

JMeter & Selenium

Group 1

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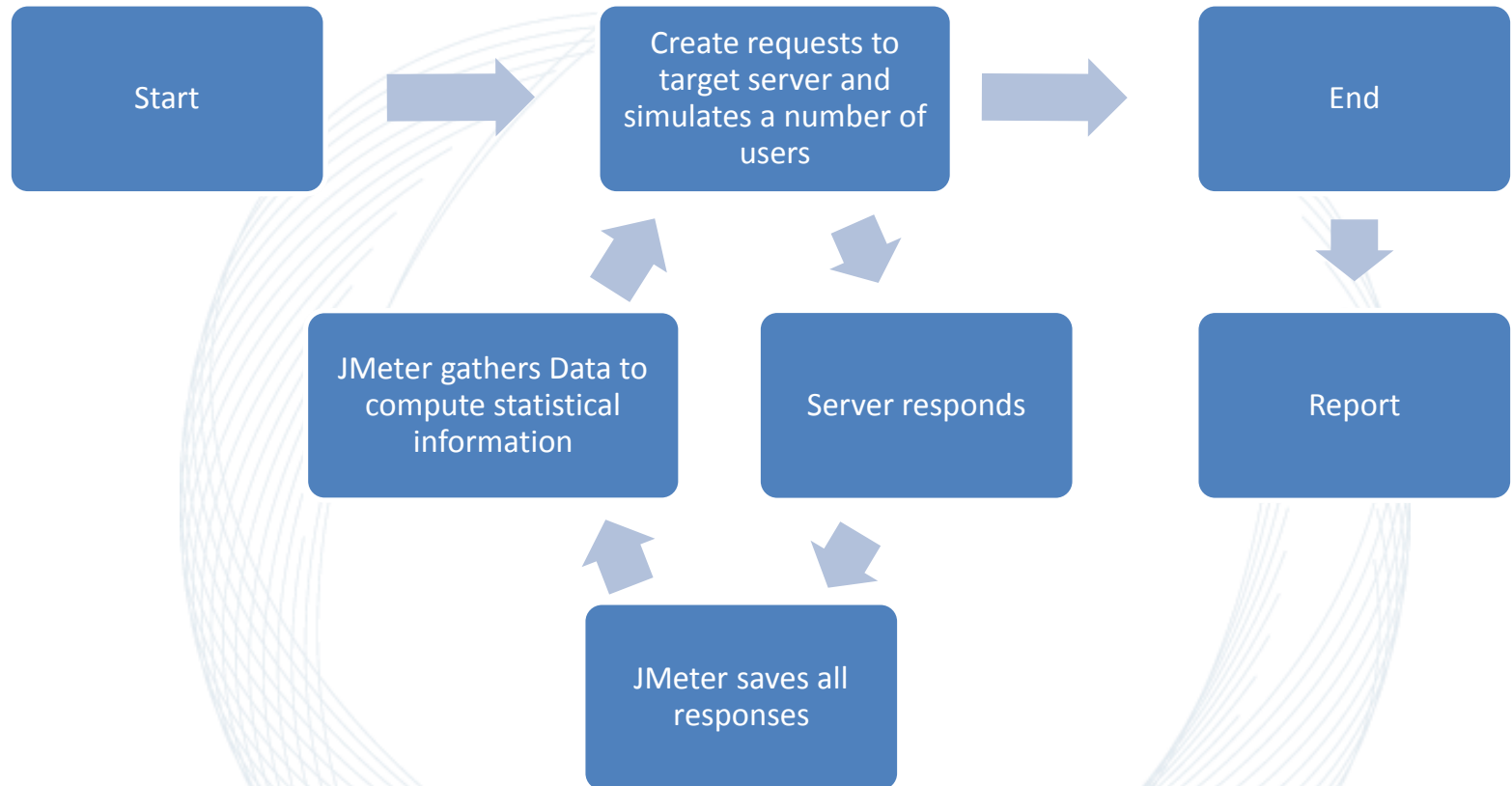
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JMeter

- Free open source software
- Apache foundation
- Java => Platform independent
- Many server types (HTTP(S), SOAP, Database, LDAP, POP3)
- Used for Automated and functional testing
 - Performance and availability testing
 - Functionality testing to make sure the application meet expectations

How JMeter works



Features

- Test plan
- Unity group
- Controllers (random, unicity)
- Monitor servers (Database, Web Server)
- Timer (fixed, Gaussian random, synchronized)
- Assertion modes (time, size, MD5)
- Different display modes for results (graph, array, tree)
- Distributed tests on several servers

Ecosystem

- A wide JMeter community
- Trusted by the industry
- Lots of plug-ins available (utils, samplers, graphs)
- Webdrive Sampler plug-in for Selenium

Our resources

- <http://jmeter.apache.org>
- <http://jmeter-plugins.org>
- <http://fr.wikipedia.org/wiki/JMeter>

Demonstration

1. Test a Java application using JUnit through JMeter
2. Test a website using JUnit with Selenium through JMeter
3. Test a website using JMeter Web Driver Sampler

Feedbacks

- No driver for some browsers (Safari, IE) (-)
- Currently the best free tool for load and performance testing (+)
- Easy to add plug-ins (+)
- Some alternatives : Apache Benchmark, Grinder, Gatling, Funkload