

# Continuous deployment for a billion dollar order system

*Steve Smith*  
*@tarkasteve*





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JIRA

Plan, track, work

Server (you host)

Cloud (we host)

☐ Academic Pricing ?

1. Choose your JIRA user tier

10 users

\$10

▼

2. Choose optional addons

<input type="checkbox"/> JIRA Agile	10 users	\$10	▼
<input type="checkbox"/> JIRA Service Desk	<div>3 agents</div>	\$10	▼
<input type="checkbox"/> Confluence	<div>10 users</div>	\$10	▼
<input type="checkbox"/> Bitbucket	<div>10 users</div>	\$10	▼
<input type="checkbox"/> JIRA Portfolio	10 users	\$10	▼

3. Choose your maintenance period ?

12 months

Included

▼

Leave Feedback









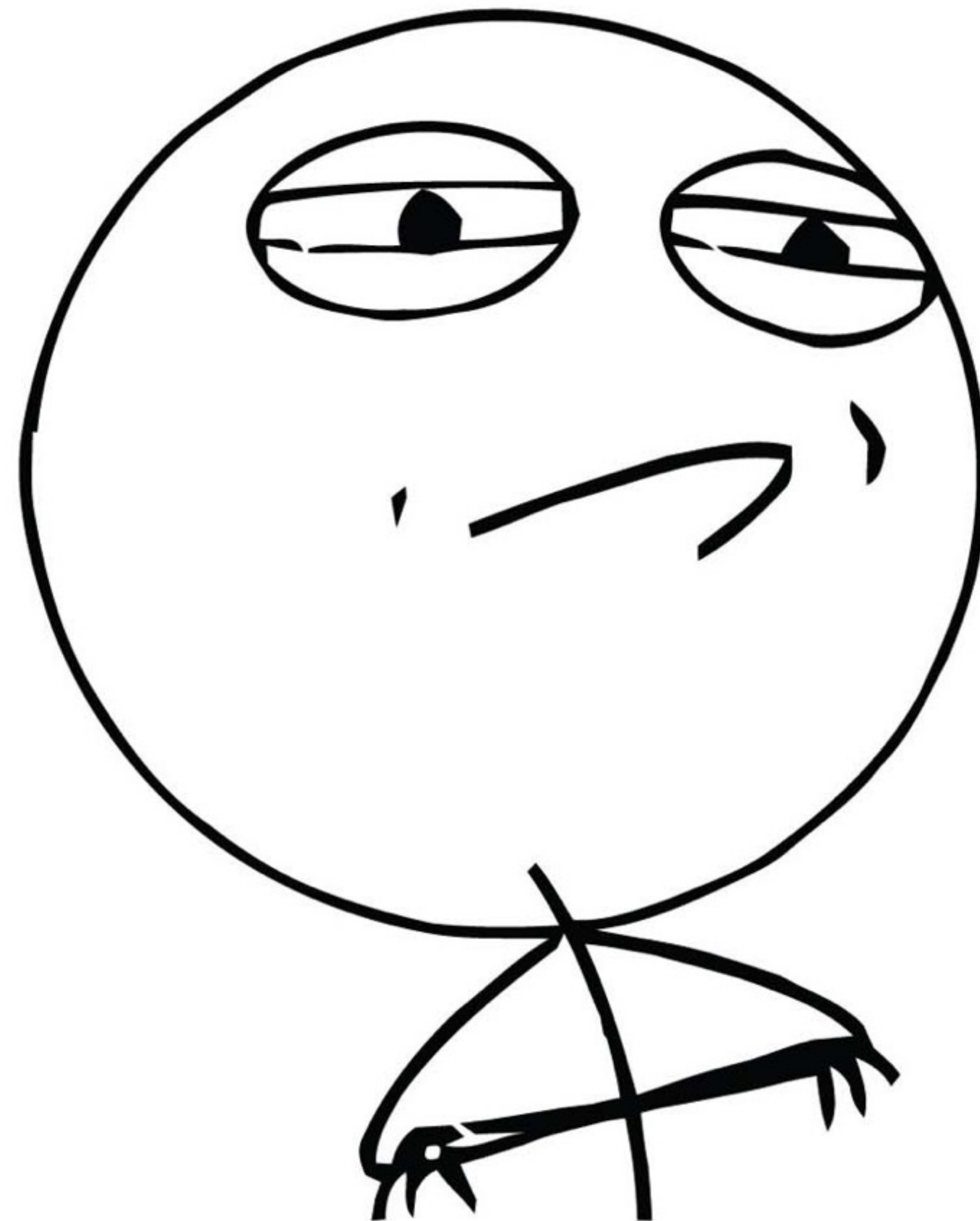






**Continuous?**





**CHALLENGE ACCEPTED**

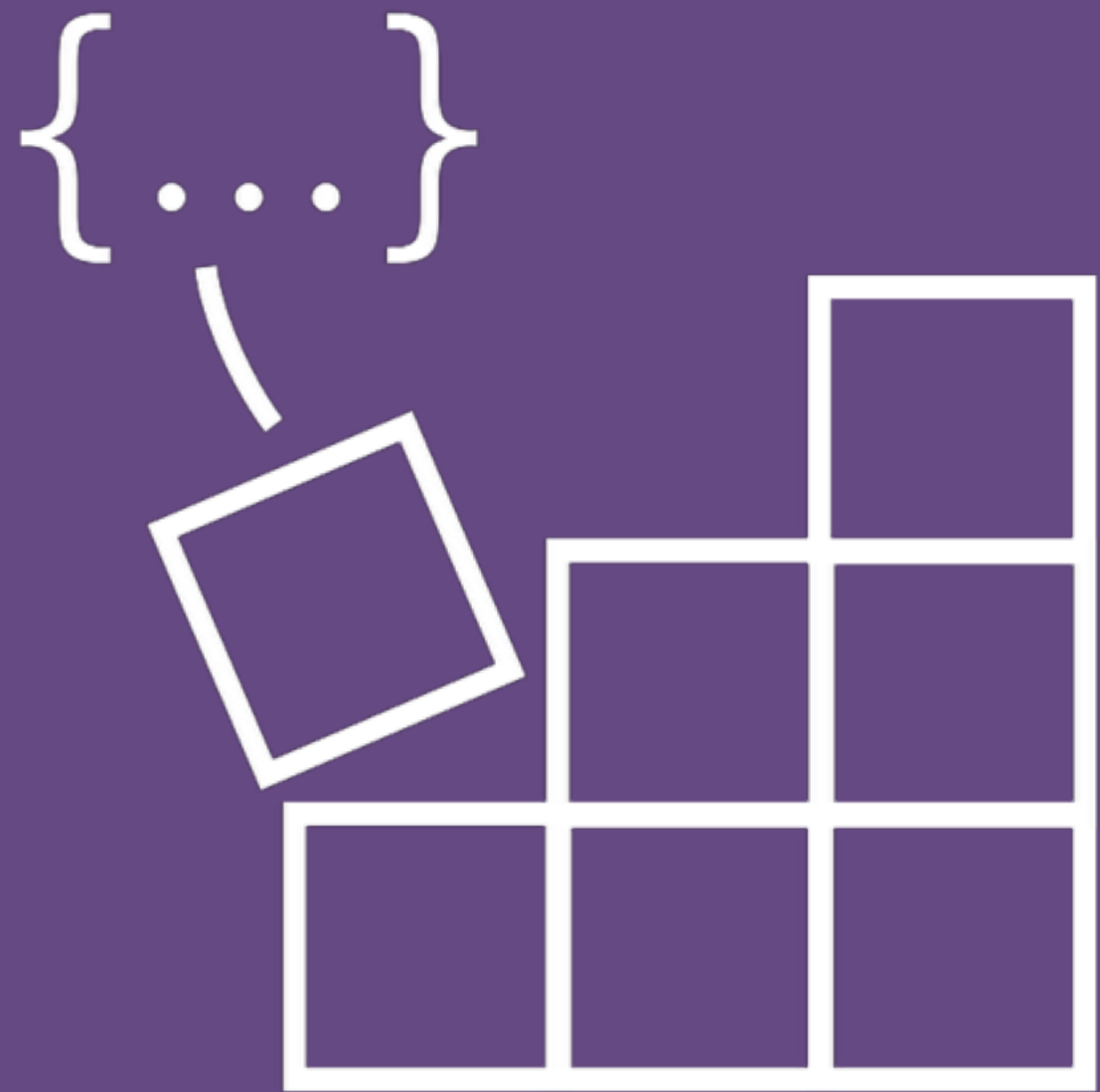






**Continuous Deployment**





# Continuous *Integration*







# Continuous *Delivery*







# Continuous *Deployment*







It's all about  
*Quality*







# Why





**Release features,  
not dumps**



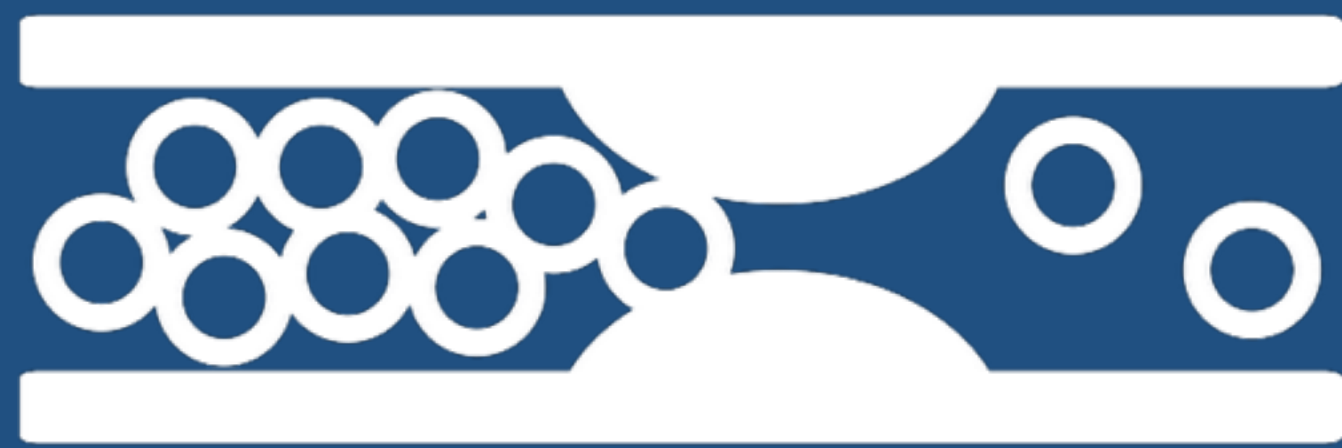




# Automation





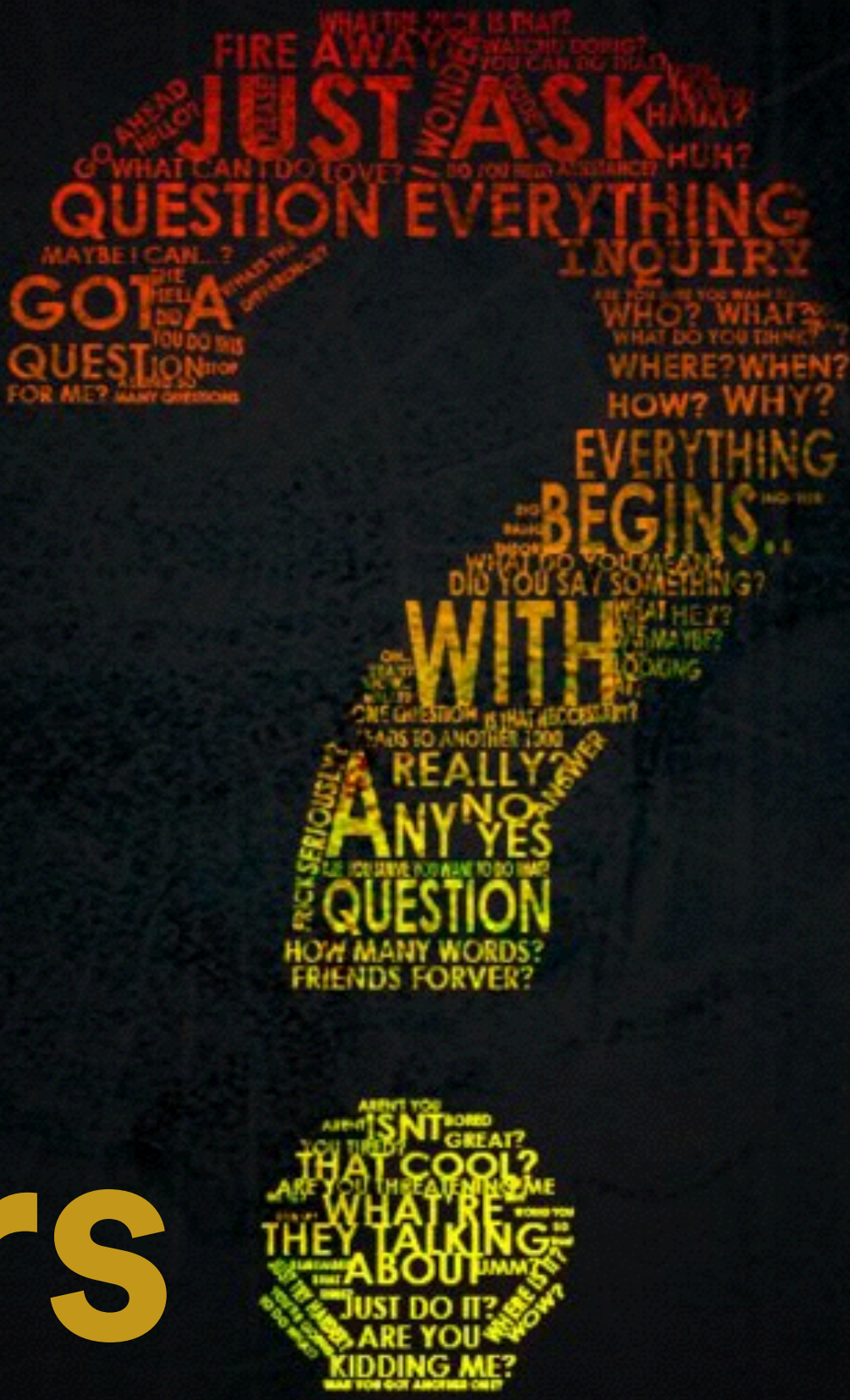


# Remove bottlenecks

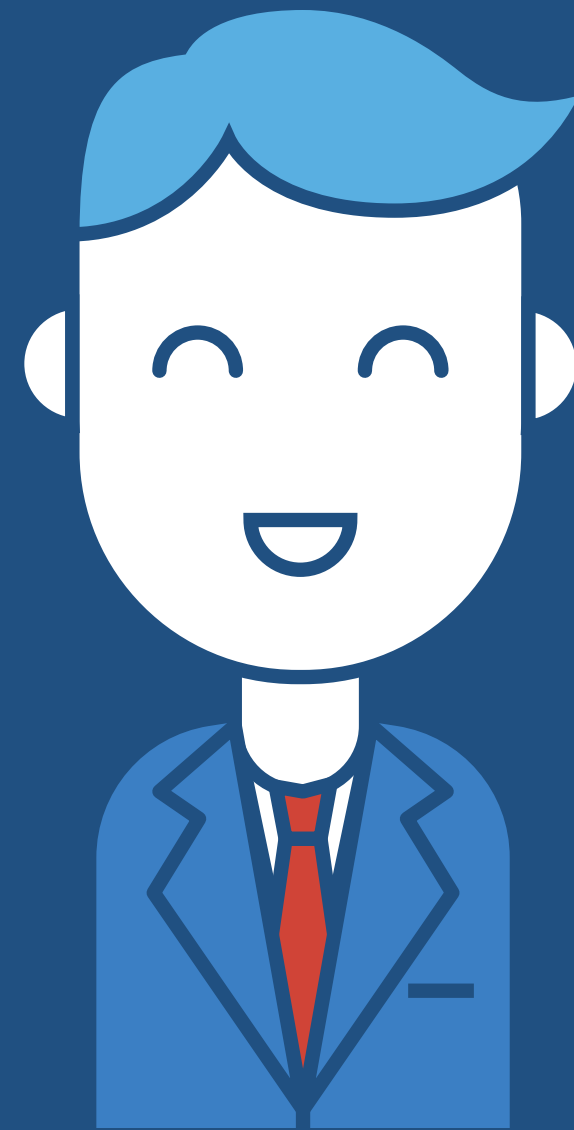




# Stakeholders



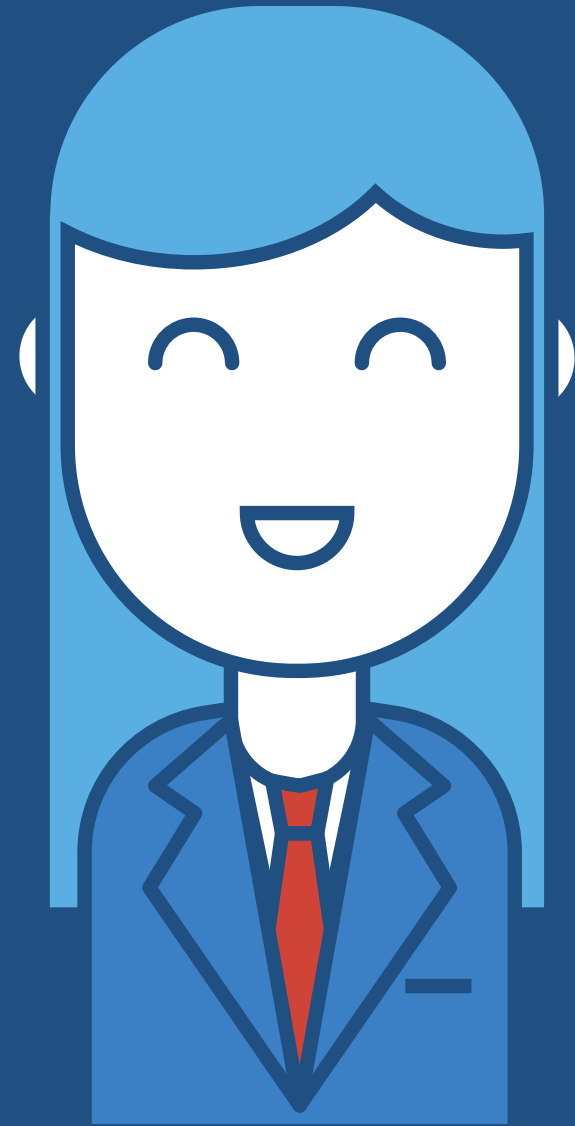




# Users







# Managers







# Developers







# Admins





# How?





# Development workflow

TRACK REQUESTS

BRANCH

CONTINUALLY TEST

PULL REQUEST

DEPLOY (STAGING)

PROMOTE



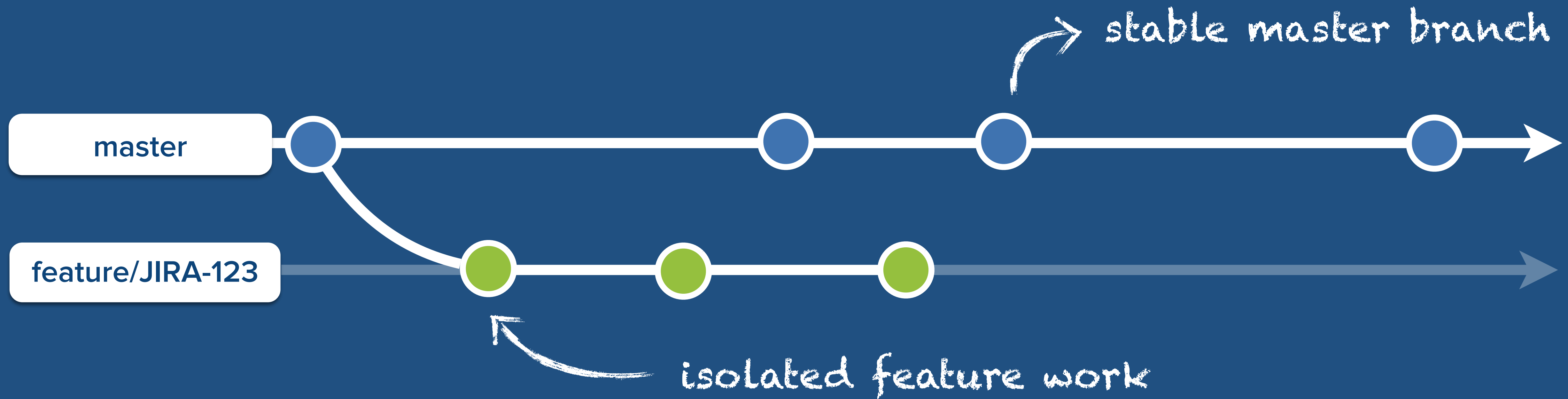


# Track your requests



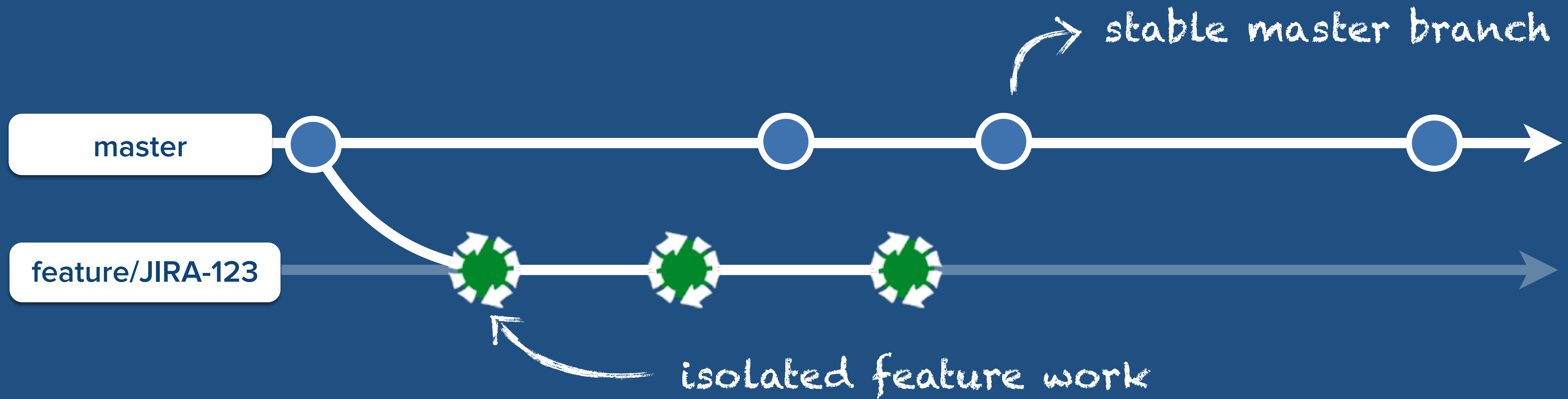


# Work on a branch



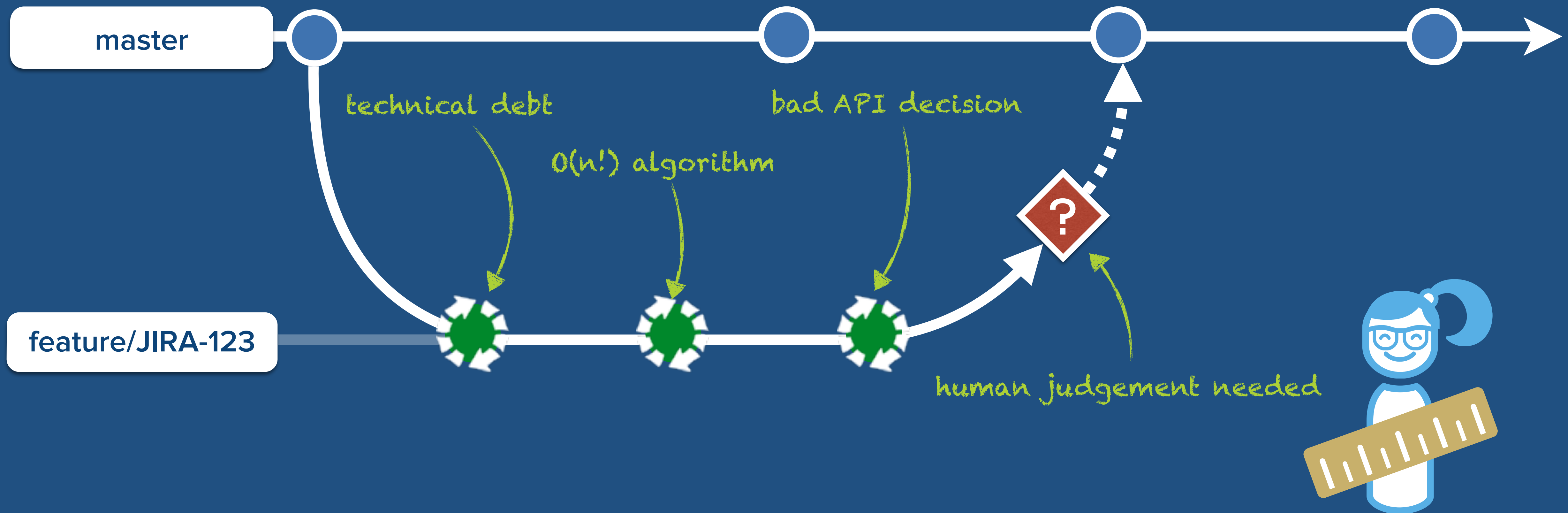


# Continuously test



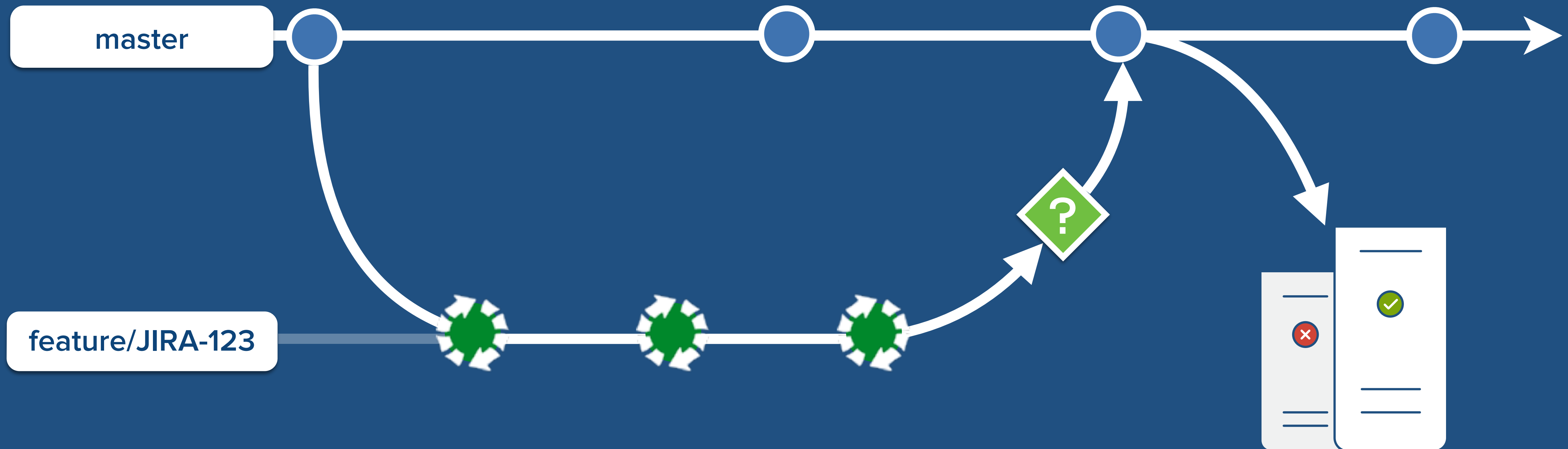


# Pull Request



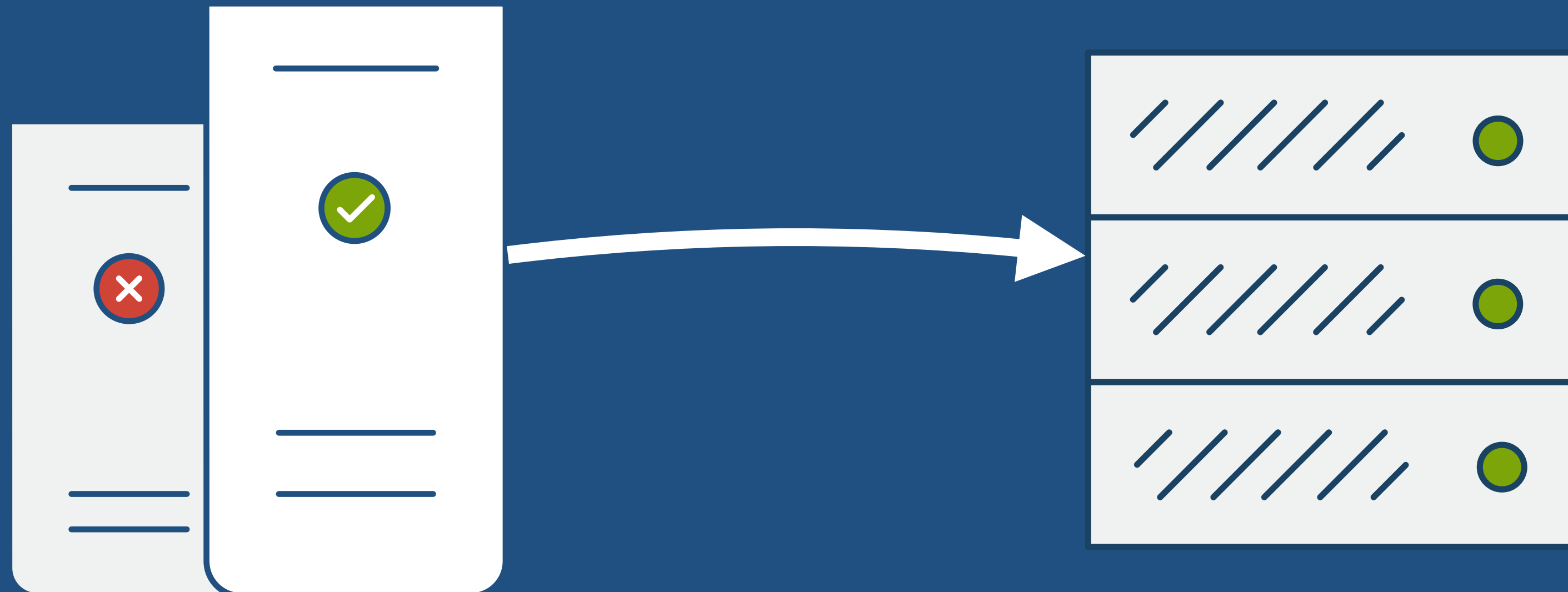


# Merge and Release (staging)

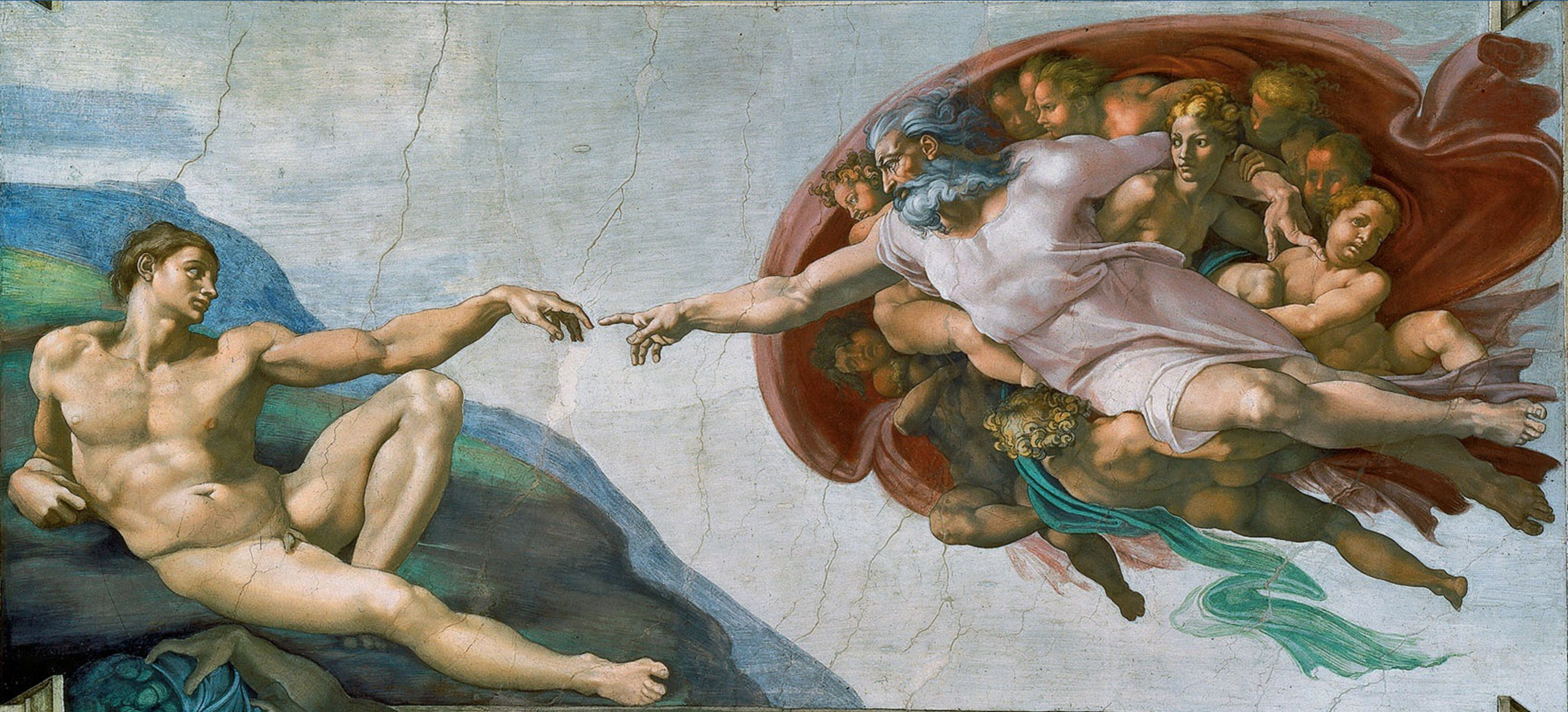




# Promote to production







# Last Mile





**puppet**  
labs



**CHEF**™





# Orchestration Agents





# Common Agents



SALTSTACK

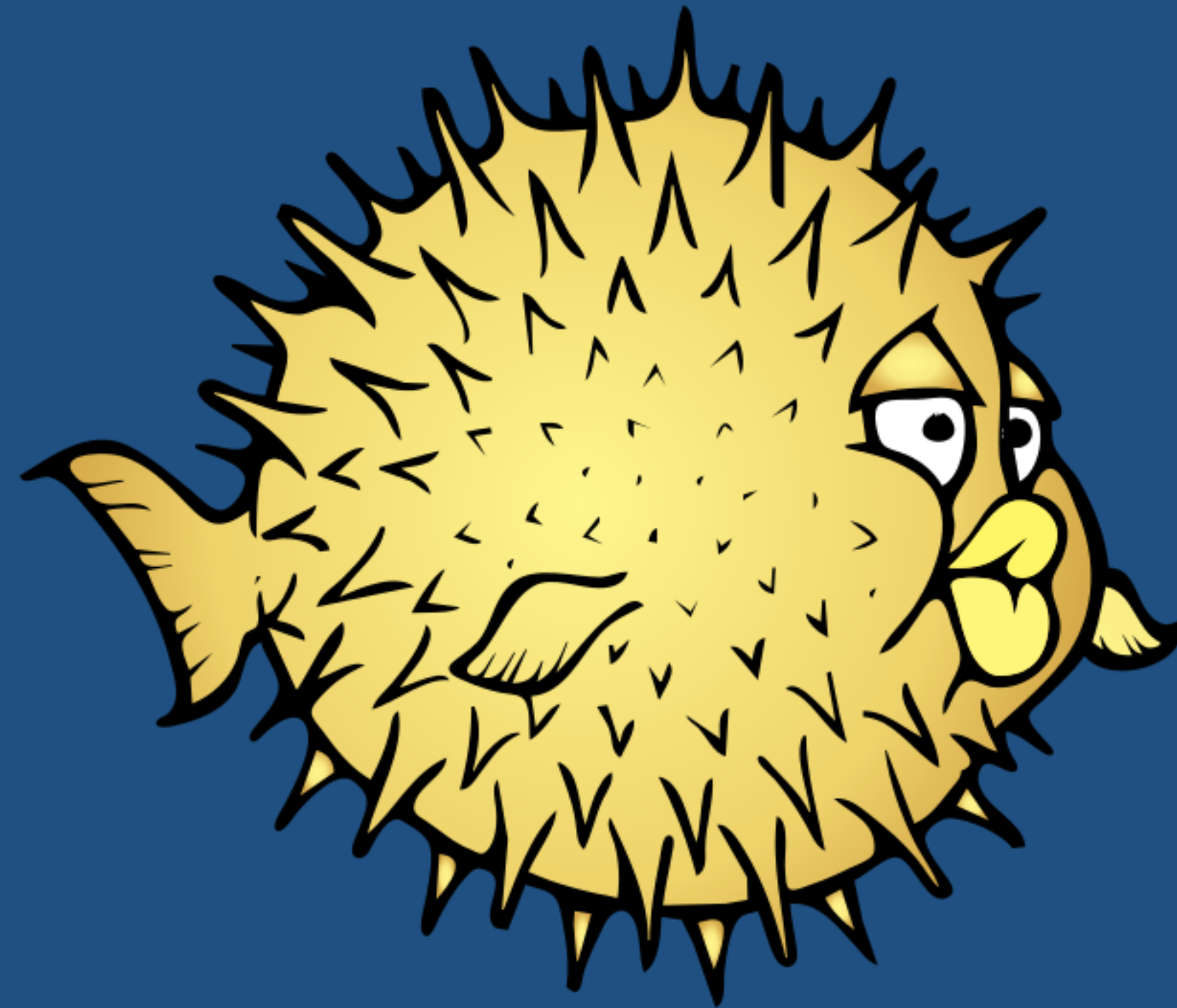


MCollective





# SSH Automation





# SSH Automation



ANSIBLE



Fabric

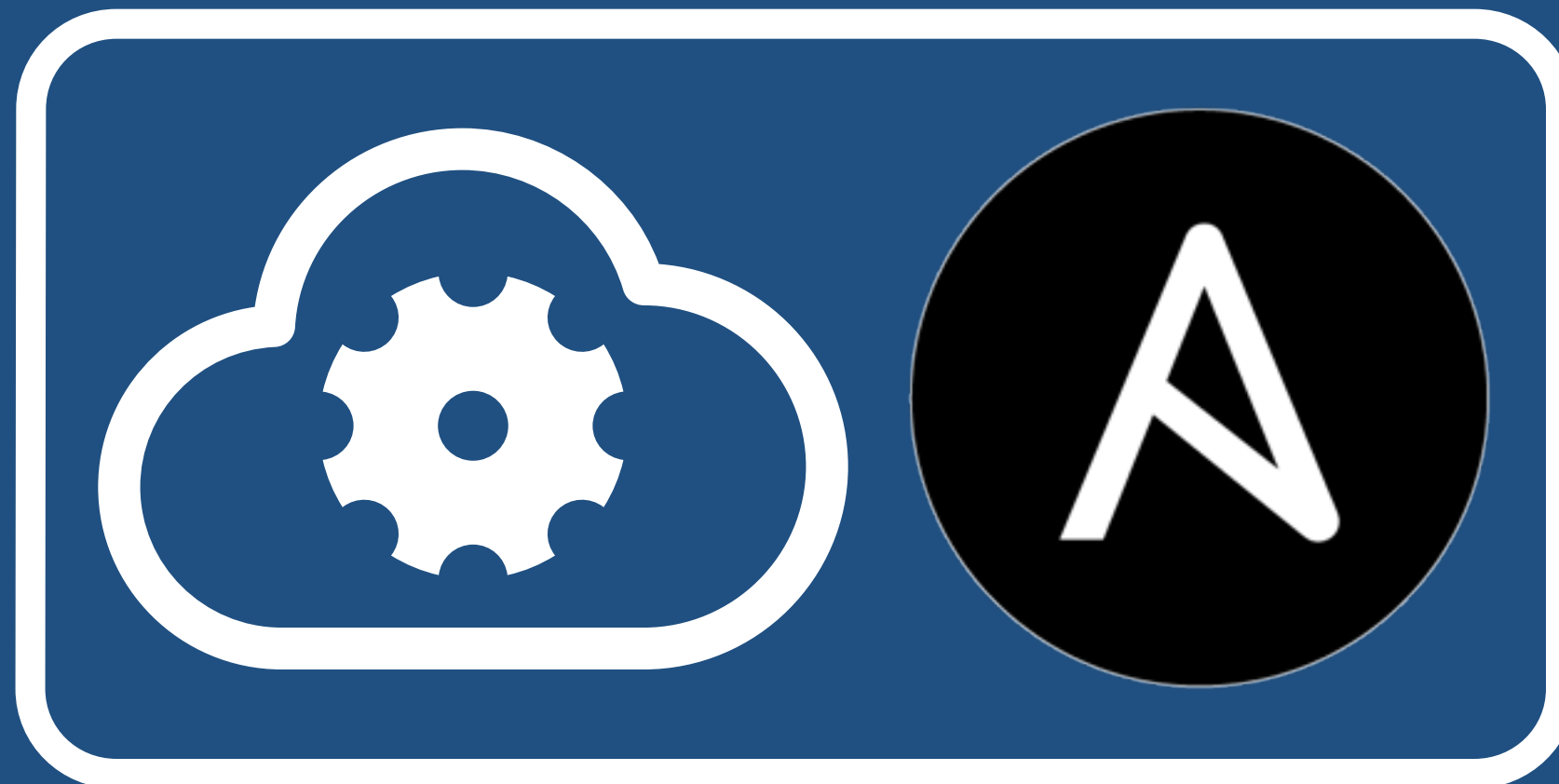


Capistrano

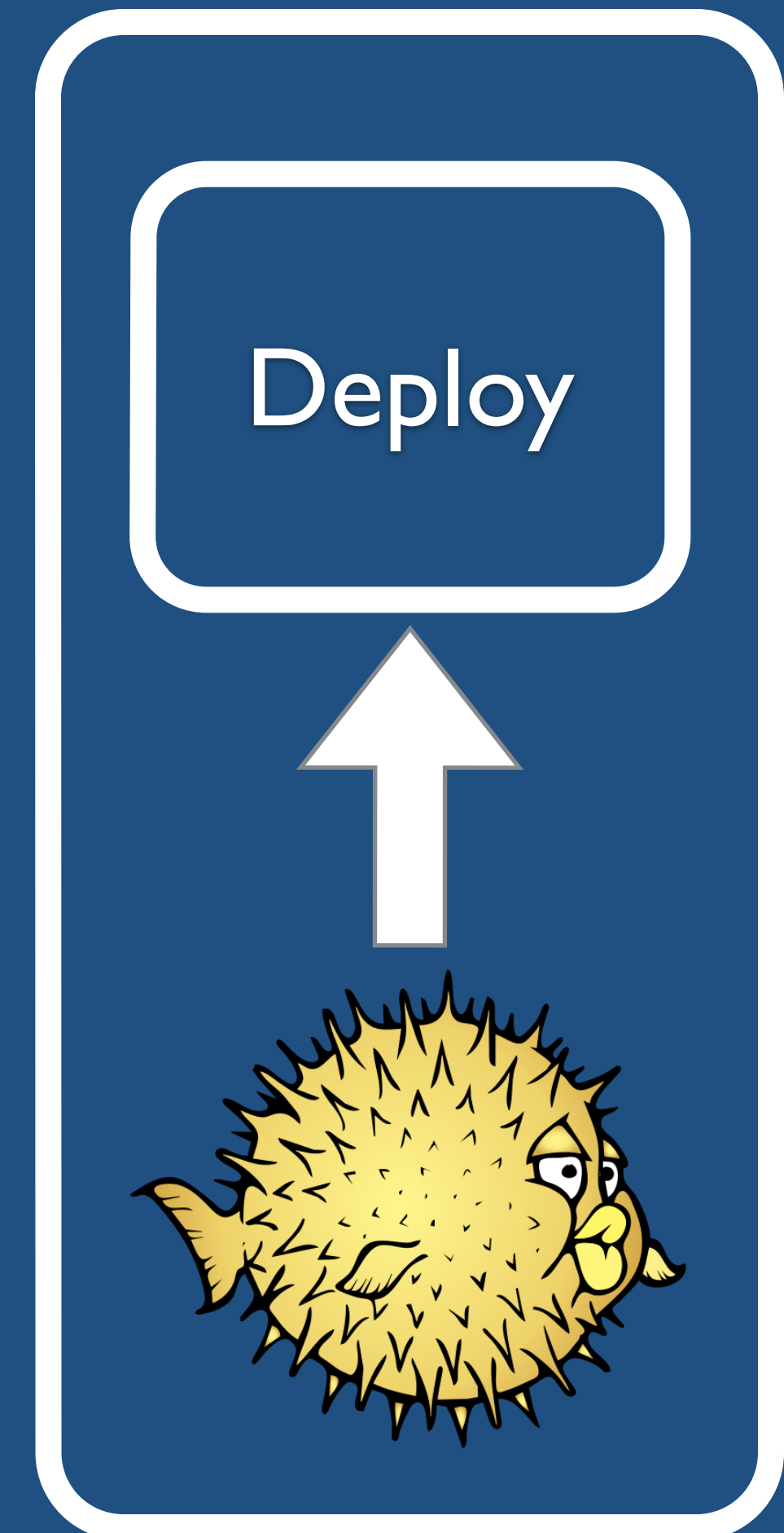




# Our Solution



Server



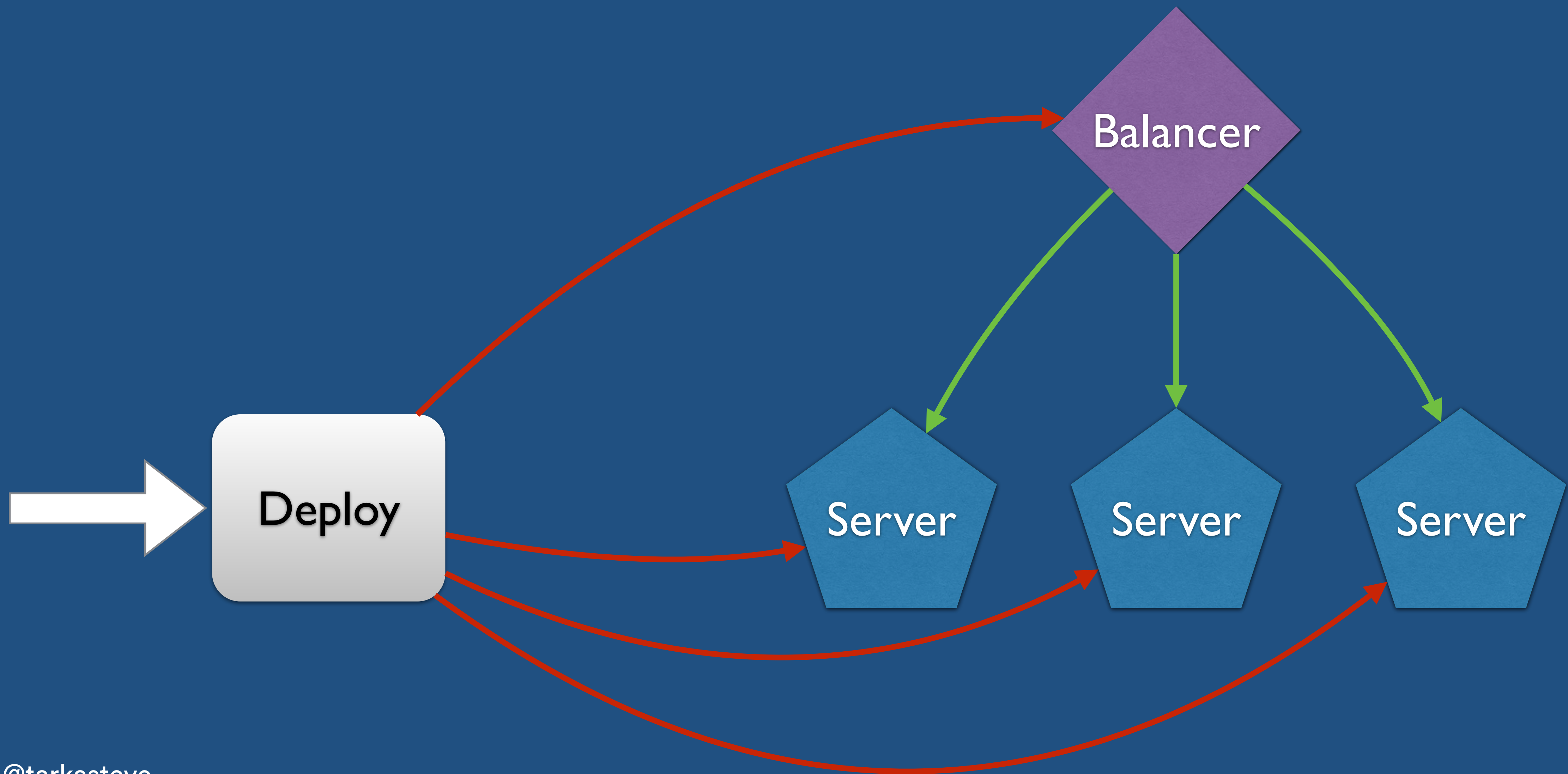


# Continuous Downtime?





# HA





# Management





# Deployment Environments

Bamboo

My Bamboo

Build

Deploy

Reports

AWS Resources

Create

Search

Deployment projects / Deployment For Hal

Configuration: Deployment For Hal

Deployment For Hal

Deploy

Add environment

What you want to deploy

Source build plan [Order Management > HAL](#)

Available artifacts Application war, POM Properties

Edit build planRelease versioningProject permissions

✓

Environment: HAL Dev Sandbox

HAL Dev Sandbox

Deploy

Actions

Minimise

✓

How you want to deploy

Tasks define the steps involved in deploying a release to the environment.

Edit tasks

Other environment settings

These settings are not strictly necessary for your deployment to run, but they can be very helpful and allow you to make Bamboo deployments go just right.

Triggers1Agents1Notifications0Variables0Environment permissions

✓

Environment: HAL Staging

HAL Staging

Deploy

Edit...

✓

Environment: HAL Production

Deploy

Edit...





# Deployment Environments

Bamboo

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Update tasks: HAL Production

Plan Template DSL Quick ReferenceHow deployment tasks work

What tasks need to happen to make this deployment a success

1 agent has the capabilities to run this deployment

Clean working directory task

Artifact download

Download release contents

Inject Bamboo variables

Inject POM variables

Source Code Checkout

Fetch deployment scripts

**Script**

Deploy with Ansible

Final tasks

Are always executed even if a previous task fails

Drag tasks here to make them final

Add task

Script configuration

Plan Template DSL Quick Reference

Task description

Deploy with Ansible

☐ Disable this task

Script location

File

☐ Run as Powershell script

Indicates that script is a Powershell script

Script file\*

intsys-deployment/ansible-wrapper

Argument

hal-prod-upgrade.yml \${bamboo.inject.version} \${bamboo.build.working.directo

Argument you want to pass to the command. Arguments with spaces in them must be quoted

Environment variables

Extra environment variables. e.g. JAVA\_OPTS="-Xmx256m -Xms128m". You can add multiple parameters separated by a space.

Working sub directory

Specify an alternative sub-directory as working directory for the task.

SaveCancel

@tarkasteve



# Deployment Environments

Bamboo

My Bamboo

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?

⚙

Deployment projects

Deployment For Hal

Deployment For Hal

Project summary

Releases

Currently deployed

Version	Release branch	Flagged	Created	Deployed on
release-82	master		28 Oct 2014 11:34 PM	HAL Dev Sandbox
release-81	master		22 Oct 2014 10:25 PM	HAL Staging
release-80	master		17 Oct 2014 02:43 AM	HAL Production

History

Version	Release branch	Flagged	Created	Was deployed on
release-82	master		28 Oct 2014 11:34 PM	HAL Dev Sandbox
release-81	master		22 Oct 2014 10:25 PM	HAL Dev Sandbox, HAL Staging
release-80	master		17 Oct 2014 02:43 AM	HAL Dev Sandbox, HAL Staging, HAL Production
release-79	master		15 Oct 2014 11:09 PM	HAL Dev Sandbox, HAL Staging
release-78	master		15 Oct 2014 11:02 PM	HAL Dev Sandbox
release-77	master		10 Oct 2014 01:15 AM	HAL Dev Sandbox, HAL Staging, HAL Production
release-76	master	APPROVED	17 Sep 2014 01:51 AM	HAL Dev Sandbox, HAL Staging, HAL Production
release-75	master		16 Sep 2014 07:22 AM	HAL Dev Sandbox
release-74	master	APPROVED	15 Sep 2014 03:49 AM	HAL Dev Sandbox, HAL Staging, HAL Production






# Ticket-based management





# Ticket-based management

 Business Platform / BIZPLAT-163268

Add audit log with reason for provisioning failures

EditCommentAssignMoreRelease To ProductionIn ProgressCancelTested in StagingAdmin

Export

Description


When container creation fails (eg. <https://sdog.jira.com/browse/PIPE-179>) the instance is stuck in the creating state, with no audit logs telling you why. You have to check the HAL logs manually to figure out the reason.

It'd be good if an audit log entry was written, at least with the message, to assist HAL9K users with this.

Activity

AllCommentsWork LogHistoryActivityTransitions SummaryBuilds

There are no comments yet on this issue.

 Click to add comment

Watchers:

1 Start watching this issue

Customer Portal

Request type:None

Dates

Created:17/Oct/14 1:26 AM GMT+0200

Updated:6 days ago

Last Commented:1 week, 5 days ago

Development

3 commitsLatest 6 days ago

1 pull requestMERGEDUpdated 6 days ago

Create branch

Couldn't read data from jira-bamboo, Tardigrade Server, extranet-bamboo, and 4 other applications. Learn about this issue or go to application links to fix it.

Agile

View on Board

Drag and Drop

Drop files here to attach them

or

Select files

The maximum file upload size is 195.37 MB.





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Click to add comment

Watchers:

1 Start watching this issue

Customer Portal

Request type:None

DatesCreated:17/Oct/14 1:26 AM GMT+0200  
6 days agoUpdated:1 week, 5 days ago

EnvironmentLatest 6 days agoStatusMergedUpdated 6 days ago

Branch

Couldn't read data from [jira-bamboo](#), [Tardigrade Server](#), [tranet-bamboo](#), and 4 other applications. [Learn about this issue](#) or [to application links](#) to fix it.

Board

Drop

Drop files here to attach them  
or  
Select files

The maximum file upload size is 195.37 MB.

Issue deployment details

Bamboo releases with related commits

Deployment project[Deployment For Hal](#)

Releases with commits[release-81](#)

Issue availability across environments

Environment	Issue availability	Current release
<a href="#">HAL Dev Sandbox</a> ⚠️	DEPLOYED	<a href="#">release-82</a>
<a href="#">HAL Staging</a> ⚠️	DEPLOYED	<a href="#">release-81</a>
<a href="#">HAL Production</a>	NOT DEPLOYED	<a href="#">release-80</a>

Close





# Key Points

**CLEAR MOTIVATION**

**BRANCHING WORKFLOW**

**COOPERATIVE TOOLS AND PEOPLE**







*Please*

**Remember to  
rate this session**

*Thank you!*

