

# Migrate and Modernize Applications

Accelerate innovation and reduce costs with EAP

Rahman Oridedi Aug 2019



# Migrations and Modernization

Why do organizations migrate?

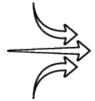








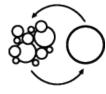
Avoid Vendor lock-in



Remove technical debt



Rebalance



Agile/devops/cloud



# **Average Benefits**

IDC study: Benefits of moving from a proprietary platform to JBoss EAP

- 3-year **return on investment** of 509%
- Payback on investment within 9.4 months
- 70% more applications developed per year
- 35.5% **less development time** per application
- 89.3% less application development-related downtime
- 79.5% **cost savings** over proprietary platforms



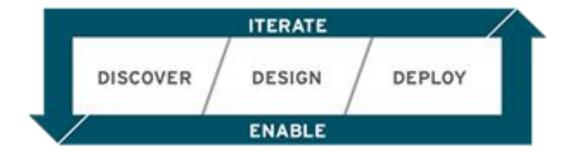
# Why migrations don't happen

- Perceived risk with conducting a migration
- Lack of familiarity/SME's for the application
- Lack of resources
  - Time
  - People
  - Budget
- The application works as-is and everyone is comfortable with it



# Red Hat Application Migration

Solution Delivery Framework





### Discover - Explore

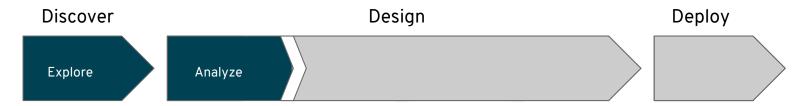
Discover Design Deploy

Explore

- Discuss:
  - Goals and solution approaches
- Identify:
  - Challenges and potential issues
  - Viable approaches and technologies
  - Desired outcomes
- Outline:
  - Current state
  - Target state
  - Opportunities for change



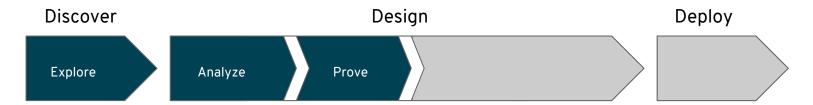
# Design - Analyze



- Analyze
  - Architecture
  - Dependencies
  - Infrastructure
  - Processes
  - Governance
- Automated application code analysis



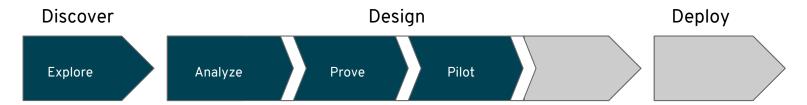
# Design - Prove



• Prove out if high-risk issues are solvable



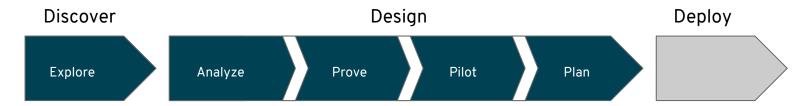
# Design - Pilot



- Pilot the target infrastructure and adjust estimates
  - Based on outcomes from previous phase



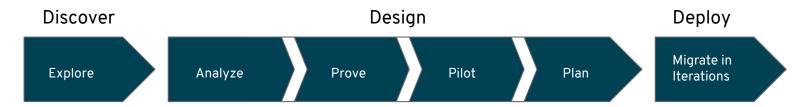
# Design - Plan



- Establishing work backlog
  - Phases
  - Order
  - Teams
  - Documents
  - Processes



# Deploy - Migrate in Iterations



- Typically 2 week sprints
- Continuously validating implementation against plan
- Building skills with ongoing coaching and mentoring



### What is Windup?

It's now called Red Hat Application Migration Toolkit

- Open Source
- Built on lessons learned and experiences from consulting
- Inspects
- Generates
- Eases path to migration
- Customizable





### How does it work?

- Specify Input application, code, package
- Specify Output
- Set source technology
- Set target technology
- Execute
- Integrate reports into migration strategy



# **Supported Migrations**

~	V
•	~
•	<b>x</b> [a]
~	<b>✓</b>
N/A	~
	· · ·

<sup>[</sup>a] Although RHAMT does not currently provide rules for this migration path, Red Hat Consulting can assist with migration from any source platform.



# What does Windup Generate

#### Several reports that display:

- Lists of tasks
- Severity of tasks
- LOE of tasks
- Effort based on Story Points
- Offending files and lines of code w/suggested changes.



# How to Incorporate Windup

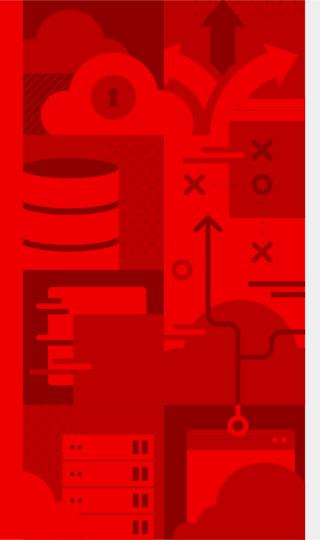
#### Assess and Plan

- Identify Critical issues
- Create estimates
- Select Pilots

#### Migrate

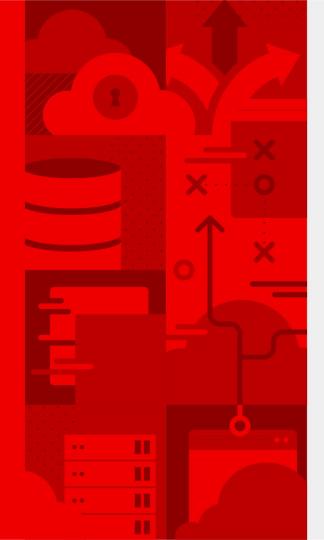
- Exhausting migration support
- Extend
  - With new and custom rules





# **DEMO**





# Redhat Process Automation Manager

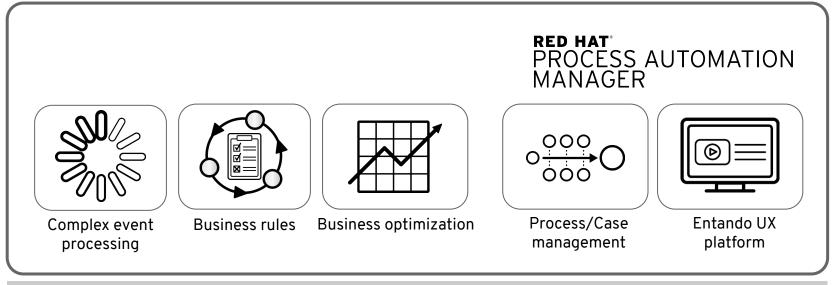
**Automate Your Business** 

Rahman Oridedi Aug 2019



# **Business Automation Offering**

Key features

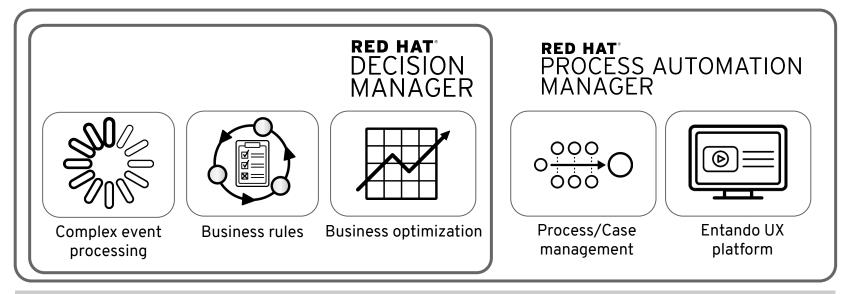






## **Business Automation Offering**

Key features







PRIVATE CLOUD

Red Hat

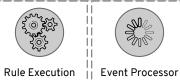
RED HAT DECISION MANAGER











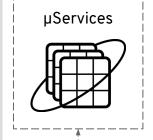






Decision

Central



CEP Optim. REST / JMS / JAVA

Runtime

Modelling & Authoring

Assets Repo.

**Data Modeling** 

Rules Authoring

DM

**DMN Execution** 

# "Runtime modes"



