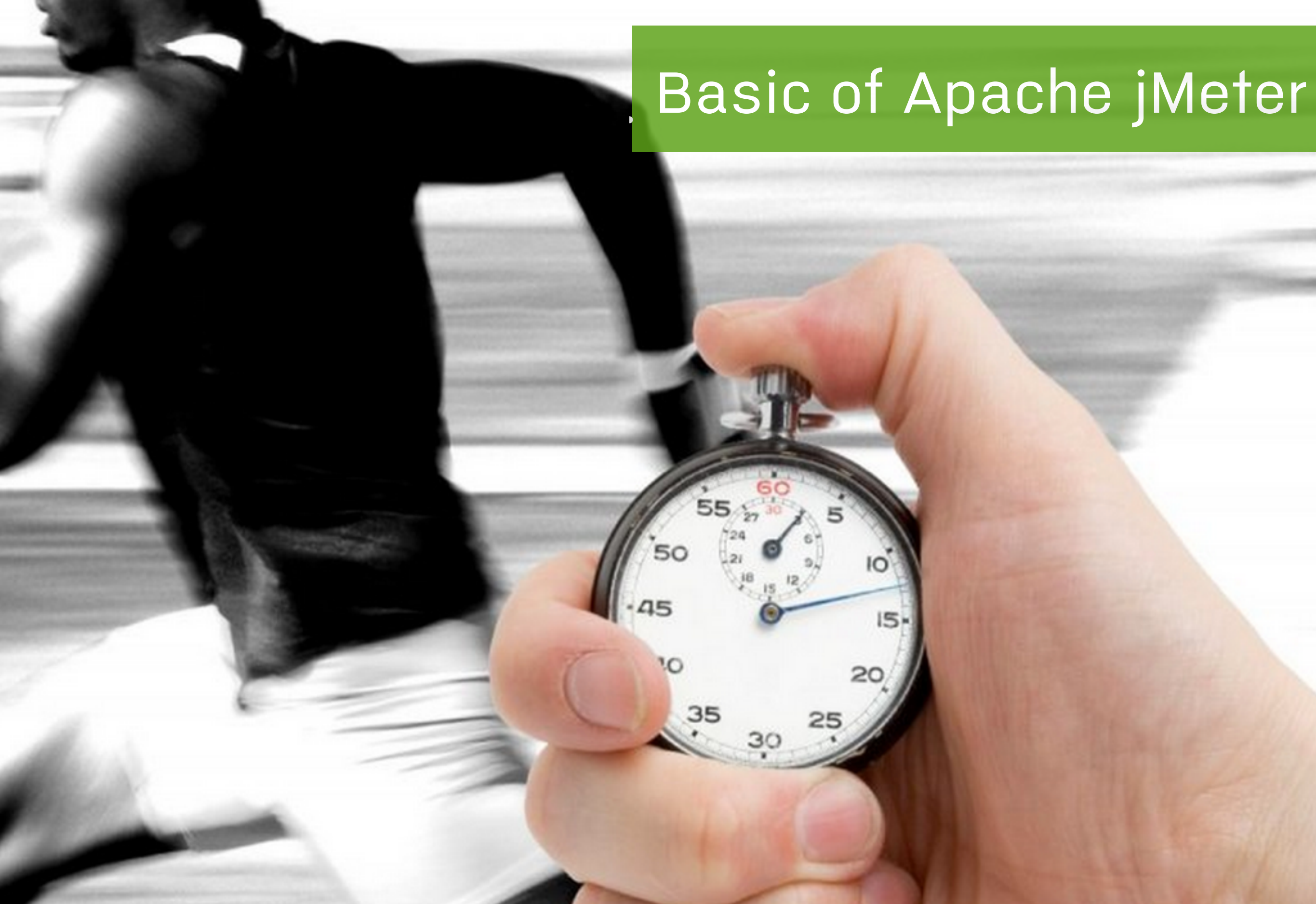


Basic of Apache jMeter



Apache jMeter ?

Open source

Java based

Platform independent

Full multithread framework

Visualize test result

Suport multi-protocol

Easy installation



How it work ?



Support multi-protocol

Web => HTTP, HTTPS

SOAP/REST

Database via JDBC

LDAP

JMS

Mail => POP3(s), IMAP(s), SMTP

MongoDB

FTP



jMeter is not browser

Not execute javascript

Not render HTML page



Installation

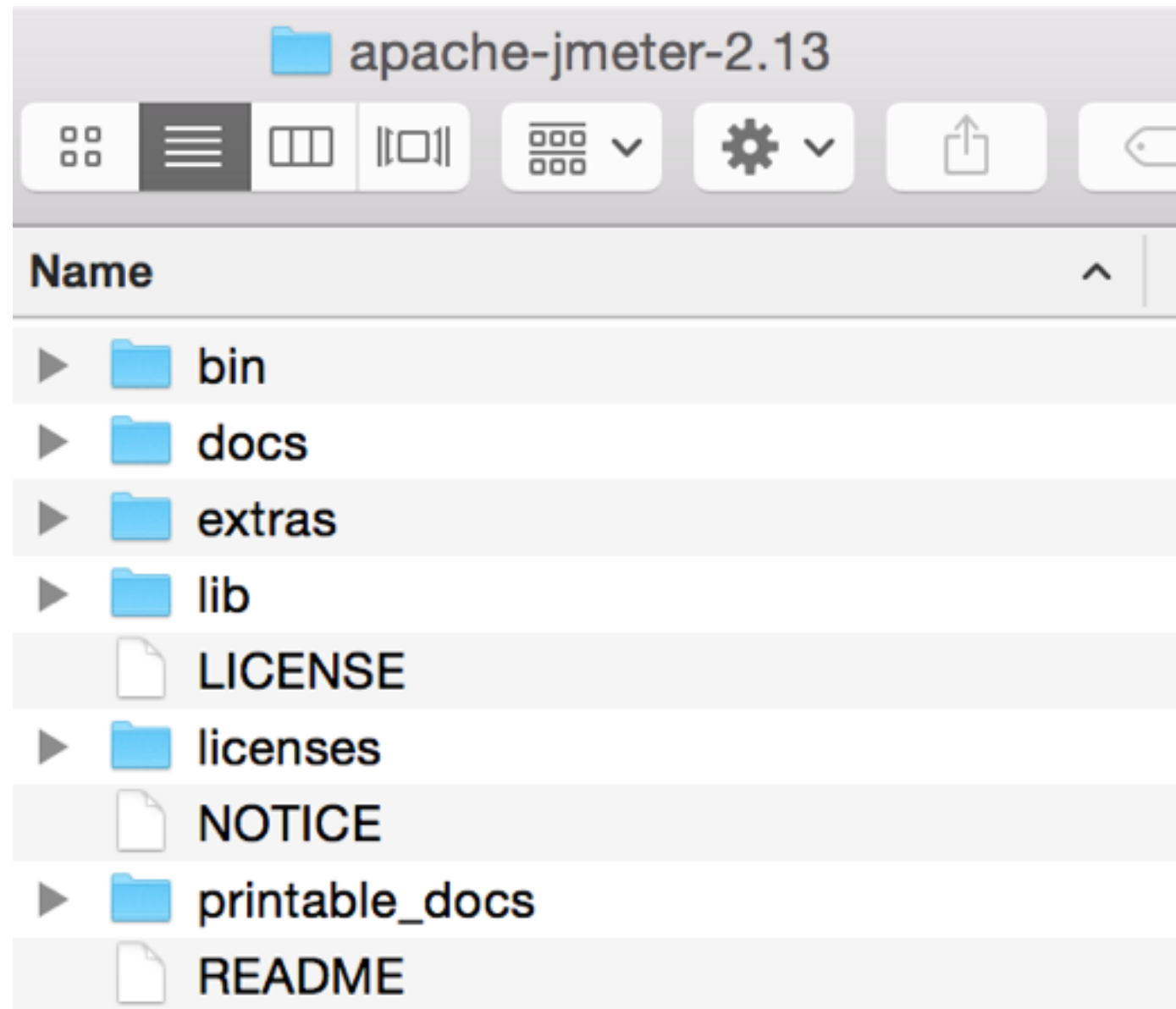
Download 2.13

<http://jmeter.apache.org/>

*** Required JDK 1.6+



Extracted



Folder structure

1. bin/

Executable scripts

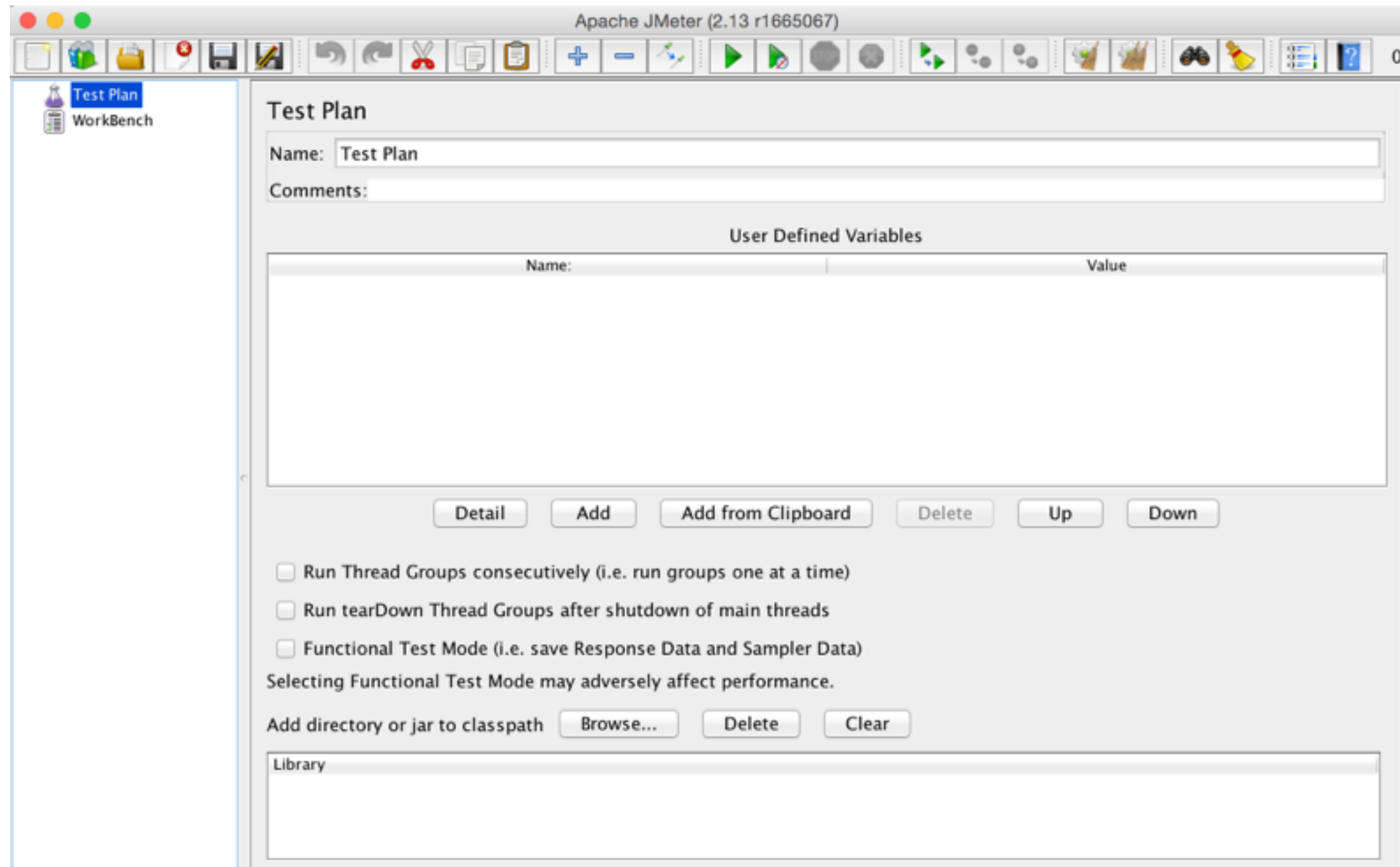
e.g. jmeter, jmeter-server

2. lib/

Keep library / JAR file

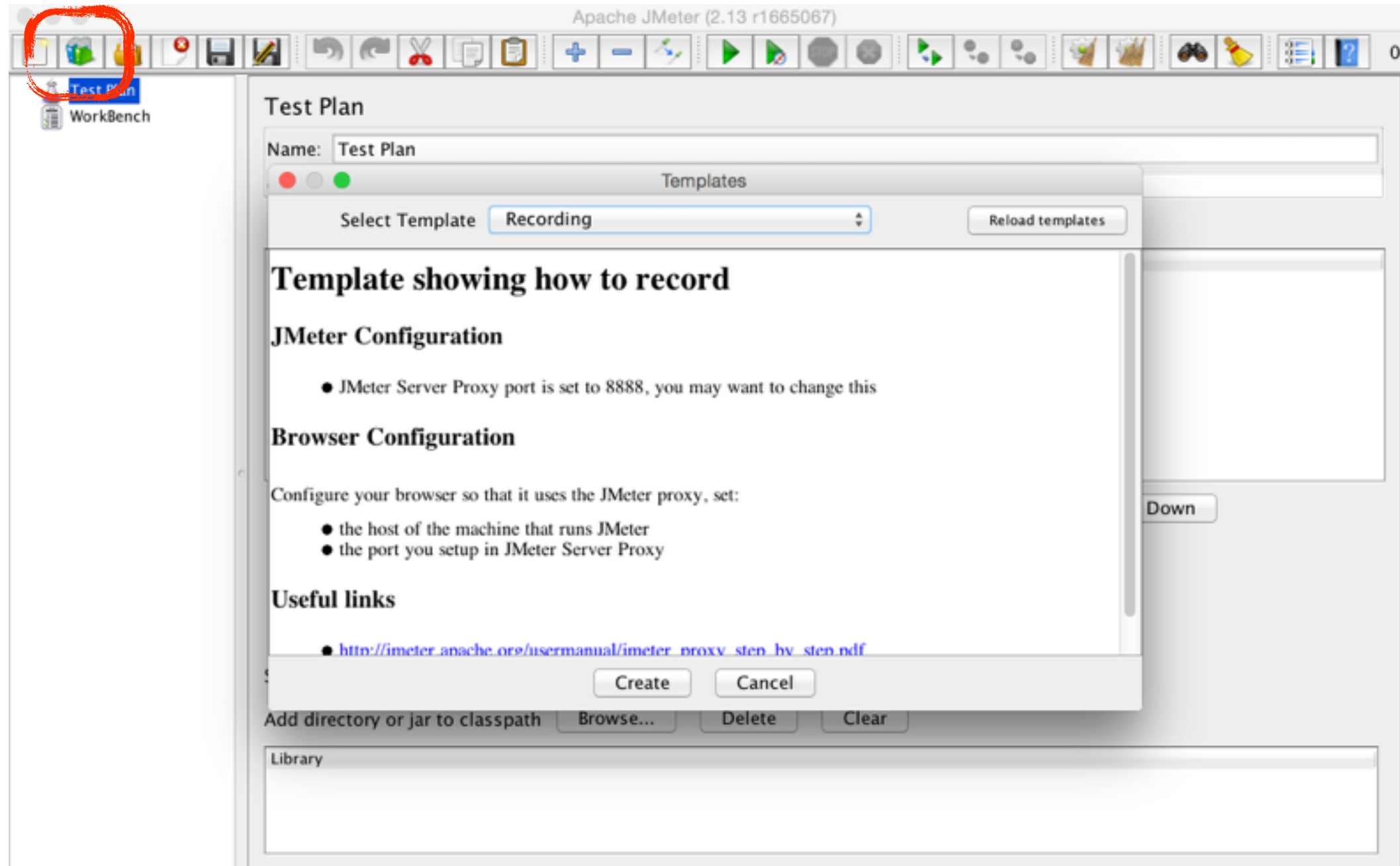
Running jMeter (GUI mode)

\$bin/jmeter.bat



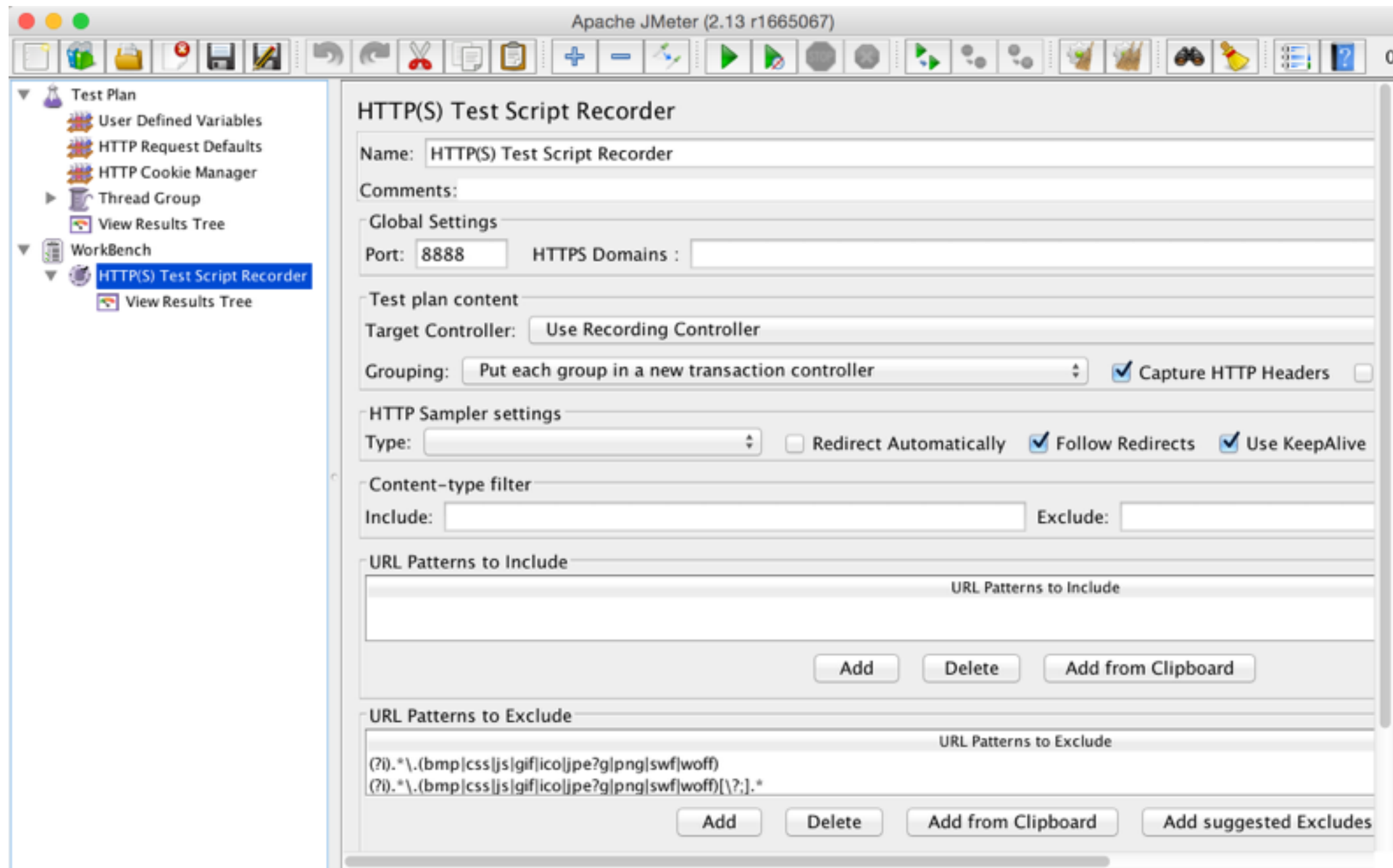
Create first test

1. Choose template with recording



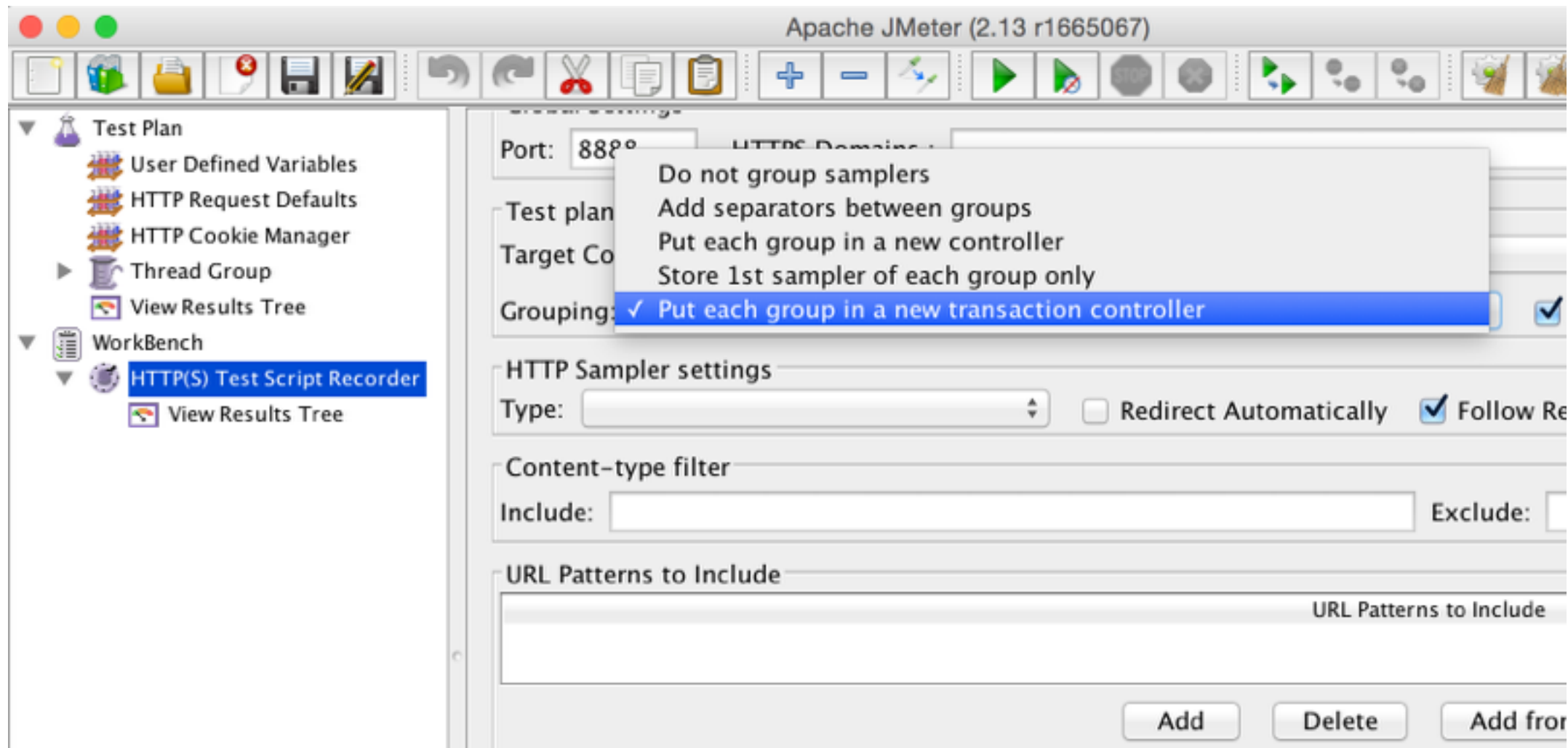
Create first test

2. HTTP test script recorder



Create first test

3. Select grouping



Create first test

4. Let's start recording server

URL Patterns to Exclude

URL Patterns to Exclude

(?i).*\.(bmp|css|js|gif|ico|jpe?g|png|swf|woff)

(?i).*\.(bmp|css|js|gif|ico|jpe?g|png|swf|woff)[\?;].*

Add Delete Add from Clipboard Add suggested Excl

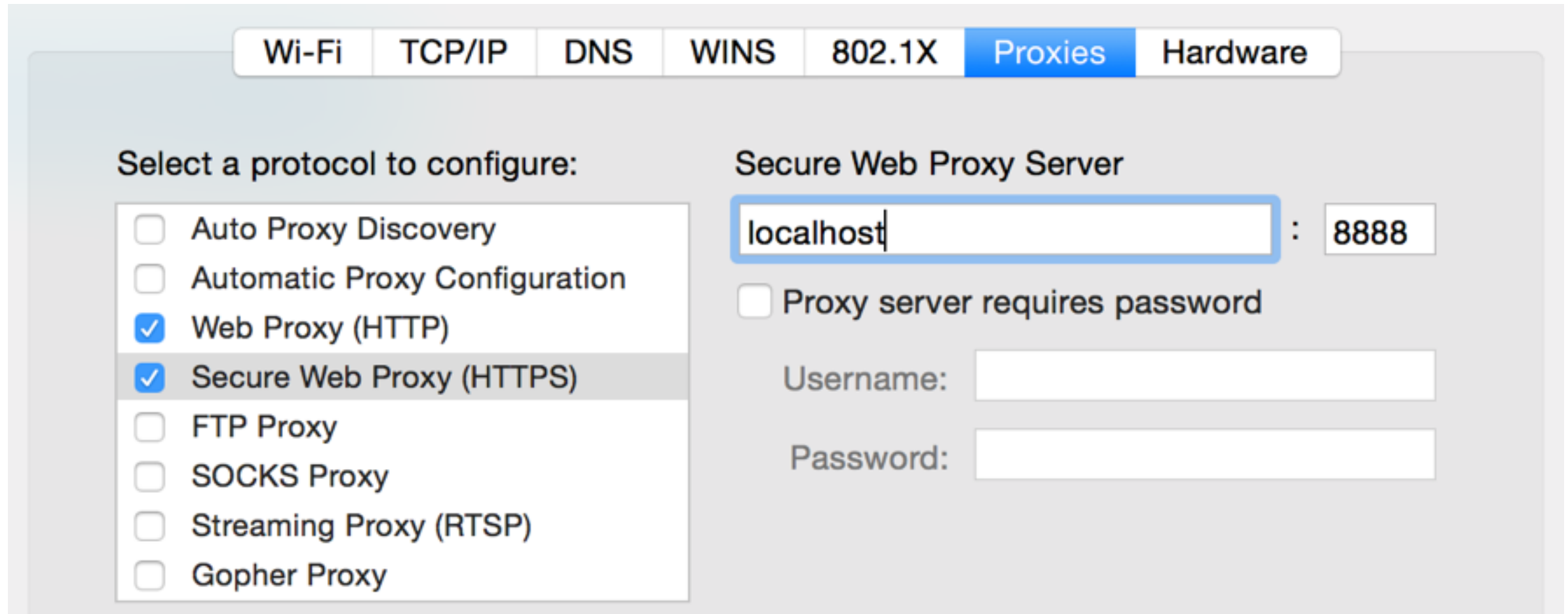
Notify Child Listeners of filtered samplers

☒ Notify Child Listeners of filtered samplers

Start Stop Restart

Create first test

5. Setting proxy in your browser



The screenshot shows a network configuration window with several tabs: Wi-Fi, TCP/IP, DNS, WINS, 802.1X, Proxies, and Hardware. The 'Proxies' tab is selected. On the left, under 'Select a protocol to configure:', there is a list of options with checkboxes. 'Web Proxy (HTTP)' and 'Secure Web Proxy (HTTPS)' are checked. On the right, under 'Secure Web Proxy Server', the address 'localhost' is entered in a text box, followed by a colon and the port '8888' in a separate box. Below this, there is an unchecked checkbox for 'Proxy server requires password', and two empty text boxes for 'Username:' and 'Password:'.

Wi-Fi TCP/IP DNS WINS 802.1X **Proxies** Hardware

Select a protocol to configure:

- ☐ Auto Proxy Discovery
- ☐ Automatic Proxy Configuration
- ☒ Web Proxy (HTTP)
- ☒ Secure Web Proxy (HTTPS)
- ☐ FTP Proxy
- ☐ SOCKS Proxy
- ☐ Streaming Proxy (RTSP)
- ☐ Gopher Proxy

Secure Web Proxy Server

localhost : 8888

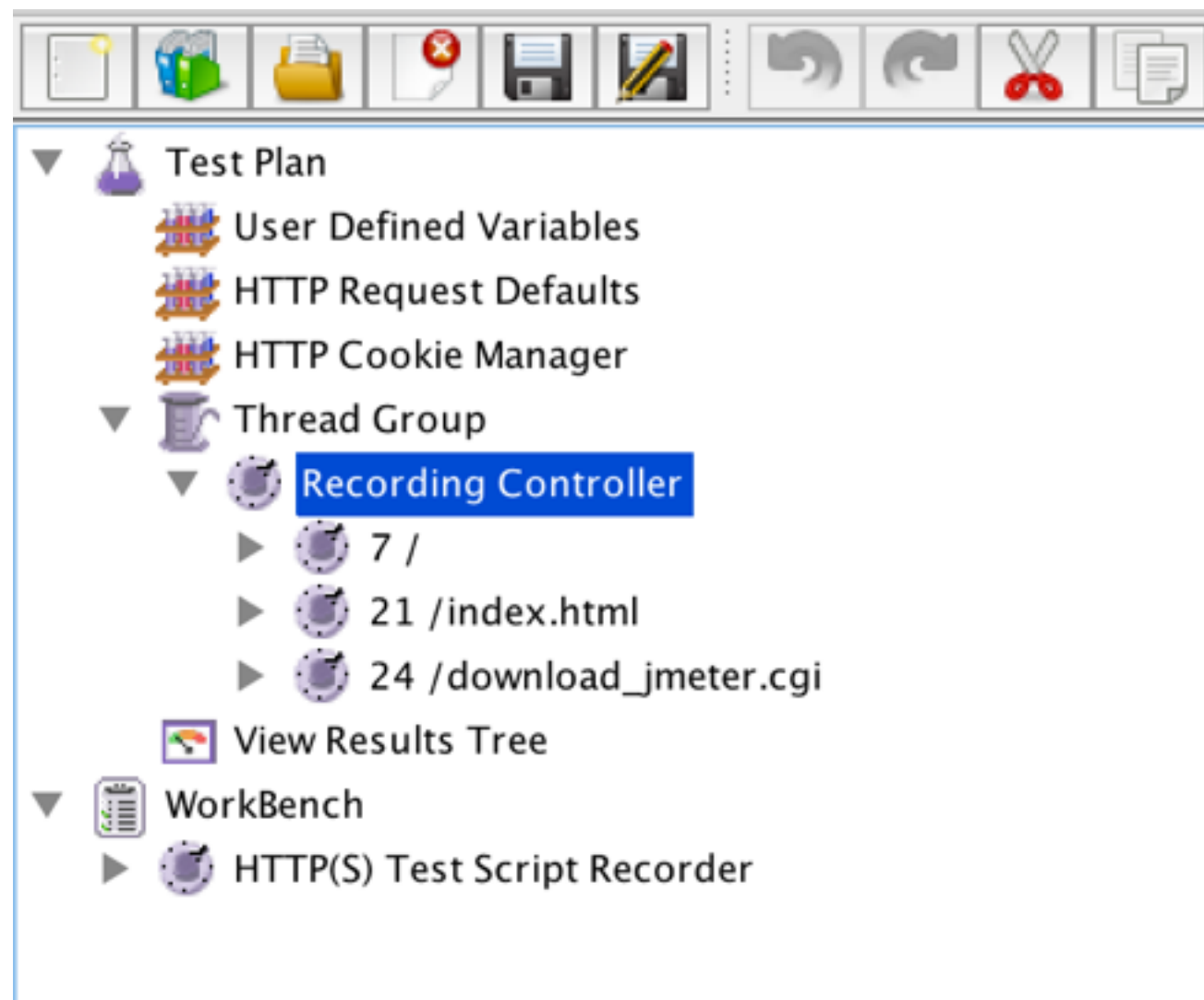
☐ Proxy server requires password

Username:

Password:

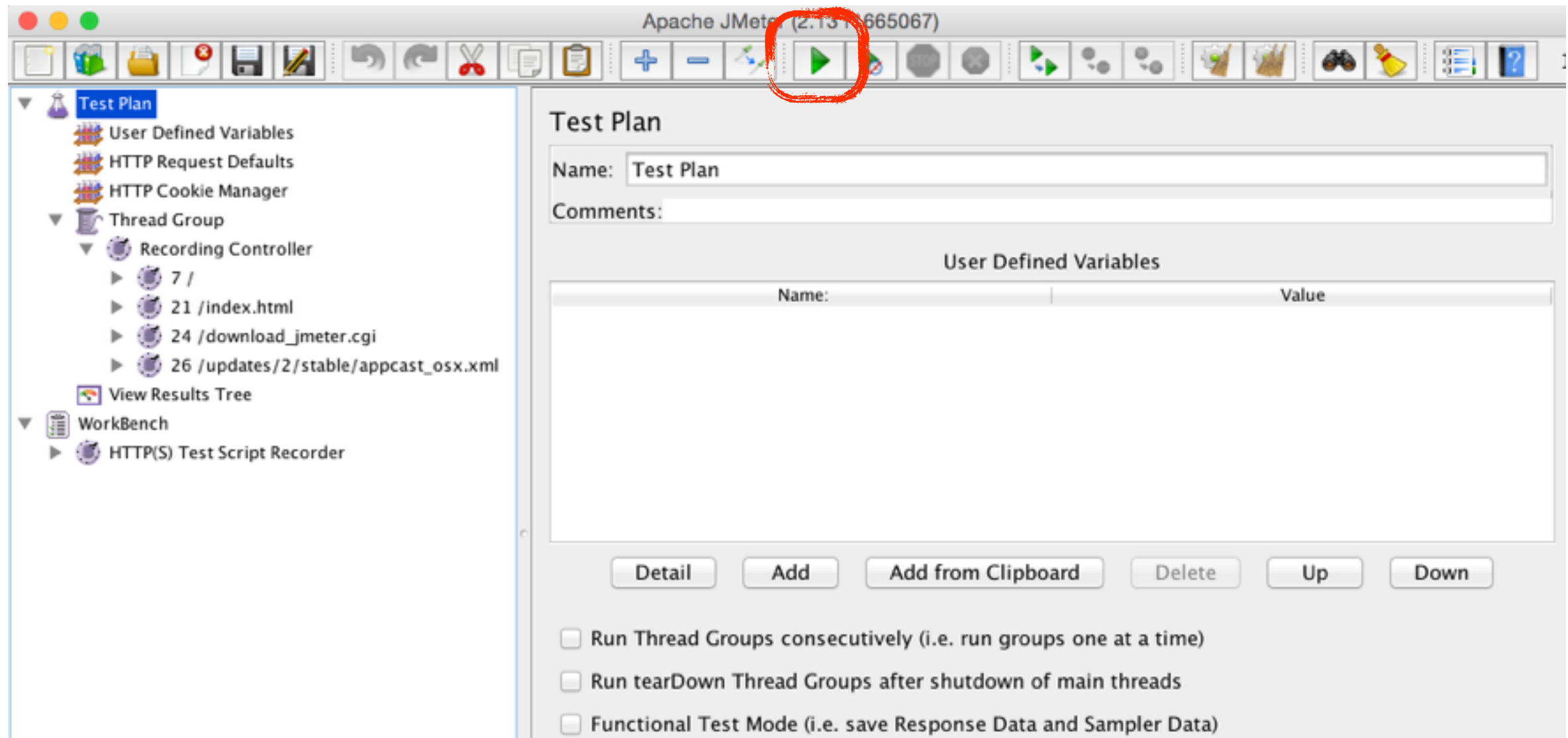
Create first test

6. Try to run :: <http://jmeter.apache.org/>



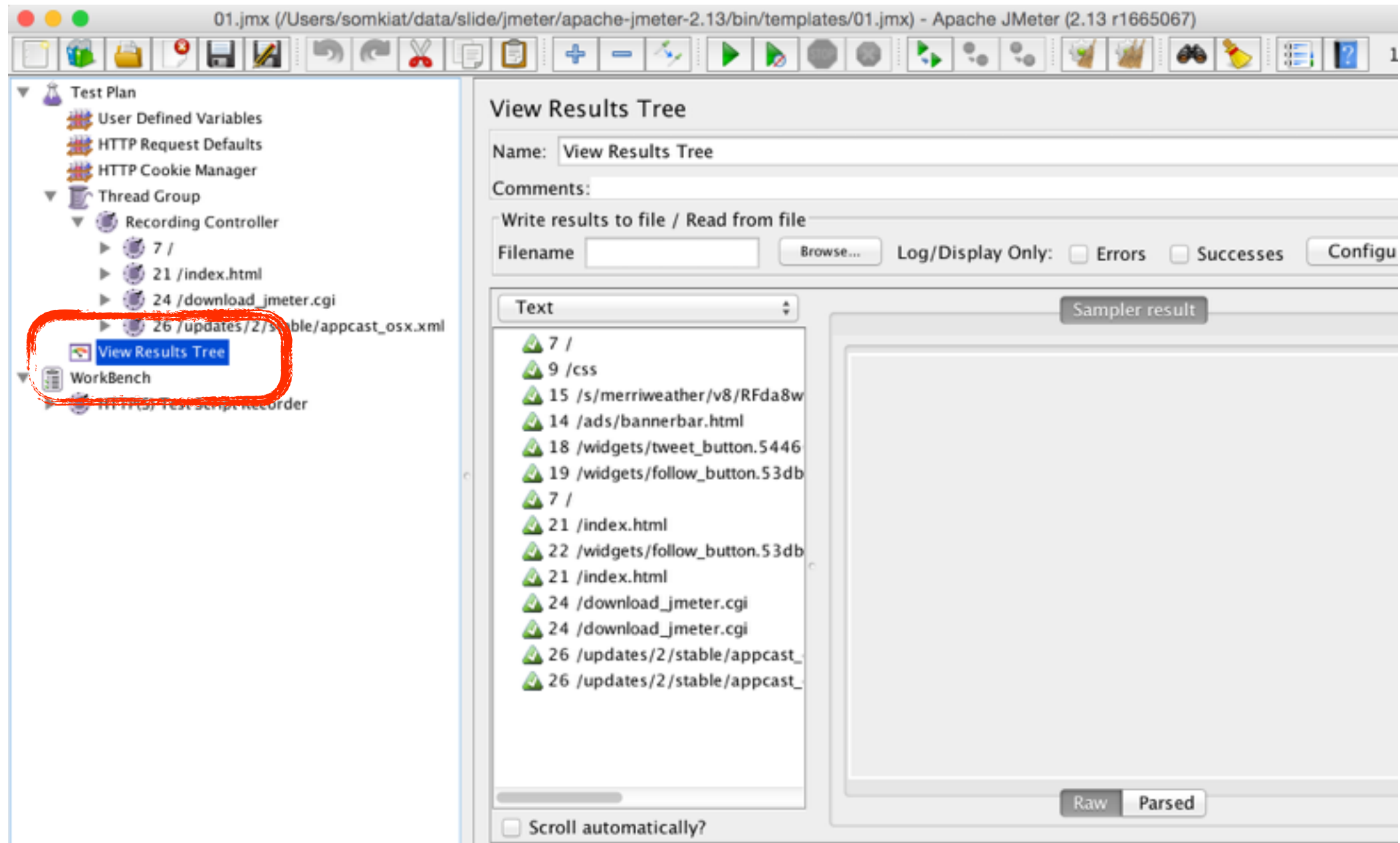
Create first test

7. Run your test ...



Create first test

8. See result



Running jMeter (non-GUI mode)

```
$bin/jmeter.bat -n -t <test plan file> -l <log file>
```

-n, --nongui = Run in non-gui mode

-t, --testfile = *.jmx file to run

-l, --logfile = file to log samples

Running jMeter (non-GUI mode)

```
$bin/jmeter.bat -n -t 01.jmx -l 01.jtl
```

jtl = jMeter test log file

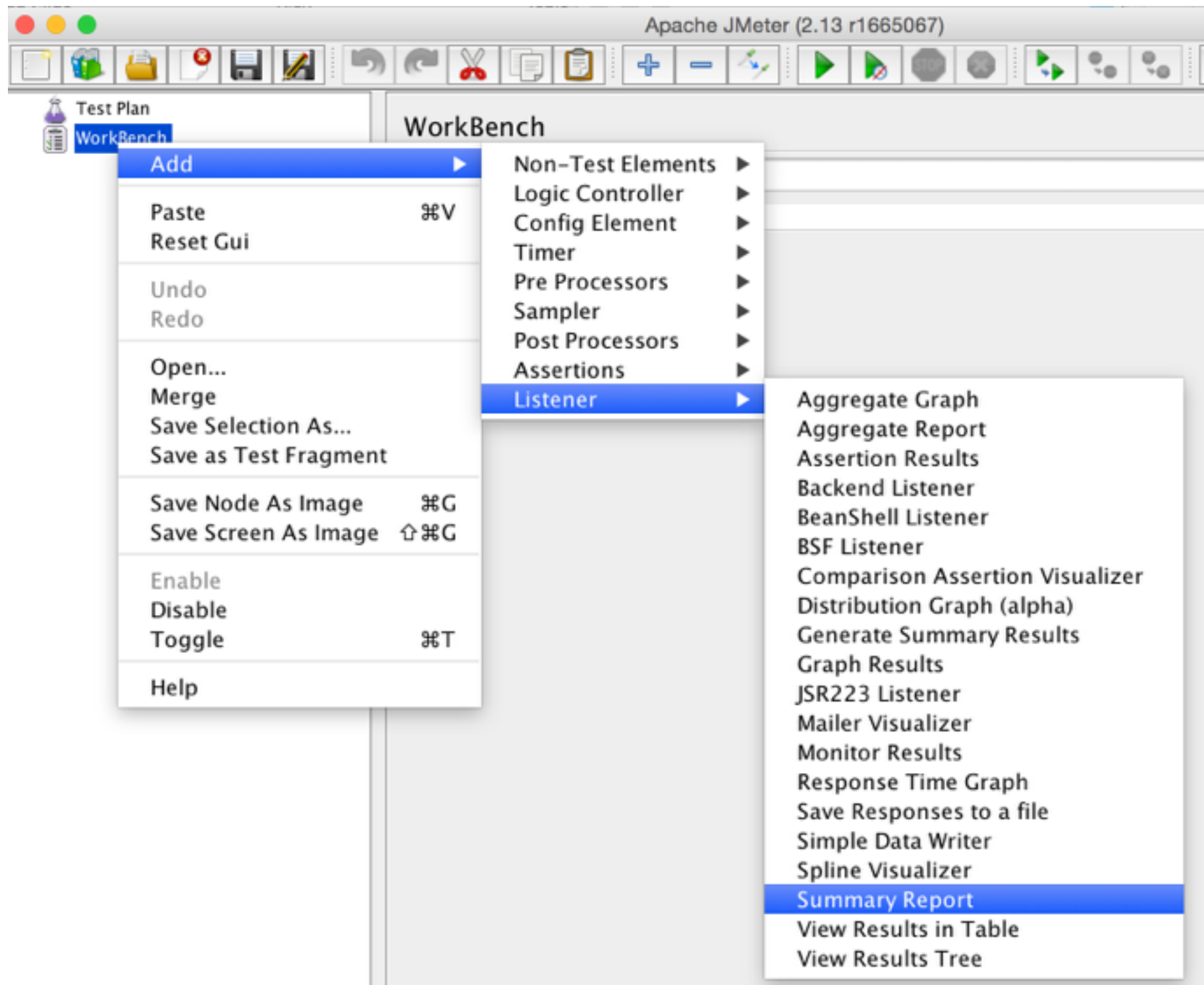
support csv and xml format

Change output format

Open file **bin/jmeter.properties**

```
#-----  
# Results file configuration  
#-----  
  
# This section helps determine how result data will be saved.  
# The commented out values are the defaults.  
  
# legitimate values: xml, csv, db. Only xml and csv are currently supported.  
jmeter.save.saveservice.output_format=csv
```

See result



See result

Apache JMeter (2.13 r1665067)

Test Plan
WorkBench
Summary Report

Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

Filename: he-jmeter-2.13/bin/01.jtl Browse...

Log/Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	KB/sec	Avg. Bytes
7 /	2	3080	591	5570	2489.50	0.00%	21.5/min	11.32	32283.0
9 /css	1	2903	2903	2903	0.00	0.00%	20.7/min	0.28	823.0
15 /s/mer...	1	225	225	225	0.00	0.00%	4.4/sec	58.99	13591.0
14 /ads/b...	1	627	627	627	0.00	0.00%	1.6/sec	1.01	646.0
18 /widge...	1	639	639	639	0.00	0.00%	1.6/sec	30.36	19867.0
19 /widge...	1	585	585	585	0.00	0.00%	1.7/sec	37.57	22503.0
21 /index....	2	6391	6355	6428	36.50	0.00%	18.7/min	4.50	14819.5
22 /widge...	1	73	73	73	0.00	0.00%	13.7/sec	301.04	22503.0
24 /downl...	2	511	511	511	0.00	0.00%	3.9/sec	13.61	3560.0
26 /updat...	2	76058	76058	76058	0.00	100.00%	1.6/min	0.06	2171.0
TOTAL	14	12652	73	76058	25983.09	14.29%	9.5/min	2.04	13257.1

Welcome to jMeter

