



Condor Java Daemon Core - JMS Job Event Notification

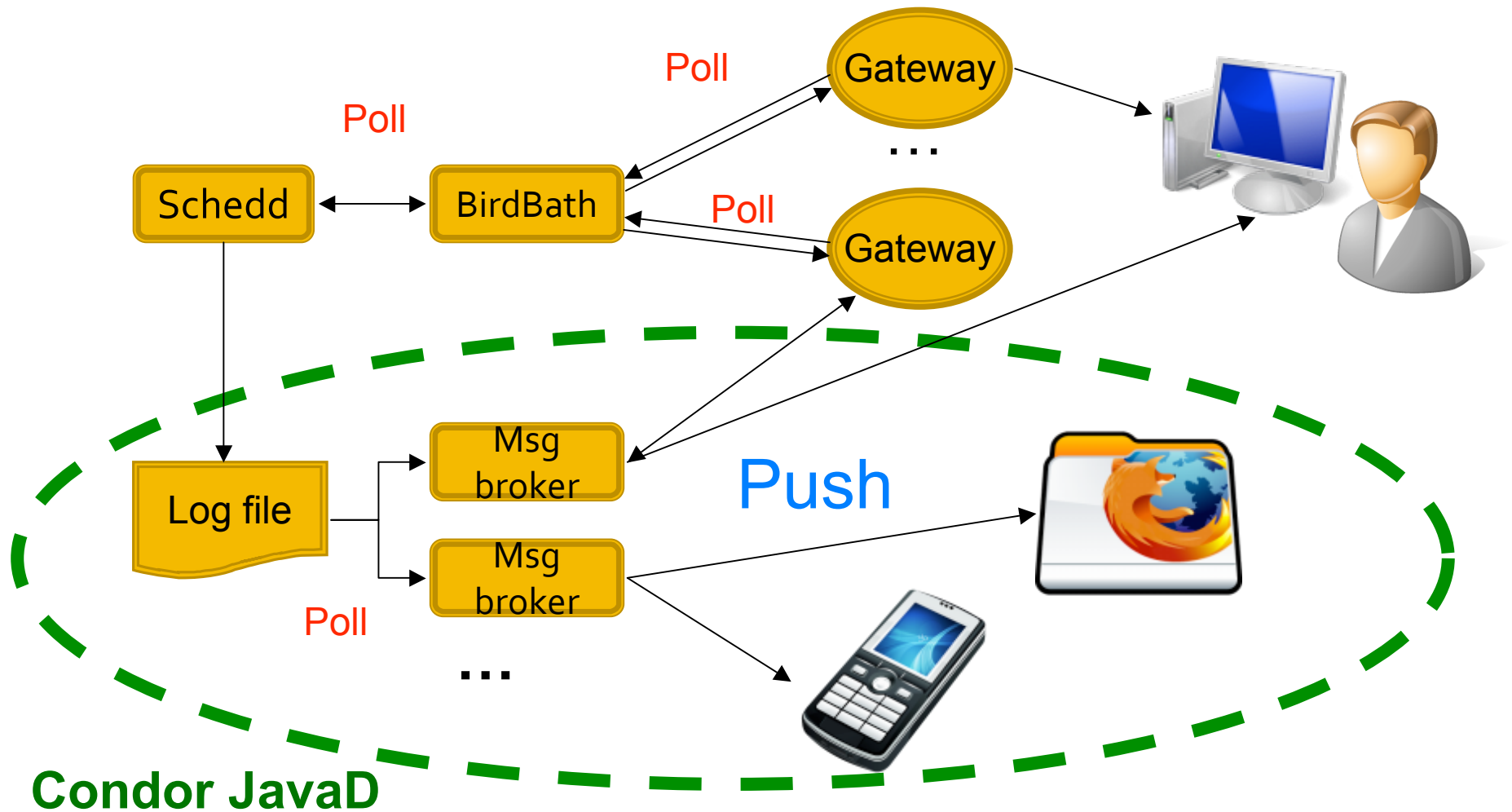
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Project Overview

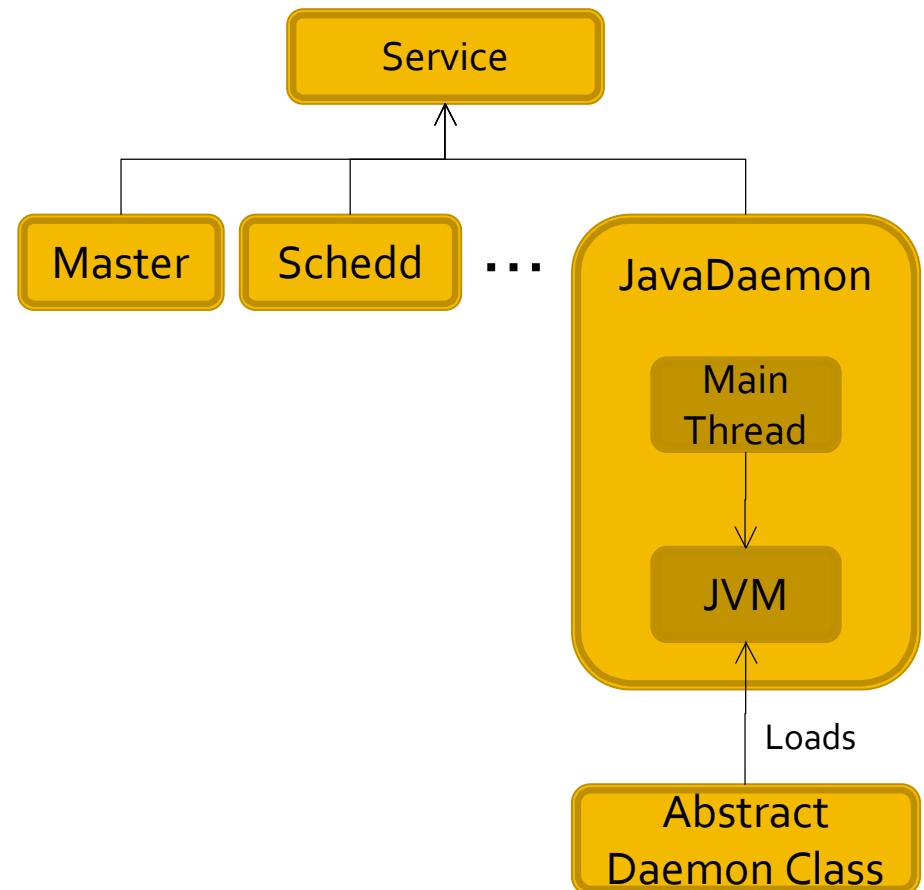
- Java Daemon Core
 - Common way to create condor daemons for java.
 - Defines an abstract class and flexibility.
 - Condor daemon management.
- JMS Job Event Notification
 - Asynchronous notification of job events.
 - Removes the need for polling.
 - For the time being publish only.

Architecture Overview



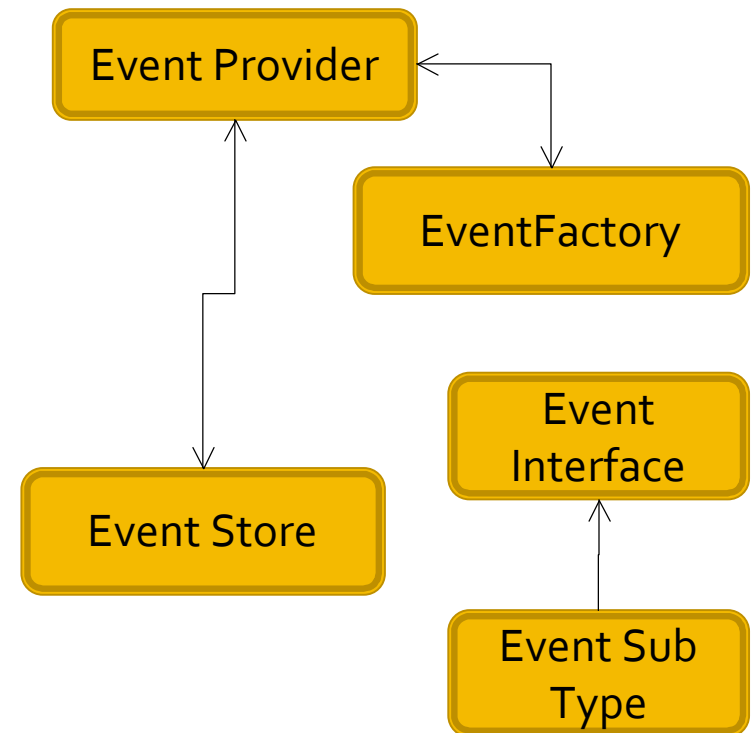
Java Core Daemon

- Daemons
 - Use DaemonCore class
 - Extends Service class
- Java Daemon Core
 - JNI Implementation of Daemon Core
 - C++ base class runs to handle signals
 - Launches JVM through JNI
 - Loads and calls an implementation of AbstractDaemonClass.java



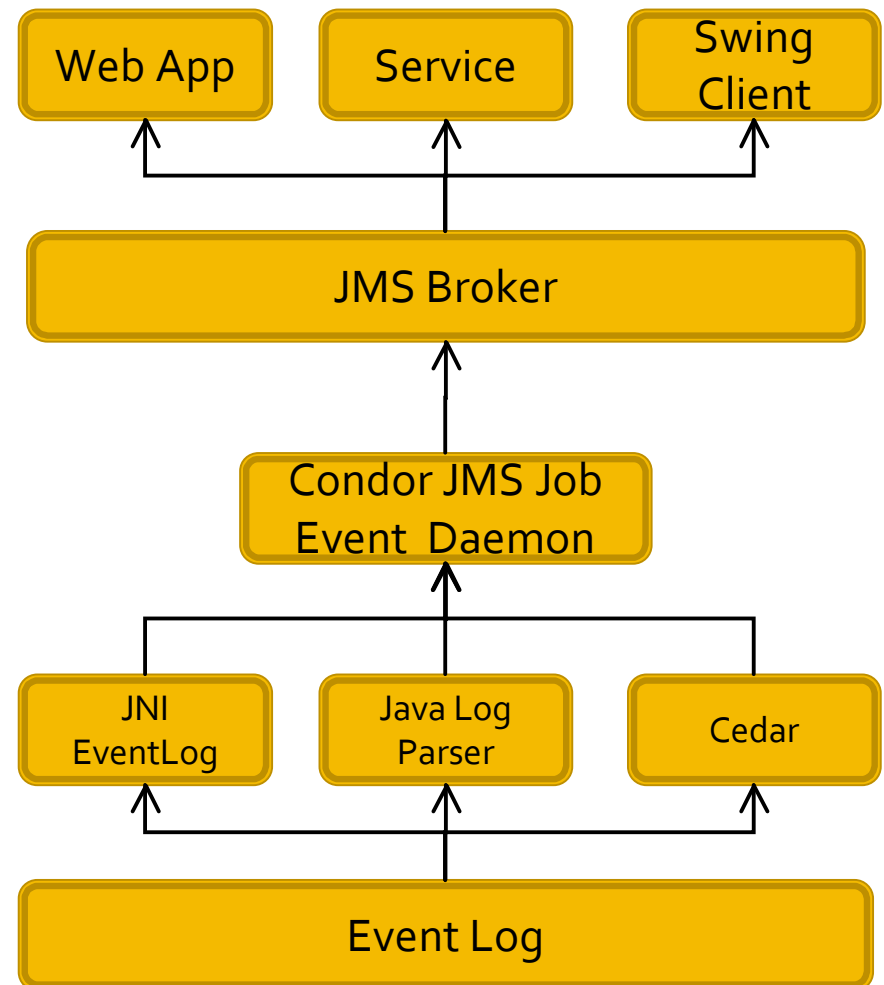
Job Events

- Event Interface
 - Sub Types
- Event Factory
 - Creates Sub Types from serialized form
- Event Store



JMS Job Event Notification

- JMS Event Daemon
 - Publish to a JMS event broker.
- JMS Broker
 - Notification replication
 - Order and Persistence
 - Security and Guaranteed delivery
- Clients and standards
- Multiple event fetchers planned.



Current Issues and the Future

- Thousands of events per second!
 - JNI memory speeds
 - Multiple ways of fetching event data.
 - Event sub type matching with C++ version.
Considering auto generated solutions.
- JMS Broker Scaling.
 - Clustering will be considered.
- Multiple client interface examples.
- If this will survive in our environment it should work anywhere.