Jmeter Tuning

Outline

- Prerequisite
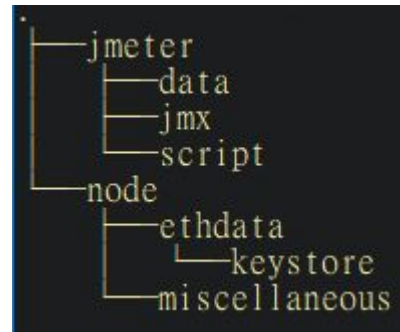- Structure
- GUI Tuning
- CLI Tuning

Prerequisite

Java8 +: sudo apt install openjdk-8-jdk

Jmeter: https://jmeter.apache.org/download_jmeter.cgi:

     Jmeter is a load testing tool. Customize its configuration file, *.jmx, to reach its extraordinary flexibility.

Structure

- jmeter: jmeter related files about this project
  - data: input data that is read by .jmx file
  - jmx: all different configuration files for jmeter.
  - script: external script that is used by .jmx file.
- node: go-ethereum(geth) related source code
  - ethdata: private chain data
  - miscellaneous: all the small tools related to geth.

You can find some additional README.md in some directory explaining about more details in the directory. Besides, every python file has a comment, which tells the functionality about the program, in the first line.
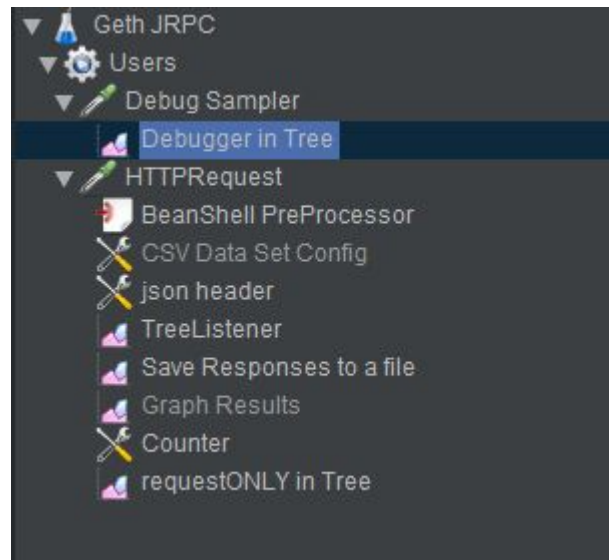
GUI tunning

- Import Files
- Input Rate
- Input Files
- BeanShell Script
- Output
- Modify Test Plan with Ease

Import Files

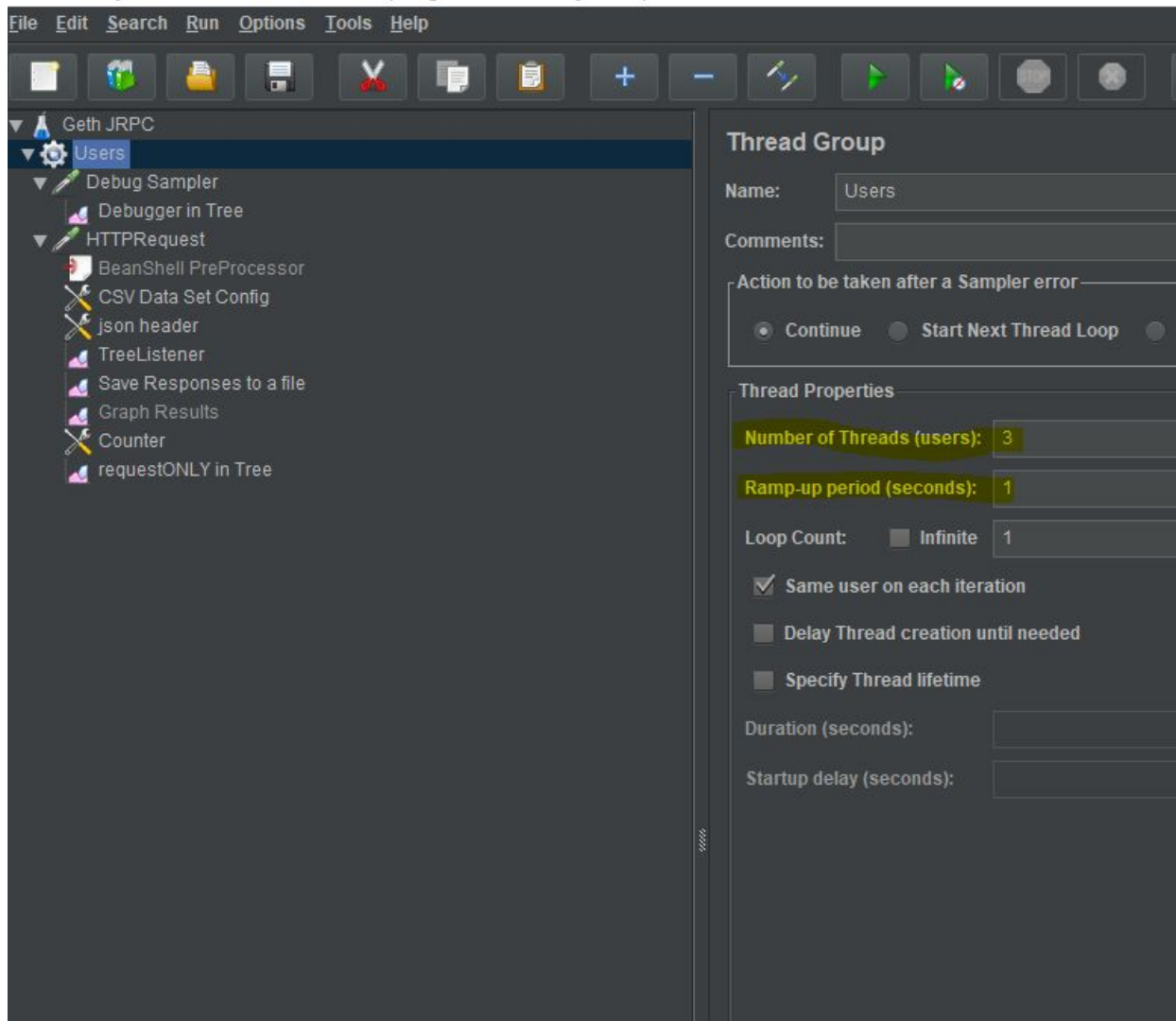Import *.jmx files to change parameters in it.

- File(up-left corner) > open > (choose file)
- Before tuning, make sure you are always on the same module in the left panel.
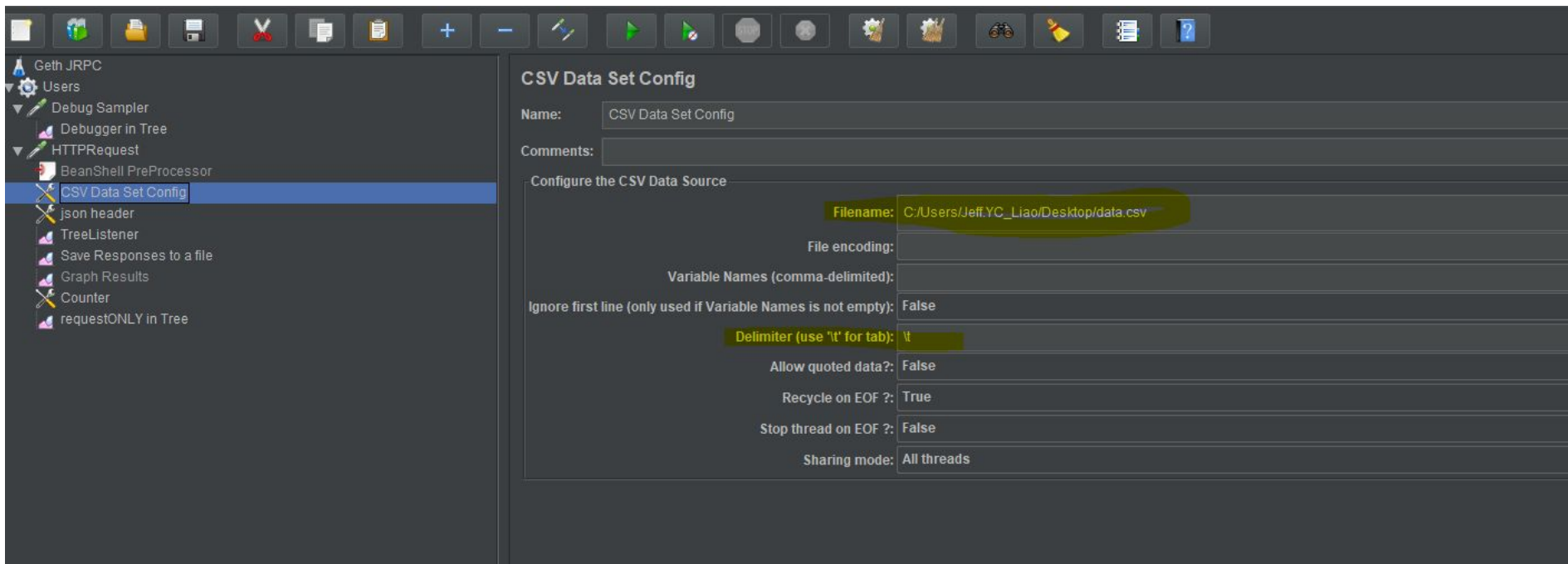
Input Rate

Jmeter will send [Number of Thread] inputs within [Ramp-Up Period] with auto job balancing.

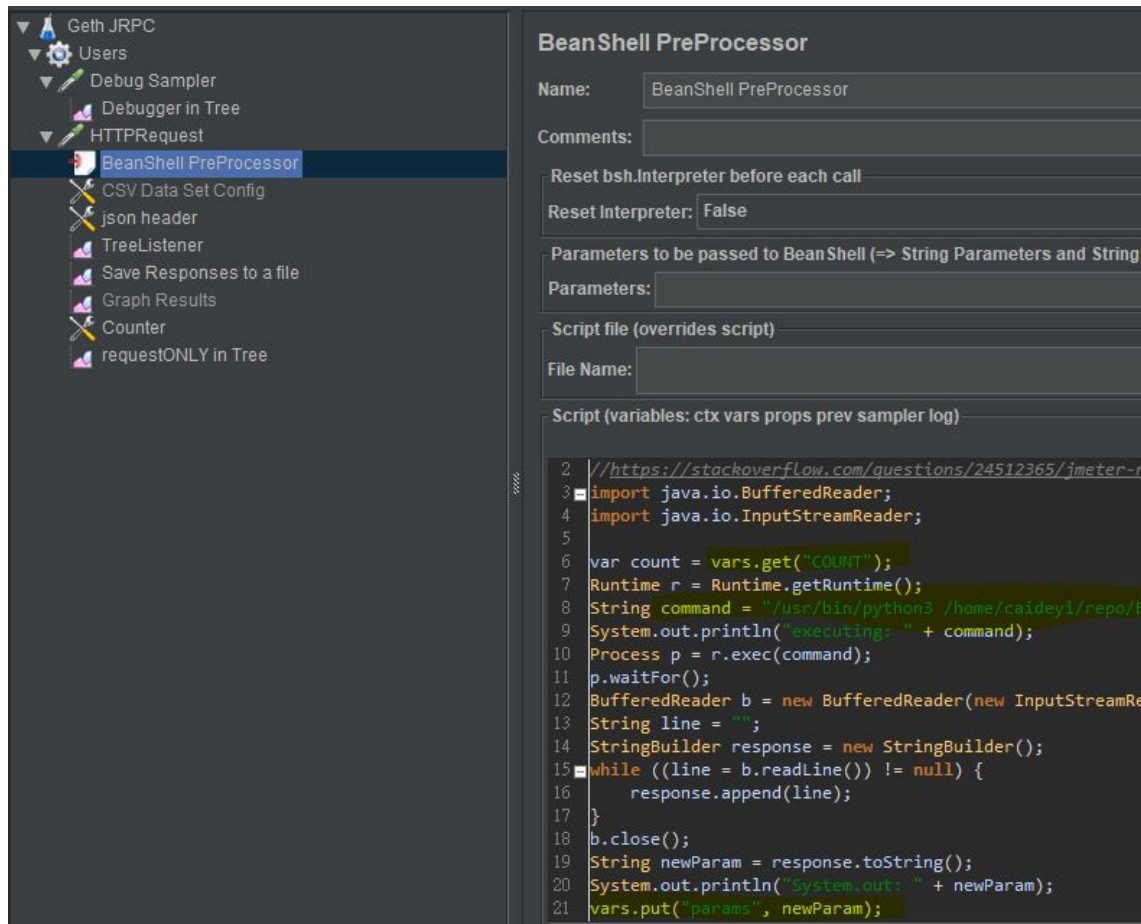Change [Loop Count] if you want jmeter to send duplicated requests more than once.

Input Files

Store [Filename] data as variables. Change [Delimiter] if your csv file is not using ',' as delimiter. The way to access variables is described later.
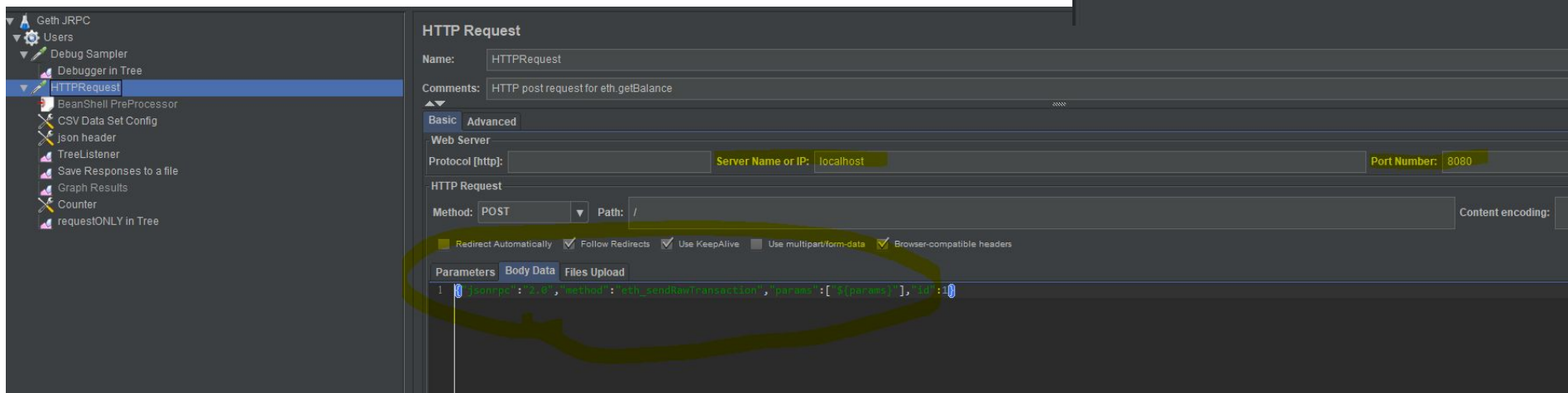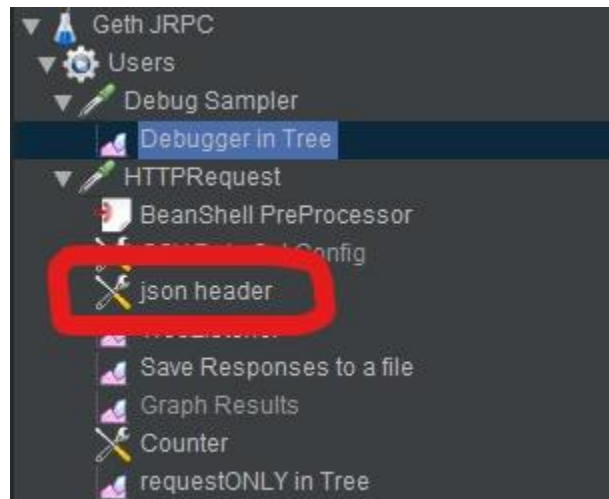
BeanShell Script

1. Access/Modify(Create) variables by vars.get(); vars.put();
2. Support Java syntax.(i.g. System.out.println())
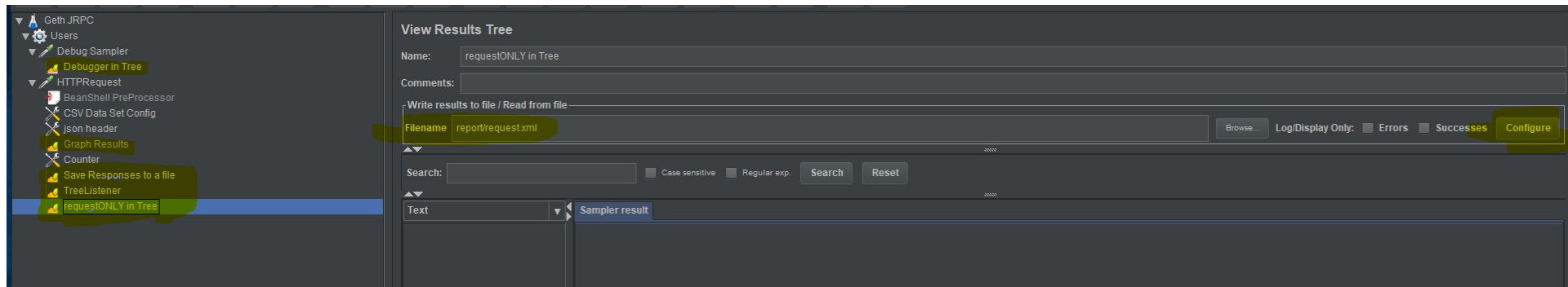3. Invoke external script by absolute path

Change Request Format

- Send [BodyType] request to [ip]:[port].
- ${XXX} within BodyType is controled by input csv and/or BeanShell script.
- disable json header(right pic) and change [Method](below) if you want other request type.
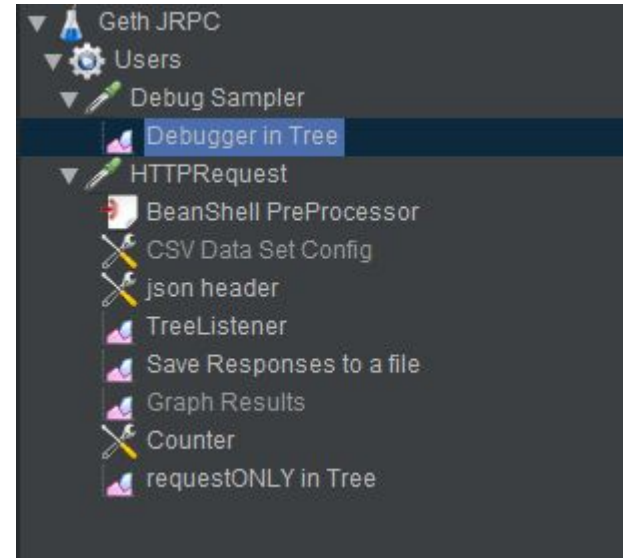
Output

1. outputs is stored to [Filename]. Configure the format using [Configure].
2. Adding different listeners may look different on GUI, but the output file only depends on [Configure].
3. Add listener by: (Right click on left panel object(HTTPRequest for example) > add > listener > (Choose one type)

Modify Test Plan with Ease

Disable/Enable modules by:

(Right click) > Disable/Enable

CLI tuning

Please refer to stressTest/jmeter/jmx/README.md