

Virtual Meetup

zoom



Wednesday April 23
9am PDT | 12pm EDT



Fred Ellenberger
Senior Solutions Architect
Optum

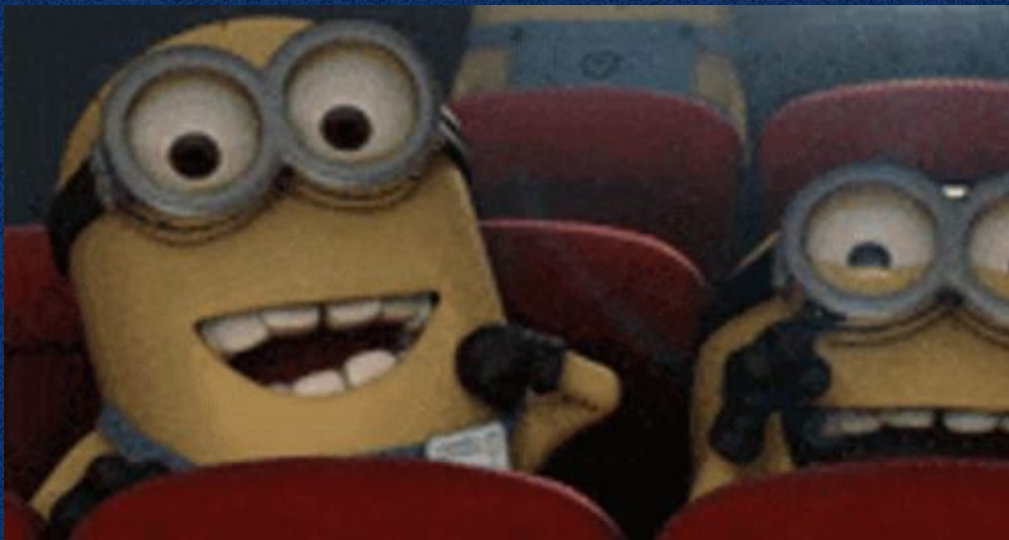


Martin Van Son
Automation Specialist
PagerDuty



Agenda

- Xenda Amici - *PD Commons Announcements*
- Fred Ellenberger - *My Decade Orchestrating with Rundeck*
- Martin Van Son - *Self-Service Automation with Rundeck*
- Q&A



🎤 ✨ **BE the NEXT SPEAKER!**

<https://bit.ly/4dSpLeA>

community-team@pagerduty.com

We have swag up for grabs!

PagerDuty
commons/



Webinar Series

Demo Roundups!

Monthly • Every 3rd Thursday
8am PST | 11am EST | 4pm GMT



Coming up:

April 24 • Identifying System Weaknesses to Improve Resilience

May 22 • What's New in Schedules & Services

June 26 • Meet the PagerDuty Agents

July 24 • On-Call Culture in the Age of AI

Runbook Automation & Rundeck release notes v5.11

Thursday, April 17, 2025
10 am PDT | 1 pm EDT



twitch.tv/pagerduty



linkedin.com/company/pagerduty



WEBINAR

Supercharge Your Rundeck Plugins with AI

Tuesday 29 April — 8AM PDT | 11AM EDT

Join this webinar to learn how PagerDuty's AI capabilities can help you.

Save your spot and we'll see you there!



Jake Cohen

Senior Product Manager
PagerDuty

PagerDuty

Reimagining operations in the age of AI and automation

May 8th, 2025 @ 10 AM PT

[Register now](#)



David Williams

Senior Vice President, Product
PagerDuty

Rundeck by
PagerDuty +  CloudBees® +  Coralogix

Event

Tech-Mex Automation Fiesta



Tuesday, May 20 • 5:30 - 8:00 EDT

Rosa Mexicano (155 Seaport Blvd, Boston, MA 02210)

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Let's continue the conversation!

Connect with fellow PagerDuty users
and digital operations enthusiasts at your
one-stop community hub for real-time ops.
Join local groups, upcoming **events** & more!

**Scan to join the
Developer Community.**

Leave a message in the "Introductions"
forums telling about this event for
a chance to win a special gift!





- We have an agenda but this is intended to be **YOUR community** and call - we're happy to go off-topic!
- **Please keep it interactive** - ask questions in the **Q&A** or make comments at any time, leave your feedback in the **post meetup survey**
- This session is **being recorded** but only the individual presentations will be **uploaded to Youtube**



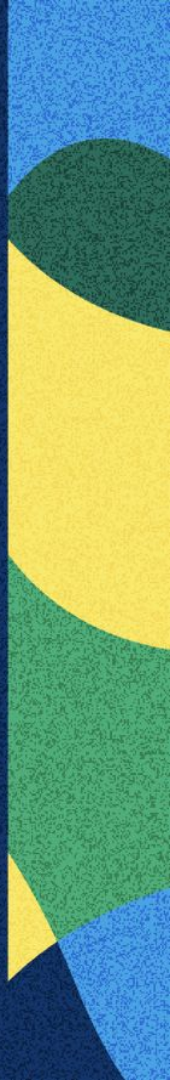


My Decade Orchestrating with Rundeck

Fred Ellenberger, Senior Solutions Architect at Optum

Agenda

- About DMS
- Rundeck Services Vision
- What is Rundeck
- High Level Architecture Overview
- Our journey with Rundeck
- Commitment to evolving Open-Source



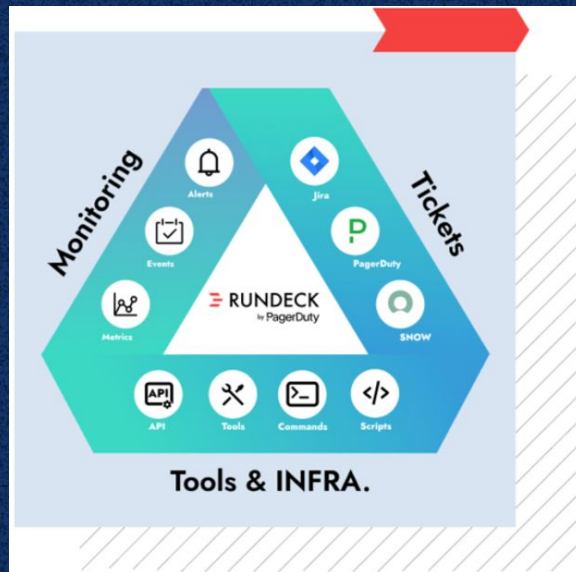
Data Management Services: About Us

The DMS (Data Management Services) team specializes in developing technological capabilities that create value for our customers seeking data management and data-centric solutions. We are a DevOps organization that drives digital transformation in support of Optum Insight's Payer Operations pillar as well as offering SaaS and Open Source-based services to the Enterprise. Some of the services and support we provide include:

- **JIRA** to manage work through planning, tracking, releases, and reporting
- **Confluence** for team collaboration like project and marketing planning, meeting notes, product requirements, and blog posting
- **Knime** for data analytics and data science applications
- **Nuxeo** for extended content management services such as searching, storing, and retrieving large volumes of unstructured content
- **MongoDB**, a highly scalable, flexible, and distributed NoSQL databases
- **Rundeck** to schedule and orchestrate jobs and manage job automation
- **Talend** for data integration, big data, and data management solutions
- **Data enablement services**
- **Product development services**

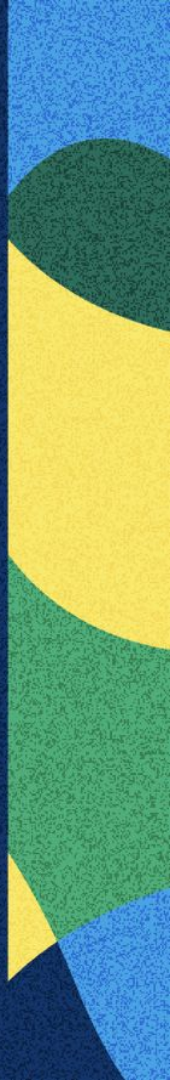
Rundeck Services Vision

Develop technological capabilities that create value for our customers seeking to manage infrastructure and DevOps solutions....Solidify open-source position with Rundeck by making job execution and runbook processes available to the right people at the right time.



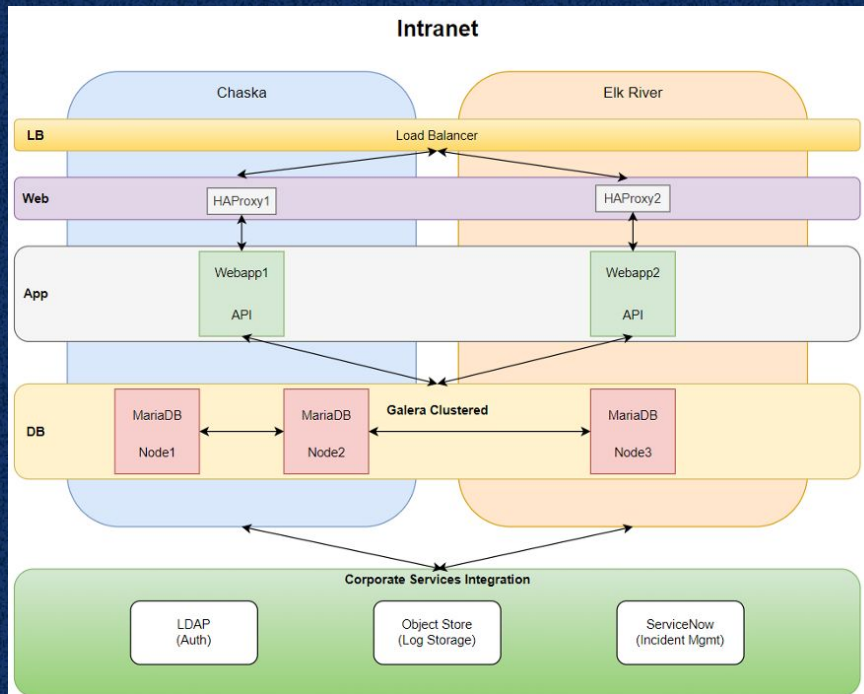
What is Rundeck

- Rundeck is a Runbook Automation / Orchestration engine that manages job automation and executes workloads on Windows and Linux based nodes. The platform is hosted internally on Optum Cloud (NGIS) infrastructure
- Rundeck is a platform which provides the ability to:
 - Centralize scheduled work by using a central interface to control when and where jobs will run
 - Give anyone self-service access to the operations capabilities that previously only your subject matter experts could perform.
 - Leverage any scripting languages or tools you want to use from one central interface
 - Manage job automation from legacy to cloud services
 - Curate and publish automation workflows and is pluggable into existing ecosystem
 - Push job execution closer to users by providing limited access to users to run specific jobs
- Common uses of Rundeck include:
 - Operations Support: Automate Incident Response, Security and Compliance
 - Self Service Operations: Automate Service Requests
 - Deployment Automation
 - Big Data and ETL



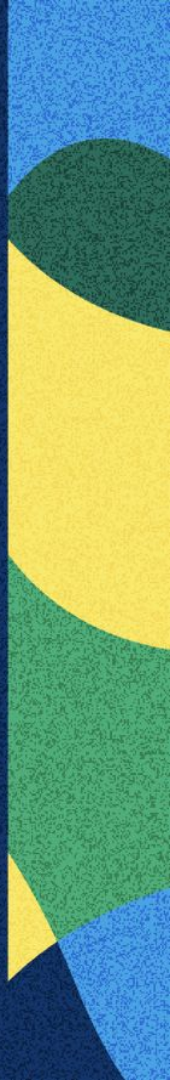
Rundeck Architecture

Rundeck is deployed as a traditional 3-tier application stack. Each Rundeck environment is fronted by a single Web Server, 2 clustered active-standby application nodes and 3 back-end database nodes (MariaDB, Galera clustered).



Our journey with Rundeck

- First standardized on Rundeck Pro in 2016
- Implemented with SaaS in-mind, with expected high-scale operations. Now....
 - 60+ Tenants
 - 11,000+ jobs
 - ~14,000 daily executions
- Common uses of Rundeck include:
 - Operations Support: Patching, Security and Compliance
 - Self Service Operations: Provisioning, Bootstrapping
 - Deployment Automation: Support CI/CD workflows
- Big Data and ETL job exec (Talend, KNIME, etc)
- Added Rundeck OSS offering in 2021
 - Cater to cost-conscious Organizations
 - Internal paradigm shift to begin standardizing on Open-Source solutions
- **Exclusively operating on Rundeck OSS as of late 2024**



Commitment to evolving Open-Source solutions

- Full scale staffing to support Open-Source SLDC
 - Business Analysts/Product Management: Requirements gathering, prioritization
 - Software Engineers: Enhancements, fixes, vulnerability remediation
 - Quality Engineers: Develop robust automated test plans, ensuring maximum code coverage when consuming open-source releases
- Contribute back to the open-source project!
- Coordinate with OSS PM's and ensure relevant efforts make their way back to the main line... both fixes and enhancements

Strength in Numbers!



Q & A

Thank You!

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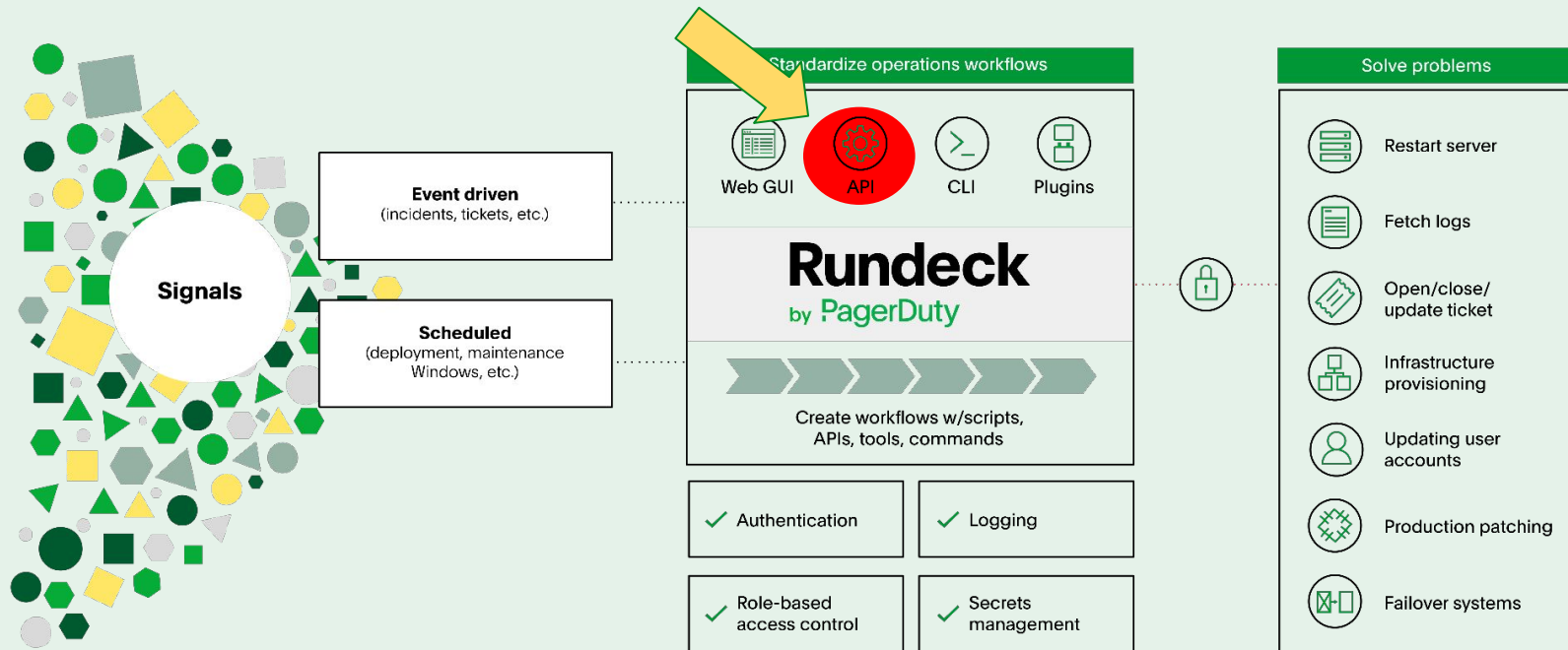
Self-Service Automation with Rundeck

Martin Van Son, Automation Specialist at PagerDuty

Platform engineering is a rising trend focused on enabling developers through internal self-service portals that streamline access to infrastructure, automation, and tools—boosting productivity while reducing operational bottlenecks.



API



Rundeck API

- **Trigger Jobs with One Simple Call**

Use a basic **POST** command to start an existing runbook — like pushing a button that kicks off a full process behind the scenes.

- **Send Custom Input to Your Runbook**

Include details (like server/host names) in your API call so the runbook knows exactly what to work on. (Webhooks in the free version are limited and not meant for complex input)

- **Get Live Updates or Results Back**

After starting a runbook, ask Rundeck what's happening or what the outcome was — like checking the status of your job.

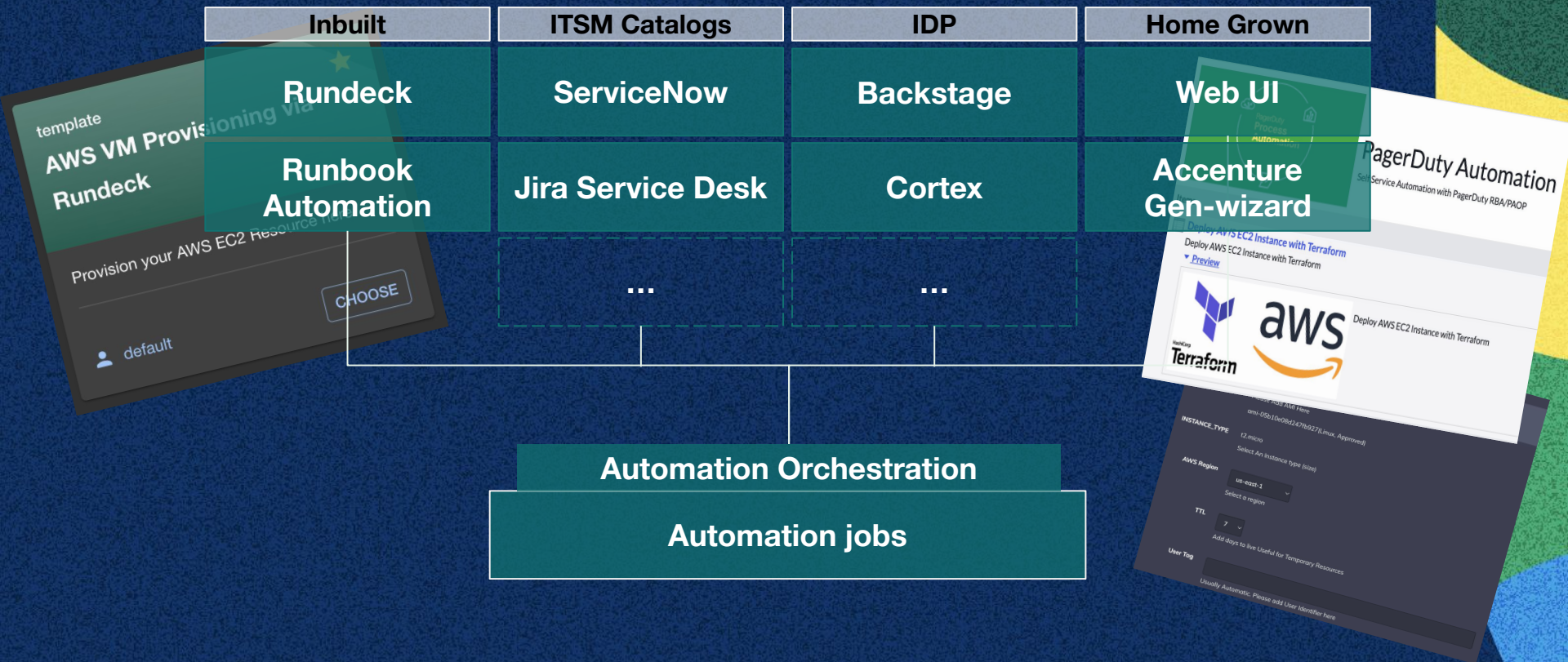
- **Embed Rundeck into Other Tools**

Connect Rundeck to your own app or portal — users never have to leave your tool, but Rundeck still handles the work in the background.

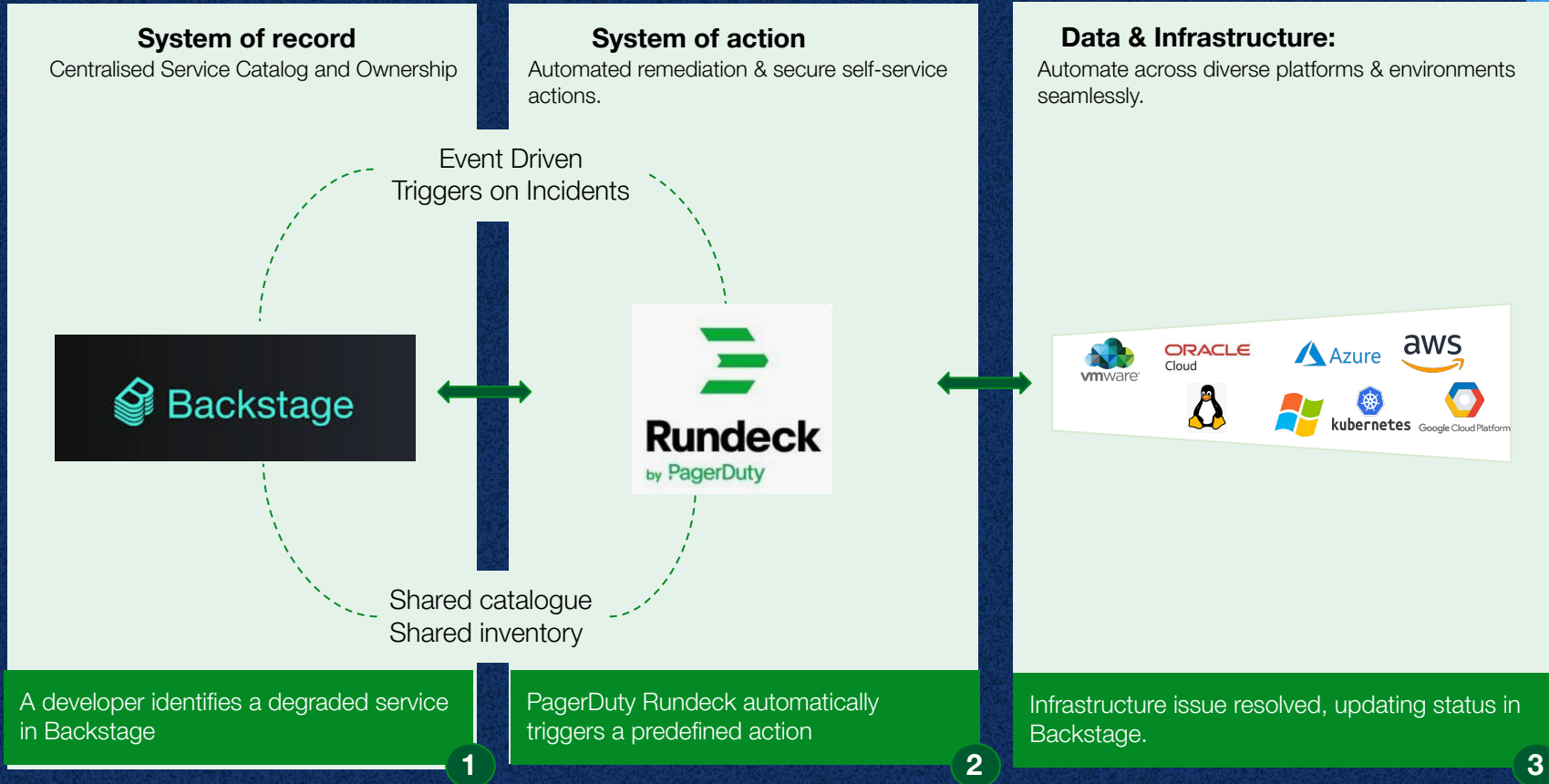
- **Build a Custom Dashboard or Front End**

With the API, you can design your own interface — tailor-made for your users — while Rundeck does the heavy lifting underneath.

Rundeck ❤️'s self service

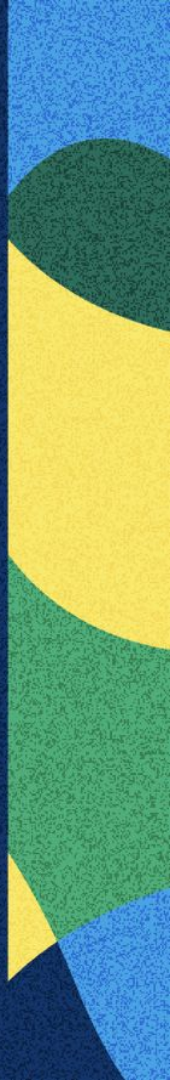


Backstage & Runbook Automation



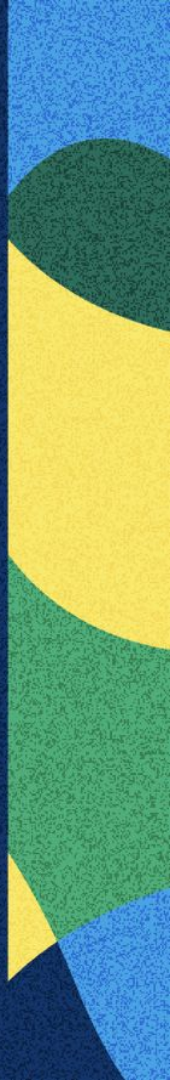
Backstage + Runbook Automation

1. **Developed by Spotify:** Backstage was initially developed by Spotify to solve its internal infrastructure complexity and later open-sourced for use by other organizations.
2. **Plugin Architecture:** It's built on a plugin architecture, allowing users to add or develop custom features for their specific needs. This modularity makes it highly extensible and customizable.
3. **Software Catalog:** One of the core features of Backstage is the Software Catalog, which helps teams organize and manage their services, APIs, libraries, and other components in a single, centralized place.
4. **Unified Developer Experience:** Backstage focuses on improving the developer experience by offering a unified interface where teams can access all tools and documentation needed for development, which increases productivity.
5. **Open Source and Community Driven:** Backstage is open-source, supported by a growing community of contributors, and governed by the Cloud Native Computing Foundation (CNCF). This ensures ongoing development, support, and widespread adoption.



Takeaways

- Rundeck has always been about self service,scheduled and event driven automation
- You can use Rundeck in other creative ways to extend other platforms
- Use the Rundeck API documentation:
<https://docs.rundeck.com/docs/api/>
- Enterprise tools ensure scale,security and support





Thanks for your participation!
See you in the next meetup.



community.pagerduty.com