

Packt Mein Shop Das?

Shopware Community Day

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<https://tideways.io>

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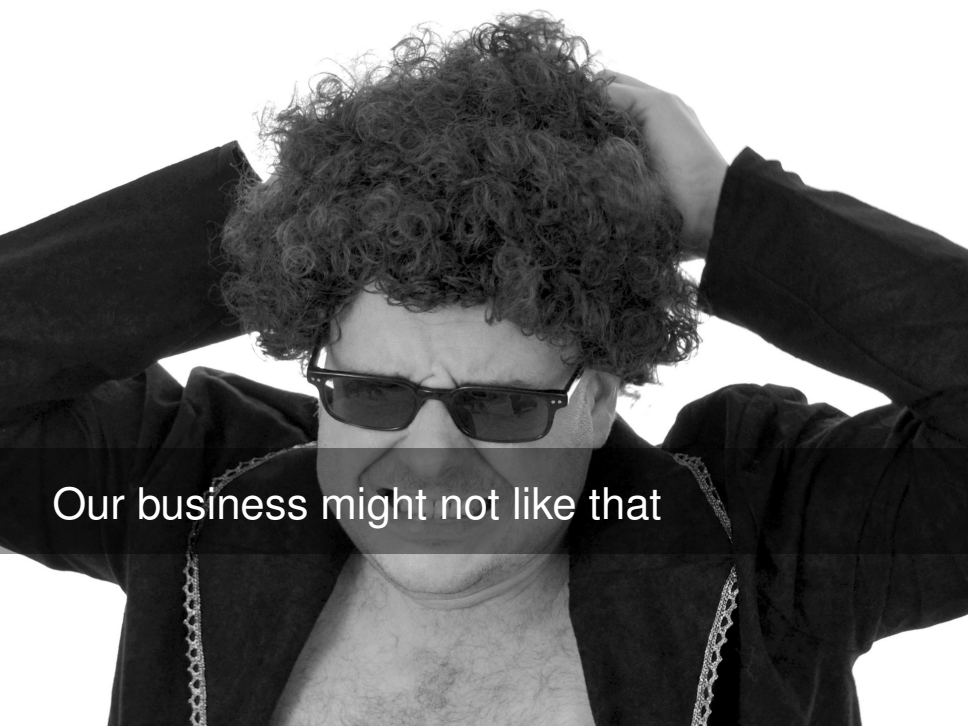
<https://qafoo.com>

Because our blazing fast shop ...





... could turn out to be a snail



Our business might not like that

What Can We Do?

Load / Performance Test

ab / siege

```
% ~ ab -n 10 -c 2 http://qafoo.com/
This is ApacheBench, Version 2.3 <$Revision: 1706008 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking qafoo.com (be patient)....done

Time per request:      113.766 [ms] (mean)
Time per request:      56.883 [ms] (mean, across all concurrent requests)
Transfer rate:          6.68 [Kbytes/sec] received

Connection Times (ms)
      min   mean[+/-sd] median   max
Connect:    32    44  8.4    44    57
Processing:  59    68  8.8    68    83
Waiting:    59    67  8.7    68    83
Total:     102   112  9.0   110   125

Percentage of the requests served within a certain time (ms)
 50%    110
 66%    116
 75%    121
 80%    124
 90%    125
 95%    125
 98%    125
 99%    125
100%    125 (longest request)
```



ab / siege



jMeter



Outline

How To

Common Problems

Why Is It Complex?

Awesome Shop

 2 articles
42.32 €

Smartphone

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.



1337,-- €
5 items in stock

Comments



5

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor.

Analyze Scenarios

- ▶ What happens in your shop?
 - ▶ Random browser
 - ▶ User registration
 - ▶ Logged in browser
 - ▶ Checkout process

Crunch The Numbers

- ▶ How many checkouts per day?
- ▶ How many page impressions per day?
- ▶ How many checkouts / PIs during peak time?
 - ▶ 240.000 page impressions per day → 10.000PI/h?
 - ▶ Are you .de? → 30.000PI/h
 - ▶ Peak business hours? → 60.000PI/h → 20req/s



base-frontend-tests

- HTTP Request Default Einstellungen
- HTTP Header Manager
- Random Traffic (Unknown users)
 - Initial Url Extractor
 - Frontpage
 - Initial Path Extractor
 - Loop Controller
 - Deep Link
 - Path Extractor
 - Gauss'scher Zufalls-Zeitgeber
 - Debug PostProcessor
 - View Results Tree
 - Filter View
 - Frontpage
 - Extract Category Link
 - Category
 - Extract Form Link
 - Find Filter
 - Find Filter Name
 - Find Filter Value
 - Filtered Category
 - Find Article Links
 - ForEach Controller
 - Article
 - Gaussian Random Timer
 - Debug PostProcessor
 - View Results Tree
- WorkBench

Test Plan

Name: base-frontend-tests

Comments:

User Defined Variables

Name:	Value
projectDir	\${_P(projectDir, /)}
projectHost	\${_P(projectHost, [http://www.localhost:8080])}
projectRuntime	\${_P(projectRuntime, 60)}
projectRampUpTime	\${_P(projectRampUpTime, 120)}
randomTrafficUnknownUsers	\${_P(randomTrafficUnknownUsers, 1)}
randomTrafficPathLength	\${_P(randomTrafficPathLength, 5)}
hrefRegexp	\${_P(hrefRegexp, href="http://[a-z0-9]+/[a-z0-9]+")}
filterViewUsers	\${_P(filterViewUsers, 1)}
categoryLinkSelector	\${_P(categoryLinkSelector, a.smtest-category)}
filterFormSelector	\${_P(filterFormSelector, form.smtest-form-filter)}
articleLinkSelector	\${_P(articleLinkSelector, a.smtest-product-link)}

Write jMeter tests

Detail Add Add from Clipboard Delete Up Down

- Run Thread Groups consecutively (i.e. run groups one at a time)
- Run tearDown Thread Groups after shutdown of main threads
- Functional Test Mode (i.e. save Response Data and Sampler Data)

Selecting Functional Test Mode may adversely affect performance.

Add directory or jar to classpath

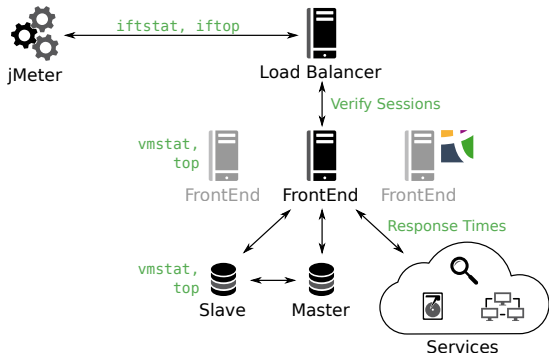
Library

- ▶ User types / execution plans
 - ▶ Thread groups
- ▶ Action timing
 - ▶ Timers
- ▶ Organize and combine logic (loops, etc.)
 - ▶ Controllers
- ▶ Example data, cookie manager, ...
 - ▶ Configuration elements
- ▶ Actual work (HTTP, SOAP, ... requests)
 - ▶ Samplers

How to setup a load-test?

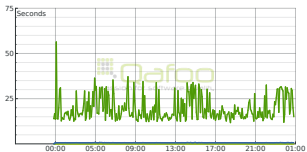
- ▶ real-world servers
- ▶ reproducible
- ▶ automated execution and analysis

Collect Data



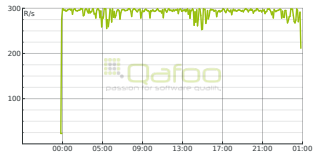
Analyze Data

Response time



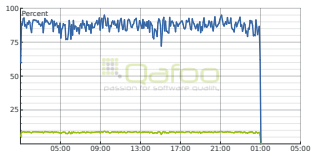
■ Minimum ■ Average ■ Maximum

Requests per second



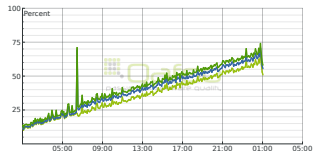
■ Average

CPU usage



■ System ■ User

Memory usage



■ Used Memory ■ Shared ■ Cached

Outline

How To

Common Problems



Caching

Session Storage



Server Configuration

STOP

A person wearing dark pants and brown shoes is walking from right to left across a light blue sidewalk. In the foreground, a large, rectangular, light brown sign with the word "STOP" written in bold, dark blue, sans-serif capital letters is placed on the ground. The sign is oriented vertically, with the text reading "STOP" from top to bottom. The background is a blurred street scene.

Slow PHP



Summary

Test Upfront

- ▶ Investment
- ▶ Sleep well
- ▶ Reproducible

Test Live

- ▶ Pray...



THANK YOU

Rent a quality expert
qafoo.com