

Introduction

This document explains the steps to follow the API tests on Jmeter that applies for each test case and how to execute them.

The .jmx files are separate in folders, by testcase.

Data of a request:

Sampler result

Request:

- Request Headers
- Request Body

Response data

Behavior of the request:

*Validate the data that it returns.

*Validate if with the modified content-type the behavior continues the same.

*Validate if the JSON or XML structure is correct.

*Validate if when it gives an error, the status agrees with the error codes.

*Validate if there is an application with incomplete information, what will be the behavior of the application.

Expected behaviors:

TEST 1 →

"Ping" : GET request ""https://echo-serv.tbxnet.com/v1/system/ping" the answer must be correct and return' "ok": true '

TEST 2 →

"Echo": GET request ""http: // echo-serv.tbxnet.com/v1/echo?text=test" the answer must be correct and return"" text ":" test ""

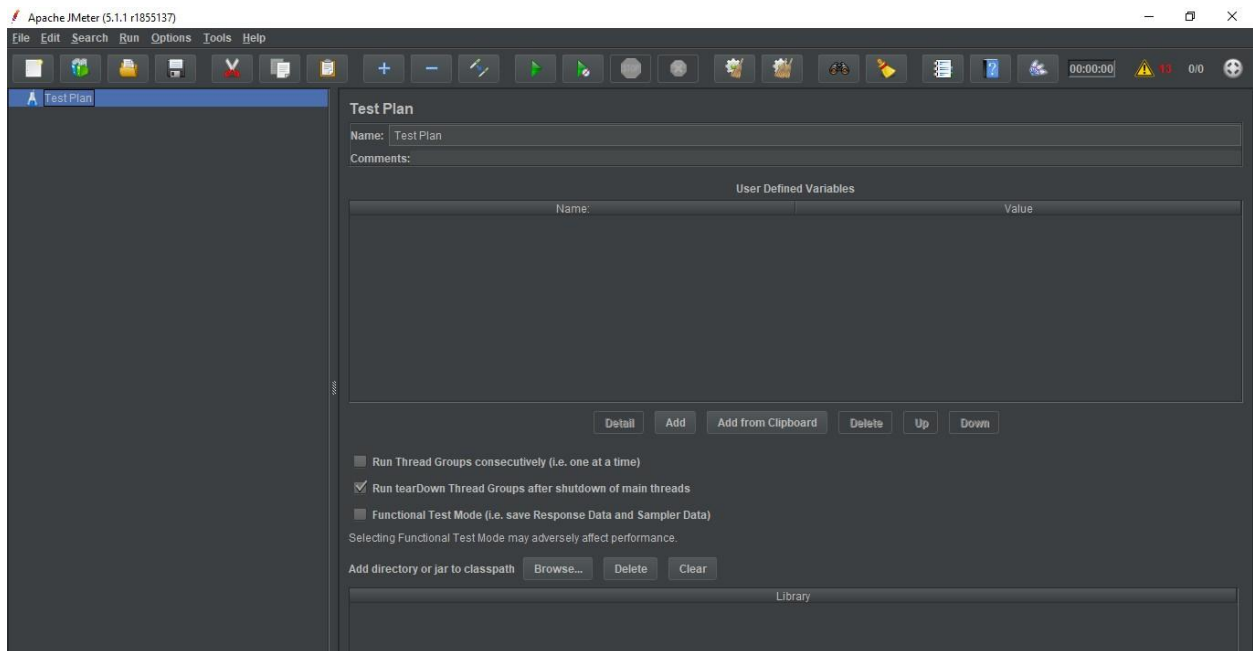
Jmeter graphic interface

Steps for run the testcases on the Jmeter (<https://jmeter.apache.org/>)

Requires Java Runtime Environment version 1.7 or higher.

To open the Jmeter graphic interface you can go to de the bin folder and search for the file jmeter.bat

You would see on the screen something like the picture below.

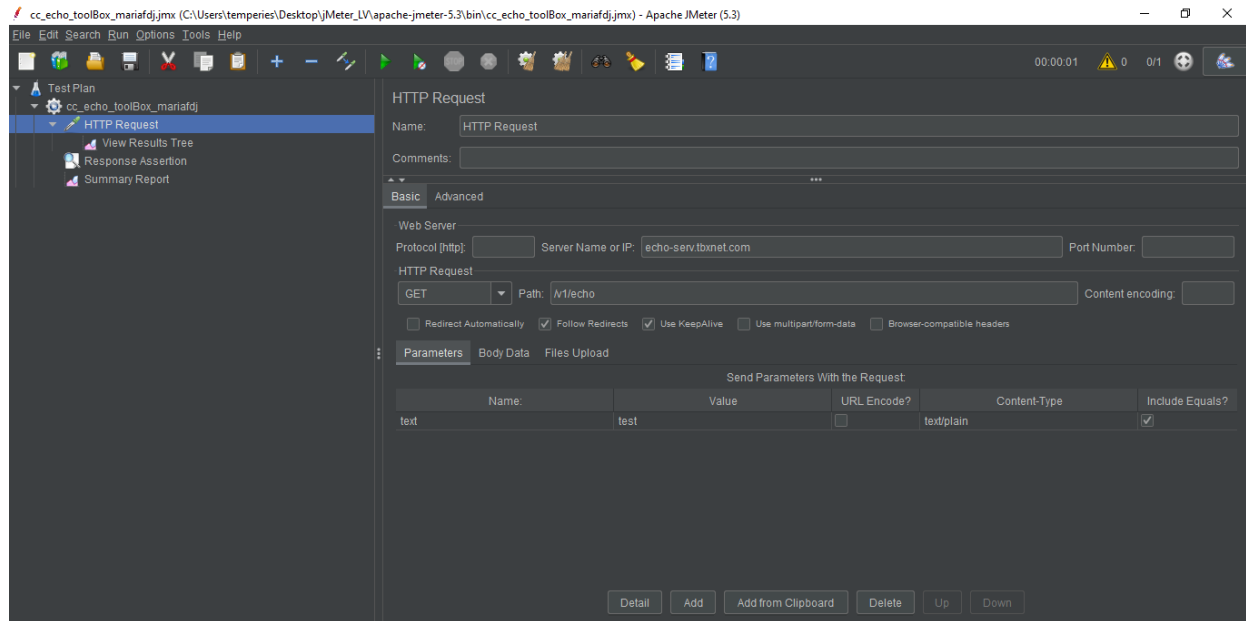


Then you open the .jmx file from the script folder and put it on the Jmeter graphic interface.

In this script are the setup for the thread groups, the steps of the testcase separate by name, the type of assertions, and the listeners.

You would see on the screen something like the picture below.

María Florencia De Juan CODE CHALLENGE – TOOLBOX

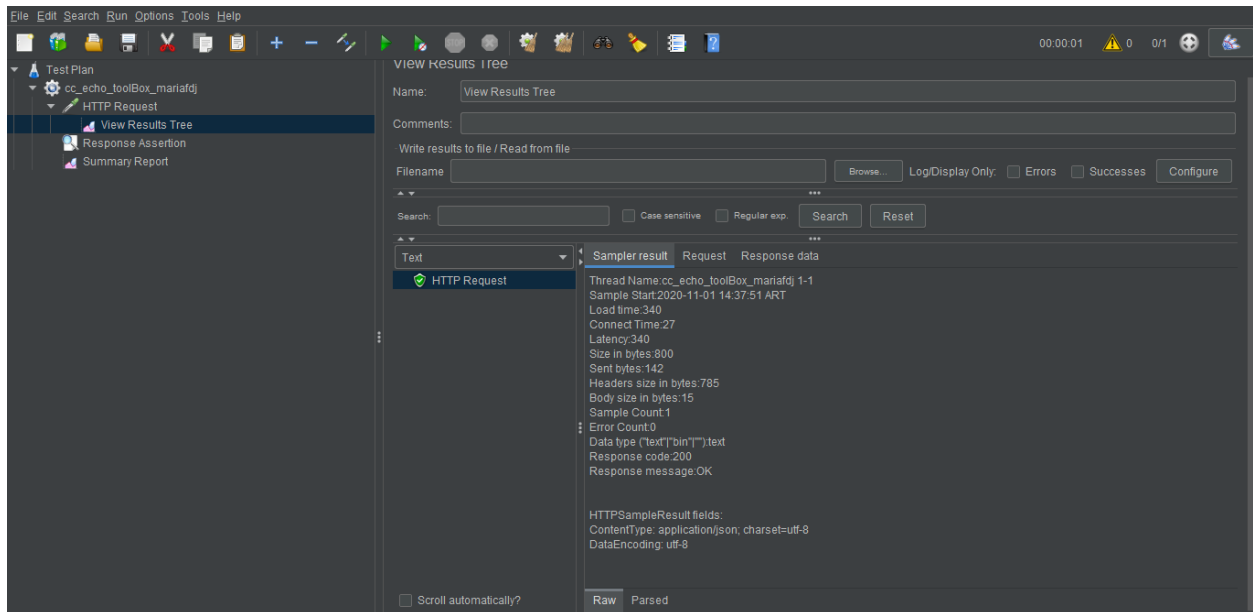


To run the test

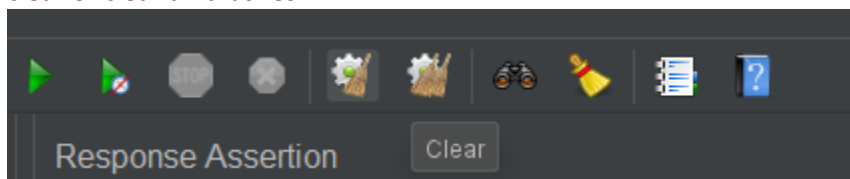
You can click on the listener “View Results Tree” to appreciate the results in a clearer way, and then click on the green top button so the test can start.

You would see on the screen something like the picture below.

María Florencia De Juan
CODE CHALLENGE – TOOLBOX



If you want to run the test case again and clean the solution from the view result tree you can go to the clear or clear all brushes



From Command Line

Requires Java Runtime Environment version 1.7 or higher.

First: Open a cmd window and change directory to: C:\Users\mariafdj\Downloads\apache-jmeter-5.1.1\bin

Execute the next command: `jmeter -n -t "name of the .jmx"`

You could see on the screen something like the picture below.

LISTENERS

The listeners that we mainly use for the testcases are:

View Results Tree

Summary Report

Aggregate Report

ASSERTIONS

Response Assertion: Response code = 200

HTML REPORTS

From Command Line

First: Open a cmd window and change directory to: C:\Users\mariafdj\Downloads\apache-jmeter-5.3\bin

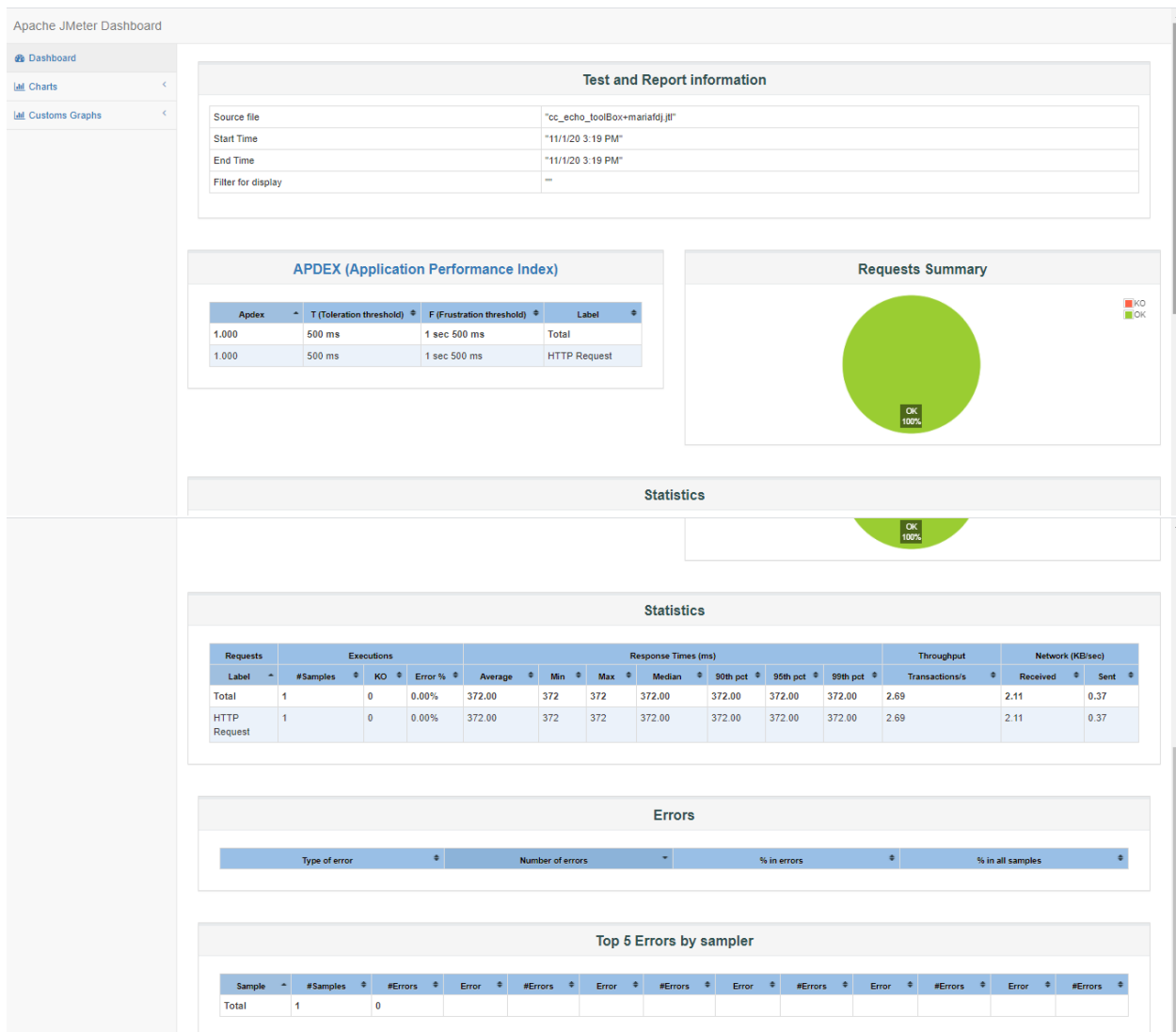
Execute the next command: jmeter -n -t "name of the .jmx" -l "name of the .jtl we want to create" -e -o "path of the html folder"

For example :

```
C:\Users\mariafdj\Desktop\jMeter_LV\apache-jmeter-5.3\bin> jmeter -n -t  
"cc_echo_toolBox_mariafdj.jmx" -l "cc_echo_toolBox_mariafdj.jtl" -e -o "report_dir"
```

María Florencia De Juan
CODE CHALLENGE – TOOLBOX

Images of the HTML REPORTS



Browser & Version

CHROME

VERSION:

Chrome 85 on Windows 10

Threads Criteria

Thread criteria in all the testcases:

1- Baseline