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Magento

What does it mean to me?

- Solution Architect, Network Architect
- Hosting Provider
- Database Admin, System Admin, Magento Admin
- Developer
- Front-end developer

Performance Toolkit Objectives

- To enable merchants to test the performance of their Magento installations
- To enable developers to test the performance impact of their Magento customizations
- To enable performance testing across the Magento ecosystem

More Objectives

- To enable the comparison of these performance tests (Benchmarking)
- To provide commonly used methods, scenarios, and terminology to describe testing activities
- “Performance Test Guidelines” whitepaper coming soon...

What tools do you use today?

- Siege
- Neoload
- Gatling
- Apache jMeter

Front-end testing

- Selenium
- SaaS APM tool (New Relic Real User Monitoring)
- WebPageTest.org

Magento Performance Toolkit, How To

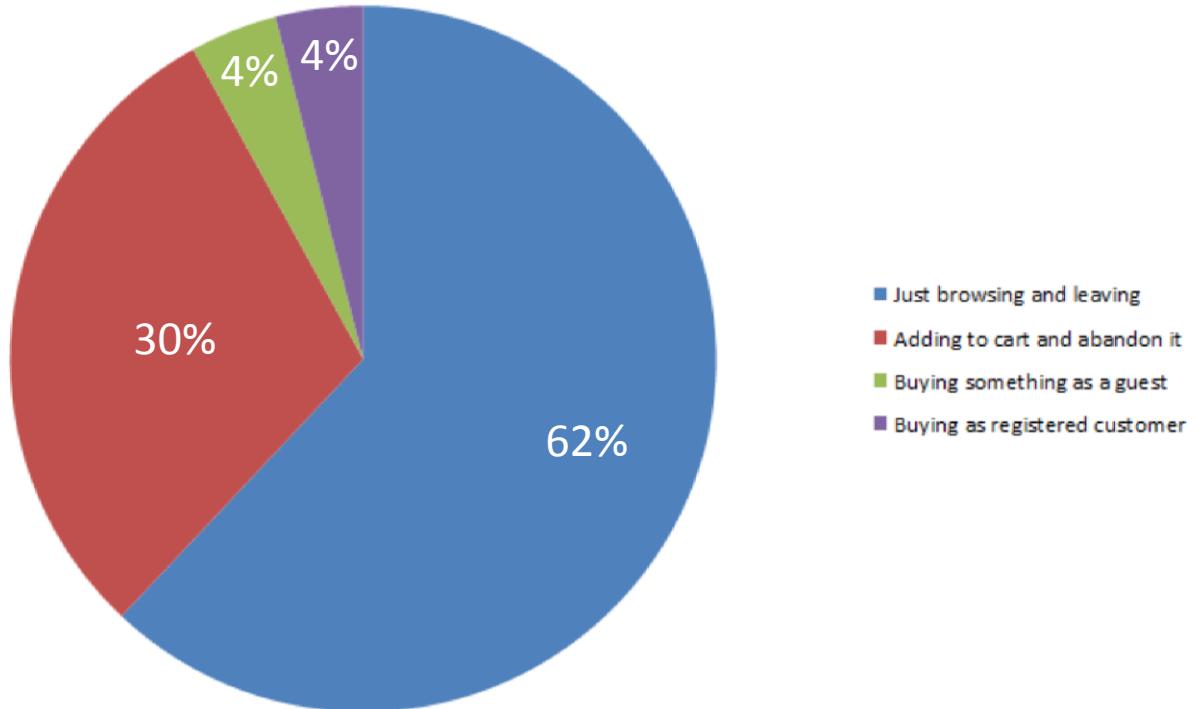
1. Install a fresh Magento instance on your test server
2. Install jMeter on your load generator
3. Install jMeter plugins on your load generator
4. Copy performance toolkit files
5. ***Generate.php***
6. ***Benchmark.jmx***

Magento Performance Toolkit

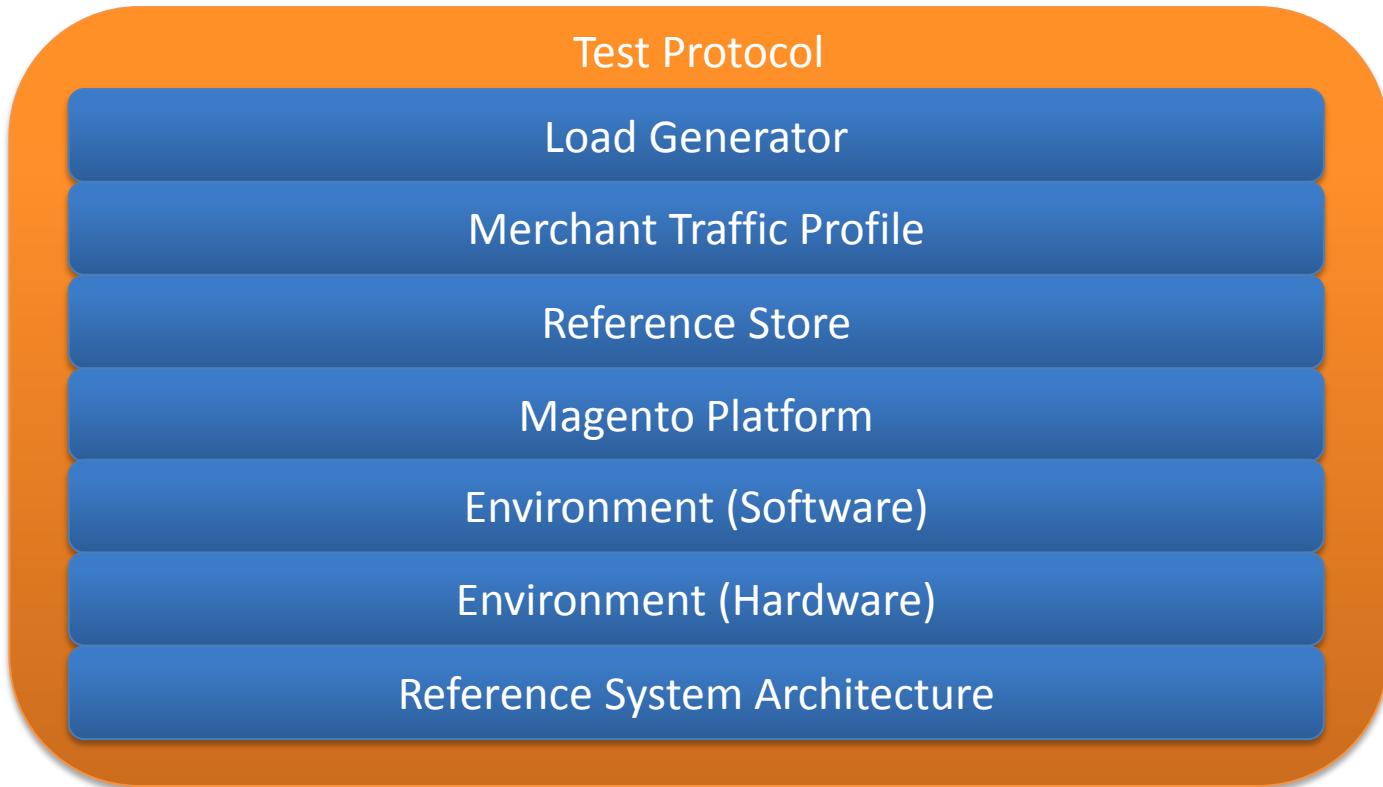
- Magento test instance
- Database profile
- Traffic profile
- Reproducible test

Magento Shopper Scenarios

Typical Magento store visitors behavior



Magento Performance Toolkit Variables



Benchmark.jmx

benchmark.jmx (C:\www\in2dev\tools\performance_toolkit\benchmark.jmx) - Apache JMeter (2.10 r1533061)

File Edit Search Run Option Help

Test Toolkit
 HTTP Request Defaults
 HTTP Header Manager
 HTTP Cookie Manager
 setup Thread Group
 Category Product browsing
 Product browsing and add
 Guest Checkout
 Customer Checkout
 TearDown Thread Group
 Summary Report
 Detailed URLs report
 View Results Tree
 Aggregate Graph
 Aggregate Report
 Graph Results
 Distribution Graph (alpha)
 Spline Visualizer
 p@gc - Active Threads Over Time
 p@gc - Bytes Throughput
 p@gc - Composite Graph
 p@gc - Hits per Second
 p@gc - Response Codes
 p@gc - Response Latency
 p@gc - Response Times D
 p@gc - Response Times Q
 p@gc - Response Times P
 p@gc - Response Times v
 p@gc - Transaction Throughput
 p@gc - Transactions per Second
 WorkBench

Aggregate Graph
 Name: Aggregate Graph
 Comments:
 Write results to file / Read from file
 Filename: C:\Users\rganin\Downloads\xxxim2_750users_600rampup_100ksku_3loops_medium.jtl

Label	# Samples	Average	Median
Home Page	2222	421	
Category 3 View	2222	301	
Category 3 View Page 2	2222	290	
Product View	2222	246	
Product Add To Cart	1571	2478	
Checkout start	110	1591	
Checkout guest	66	738	
Checkout billing addresses	88	1113	
Checkout "progress"	264	902	
Checkout shipping method	88	1080	
Checkout payment method	88	1070	
Checkout place order	88	2003	
Checkout success	88	908	

Settings Graph

Magento 2 with 100k products and 100 users per minute

Action	Average (ms)	Min (ms)
Home Page	421	201
Category 3 View	301	220
Category 3 View Page 2	290	209
Product View	246	191
Product Add To Cart	2478	2167
Checkout start	1591	1391
Checkout guest	738	651
Checkout billing addresses	1113	960
Checkout "progress"	902	753
Login	2493	1902
Checkout shipping method	1080	1068
Checkout payment method	1070	1051
Checkout place order	2003	1974
Checkout success	908	851

■ Average ■ Min

Where do I get it?

- Magento 1.x Beta
 - <http://github.com/magento/magento-performance-toolkit>
- Magento 2.x Beta
 - <http://github.com/magento/magento2/>
 - /dev/tools/performance_toolkit