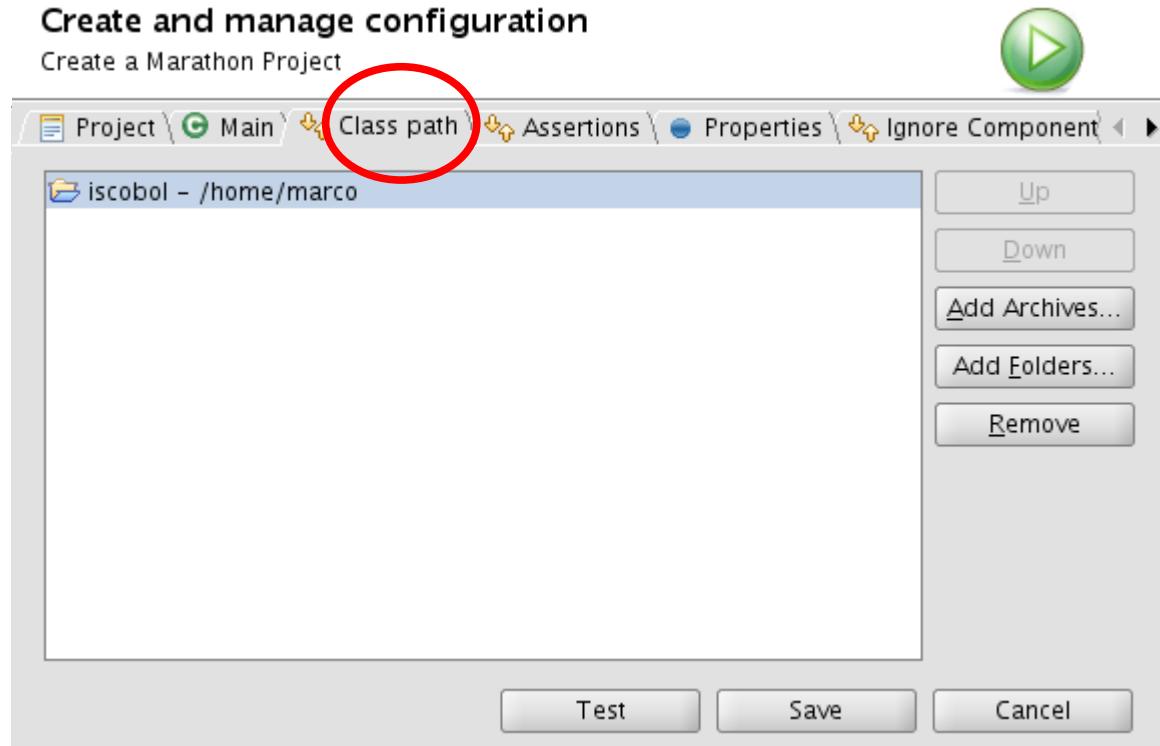
- install marathon according to its own documentation;
- create a directory in which all the configuration will be put; in my project I used /home/marco/marathonTest;
- run `marathon`: you'll get a window like the following one, choose 'New';



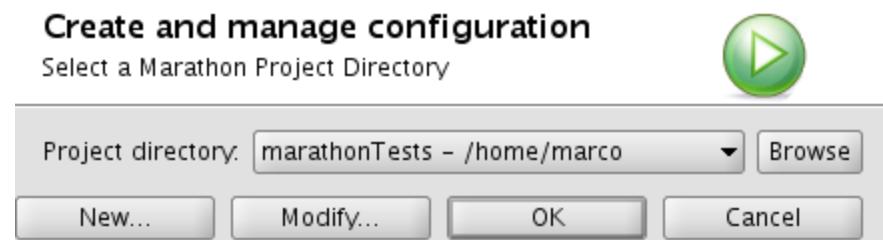
- you'll get a tabbed dialog: In this panel you enter the meta data about the project and also select the type of script you will be using with `marathon`;



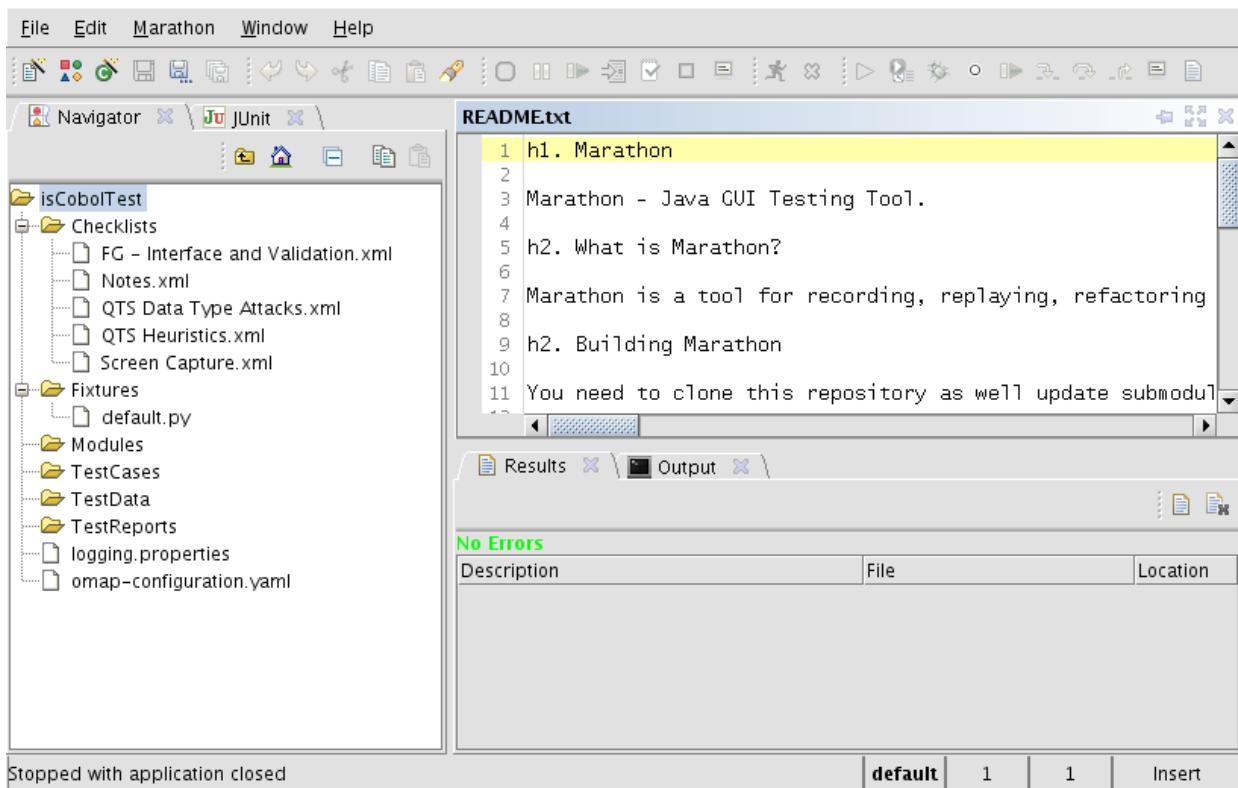




- After filling in the 3 tabs above, you can check to see if the data you specified is correct by pressing the 'Test' button, provided that the Application Server is started; if everything is OK, you'll see your application running;
- Press the 'Save' button, you will see the following dialog;

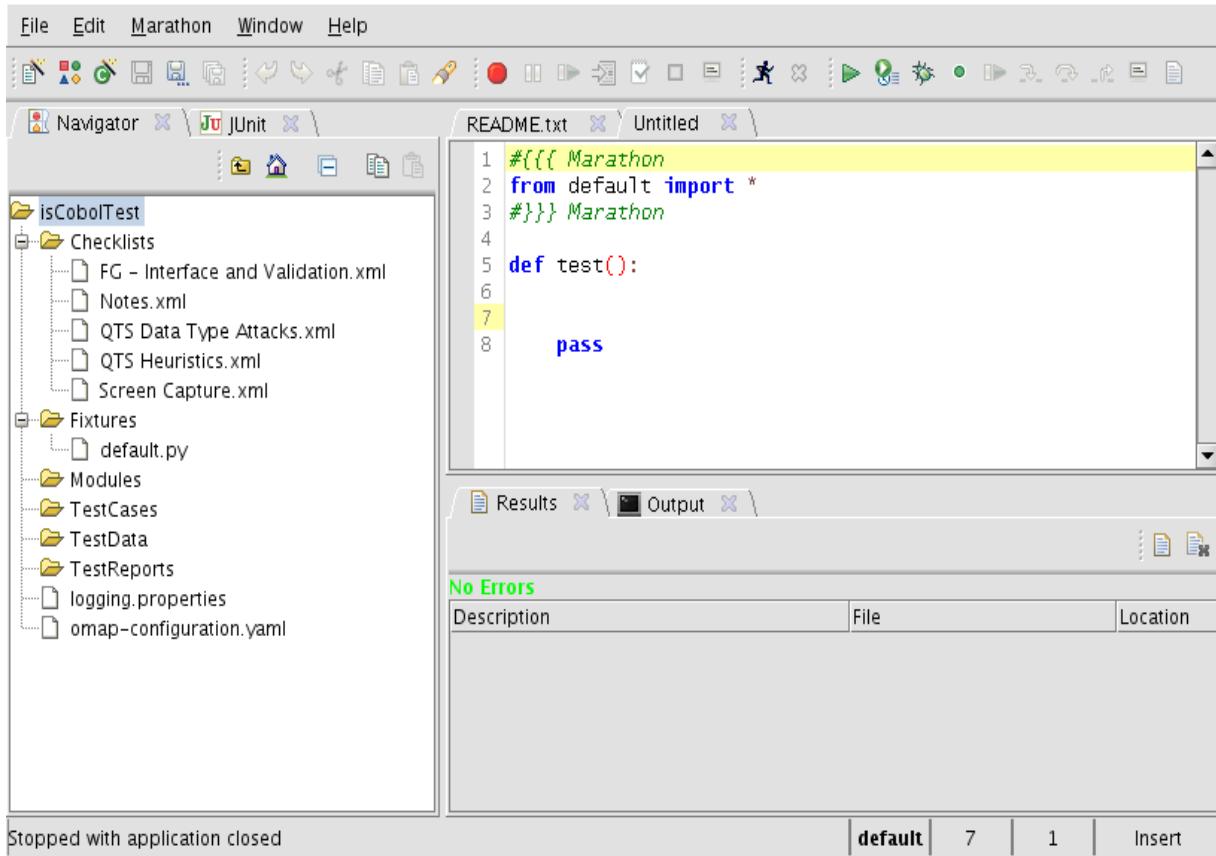


- Press the OK button and proceed on the next window;



- From the menu 'File' chose 'New->New Testcase'

Using Marathon - GUI Acceptance Test Runner



- At this point pressing the red button in the toolbar, your application will start and every action you do will be recorded; when you exit from the program you should get something like:

Using Marathon - GUI Acceptance Test Runner

The screenshot shows the Marathon GUI Acceptance Test Runner. The interface includes a menu bar (File, Edit, Marathon, Window, Help), a toolbar with various icons, and a central workspace divided into several panes.

- Navigator:** Shows the project structure under "isCoboltest".
- Editor:** Displays a Python script named "README.txt" containing the following code:

```
#{{{ Marathon
from default import *
}}} Marathon

def test():

    set_java_recorded_version("1.6.0_27")
    if window('STANDARD'):
        keystroke('com.iscobol.gui.client.TerminalAccept_17', '8')
        keystroke('com.iscobol.gui.client.TerminalAccept_17', 'null')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'F')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'r')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'e')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'd')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'null')
        keystroke('com.iscobol.gui.client.TerminalAccept_15', 'F')
        keystroke('com.iscobol.gui.client.TerminalAccept_15', 'l')
        keystroke('com.iscobol.gui.client.TerminalAccept_15', 'i')
        keystroke('com.iscobol.gui.client.TerminalAccept_15', 'n')
        keystroke('com.iscobol.gui.client.TerminalAccept_15', 't')
```

- Results:** Shows "No Errors" in the status bar.
- Output:** Shows "Stopped with application closed" in the status bar.

- The script on the right side is the real script to be used in the test; you can note some strings with the word 'null': it seems a bug of the tool, those words must be changed to the word 'Tab'.

The screenshot shows the Marathon GUI Acceptance Test Runner. The interface includes a menu bar (File, Edit, Marathon, Window, Help), a toolbar with various icons, and a central workspace divided into several panes.

- Navigator:** Shows the project structure under "isCoboltest".
- Editor:** Displays a Python script named "TstCase01.py" containing the following code:

```
#{{{ Marathon
from default import *
}}} Marathon

def test():

    set_java_recorded_version("1.6.0_27")
    if window('STANDARD'):
        keystroke('com.iscobol.gui.client.TerminalAccept_17', '8')
        keystroke('com.iscobol.gui.client.TerminalAccept_17', 'Tab')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'F')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'r')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'e')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'd')
        keystroke('com.iscobol.gui.client.TerminalAccept_16', 'null')
        keystroke('com.iscobol.gui.client.TerminalAccept_15', 'Tab')
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```

- Results:** Shows "No Errors" in the status bar.
- Output:** Shows "Stopped with application closed" in the status bar.

- At this point, pressing the green arrow in the toolbar you should see your program running automatically.
- Save your script, you can edit it later, if you need it, with your favorite editor too.
- In order to execute the load test, you can run marathon many times from the command line specifying the -batch option and the directory containing your project, e.g.

```
marathon -batch /home/marco/marathonTest
```

I was able to run 10 marathon tests on my XP machine with 1 Gb of RAM.

Note that you can create a script by hand too or you can use a script created from a local application in order to feed a client server application.