



Top CI/CD Patterns for DevOps Teams



Presented by:

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Evangelist / Harness

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Suffered from FoD – Fear of Deploying

Believer of Patterns



MESOSPHERE



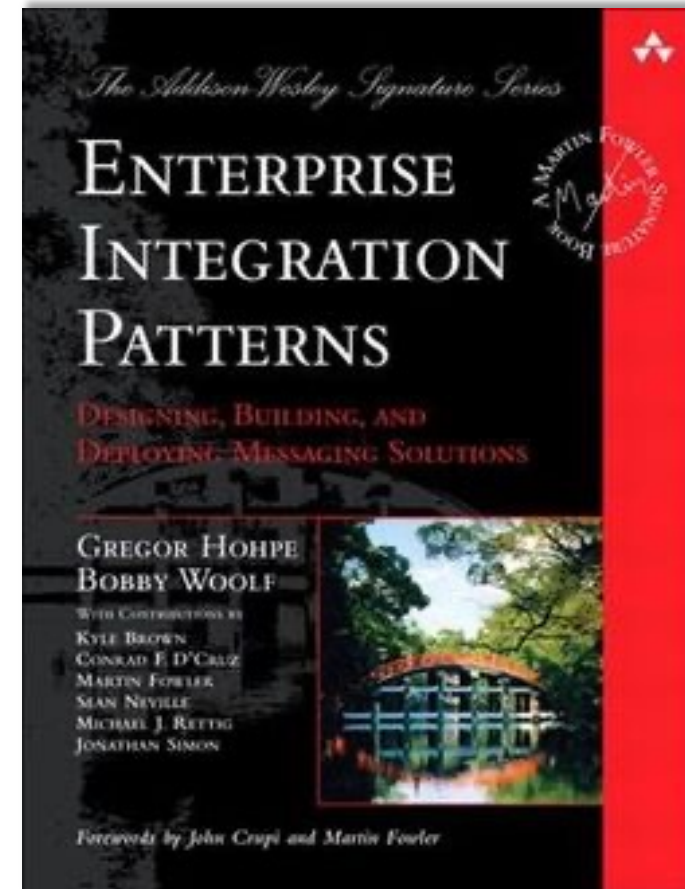
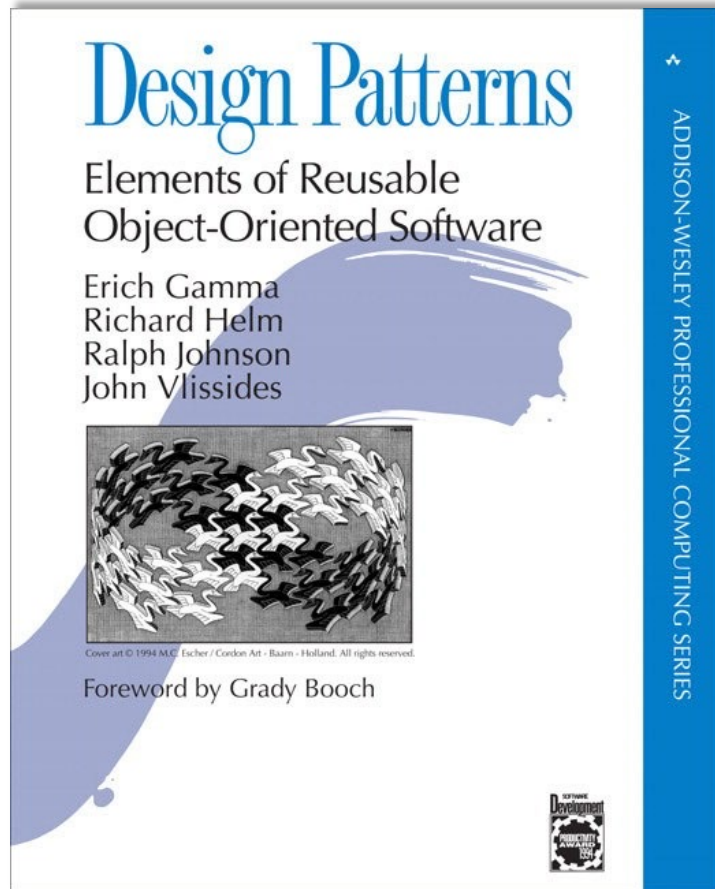
What are we talking about?

- Why the Need for Patterns
- Common CI/CD Patterns
- Antipatterns to Avoid

Why Patterns?



Software is About Patterns



Time For a New Job!



How To Grow Your Career



[WineForPets.com](https://www.wineforpets.com)

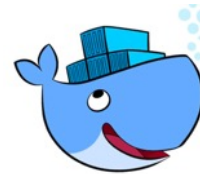


Bulge Bracket Bank

Come Work For Us, Developer!



Looking For Devs with:



Software Engineering of Days Gone By



Software Engineering Today



Who Owns the Deployment? – Conway's Law



System Engineer?



DevOps Engineer?



Developer?

WANTED

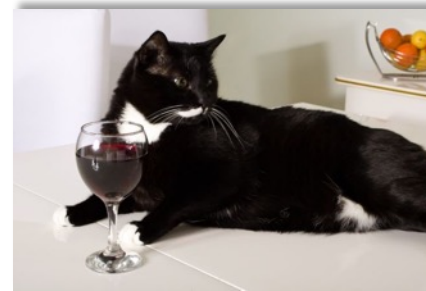


Release Engineer?

Who is Going to Be Deploying?

Not You

You



Common CI/CD Patterns



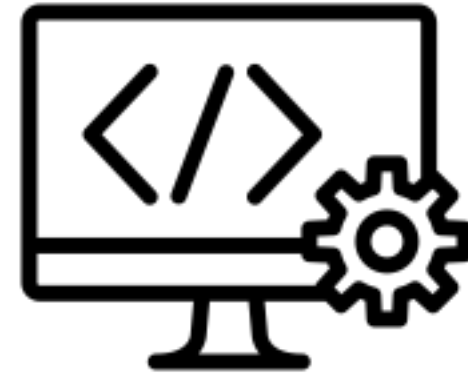
Drivers of Pipelines



Environments



Tests

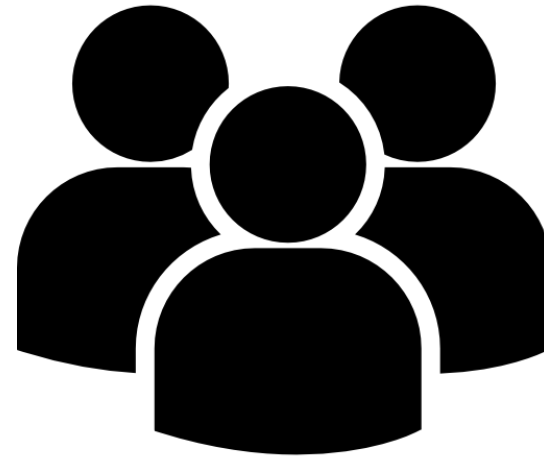


Services

Drivers of Pipelines - Continued



Outcomes



People

Scoring



Agility



Complexity of Pipeline



Administration



Risk of Change Failure

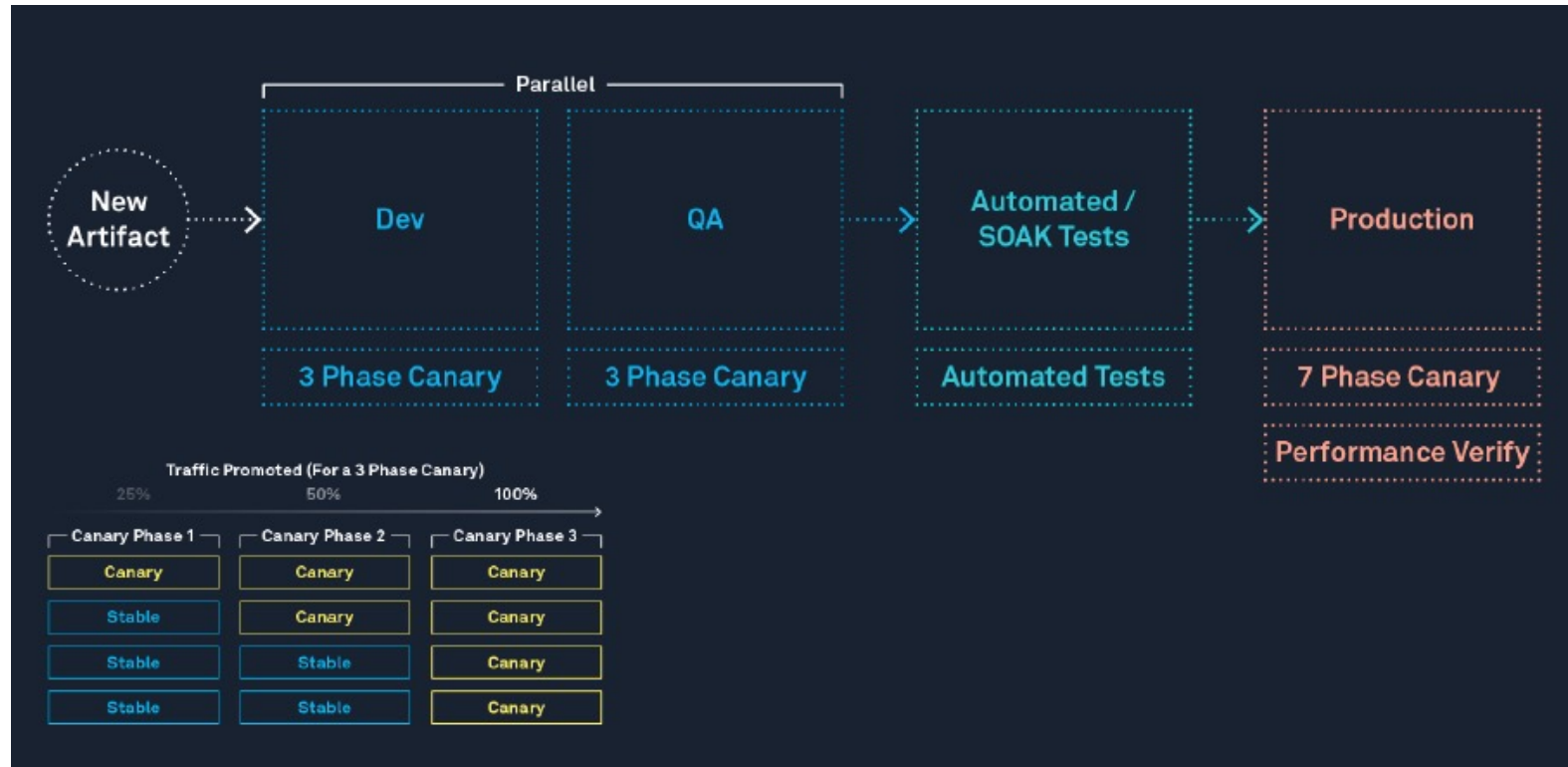
Outcome Centric Pattern

Agility: High

Complexity of Pipeline: Low

Administration: Medium

Risk of Change Failure: Low



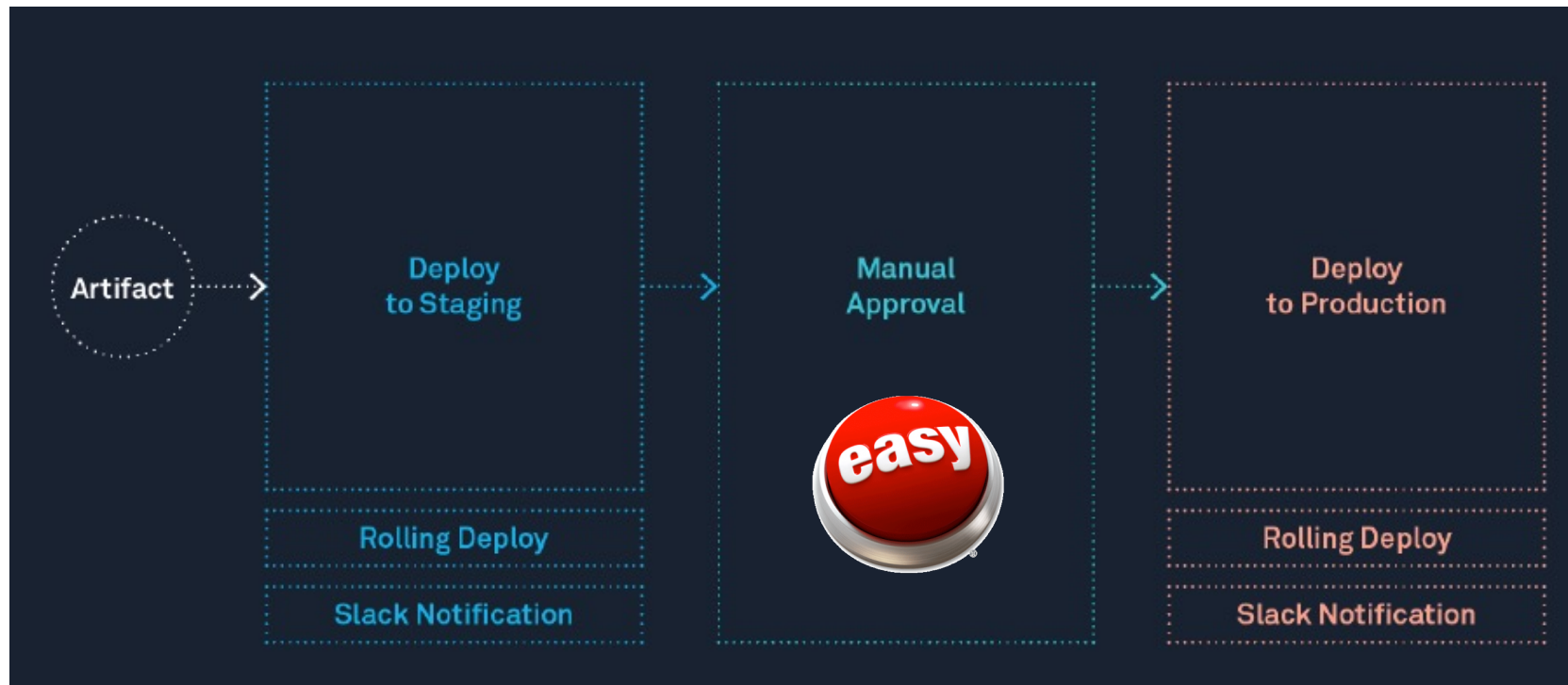
Button Push Pattern

Agility: Low to Medium

Complexity of Pipeline: Low to Medium

Administration: Low

Risk of Change Failure: Low to Medium



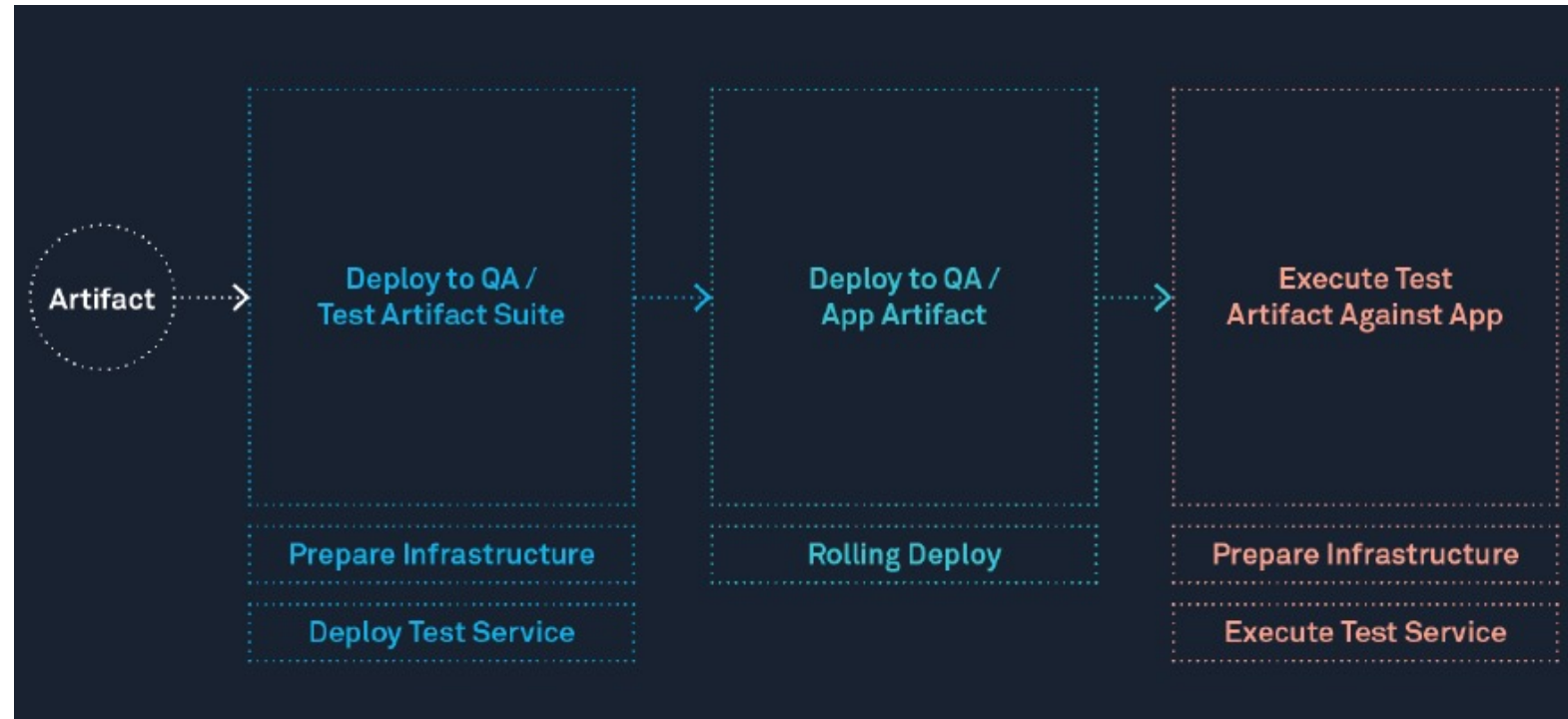
Test Automation Pattern

Agility: Medium

Complexity of Pipeline: Medium

Administration: Low

Risk of Change Failure: Low



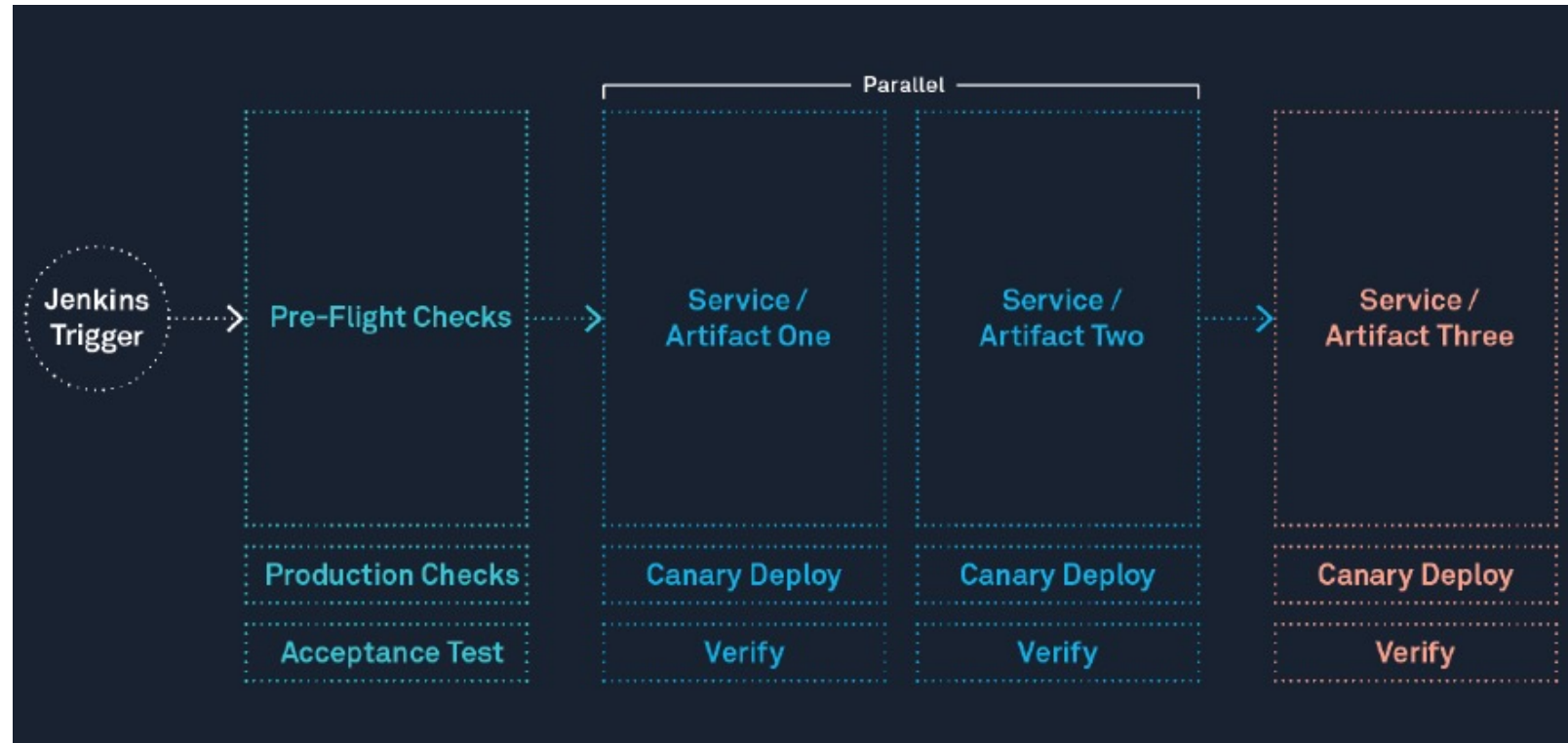
Multiservice Pattern

Agility: Medium to High

Complexity of Pipeline: Medium

Administration: Medium


Risk of Change Failure: Low to Medium




Antipattern(s)



Approval Centric

 **Ravi Lachhman** 12:51 PM
@Skye can you approve this please? <https://harness.atlassian.net/browse/HD-20243>

 **Skye** 1:00 PM
no

 **Ravi Lachhman** 1:00 PM
Please?

 **Skye** 1:01 PM
nope, next time keep your time in AWS down 🙄🙄

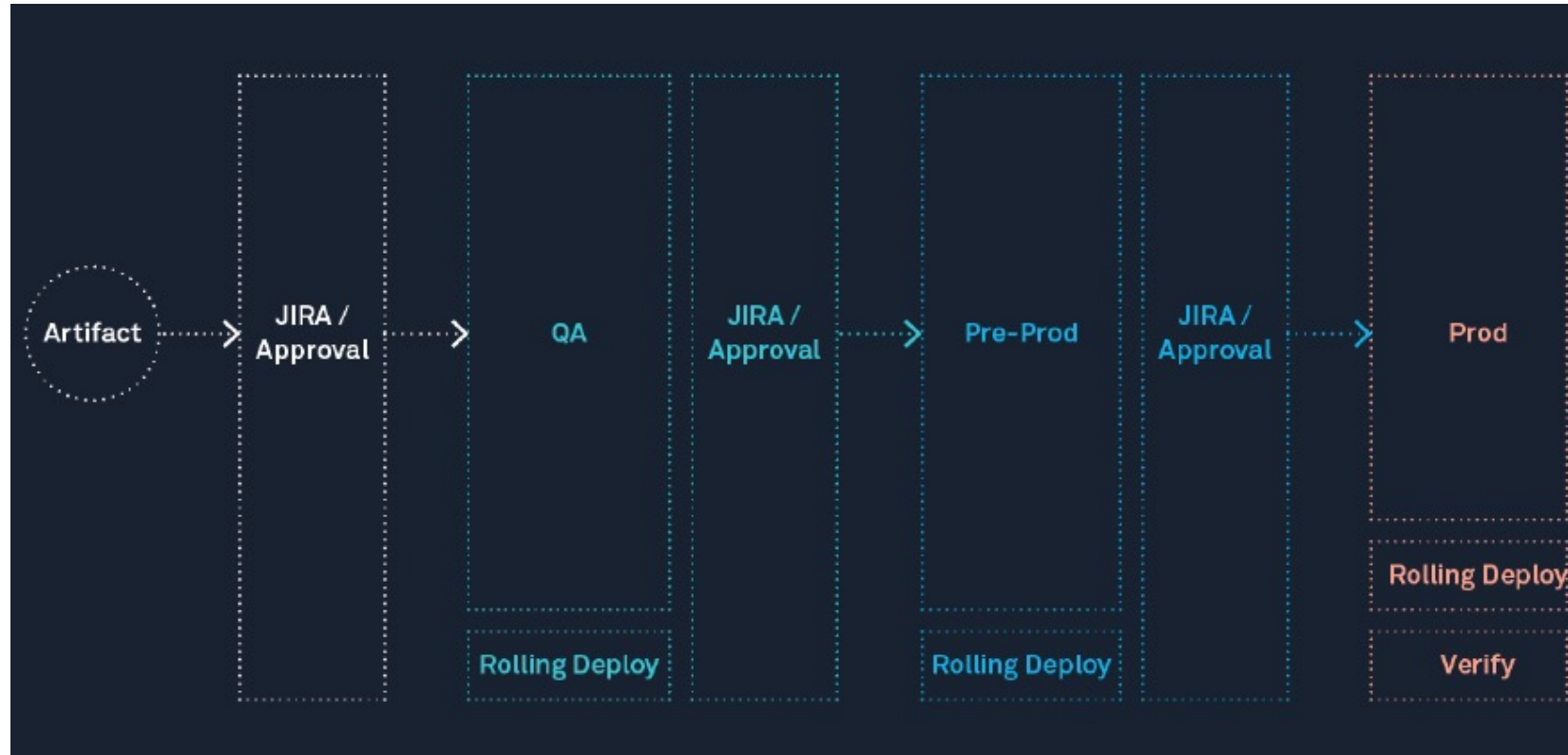
Full Approval Pattern

Agility: Low

Complexity of Pipeline: Medium

Administration: High

Risk of Change Failure: Low



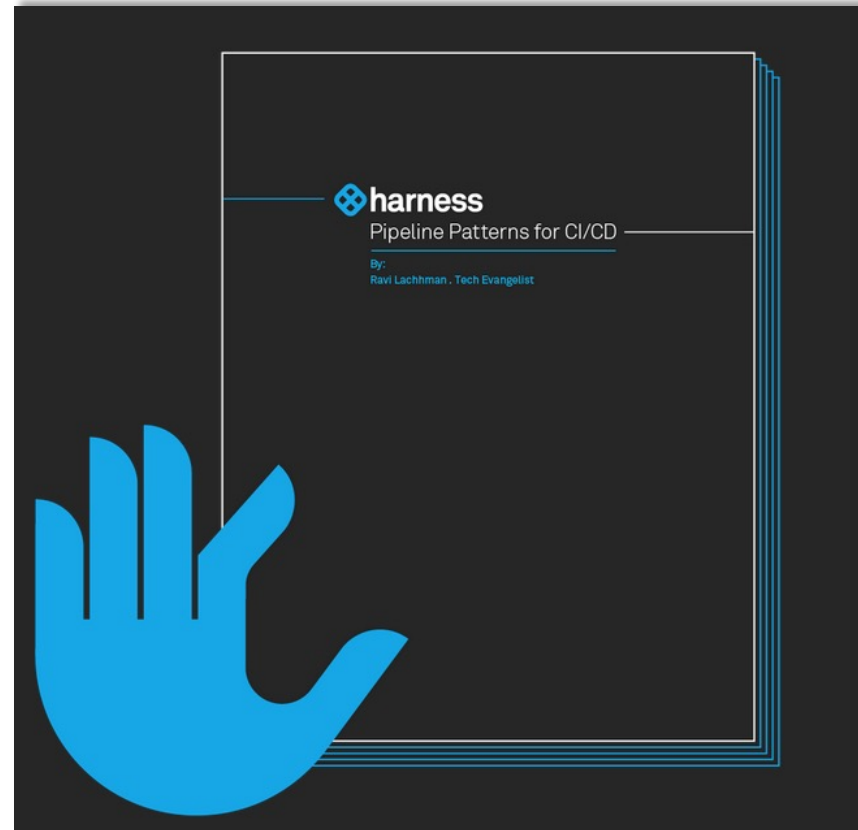
Learn More!



All and More in Harness

The screenshot displays the Harness CI/CD console interface. At the top, the breadcrumb navigation shows 'Rohan Product Team - CD / Pipelines / Retail Production Pipeline / Execution'. The main title is 'Retail Production Pipeline (Execution ID: 15)', with a status of 'EXPIRED'. The start time is '3/11/2021 12:16:39 PM' and the duration is '11m 59s'. Below the title, there are tabs for 'DEPLOYMENT', 'Services (2) retail, retail', and 'Environments (2) Development, Production'. The 'Pipelines' tab is active, showing a pipeline diagram with three stages: 'Deploy to Dev', 'Deploy to QA', and 'Deploy to Production'. The 'Deploy to Production' stage is selected, and a detailed view of its execution is shown below. This view includes a dropdown menu for 'Deploy_to_Production' and tabs for 'Service', 'Infrastructure', and 'Execution'. The 'Execution' tab is active, showing a diagram with three stages: 'Service', 'Infrastructure', and 'Canary Deploy'. The 'Canary Deploy' stage is highlighted with a dashed blue box, indicating it is the current focus of the execution view.

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