Den SPP

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Agenda

- About Red Hat
- JBoss Middleware
 - Team structure
 - Example projects
 - Infinispan
 - OptaPlanner
 - Mobile
- Student opportunities

About Red Hat

- Open-source company
- Not only Linux
 - Cloud
 - Java middleware

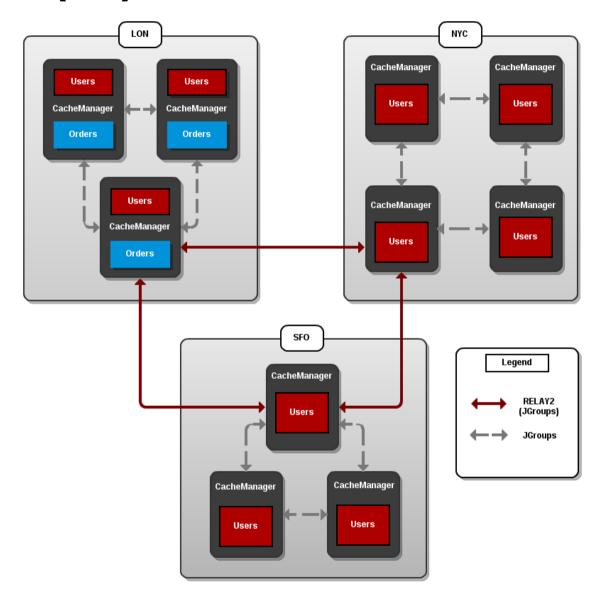
Middleware Team

- Roughly 10 products
 - Composed of tens of projects
- Quality Assurance (more than 100)
- Productization (around 20)
 - Sustaining
- Core development (cca 5)

Example projects

- Infinispan
 - Scalable memory grid
- OptaPlanner
 - Planning engine
- AeroGear
 - Mobile development

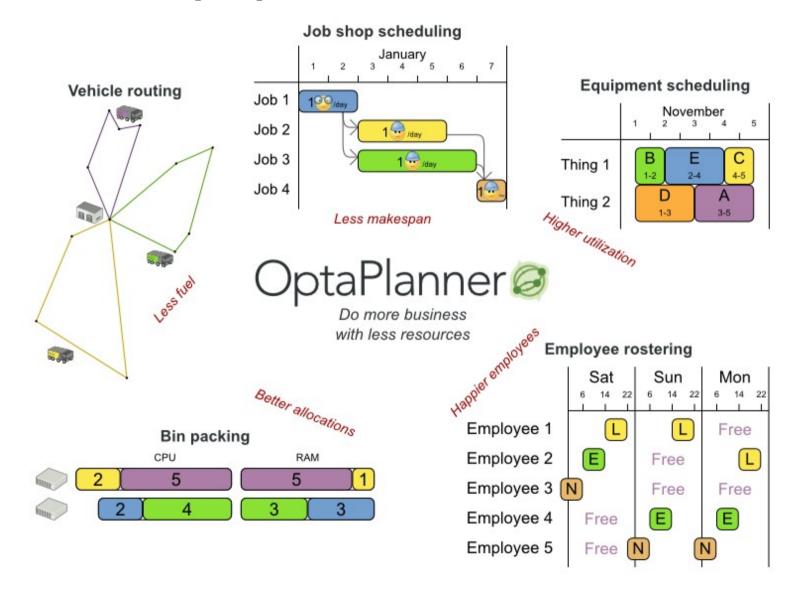
Infinispan (1/2)



Infinispan (2/2)

- Open-source datagrid platform
- In-Memory, Schema-less, NoSQL key-value data store
- Distributed cache (offers massive heap)
- Scalable (goal: hundreds of nodes) + Elastic
- Highly available, resilient to node failures
- Concurrent (reads and writes at the same time)
- Transactional
- Queryable (also document store)

OptaPlanner (1/2)



OptaPlanner (2/2)

- Solving planning problems
- Defined by
 - Constraints (hard, soft)
 - Score
- Algortihms supported many
 - Tabu Search
 - Simulated Annealing
 - Prototype of Genetic Algorithm

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AeroGear



- Unified mobile development
- Push servers
 - SimplePush
 - UnifiedPush
- Security
 - Integration with security providers like PicketLink

Student opportunities

- Bachelor/diploma thesis
 - https://thesis-managementsystem.rhcloud.com/
- Courses
 - PV243 Advanced Java technologies: JBoss
- Internship
 - Mostly QA and productization
 - Selection starts NOW

Questions? Thank You