



How Intuit Manages Cloud Resources via GitOps

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BUILDING FOR THE ROAD AHEAD

DETROIT 2022

October 24-28, 2022



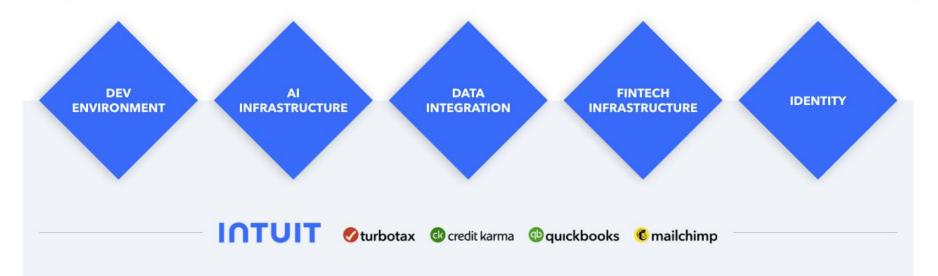
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Principal Software
Engineer
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Senior Software
Engineer
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Who Are We - Intuit





100%

services on modern SaaS 58**B**

machine learning predictions per day

24k

financial institutions [+50 crypto] \$465B

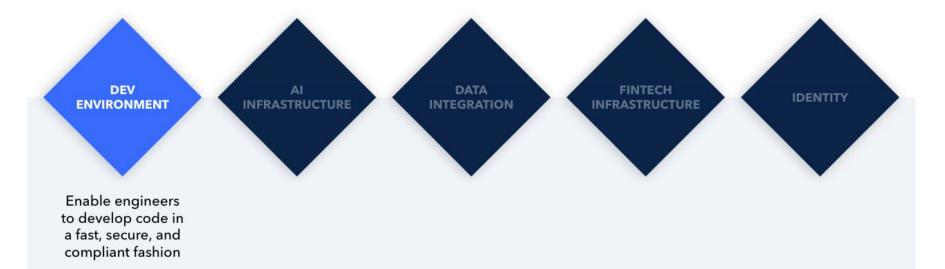
money moved

3.6B requests during peak season

peak season (no customer failures)

Who Are We - Intuit





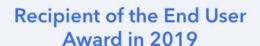
~1 M active CPU cores

6x increase in development productivity since 2019 2k+ services

900+ teams 16k+ namespaces 6k+ developers 16M+ AlOps Inference/day

Open Source & Open Collaboration







End user of Cloud Native and mobile open source tech











Created, open-sourced, used, and maintained by Intuit











Agenda



- 1. Journey
- 2. Landscape
- 3. Problem
- 4. Solution
- 5. Demo
- 6. Q&A

Journey





Landscape

























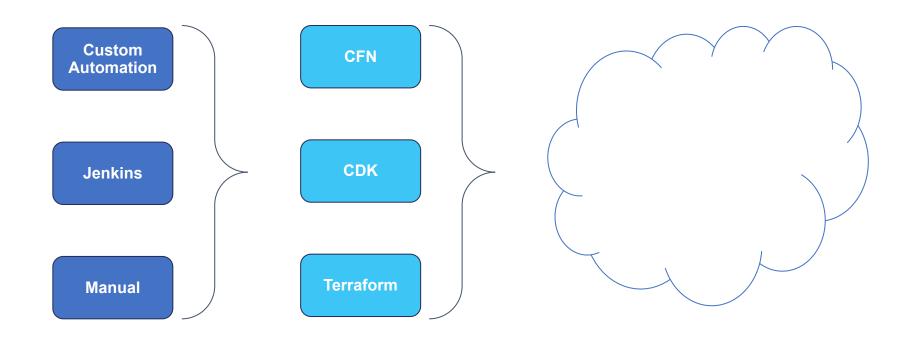
Supporting Resources

Non Container

Legacy

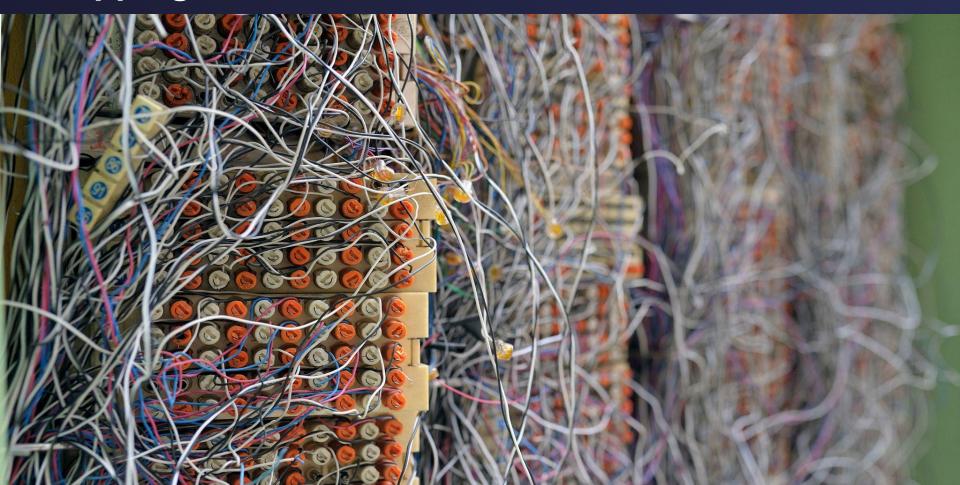
Problem





Stepping into Chaos





Principles



- 1. Align with existing standards
- 2. Develop as open source where possible
- 3. Cloud Agnostic
- 4. Infrastructure as code with GitOps
- 5. Isolation from cloud environment

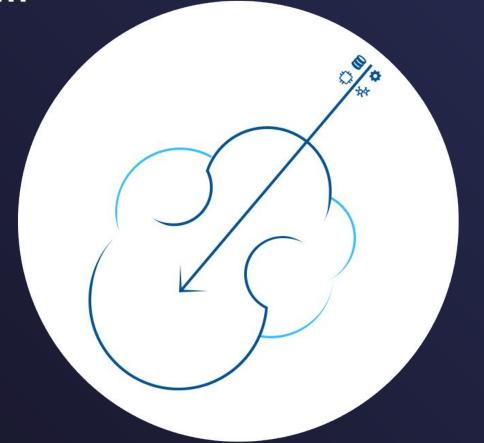
What is Missing?



- 1. Align with existing standards
- 2. Develop as open source where possible
- 3. Cloud Agnostic
- 4. Infrastructure as code with GitOps
- 5. Isolation from cloud environment

Introducing...

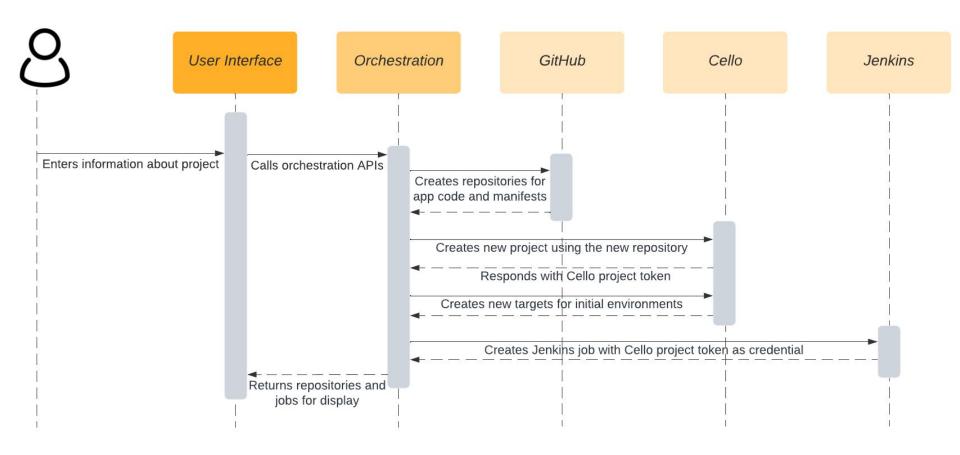






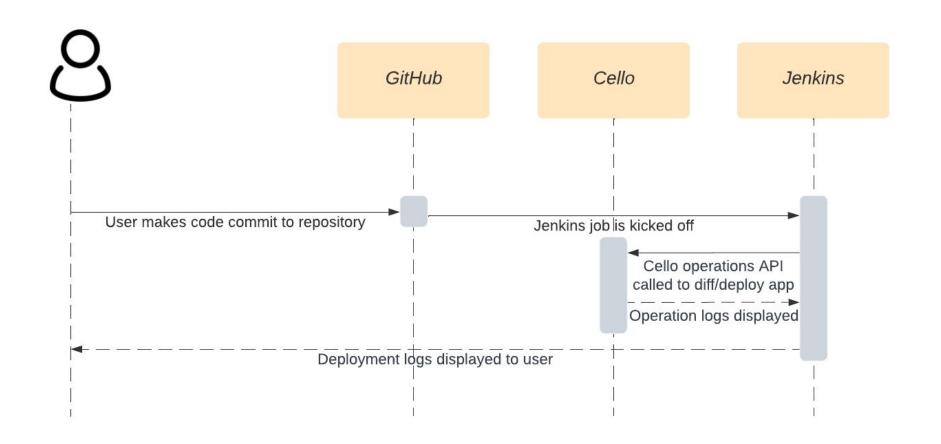
New Project Onboarding



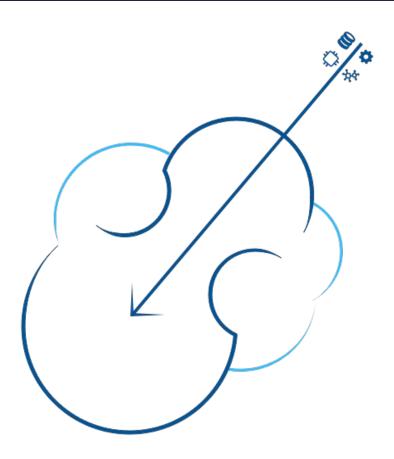


Developer Day to Day





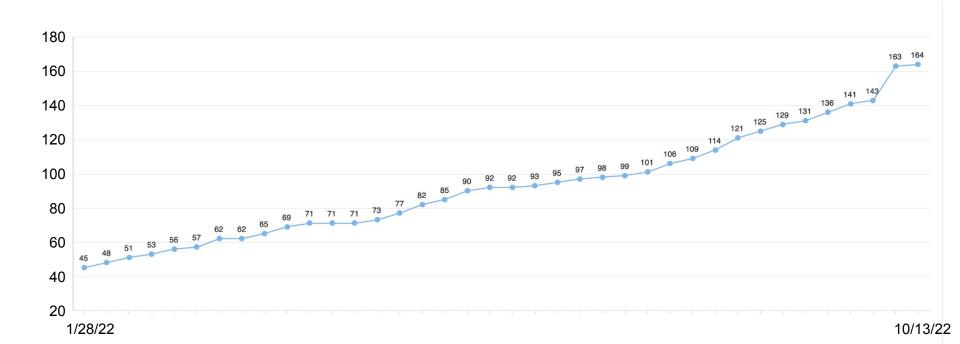




Adoption



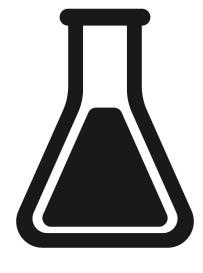
- Over 1000 projects using Cello for cloud deployments
- Over 150+ projects deploying cloud resources to production



What is Next?



- Credential provider abstraction
- Multi-Cloud
- User Interface



Come try out Cello!









Please scan the QR Code above to leave feedback on this session



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Reference



- github.com/cello-proj/cello
- cello-proj.github.io/cello/
- https://cello-proj.github.io/cello/quickstart/

