



# Apache - JMeter

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## Overview

Apache JMeter is an open source software project for application and server performance testing using various protocols as well as functional testing.

## Install

- Clone the following GIT repository on your disk (access could need asking a permission) :

```
git@gitlab.2moro.lan:refacto-perfo/jmeter-work.git
```

The repository includes an installation of **Apache JMeter** and everything you need, so you do not have to install it by yourself.

### Warning

I am not sure that JMeter will work in another directory than `C:\dev\jmeter-work` **TODO** Check&Fix

- Switch repository to *develop* branch.

## Use

**Apache JMeter** is an open source software project for application and server performance testing using various protocols as well as functional testing.

## Open BLM

- Run JMeter by launching :

```
jmeter-work\apache-jmeter-5.4.1\bin\jmeter.bat"
```

- Open the BLMs project using *File/Open* at the top left menu of the window (it can takes some times).
  - *File* : `jmeter-work\scripts\All-Optimal-BLM.jmx` (This can takes some times).
- The BLMs list appears in the left panel of the screen. You can expand one and see what are its steps (example : `TC2_BLM-173`).
- At each stage (example : `TC2_BLM-173_03_Open_Maintenance_Planning`), you can expand again to see the list of the endpoints called (left clic on anyone), you will see the name of the endpoint in *path*.

Example : `TC2_BLM-173_03_Open_Maintenance_Planning-0`.

## Run test

To run the test, at the top left of the screen :

- (only once) right click on *User Defined Variables-PERF*, and choose *Toogle* (or Ctrl+T) to disable it (it becomes grey).
- (only once) right click on *User Defined Variables-PERF(FOR TESTS)*, and toogle it too, to enable it (it becomes black).
- left click on *view Result Tree* to open the results screen.
- launch with *Start no pauses* (the second green triangle at the top left, the one with a a small clock with a red stripe).

## Informations

1. All BLMs are launched sequentially, starting with *Simple units test* (you can stop them at anytime with the red STOP button).

If you want to test only one BLM in particular, toggle all the others (select them with *Shift key* from *single test unit* to *TC16\_BLM-569* then Ctrl+T) and keep enabled only the one you want active. If a BLM does not work, its line is displayed in red in the *result tree screen* (should not happen with this procedure, except on some BLM that are a bit random..).

2. After each testing phase, you can clear the results with the button *Clear All* (the sweep).
3. After a testing phase, you can watch each step of any BLM.

Expand it in the *result Tree Window*, and left click on a sub item to see the detail : request, response data, body, header...

4. If you need, you can test with a local base instead of the distant one (it is faster).

The base used is `perfo.pgdump` (*Optimal*). If you dont have it yet, you can found it in **Microsoft Teams**:

- Team : Aero-Webb Refactoring & Performance.
- Files : Documents/General/Bases/perfo.pgdump (903 MB).
- Mount it.
- Launch Tomcat with the last aerowebb.war.
- Toggle ON *User Defined Variables-PERF(FOR LOCAL USE)*.
- Toggle OFF *User Defined Variables-PERF(FOR TESTS)*.