#### A short introduction to

# Allmon

# a generic performance and availability monitoring system

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### List of topics

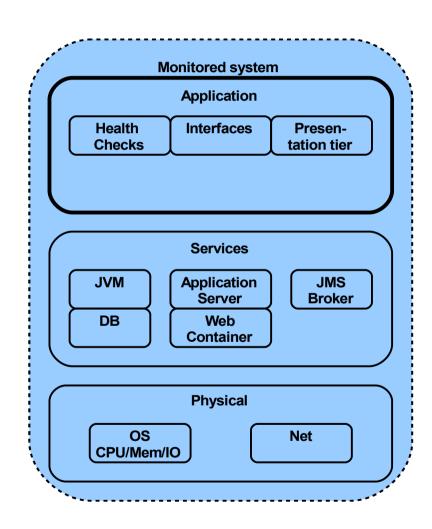
- Source of performance problems
- Continuous monitoring and metrics acquisition
- Allmon architecture (distributed system)
- Deployment
- Configuration
- Analysis
- Questions

### Source of performance problems

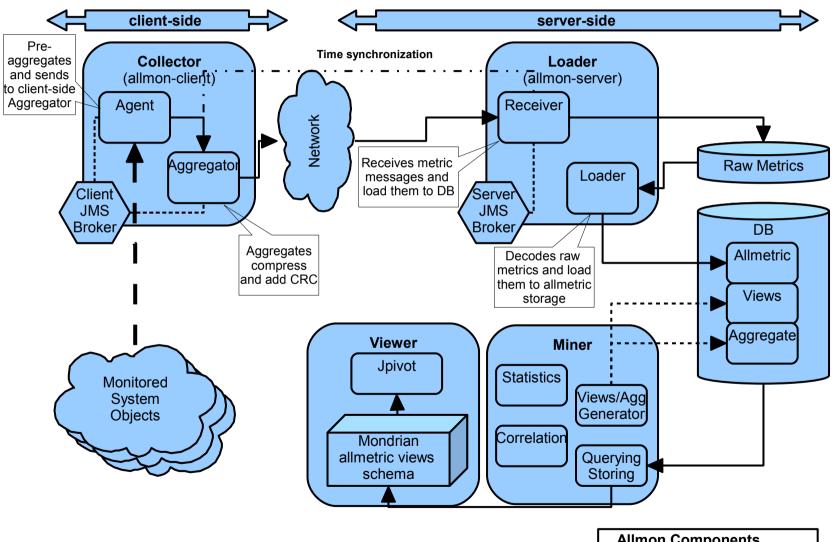
- Lack of understanding (knowledge)
  - Not well defined requirements (functional/non-functional)
  - Not experienced developers
  - Not well trained users
- Lack of visibility
  - Developers have to understand operational aspects
  - Multi-layer system monitoring is essential
- Not enought testing
  - Load tests (integration, regression), Soak tests
  - Monitoring for "before-after" load test comparison

# Continuous monitoring and metrics acquisition

- Monitoring multi-layer enterprice systems
  - Main layers: Application, Services, Phisical
- Distributed system
  - Messaging: isolation, nonintrusive, reliable
- What to monitor, what to analyse?
- Collected data can be used for correlation analysis



#### Allmon architecture

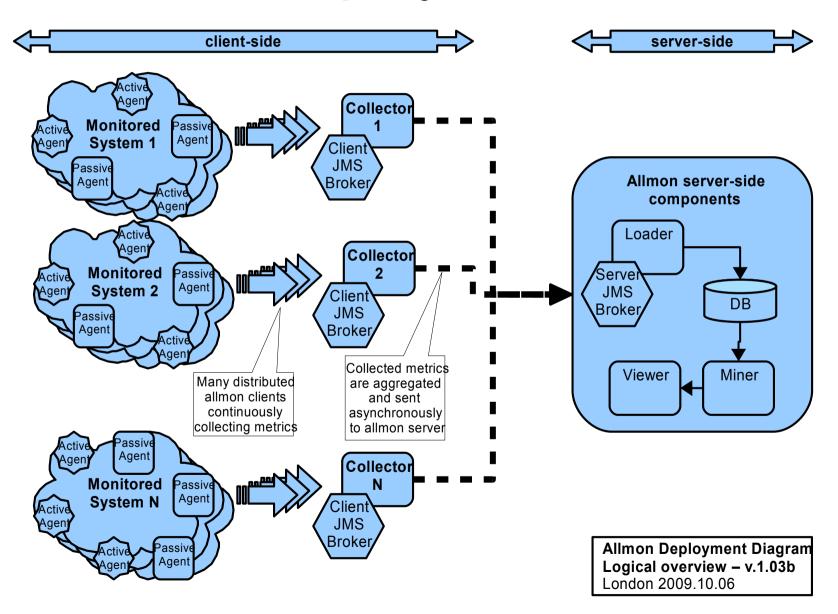


Allmon Components Logical overview – v.1.03a London 2009.10.06

#### Allmon architecture

- Collector (distributed client-side)
  - Agents (Passive/Active agents collecting metrics)
  - Aggregator (common pre-aggregating and sending data mechanism)
- Loader (centralized server-side)
  - Miner (transforming data to allmetrics, aggregating)
  - Viewer (presentation, multidimensional analysis)
- Data storage
  - Raw data storage (staging tier)
  - Allmetric schema (generic 3NF structure)
  - Aggregates, pre-calculated structures (access tier)

# Deployment



# Configuration

- Client-side
  - Agents configuration
    - inedpendent configuration for different types of agents
  - Active agents scheduling
- Server-side
  - Database conectivity
  - Loading process scheduling
  - Aggregate processes parametrisation
  - Visualization set-up

#### Basis for finding performance problems

- Study case 1:
  - Growing JVM allocation in comparison between several releases and users activity
    - Input: JVM mem, GC, application actions
    - Output: differences in users activity, differences in application behaviour

# Questions

???

# Allmon 2009

Allmon project page: http://code.google.com/p/allmon/

Allmon user group: http://groups.google.com/group/allmon

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