PERFORMANCE REPORT

JMeter



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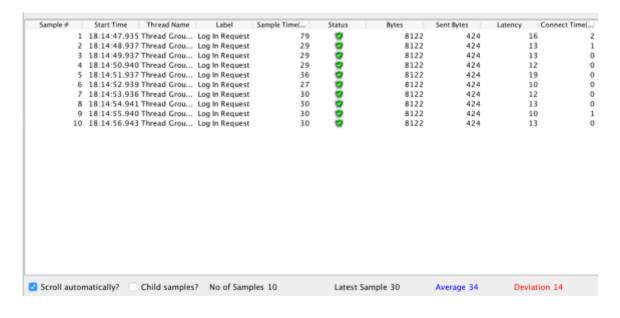
Tests on Development Server

Test Details

The test was fairly simple: JMeter would send, for each thread, a login request to the server. This will be enough to see how many requests the server can handle and also test our database, as each request will also make a database query for fetching the user and authenticate him.

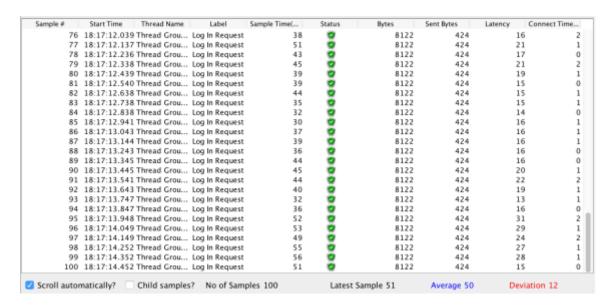
10 Users, 10 Ramp-Up Time

With 10 Threads (Users) and a Ramp-up time of 10 seconds, the server behaved normally. The average request time was 34ms and all requests where successful. This means that the server can handle a request for second, which is expected.



100 users, 10 Ramp-Up Time

With 100 users and 10 Ramp-Up Time, the server also behaved normally. All requests where successful and the average time for each request was 50ms. Even though the average time for the requests was bigger, it was still a decent time. This means that the development server can handle 10 requests per second, for 10 seconds.



1000 users 10 Ramp-up Time

With 1000 users and 10 Ramp-Up time, the server failed to handle many requests. Near ¼ of the requests where denied by the server and the average time for each request was 10737ms, which is more than what would be acceptable. That means that the server can't handle 100 requests per second, over 10 seconds.



500 users 10 Ramp-up Time

With 500 users and 10 Ramp-up time, the server failed to handle approximately 10% of the requests, with an average of 6852ms for each request. That means that the server can't handle 50 requests per second, over 10 seconds.

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/	Sent KB/sec	Avg. Bytes
Log In Requ	500	6825	1	23373	6185.10	12.20%	20.5/sec	149.07	7.72	7459.8
TOTAL	500	6825	1	23373	6185.10	12.20%	20.5/sec	149.07	7.72	7459.8

250 users, 10 Ramp-up Time

With 250 users and 10 Ramp-up time, the server handled every request successfully. That means that the server can handle 25 requests per second, over 10 seconds.

	Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/	Sent KB/sec	Avg. Bytes
L	og In Requ	250	90	30	392	59.46	0.00%	24.8/sec	196.91	10.27	8126.0
- 1	OTAL	250	90	30	392	59.46	0.00%	24.8/sec	196.91	10.27	8126.0

300 users, 10 Ramp-up Time

We can see that the server starts denying some requests after the 30 requests per second threshold. That means that the Django development server shouldn't be used for production, as 30 requests per second are not much for a website.

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/	Sent KB/sec	Avg. Bytes
Log In Requ	300	619	1	1145	168.22	1.00%	29.0/sec	228.54	11.91	8072.3
TOTAL	300	619	1	1145	168.22	1.00%	29.0/sec	228.54	11.91	8072.3