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 of FusionReactor 6
  - Low overhead Profiler
  - Production Debugger
  - Applications view
- Additional FR 6 improvements
- Quick overview of FR’s long-standing benefits
- New FusionCLOUD offering
WHO DOES THIS TALK APPLY TO?

- Anyone interested in troubleshooting/tuning servers; solving coding issues
  - 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.
  - Or java applications: Solr, Confluence, etc.
- FusionReactor is implemented simply as a javaagent
- And is a low-cost, low-impact, reliable tool
  - Trusted for over 10 years by thousands of companies (over 30K servers world-wide)
Low overhead Profiler
  - Lets you see where the most time is spent within a request
  - Tracked automatically for requests slower than 3 second (by default)
    - Samples at 200ms intervals (by default). Both values can be changed
  - More:
    - fusion-reactor.com/production-java-profiler/
    - fusion-reactor.com/evangelism/introducing-fusionreactors-production-java-profiler/
    - docs.intergral.com/display/FR62/Profiler

...
- Production Debugger
  - 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, conditions, and more
  - More:
    - fusion-reactor.com/production-debugger
    - Videos: fusion-reactor.com/videotuts/?filter=prodDebug
    - docs.intergral.com/display/FR62/Debug+Examples
- Applications view (Requests>Applications)
  - View breakdown of requests, within a selected application
  - Tracking count, total/avg duration, total/avg memory, total/avg cpu of requests
    - per last 1/10/30 minutes, last hour, since restart
  - Great for finding where most resources are being used, per aggregate of requests
  - More:
    - fusion-reactor.com/news/announcing-fusionreactor-6-2/
➤ Improved Relations tab (on request details)
➤ Memory use now tracked PER request, and PER query
➤ Can view aggregate totals of CFHTTP/httpclient URLs across ALL requests: Transactions>External Resources
➤ New System Resources feature
➤ New Metrics>CF Metrics and Metrics>CF System Metrics
➤ …

SOME ADDITIONAL FR 6 IMPROVEMENTS
Still more
- Option to obfuscate SQL in UI (hides customer data w/in the sql)
- Option to generate JDBC SQL Explain Information on very slow queries
- Changes to style of FR CP email alerts
- New weekly, monthly reports
- New tail feature in FR UI log viewer (for current hour logs)
- And more …
More Hidden Gems in FR6 (and 5)

- Covered in hidden gems in FR6, in new webinar
  - And another: Hidden Gems in FR (for those in FR 6 or earlier)
- Still other coming additional ones (tentative titles)
  - Troubleshooting with FR
  - Advanced FR use
  - Foundations of FusionReactor
- Indeed, before concluding, I want to highlight such fundamentals briefly…
FR lets you do so much more than these “new” things discussed today

Primary task: monitoring your CFML or Java app server
  - Tracking every request, and details about each
  - And every query, and details about each
  - Also offers info on heap use, cpu, and much, much more

And many folks focus on slow requests/queries, high cpu/memory
  - FR helps easily see when and where such problems happen

But folks are often left wondering why
  - Good news: the answers are usually there, with just a little effort…
Fundamental (not new) features which everyone using FR should know
- Covered in Fast Track training, FR docs, FR site feature pages, and so on
- Stack tracing
  - to identify line of code, while request is currently running
- FR CP alerts
  - to show tremendously useful info by email at time of hangup
  - and the possibility of protecting against some crashes
- Logs
  - To track nearly all FR data over time
  - Self-managed to not take up space, and high-speed, so little impact
- End-user performance monitoring (time spent getting to/from client)
All this is done with very little overhead
  - Intended to be used in production, even overloaded servers
  - And info available via mobile devices (in FR Enterprise)
➤ Check out free 14-day trial (latest version is 6.2.4)
➤ Inexpensive licensing, by subscription or perpetual purchase
  ➤ 3 editions: Standard starts at €35/month, Enterprise 53/mo, Ultimate 71/mo
  ➤ Newly available Developer edition: $100, plus $99 annual maintenance
➤ More at fusion-reactor.com
  ➤ Docs, videos, technotes, blog, google group, and more
➤ Or come by the booth here to meet the FR folks
  ➤ David Thacker, and Managing Director David Tattersall
  ➤ Who I would like to introduce now to discuss another new tool
NEW FUSIONCLOUD FEATURES

- CLOUD Dashboard – very configurable, thresholds, grouping servers
- Bi-directional secure channel (SOCKET) – Ability to send requests down to your server e.g. Stack Trace / Garbage Collection / Execute script
- Application view – generated from individual or clustered servers
- Application broken down by %Time taken, Average, Slowest, Throughput, #Errors
- Automatic identification of "interesting transactions"
- Ability to SAVE requests, transactions, stack traces, JDBC
- Server Metrics, Transactions, Requests, JDBC
- Alerting Engine for email, PageDuty, HipChat, Email, Slack, OpsGenie , VictorOps, FLOWDOCK, Twilio, IRCCAT etc.
- Hybrid Solution – FusionReactor on-premise + FusionCLOUD (optional)
- Infrastructure runs on AWS
- Beta has been running for around 12 months – now migrating beta users „soft rollout“
- Licensing Model
  - CLOUD – Server Reservations combined with On-demand (similar to AWS)
- Editions available –
  - Enterprise – Multi-Server, Advanced Reporting, Mobile Client, Enterprise Scripting
  - Ultimate – Production Debugger, Production Profiler, Production Memory Analyzer (TBA)
- Pricing
  - Enterprise - €88 month / €889 year
  - Ultimate - €134 month / €1340 year