

### Who we are

- Mike Cirioli IT Lead
- Lance Peterson Developer
- John Bell Developer
- Lauren Santiago System Admin



#### **Mission**

- To increase efficiency and cost savings at Red Hat by offering Business Process Management as an IT managed service
- Define best practices
- Improve JBoss BPM customers win!



## The IT BPM Team

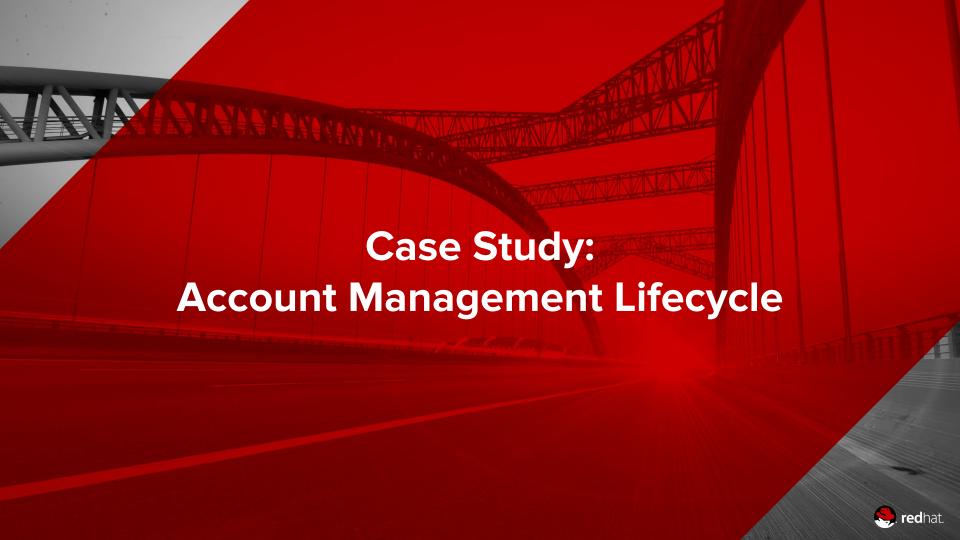
Explore Process Automation

Red Hat Product Stack (our own dogfood)

- JBoss BPM Suite 6.4.x
- JBoss EAP 6.4.x
- MariaDB







# You're Hired!

















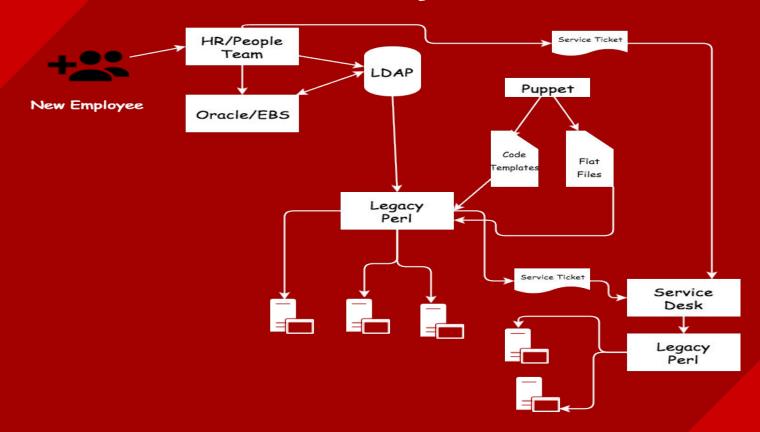


### Oh No! We Hired You!

 How do you manage it all and ensure your employees are productive on their first day?



# The Old Way To Do IT





### The Bad News

- Unmaintable
  - Scripts get orphaned when people leave
- Little coordination across teams
  - Equipment can't be prepped in advance
  - Multiple requests
- Not scaleable

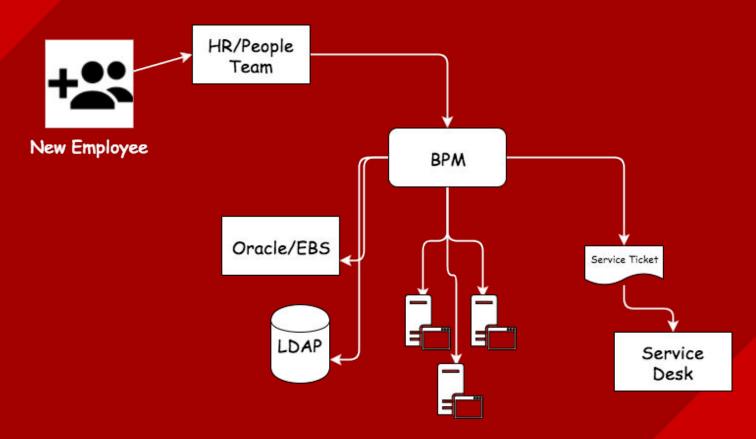


# There's Got To Be A Better Way!

- How can we.....
  - Coordinate better
  - Integrate faster
  - Reduce manual steps



# There's Got To Be A Better Way!





### Goals

- Avoid knowledge bottlenecks
- Separate the logic of the business process from the implementation details of the integrations
  - Allow the "team" to scale horizontally
  - Service owners "own" the last mile
- Support larger efforts at improving the onboarding experience at Red Hat



## The Approach

- Standardize communication between the process and integrated systems
- Leverage industry standards and practices
  - JSON Data Format
  - o REST
- Define data model
  - Process operates on the model
  - Connectors consume and transforms this model

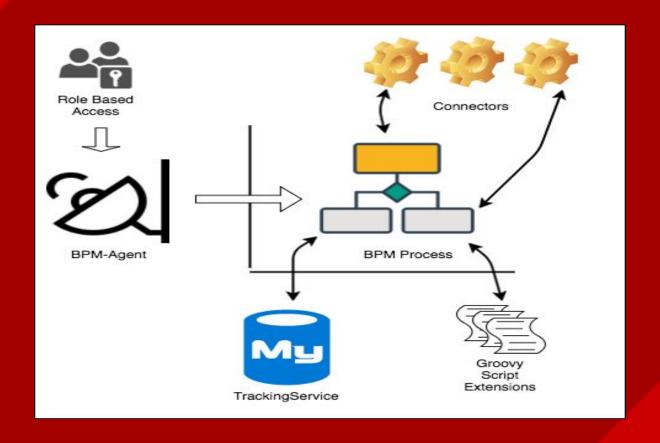


## Divide & Conquer

- Systems divided into tiers
  - Core (system of record)
  - Common (most used)
  - Outliers
- Integration with existing legacy "process"
  - "Big Bang" approach not feasible!

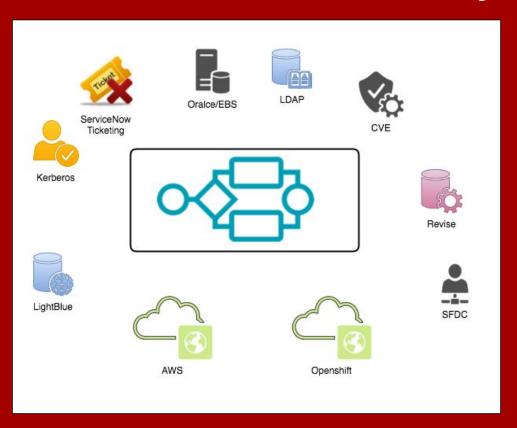


## **IT-BPM Enhancements**





# Connectors In Use Today





# **BPM-Agent**

- Removes knowledge dependency from BPM consumers
- Fine-grained access control
- Multiple authn options
- Broker integrations with JBoss Fuse & Camel



## **Process Tracking**

- External tracking of process state
- Helps identify "lost" processes
- Ties into existing monitoring tools used by IT



# Groovy WorkItem Handler

- Ability to run external groovy scripts
- Perform data transformation and "housekeeping" tasks
- Externally managed



# **Initial Implementation**

- IT BPM Team put theory into practice
  - Developed connector framework
  - "Cannonical" data model
  - Infrastructure



### Results!

- Reduced show-stopping failures to almost zero!
- Manual steps no longer batched, reducing bottlenecks
- Completely automated first step of 2-part manual process
  - 30 minutes per new account time saving!
- Raised awareness around shortcomings in human process steps



## **Next Steps**

- Integration of second-tier apps
  - 4 Teams now using the connector framework for their own integrations
- Tie in to existing human driven processes
  - Overhaul of entire onboarding experience
- BRMS
- Embedding BPM engine



## **Lessons Learned (Pt. 1)**

- Understand your process first!
- The concept is simple but there is a steep learning curve for implementation
- Keep the process focused on the business logic
  - Externalize integration points



# **Lessons Learned (Pt. 2)**

- Start small
- Learn from others
- Participate in the BPMS community!



# **Other Projects**

- Red Hat Connect
  - Container Certification
- Rover Groups
  - Self-service group management
- Telephony/Call routing



### Resources

- https://developers.redhat.com/products/bpmsuite/community/
- http://mswiderski.blogspot.com/ (Excellent resource!!!)
- http://www.schabell.org/p/jboss-bpm-suite-starter-kit.html
- IRC Freenode/#jbpm



# **Questions??**



