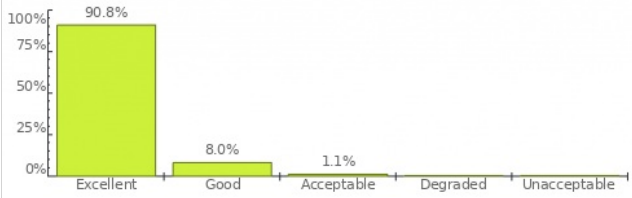
Shopware 6 Benchmark

Scenario: 95% Guests, 5% Conversion Rate

Hardware: DigitalOcean, App Server, 4 Cores, 8 GB RAM, SSD, MySQL 2 Cores, 4 GB RAM

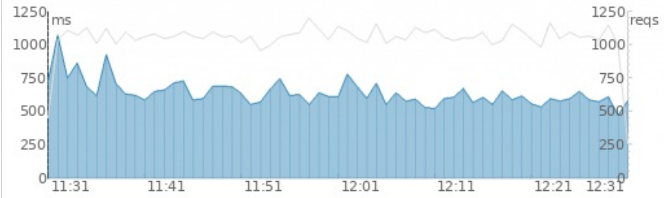
Overall



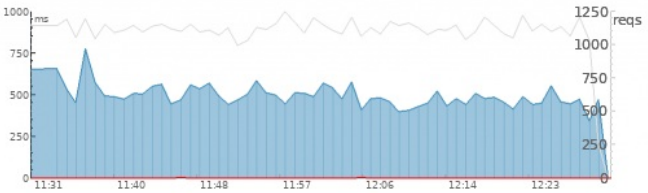
The Overall performance for score is:

Good (B)

User Performance — 95% Percentile: 643ms, Median: 156ms, 63546 requests



PHP Performance — 95% Percentile: 495ms, 65159 requests



Key Results

With 40 concurrent threads

195	1025	643ms	14,278	840
Orders/Hour	**Requests/Minute**	**95% Response Times**	**Products**	**Categories**

Page Performance Summary

Page	Score	User Performance			PHP Performance	
		Median	95% Perc.	Requests	95% Perc.	Requests
Overall	Good (B)	156ms	643ms	63546	495ms	65159
Browsing						
Homepage	Good (B)	401ms	719ms	392	867ms	394
Product Details Page	Good (B)	315ms	583ms	10099	547ms	6607
Category Page	Good (B)	106ms	663ms	5354	867ms	1214
Category Page Filter	Good (B)	263ms	567ms	4952	417ms	3314
Search	Good (B)	363ms	803ms	3442	803ms	2027
Search Suggestions	Excellent (A)	236ms	479ms	9864	547ms	1486
Cart						
Cart Info Widget	Excellent (A)	133ms	315ms	22666	257ms	22337
Add Item To Cart	Acceptable (C)	655ms	1079ms	846	353ms	832
Cart Page	Good (B)	423ms	703ms	206	611ms	201
Checkout						
Checkout Register Page	Excellent (A)	271ms	481ms	164	417ms	160
Confirm Order Page	Excellent (A)	361ms	497ms	206	449ms	361
Order	Acceptable (C)	1039ms	1503ms	206	931ms	202
Account Management						
Register Page		ms	ms		0ms	0
Register	Acceptable (C)	767ms	1343ms	164	643ms	160
Login	Acceptable (C)	983ms	1575ms	906	771ms	882

Scenario Configuration

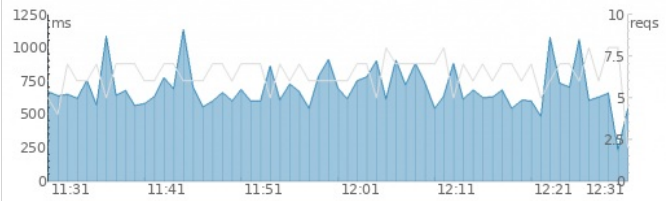
The following options were configured for the benchmarking scenario:

Duration	60m	How long was this scenario run.
Concurrent Threads	40	How many concurrent users are simulated in this benchmark. Each concurrent user is performing a break of 1 second between each click/action and waits for a few seconds before starting again.
Share of Browsing Users	90%	Percentage of users that are browsing categories, products, searching.
Guests	95%	
Users with existing accounts	5%	
Users with new accounts	0%	
Share of Converting Users	5%	Percentage of users that are buying products.
Guest Checkout Ratio	75%	
Purchasers with existing accounts	12.5%	
Purchasers creating new accounts	12.5%	
Share of Abandoning Cart Users	5%	Percentage of users that are abandoning their cart with products in them.
Shopware Version	6.4.7.0	
PHP Version	8.0	

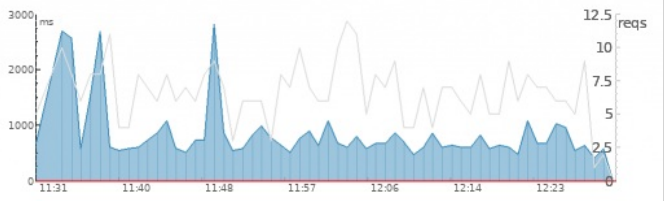
Performance of Browsing

Homepage

User Performance — 95% Percentile: 719ms, Median: 401ms, 392 requests

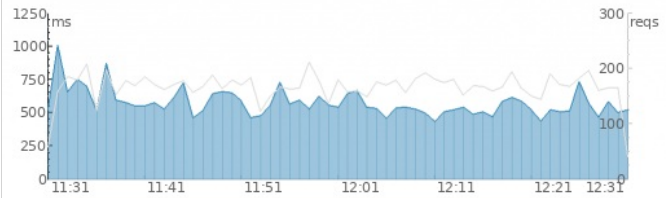


PHP Performance — 95% Percentile: 867ms, 394 requests

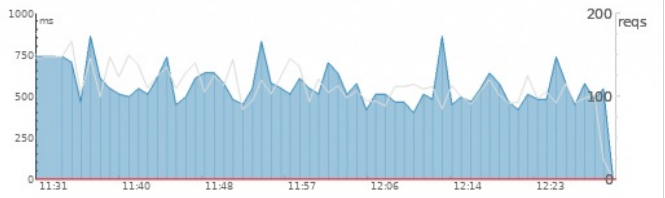


Product Details Page

User Performance — 95% Percentile: 583ms, Median: 315ms, 10099 requests

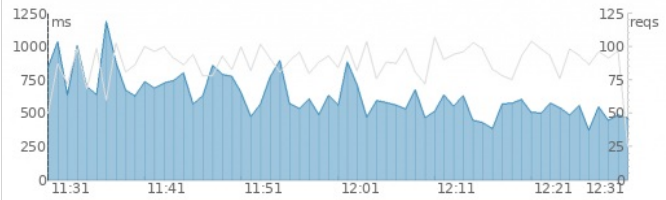


PHP Performance — 95% Percentile: 547ms, 6607 requests

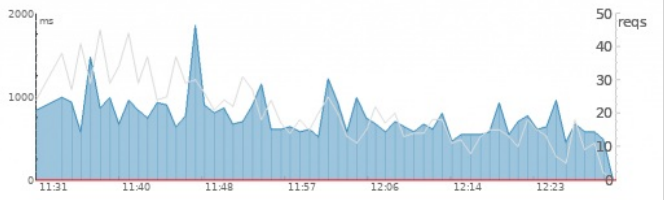


Category Page

User Performance — 95% Percentile: 663ms, Median: 106ms, 5354 requests

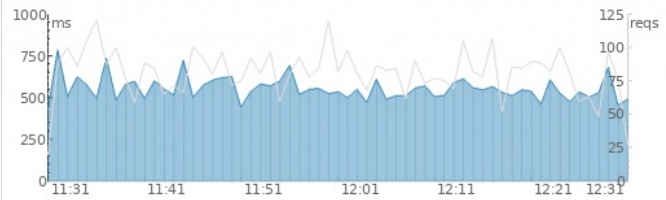


PHP Performance — 95% Percentile: 867ms, 1214 requests

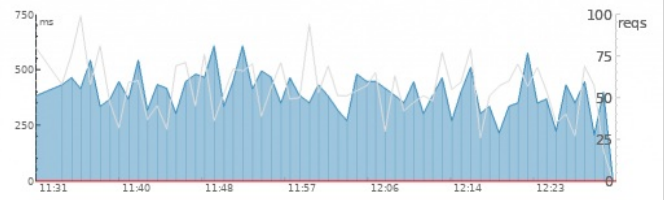


Category Page Filter

User Performance — 95% Percentile: 567ms, Median: 263ms, 4952 requests

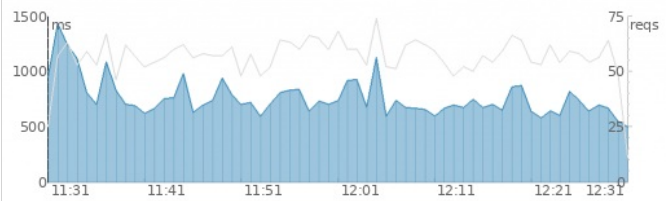


PHP Performance — 95% Percentile: 417ms, 3314 requests

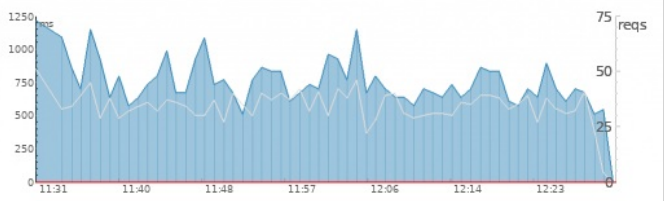


Search

User Performance — 95% Percentile: 803ms, Median: 363ms, 3442 requests



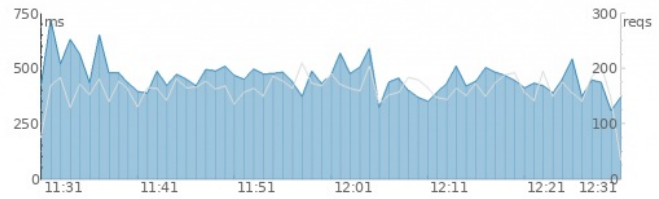
PHP Performance — 95% Percentile: 803ms, 2027 requests



Search Suggestions

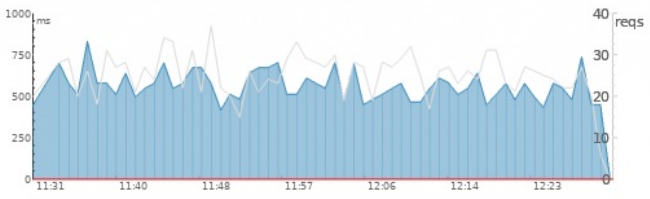
User Performance

95% Percentile: 479ms, Median: 236ms, 9864 requests



PHP Performance

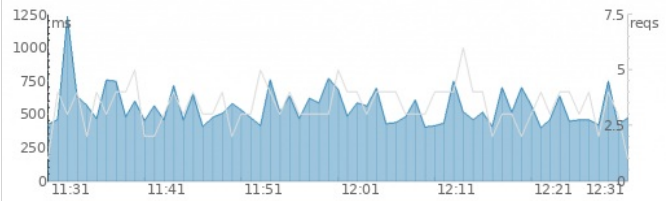
95% Percentile: 547ms, 1486 requests



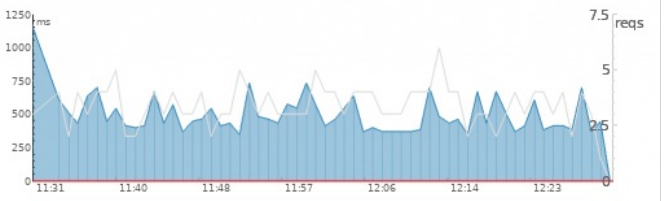
Performance of Cart

Cart Page

User Performance — 95% Percentile: 703ms, Median: 423ms, 206 requests

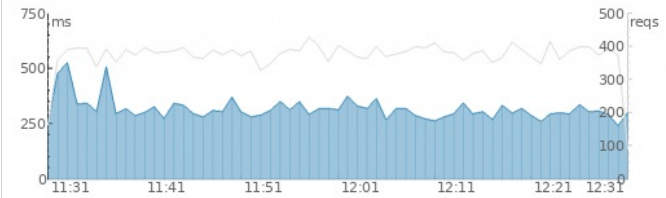


PHP Performance — 95% Percentile: 611ms, 201 requests

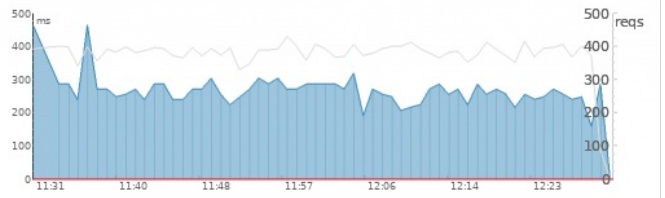


Cart Info Widget

User Performance — 95% Percentile: 315ms, Median: 133ms, 22666 requests

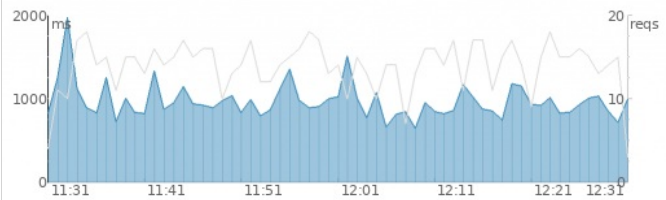


PHP Performance — 95% Percentile: 257ms, 22337 requests

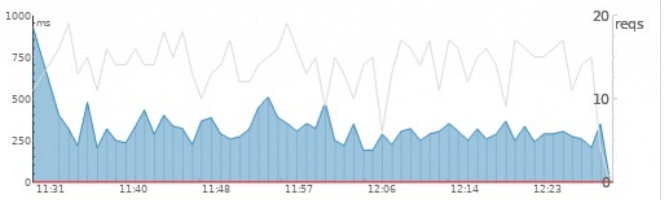


Add Item To Cart

User Performance — 95% Percentile: 1079ms, Median: 655ms, 846 requests



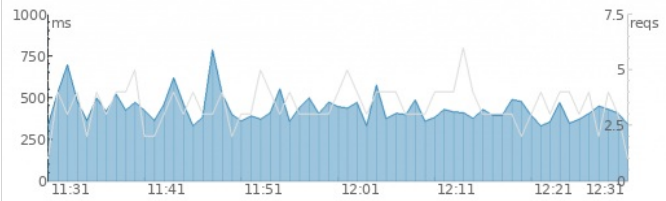
PHP Performance — 95% Percentile: 353ms, 832 requests



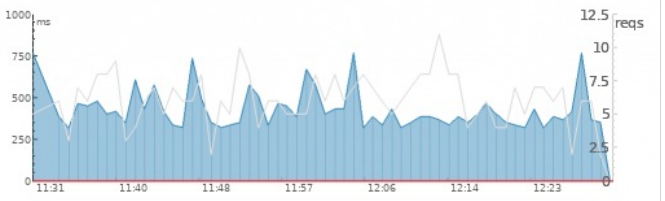
Performance of Checkout

Confirm Order Page

User Performance — 95% Percentile: 497ms, Median: 361ms, 206 requests

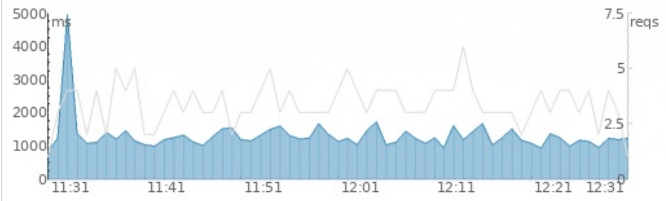


PHP Performance — 95% Percentile: 449ms, 361 requests

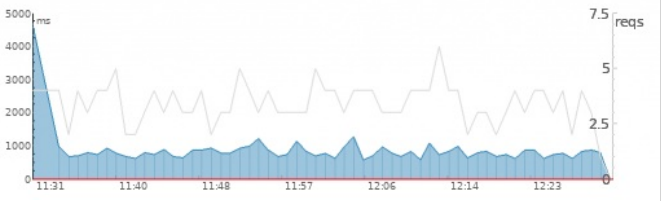


Order

User Performance — 95% Percentile: 1503ms, Median: 1039ms, 206 requests

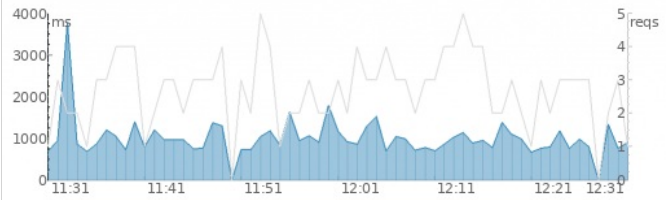


PHP Performance — 95% Percentile: 931ms, 202 requests

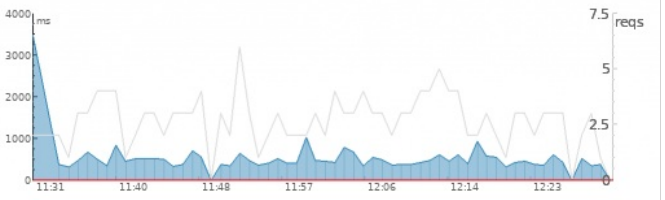


Register

User Performance — 95% Percentile: 1343ms, Median: 767ms, 164 requests

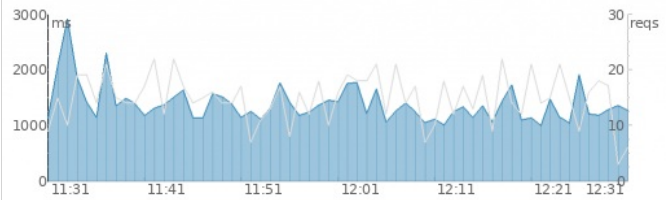


PHP Performance — 95% Percentile: 643ms, 160 requests

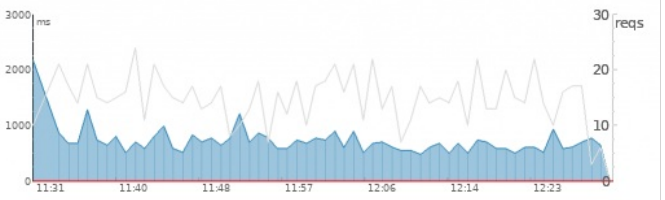


Login

User Performance — 95% Percentile: 1575ms, Median: 983ms, 906 requests



PHP Performance — 95% Percentile: 771ms, 882 requests



Slowest Traces

This list contains the slowest trace for each page/operation that was collected by Tideways during the benchmark.

1352 ms	**Shopware\Storefront\Controller\ProductController::index**	10.02, 12:15
19.7 MB	200 GET shopware-demo.tideways.io/Practical-Iron-Spam-and-Deliver/346d79446d0c4fcf8cceb057ddf7bd39/	
2658 ms	**Shopware\Storefront\Controller\NavigationController::index**	10.02, 11:32
20.2 MB	200 GET shopware-demo.tideways.io/Tools-Automotive/Games//	
764 ms	**Shopware\Storefront\Controller\CmsController::category**	10.02, 12:15
13.8 MB	200 GET shopware-demo.tideways.io/widgets/cms/navigation/bfe3d5a1c0454cbc8a97d809633c2f03/	
351 ms	**Shopware\Storefront\Controller\CartLineItemController::addLineItems**	10.02, 11:35
9.7 MB	302 POST shopware-demo.tideways.io/checkout/line-item/add/	
566 ms	**Shopware\Storefront\Controller\CheckoutController::cartPage**	10.02, 11:47
19.7 MB	200 GET shopware-demo.tideways.io/checkout/cart/	
652 ms	**Shopware\Storefront\Controller\CheckoutController::info**	10.02, 11:38
16.4 MB	200 GET shopware-demo.tideways.io/widgets/checkout/info/	
1477 ms	**Shopware\Storefront\Controller\NavigationController::home**	10.02, 11:38
26.7 MB	200 GET shopware-demo.tideways.io//	
1323 ms	**Shopware\Storefront\Controller\SearchController::search**	10.02, 11:33
22.7 MB	200 GET shopware-demo.tideways.io/search/	
726 ms	**Shopware\Storefront\Controller\SearchController::ajax**	10.02, 11:46
17.2 MB	200 GET shopware-demo.tideways.io/widgets/search/	
3416 ms	**Shopware\Storefront\Controller\RegisterController::register**	10.02, 11:34
12.2 MB	302 POST shopware-demo.tideways.io/account/register/	
298 ms	**Shopware\Storefront\Controller\RegisterController::checkoutRegisterPage**	10.02, 11:54
17.8 MB	200 GET shopware-demo.tideways.io/checkout/register/	
1231 ms	**Shopware\Storefront\Controller\AuthController::login**	10.02, 11:35
13.1 MB	302 POST shopware-demo.tideways.io/account/login/	
984 ms	**Shopware\Storefront\Controller\CheckoutController::order**	10.02, 12:17
17.7 MB	302 POST shopware-demo.tideways.io/checkout/order/	
492 ms	**Shopware\Storefront\Controller\CheckoutController::confirmPage**	10.02, 11:50
17.9 MB	200 GET shopware-demo.tideways.io/checkout/confirm/	

Score / Legend

The score is calculated using the 95% percentile of the page or overall performance and comparing it against these thresholds:

- Excellent (A): 95% of requests have performance below 512ms
- Good (B): 95% of requests have performance below 1024ms
- Acceptable (C): 95% of requests have performance below 2048ms
- Degraded (D): 95% of requests have performance below 4096ms
- Unacceptable (F): More than 5% of requests are slower than 4096ms

Disclaimer

Only benchmarks performed against real production environment hardware, software and data will provide realistic and reliable results of future production behavior. This benchmark focuses of server-side performance from the browser and PHP point of view. The results only partially explain real user performance in the browser.

The code for this benchmark is open-source and available at https://github.com/tideways/shopware6-benchmarking under AGPL v3 license.