Java Application Monitoring with AppDynamics' Founder

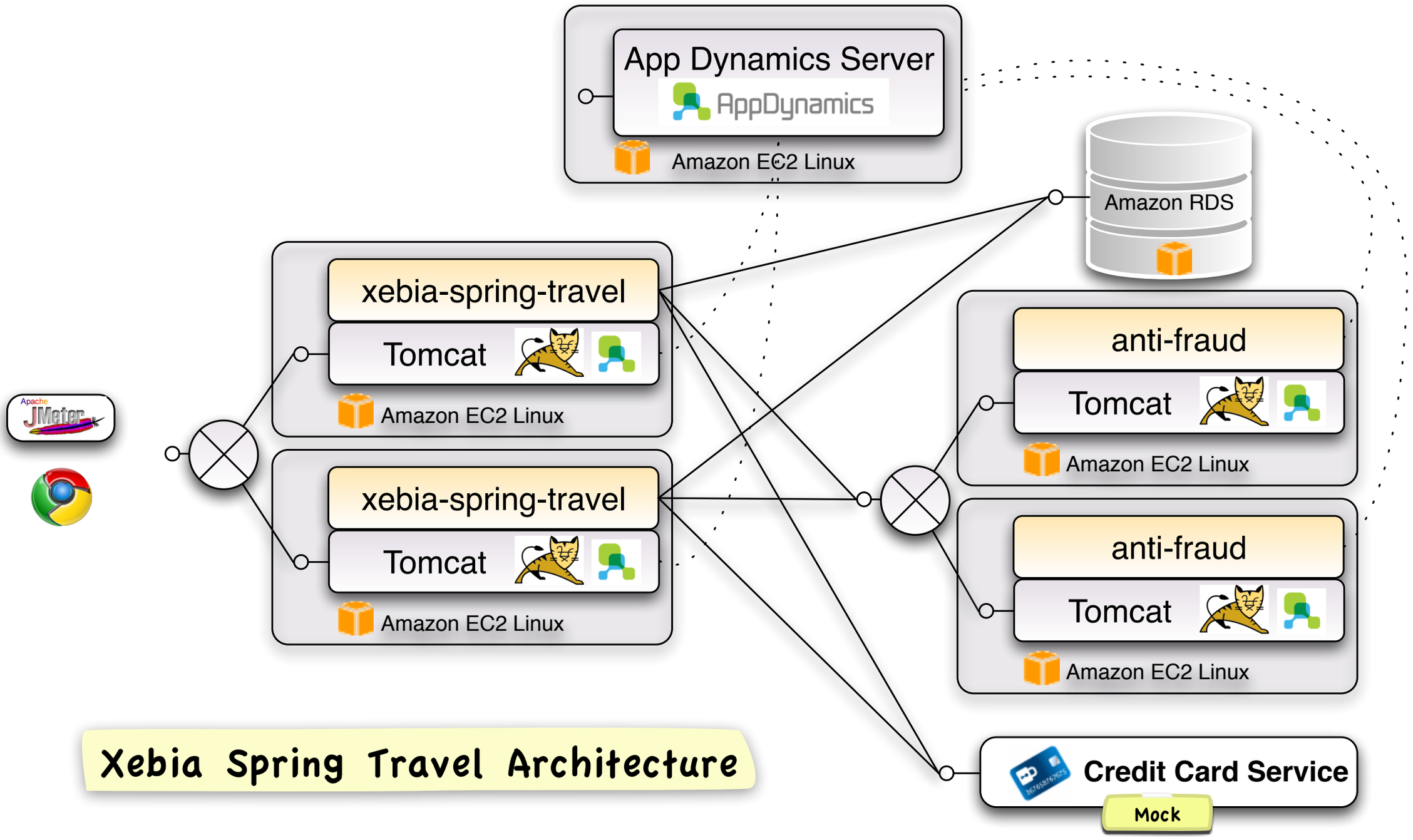
Jyoti Bansal

Cyrille Le Clerc
Pablo Lopez

Part 1
What can I get with a new generation Application Monitoring System

The use case

The Use Case

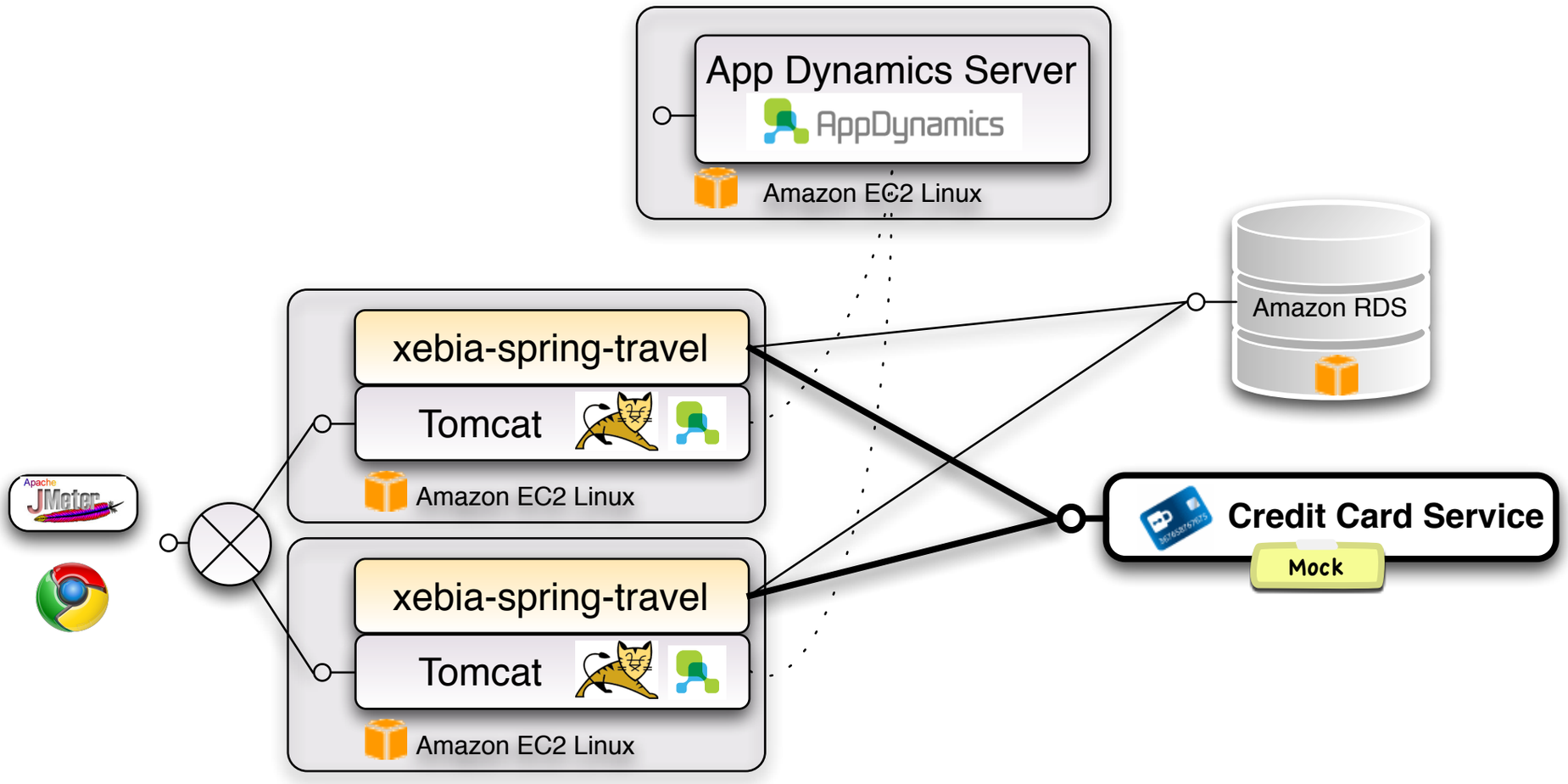

App Dynamics Server
AppDynamics
Amazon EC2 Linux
Amazon RDS
xebia-spring-travel
Tomcat
Amazon EC2 Linux
xebia-spring-travel
Tomcat
Amazon EC2 Linux
anti-fraud
Tomcat
Amazon EC2 Linux
anti-fraud
Tomcat
Amazon EC2 Linux
Credit Card Service
Mock
Xebia Spring Travel Architecture

The use case in App Dynamics Server

Xebia

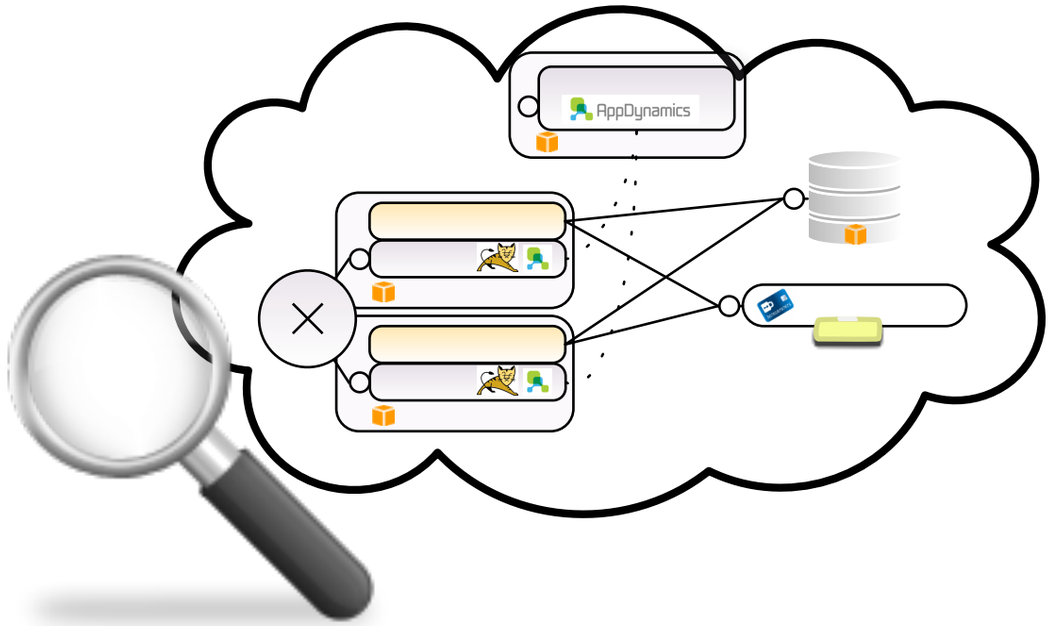
Dashboards

Dashboards
Simplified architecture



Part 1 : Simplified Architecture

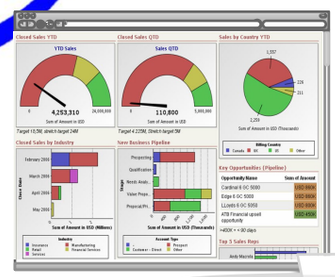
Dashboard for Operations

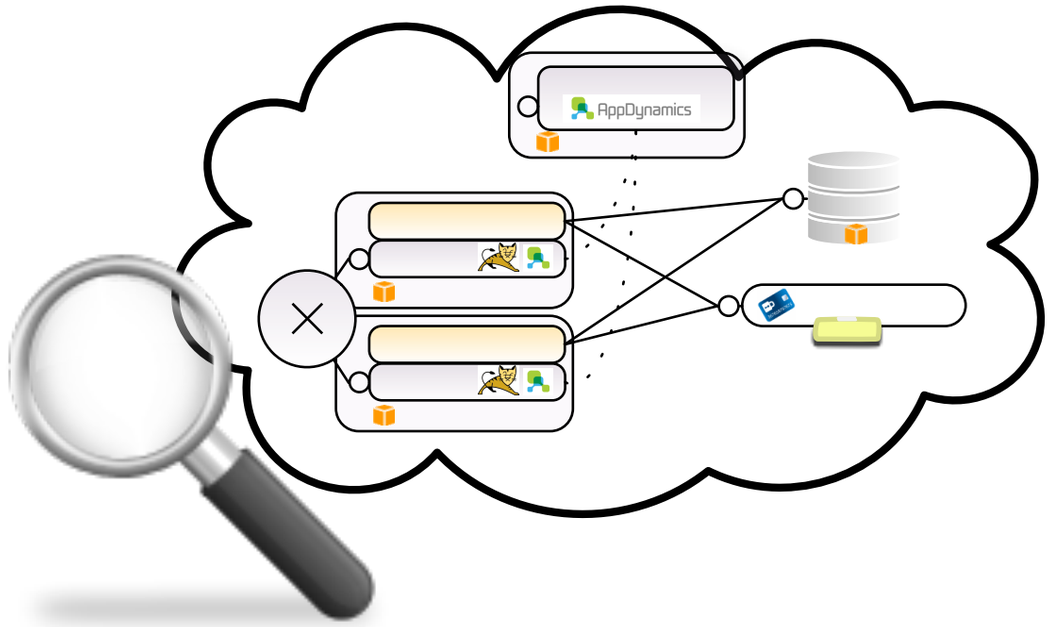


CPU, disk, db pool
requests/min
404, 500 errors count

Operations Team Dashboard
Technical Indicators

Dashboard for the Business

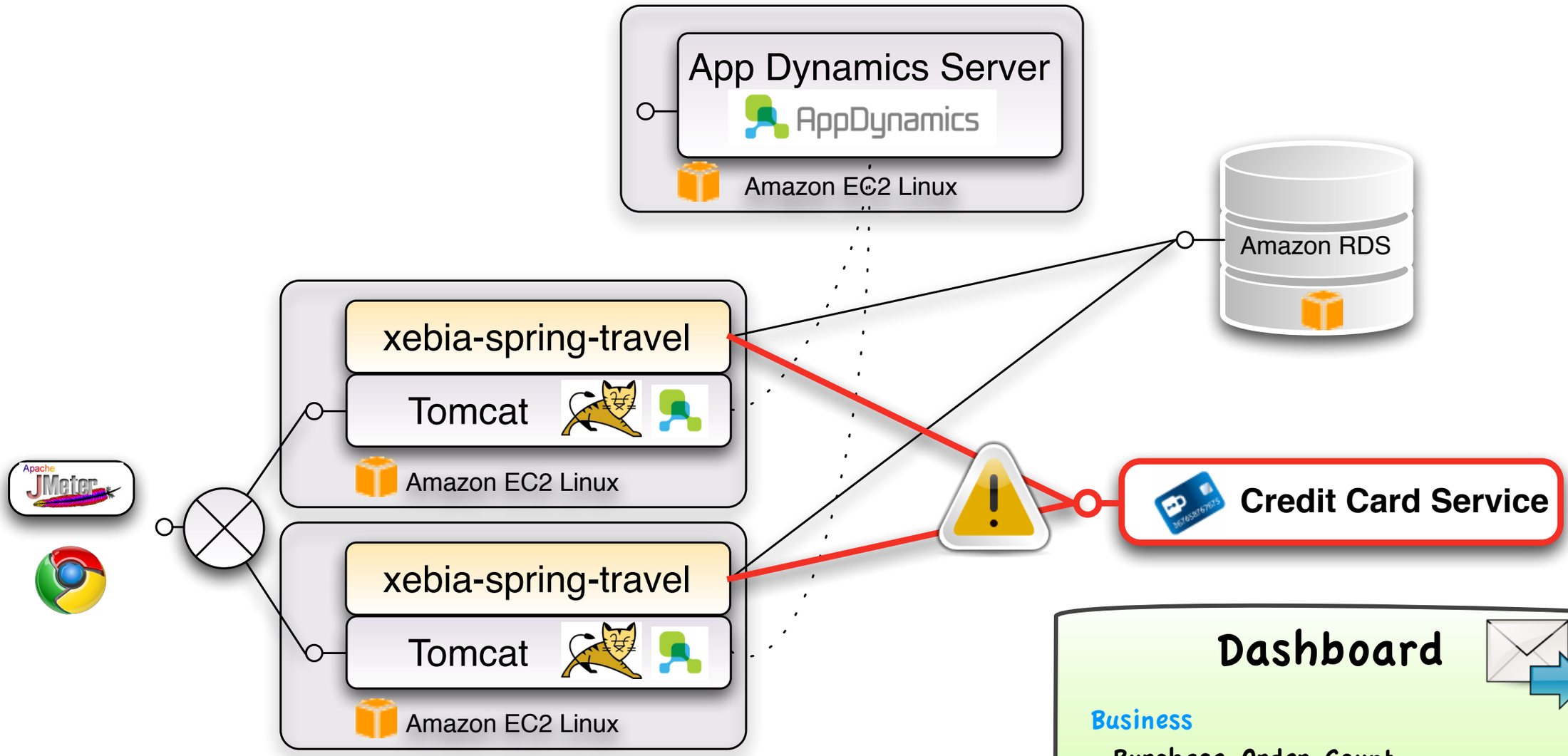




purchase / min
revenue / min
rejected payment / min

Business Team Dashboard
Business Indicators & Trends / KPI

Crisis Dashboards



Crisis Dashboard
Measure impact on business

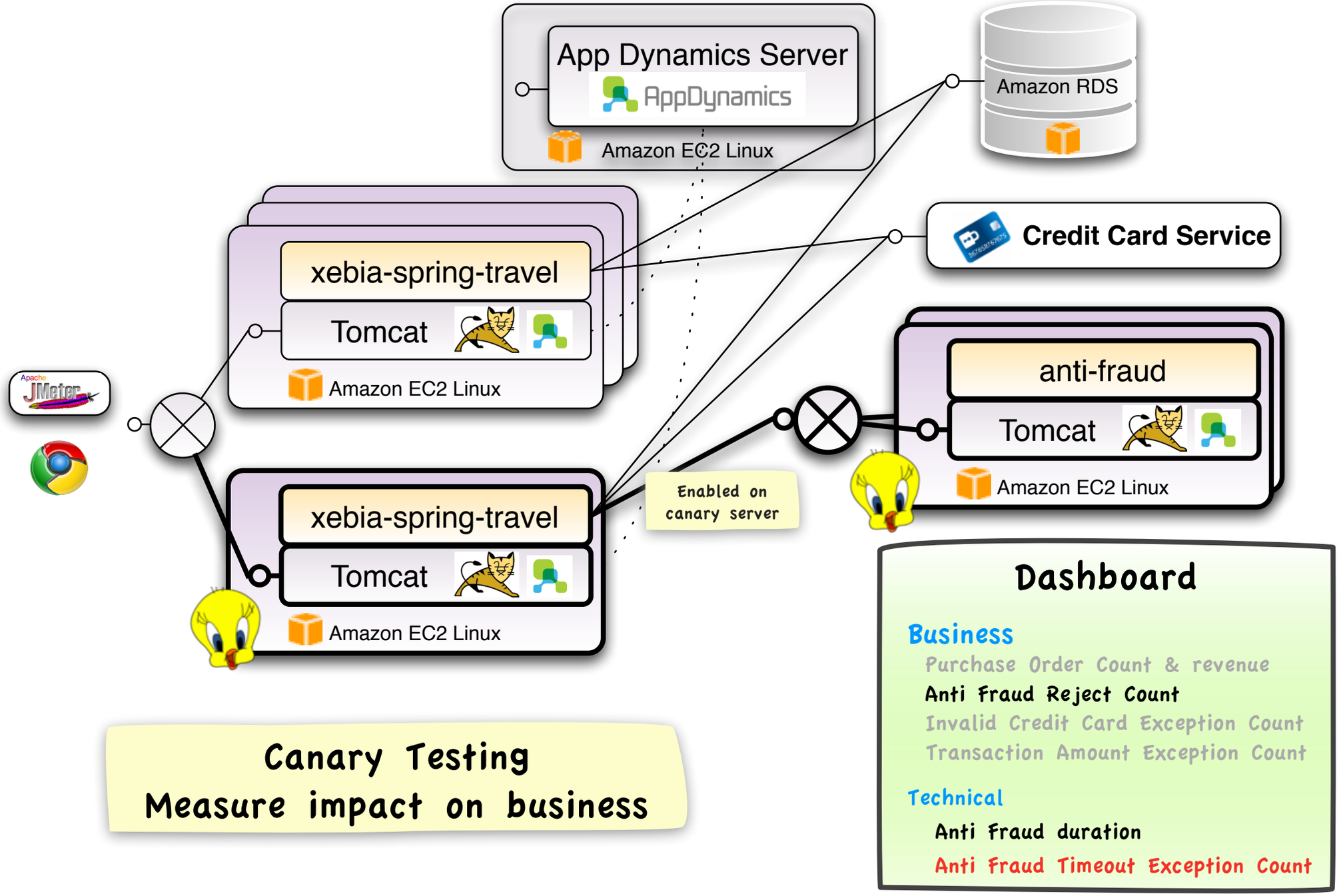
Dashboard

Business
- Purchase Order Count
- Purchase Order revenue

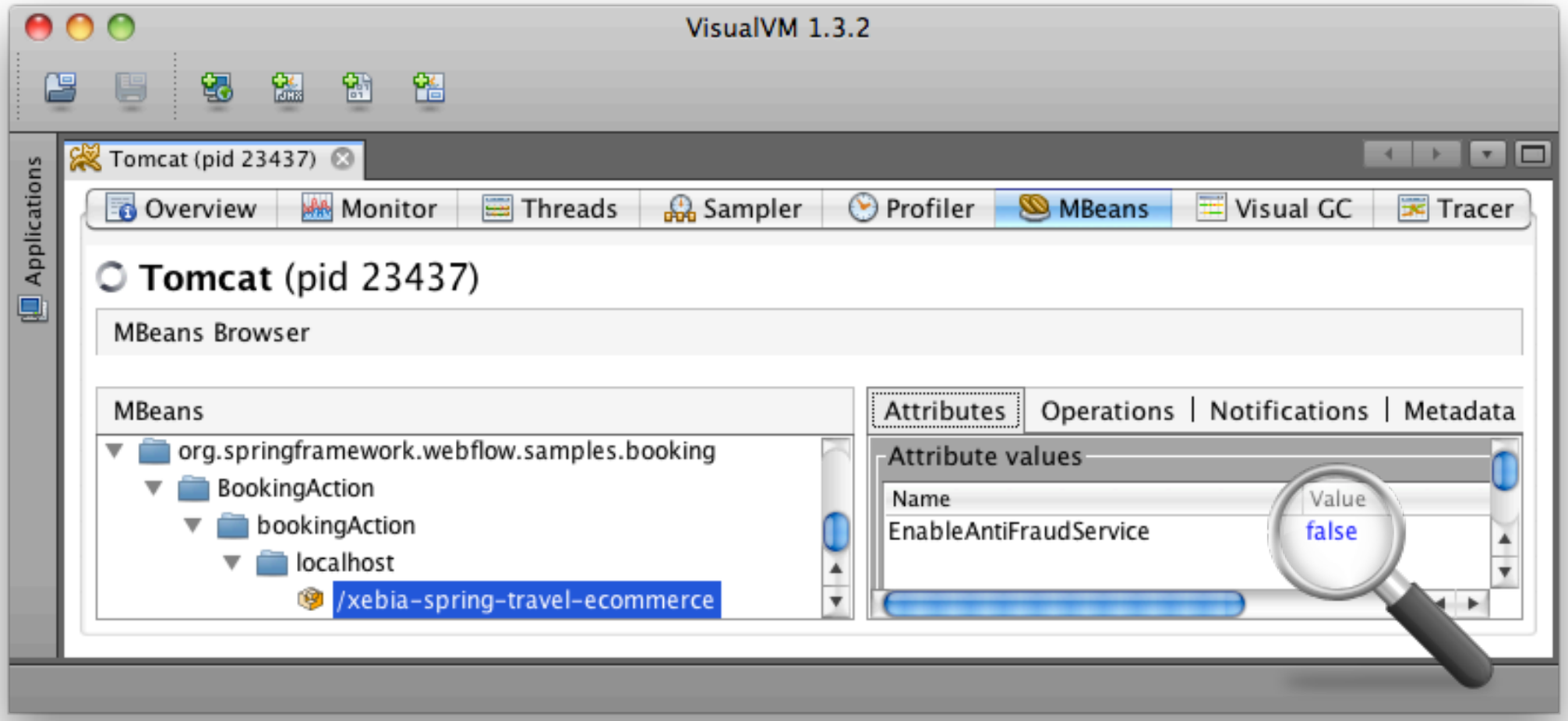
Technical
- Purchase Order duration
- Credit Card Timeout Exception Count

Monitoring serving the Business

Canary Testing of New Business Features



Canary Testing of New Business Features



Feature Toggle Pattern to enable Anti Fraud System

Misc

Integrating Monitoring Systems in the infrastructure

- Application Servers Built-in Monitoring
- Log Management and Analysis Systems
- Profiling Tools

Xebia

Part 2
Trends of application monitoring
What's coming ?

Part 3
Internals of Application Monitoring Systems

Internals of Application Monitoring Systems

Embedded Java Agent

vs.

Standalone Agent

vs.

Agent Less

Internals of Application Monitoring Systems

User Interface
Embeddable Dashboards
Open Social Widgets

How do you scale ???