

Extras

Test Automation



<http://gettaurus.org/>



<https://www.youtube.com/watch?v=OJwrlCabND0>

Resources utilisation

Measure CPU, RAM, disk usage

CPU and RAM should not exceed 70% during load test

Nice to measure: network activity,
DB calls count, DB connection pool, DB CPU

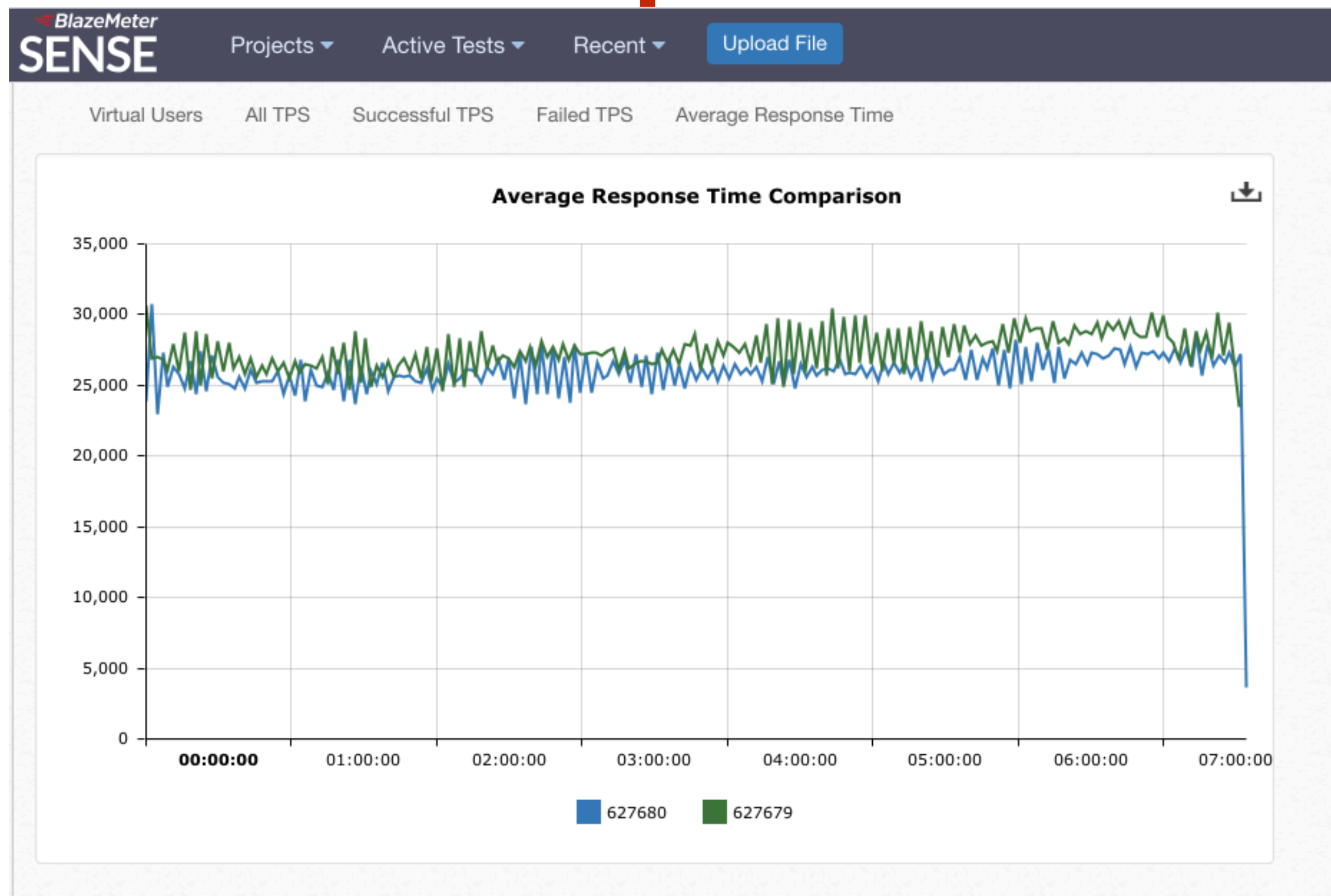
Signal to noise

Repeat your test 3 times. Do you get the same results?

Webdriver + JMeter

It's possible but better to do Taurus + Webdriver

How to compare two JMeter tests



sense.blazemeter.com

20 factors affecting application (here Jira) performance test results

1. Load profile choice (how many concurrent users over time)
2. Key actions choice (what to measure)
3. Data volume
4. Jira hardware
5. Data shape (given there are 1000 users and 1000 groups. Are there 1000 users in 1 group or 1 user in 1000 groups?)
6. DB hardware
7. DB type (Postgress, Oracle, etc)
8. DB configuration (database tuning)
9. Warm/cold caches
10. JVM options
11. Test duration choice (results may vary if load is put over 10 min or 10 hours)
12. Java version
13. Jira settings
14. Installed Plugins choice
15. Integrations with other Atlassian products (Are we testing Jira in isolation or connected with whole Atlassian stack?)
16. LDAP integration
17. Standalone/Data Center (of N nodes)
18. Background tasks/events
19. Test infrastructure architecture (are there 3 reverse proxies before Jira? is the network fast?)
21. Latency (Where are end-users located? Are they in different parts of the globe?)

How to spot frontend performance problems?

- Tools to analyse and optimise web page
 - PageSpeed <https://developers.google.com/speed/?csw=1>
 - The Coach <https://github.com/sitespeedio/coach>

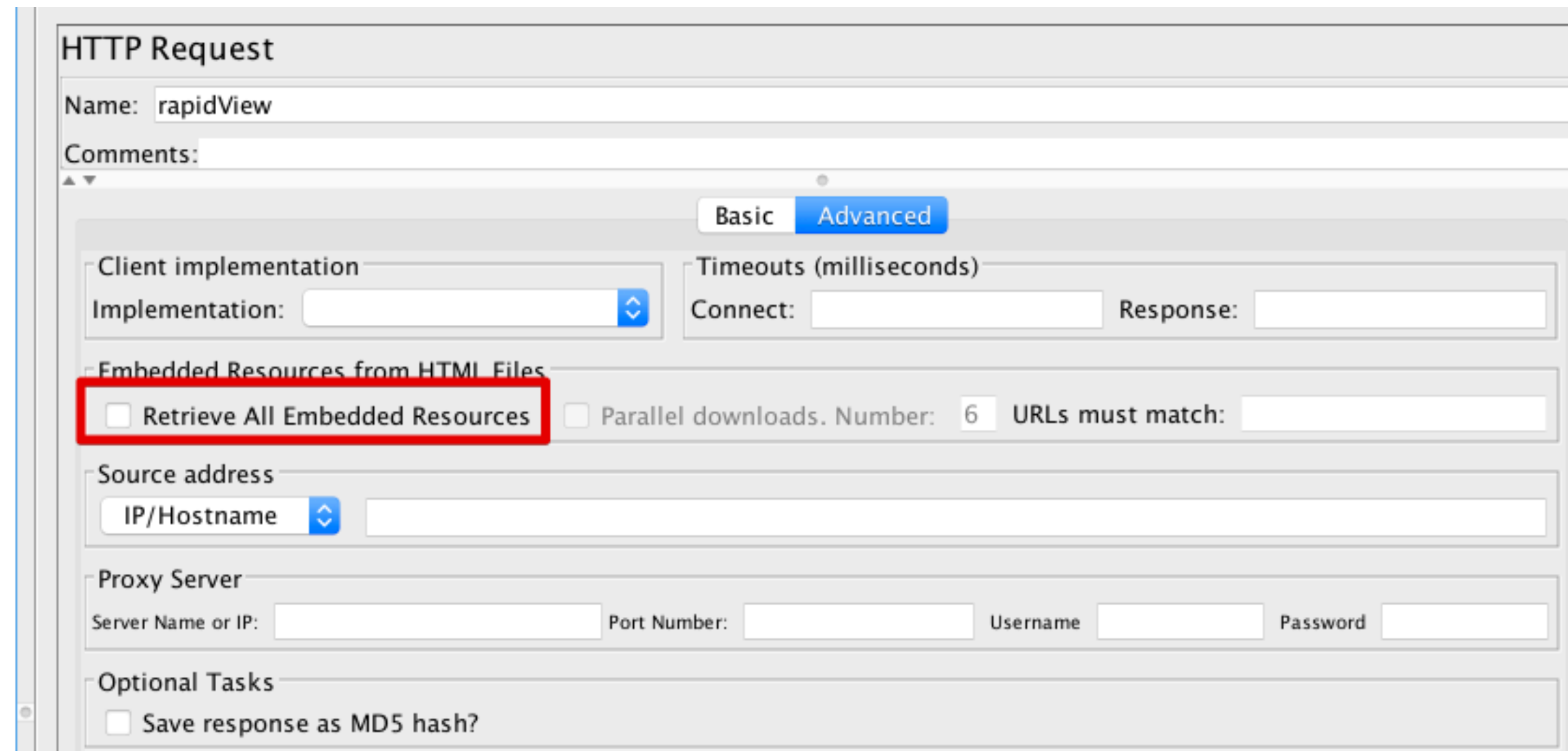
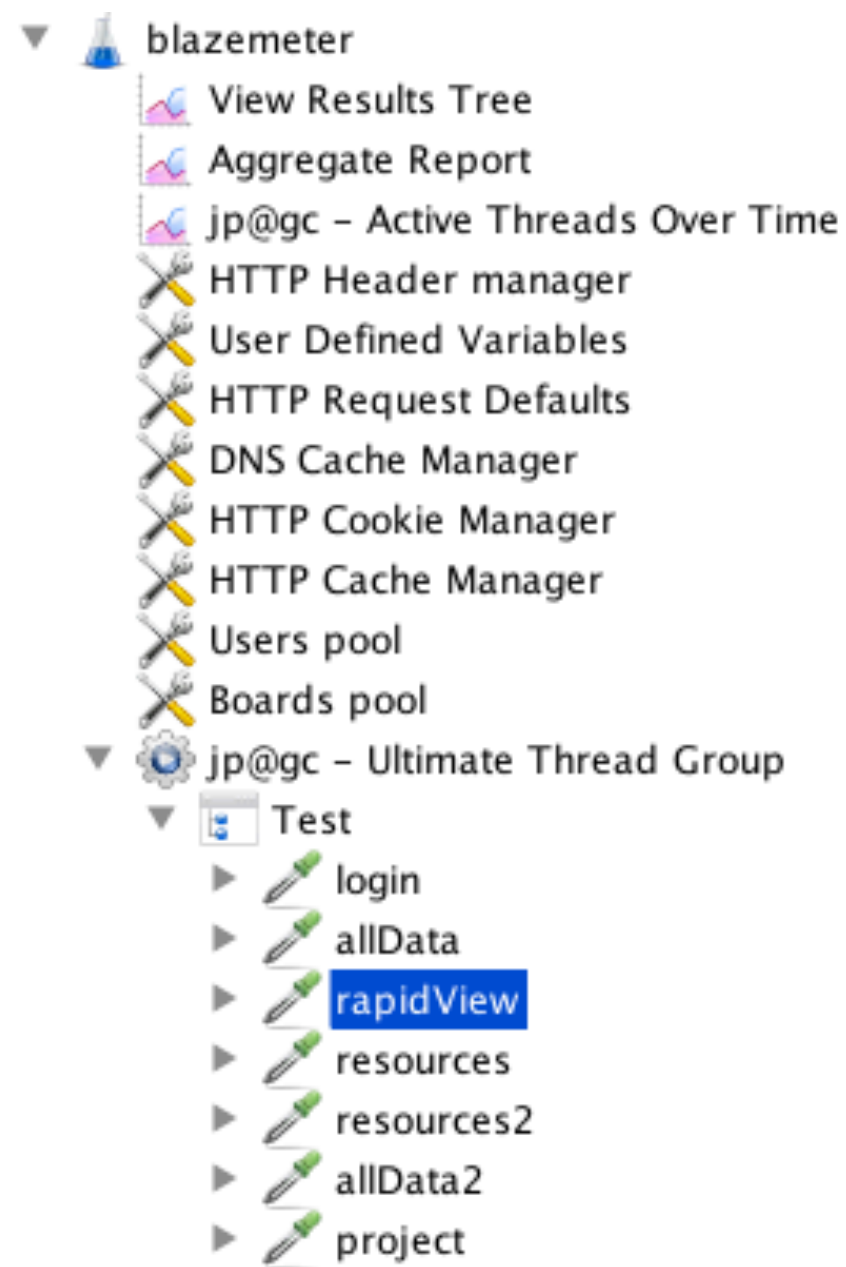
PageSpeed

<https://developers.google.com/speed/pagespeed/insights/>

sitespeed.io

<https://www.sitespeed.io/>

Static resources (images, css)



A screenshot of the 'HTTP Request' configuration window in Blazemeter. The window has a 'Name' field set to 'rapidView' and a 'Comments' field. Below these are tabs for 'Basic' and 'Advanced'. The 'Basic' tab is selected. Under 'Client implementation', there is an 'Implementation' dropdown menu. To the right, under 'Timeouts (milliseconds)', there are 'Connect' and 'Response' input fields. Below this is a section titled 'Embedded Resources from HTML Files' which contains a checkbox labeled 'Retrieve All Embedded Resources' (highlighted with a red rectangle), a 'Parallel downloads. Number' field set to '6', and a 'URLs must match' input field. Below this is a 'Source address' section with an 'IP/Hostname' dropdown and an input field. Further down is a 'Proxy Server' section with fields for 'Server Name or IP', 'Port Number', 'Username', and 'Password'. At the bottom is an 'Optional Tasks' section with a checkbox labeled 'Save response as MD5 hash?'.

Overcoming CSRF protection in JMeter

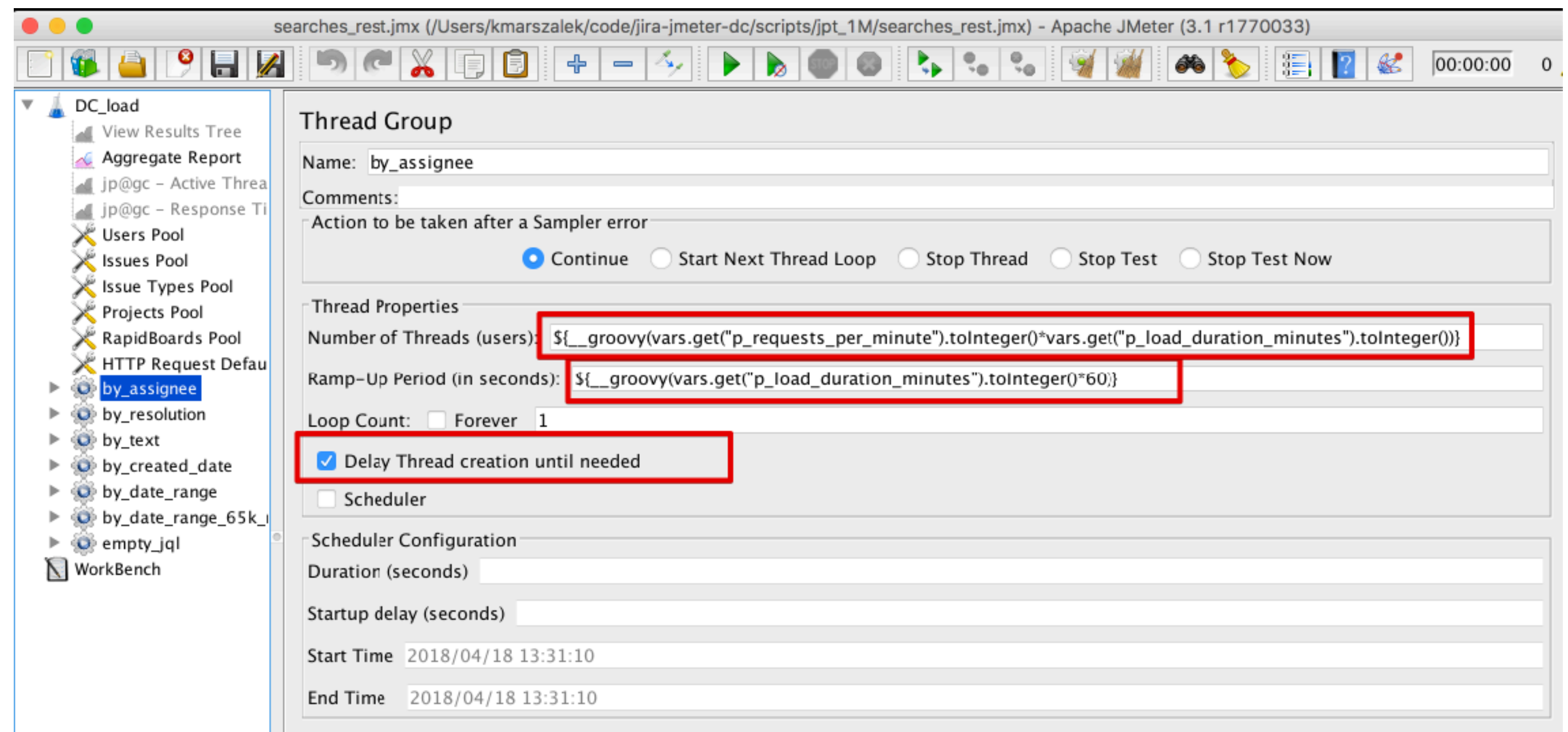
Post processor > Regular Expression Extractor

<https://youtu.be/cv7KqxaLZd8?t=1154>

Cooridnated omission

<http://highscalability.com/blog/2015/10/5/your-load-generator-is-probably-lying-to-you-take-the-red-pi.html>

How to fix it in JMeter?



Thinking time emulation

Better to use Poisson Timer

<https://medium.com/@malith.jayasinghe/performance-testing-with-a-think-time-64b6b737e3f9>



Thank you !