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Getting More from JMeter: Updates & Use Cases

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Agenda

1. News & Updates around JMeter
2. Automatic Concurrency Use Case
3. Automated Scripting / SmartJMX
4. Running JMeter inside Jenkins
5. Q&A
News & Updates around JMeter
Sneak Peek into JMeter 3.3

- Cookie Manager has no implementation combo box
- Function Helper Dialog shows result preview
- HTTP supports Brotli compression (Google’s algo)
- “Vary” header responses are cached properly
- Transaction Samples not dropped (BlazeMeter’s cntrb)
- “Thundering herd” bug fixed
Infrastructure for JMeter Plugins

JMeter Plugins Manager 0.15 has been released:

- Added button on toolbar (changed logo on the way)
- Suggests to install missing plugins
- Fixed several bugs
- "install-all-except" command for automated envs
Various Contributors

- One more WebSockets Plugin, by Peter Doornbosch
- ElasticSearch Backend Listener
- SSH Monitoring Listener
- WS Security for SOAP
BlazeMeter’s Plugins

- JMeter Debugger with fixed bugs
- Weighted Switch Controller with fixed bugs
- Sense Uploader and BlazeMeter uploader
- Parallel Controller & Parallel Get Sampler
- HLS & HTTP/2 Samplers
Automatic Concurrency Use Case
Open and Closed Workloads

- Difference is seen when response times go high
- Difference is what is your driving KPI (VU vs RPS)
- Real world systems have mix with more open workload
- Most people simulate closed workloads for simplicity
- “Coordinated omission” problem with closed model
Open Workload in JMeter

- "Thread Group / 1 iteration" or Arrivals Thread Group
- Constant Throughput Timer – not reliable nor flexible
- Throughput Shaping Timer – flexible and more reliable
- Problem of too much or not enough threads
Automatic Concurrency in JMeter

- CTG creates/stops threads on the fly
- TST 2.1 has function "__tstFeedback()"
- Together they give you automatic concurrency
- Mind the cap!
Automated Scripting with SmartJMX
What is SmartJMX?

- Lives inside BlazeMeter Proxy Recorder
- Free but requires BlazeMeter account
- Groups requests
- Finds extractors automatically
Running JMeter inside Jenkins
Taurus Automation Framework

- http://gettaurus.org
- GUI-less scripting for JMeter
- Version control friendly file format
- Multi-tool capabilities (JMeter, Gatling, Selenium etc)
- Reporting and scaling – easy
Q&A Time
Useful Links

- create a free BlazeMeter account - [www.blazemeter.com](http://www.blazemeter.com)
- JMeter Plugins - [https://jmeter-plugins.org/](https://jmeter-plugins.org/)
- BlazeMeter blog on 100s of JMeter topics - [https://www.blazemeter.com/blog](https://www.blazemeter.com/blog)