

Coherence Application Monitoring at sportingbet plc.



Contents

- Where we were coming from
- Basic Coherence monitoring
- Widening the net



- Smart application monitoring
- Best practice.

In the beginning...

- No Coherence
 - Slightly distributed legacy platform
 - Basic RAG pages for monitoring system health
 - Many different monitoring tools
 - New projects developed without monitoring
 - Operations Team only find out about new software when it breaks
-

... and then sportingbet needed Coherence

- To publish site content -> business critical
 - It's a beast!
 - Highly distributed (& temperamental!)
 - Lots of log data – what do we need to monitor?
 - New to Coherence monitoring – what is possible?
-

Baby steps

Sportingbet trialed Logscape

- Coherence monitoring out of the box
 - Dynamic searches that you can zoom in to.
 - Added benefit of OS monitoring
 - Future proofing – ability to pull in app logs & integrate with other APIs
 - Potential to consolidate other monitoring into logscape
-

Learning to crawl

Monitoring Coherence is NOT enough.

- Coherence (std logs, jmx, reports & gc)
 - Host OS (iostat, vmstat, sar, etc)
 - Network infrastructure (syslogs)
-

Coherence Monitoring Demo 1



Eureka!

The whole really is
greater than the sum of its parts.



Coherence Monitoring
Demo 2

Learning to walk: monitoring explosion

If being able to correlate information in data is the key... then we need to make as much data accessible as possible!

- Coherence logs from Extend clients... and the application logs
- Coherence application logs
- ...
- IIS logs
- Oracle OSB / Weblogic
- Push technology' s Diffusion logs & JMX
- Squid
- New apps
- etc etc.

Learning to run:

Smart Logging

Example: TASK line type

2013-03-12 17:29:20,983 INFO Some-Thread TASK("Task1")
 completed successfully (params)

The Pattern:

TASK - <taskName> <result>. Time: <duration>ms [(<more info>)]

Regex:

.?\s+TASK\s+-\s+.*?(\\S+)\s+(\\S+)\s+Time:(\\S+)ms\s+(\\(\\S+\\)).**



Coherence Monitoring
Demo 3

Smart logging best practice

- Log at component, API or service boundaries.
- Log when new task is initiated
- Log context, txn ids & duration

- Use a library to enforce formatting
- Make format easy for a machine to parse

- Keep searches generic

Learning to fly

Business level tracing of transactions across disparate systems



From bad to good and
getting better.

Any questions?