KEEP APPLICATIONS ONLINE
AND DETECT & ISOLATE
APPLICATION ISSUES & PERFORMANCE BOTTLENECKS IN NO TIME
WITH FUSIONREACTOR 6

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WHAT WE’LL COVER

- Key new features in FusionReactor 6
  - Low overhead Profiler
  - Production Debugger
- Some additional FR 6 improvements
- Some FR 6 hidden gems
- Quick overview of FR’s long-standing benefits
- Sneak peek at FusionCLOUD (coming soon)
WHO DOES THIS TALK APPLY TO?

- Anyone interested in troubleshooting/tuning servers
  - Admins, managers, developers, devops
- Whether using any CFML engine
  - ColdFusion, Lucee, Railo, BlueDragon
- Or any Java application or server
  - Tomcat, JBoss, Wildfly, Jetty, WebSphere etc.
- FusionReactor is implemented simply as a javaagent
- And is a low-cost, low-impact, reliable tool
  - Trusted for 10 years by thousands of shops worldwide (25,000th license recently sold)
Low overhead Profiler (in Ultimate edition)
  • Lets you see where the most time is spent within a request
  • Tracked automatically for requests slower than 200 ms (by default)
  • More:
    ▶ http://www.fusion-reactor.com/production-java-profiler/
    ▶ http://www.fusion-reactor.com/evangelism/introducing-fusionreactors-production-java-profiler/

…

KEY NEW FEATURES IN FR 6
Production Debugger (Ultimate)
- Lets you interactively step through code, view and change variables
- All without bother of setting up an IDE
  - And yet totally safe for even PRODUCTION use! (Patented)
- Includes options to trigger emails (with details), break on exceptions, and more
- More:
  - http://www.fusion-reactor.com/production-debugger
  - http://www.fusion-reactor.com/videotuts/?filter=prodDebug
- New tracking of information “by application” (or “transaction”)
  - Helps better isolate issues if unique “per application” or trx
  - Shown on most pages, tabs at top of some, reports, etc.
  - App determined automatically
    - or either app or trx can be set programmatically
- Improved Relations tab (on request details)
  - Breaks down kinds of operations within a request (that FR monitors queries, httpClient, etc.)
  - And new Aggregates tab, to more simply aggregate that info
- ...

SOME ADDITIONAL FR 6 IMPROVEMENTS
Memory use now tracked PER request, and PER query
  ▶ Viewable in request/query details, and new report of largest
  ▶ More: http://www.fusion-reactor.com/evangelism/Transaction-Memory-Values-Explained

System Resources (in Enterprise, Ultimate editions)
  ▶ Track system CPU, memory usage, Network Traffic and Disk I/O
  ▶ Track all running processes
  ▶ Via System Resources option on left

SOME ADDITIONAL FR 6 IMPROVEMENTS (CONT.)
- CF Metrics and CF System Metrics
  - Track CF metrics like db pool stats, template cache size, query cache size, more
  - Some values shown only if CF Enterprise Svr Mon features enabled
  - Via Metrics option on left

- Changes to style of FR CP email alerts
  - Html formatted, tabular layout
  - Thread id now offered with list of request details at top
- ...
New weekly, monthly reports (in Enterprise, Ultimate editions)

- Tracking counts of requests, queries, their durations, 404s, sessions, etc
- Daily report available in FR Standard, since FR 5
  - FR6 offers extended daily report in Enterprise/Ultimate

More:
- Sessions now tracked in User>Sessions
  - Was previously hidden in Metrics>Custom Series
  - Now includes tracking of session creation, removal, option to view per application
- Option to obfuscate SQL in UI (hides customer data w/in the sql)
  - JDBC>settings>transaction settings>obfuscate sql data
- Option to generate JDBC SQL Explain Information on very slow queries
  - JDBC>settings>query plan settings
- ...

SOME FR 6 HIDDEN GEMS
New tail feature in FR UI log viewer (for current hour logs)
  See FusionReactor>Logs, then “Tail” button in top right of UI
Can customize the daily/weekly/monthly reports
  Can control many aspects of reports
  Can set different emails for reports (as opposed to CP Alerts)
    FusionReactor>plugins>active plugins>FusionReactor Reports Config
...
- New default to not count “untracked requests” against CP threshold
  - Protection>settings>web request quantity settings>untracked requests
- To change profiler default triggering at > 200 ms, see:
  - FusionReactor>plugins>active plugins>FusionReactor Low Cost Profiler
- New option to Track CFML Line Execution Times (disabled by default)
  - FusionReactor>plugins>active plugins>FusionReactor ColdFusion Plugin
- To name just several

SOME FR 6 HIDDEN GEMS (CONT.)
Quick Overview of FusionReactor’s Long-Standing Benefits

- FR lets you do so much more as well
- Primary task: monitoring your CFML or Java app server
  - Tracking every request, and details about each
  - And every query, and details about each
  - And more
- End user performance monitoring (time spent getting to/from client)
- Logs (that let you track all this data and more, over time)
  - Self-managed to not take up space, and high-speed, so little impact
- ...and
Optional alerts about problematic situations
  ▶ with emails showing tremendously useful status info
  ▶ and the possibility of protecting against some crashes
▶ Stack tracing to identify line of code, while currently running
▶ and still much more!

▶ All with very little overhead
▶ and including optional monitoring from mobile devices

QUICK OVERVIEW OF FUSIONREACTOR’S LONG-STANDING BENEFITS (CONT.)
NEXT STEPS

- Check out free 14-day trial (latest version is 6.1.3)
- Inexpensive licensing, by monthly subscription or perpetual purchase
  - 3 editions: Standard starts at $39/month, Enterprise 59/mo, Ultimate 79/mo
  - Newly available Developer edition: $100, plus $99 annual maintenance
- More at http://www.fusion-reactor.com
  - Docs, videos, technotes, blog, google group, and more
- Or come by the booth here to meet the FR folks
  - Including David Tattersall, Managing Director
  - Who I would like to introduce now to discuss another upcoming tool
SNEAK PEEK AT FUSION CLOUD
(COMING SOON)