



Atlassian DEVOPS 之路

谢志锋

2020.05



- 广州锦高科技科技有限公司



- Atlassian 金牌解决方案合作伙伴
- 企业敏捷转型与组织变革的倡导者

- 谢志锋

- 从事多年软件开发，多年软件开发管理经验
- 敏捷的先行者
- DevOPS先行者
- Atlassian认证专家



- DEVOPS 是什么
 - DEVOPS 框架
 - The Three Ways
 - Accelerate
 - CALMS
- 我们能从DEVOPS中获得什么
- Atlassian实现DEVOPS的步骤
 - 团队文化建设
 - 敏捷
 - Git
 - CI/CD
- Atlassian 的DEVOPS 工具集及展示
 - Atlassian DevOPS生命周期展示
 - Bamboo及展示
 - Bitbucket DC的重要性
- Atlassian与生态环境

DEVOps



The Three Ways

The Phoenix Project or The DevOps Handbook

- The First Way: 流程原则 (系统思维)
可视化, WIP, 减少发布包大小, 较少交接次数, 减少限制和浪费
- The Second Way: 反馈原则
快速暴露问题, 快速解决问题, 建立知识库
编码保障安全质量
下游工作中心保障优化
- The Third Way: 持续学习原则 (文化)
有组织的, 安全的学习文化
有指导的日常工作提升
小改革快速推广
日常工作的快速适应能力
领导支持的学习文化

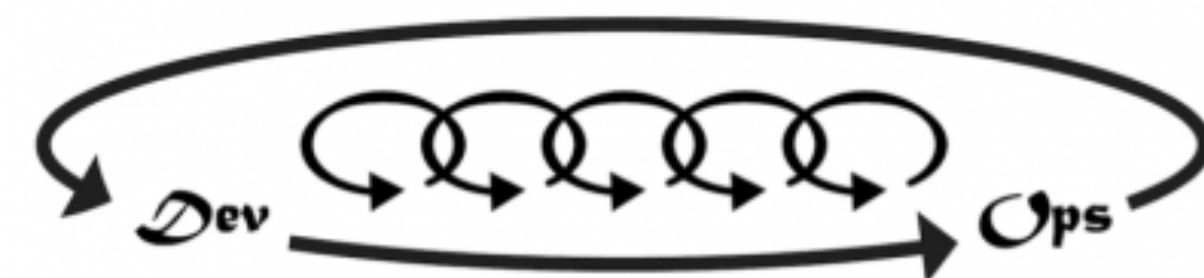
The First Way:
Systems Thinking



The Second Way:
Amplify Feedback Loops



The Third Way:
Culture Of Continual Experimentation And
Learning



Accelerate



The Science of Lean Software and DevOps: Building and Scaling High Performing Technology Organizations

技术实践

持续发布

- 版本管理，自动部署，持续集成，敏捷开发，测试自动化，数据驱动测试，安全质量左移 (DevSecOps), 持续部署

软件架构

- 松耦合架构，微服务
- 高效的团队

产品和流程

- 客户反馈
- 价值流
- 敏捷开发
- 团队经验

管理实践

精益管理和监控

- 轻量级的变更审批
- 数据驱动
- WIP
- 可视化

文化

- 支持的持续学习
- 团队协作
- 工作满意度
- 改革派的领导



文化： DEVOps就是敏捷团队，包括业务，研发，IT部门，一起协作完成共同的项目布标。不是一个人的任务，不是一个团队的任务，是所有人的任务。错误不是用来惩罚的，是用来解决问题和提高能力的。

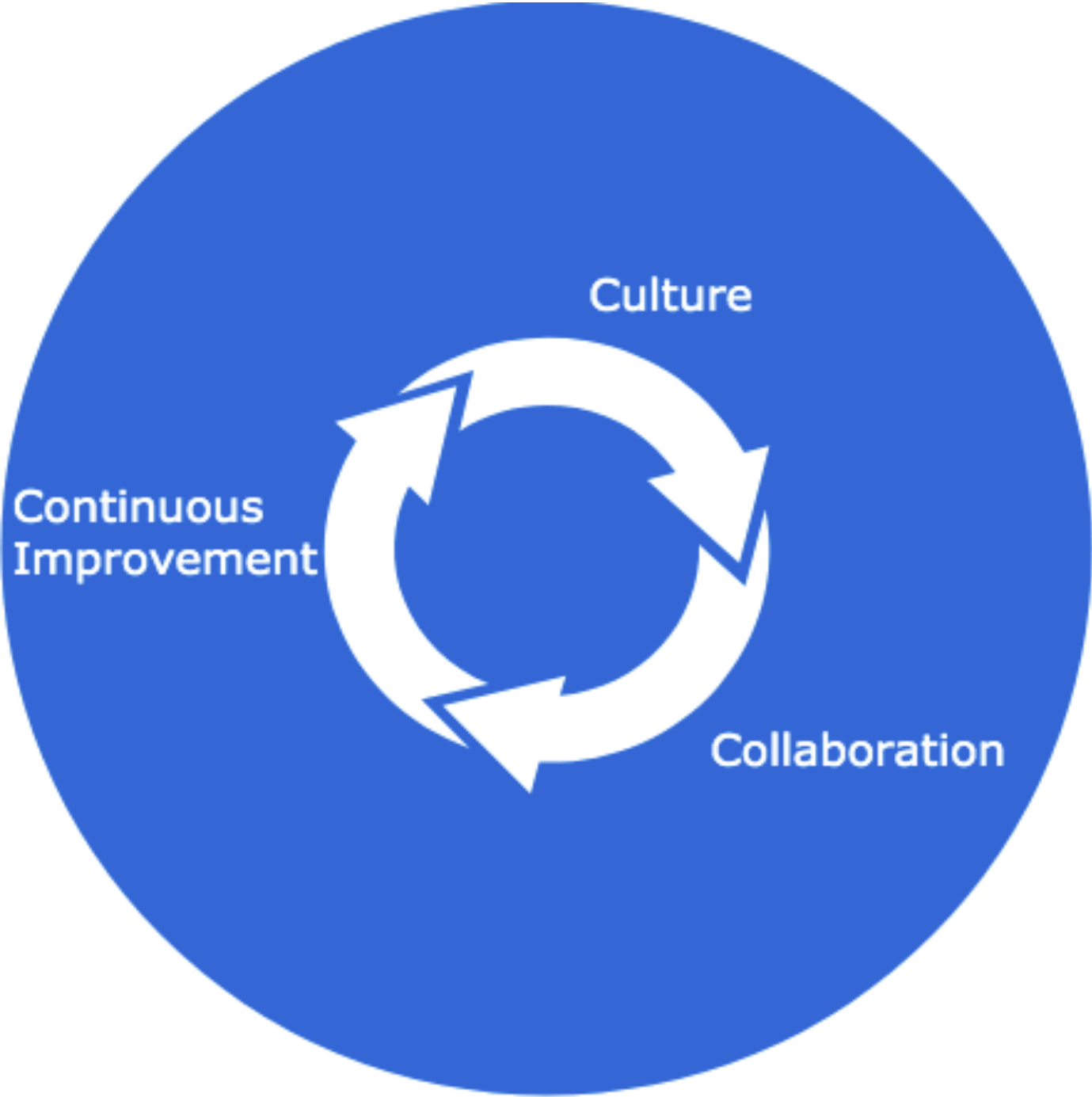
自动化. 通过自动化繁重的手动任务，流程，解放资源，消除瓶颈，减少浪费。提高稳定性。

精益. 敏捷不光是开发团队，持续优化，减少交接，可视化工作，WIP等，在业务，IT甚至整个系统中都可以建立起来。

度量. 可度量是管理的一个重要指标。为了度量DEVOps的成熟度，各组织可以制定指标，如：平均交付周期，系统bug和错误发生频率，系统恢复时间，产品人员，产品获客

协作共享. 隔阂不是一下子就产生的，消除隔阂也一样，需要在团队间建立开放的交流方式。

共同的内涵



文化

持续演进

协作

实施DevOps的团队 将收获更多！

200x

22%

更少花在没计划的工作上。

24x

从失败中更快速的复原。

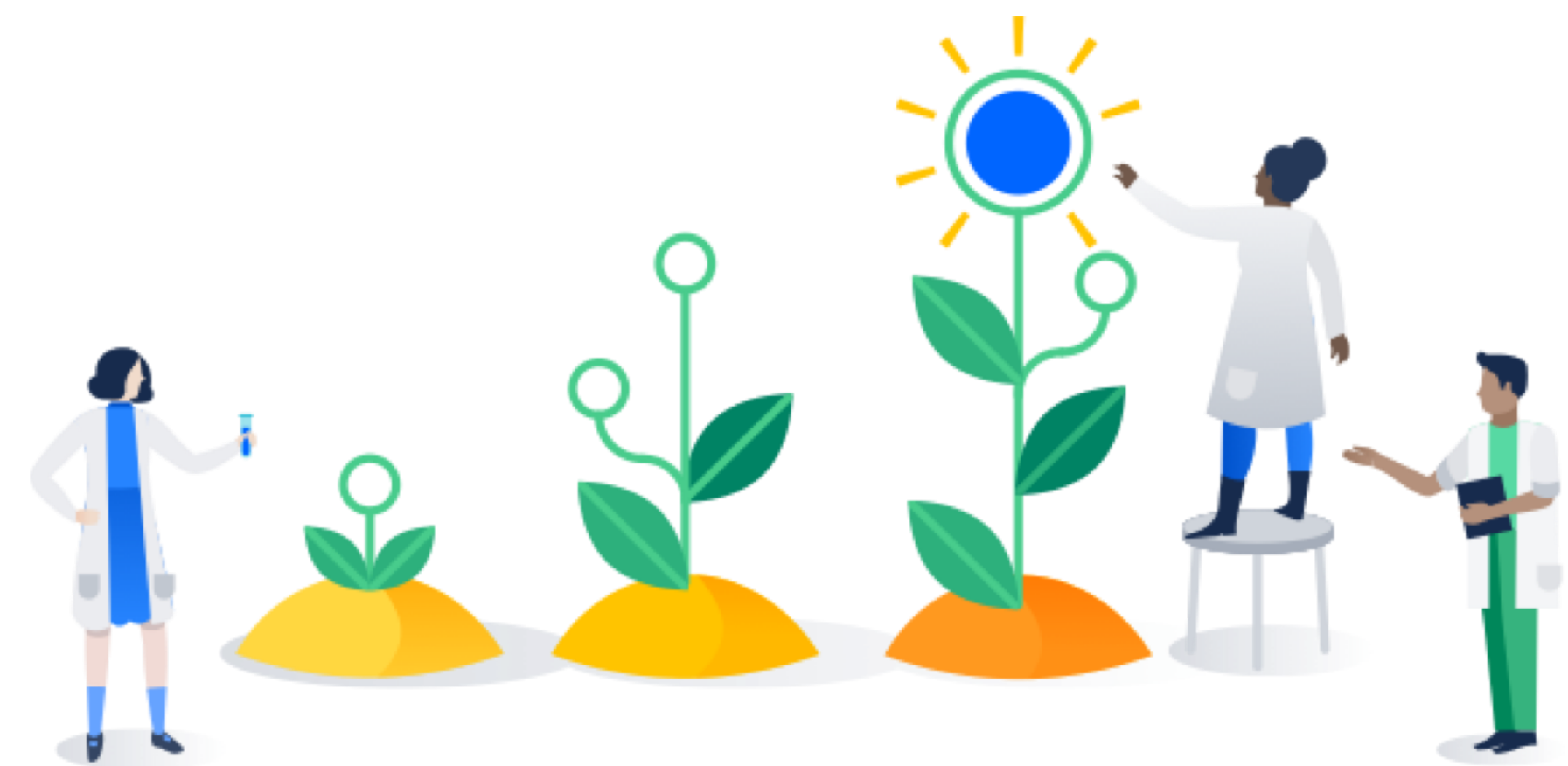
3x

更低的变更失败率。

2,555x

缩短了
每次部署耗时

更频繁部署



30x

更频繁部署

2015

200x

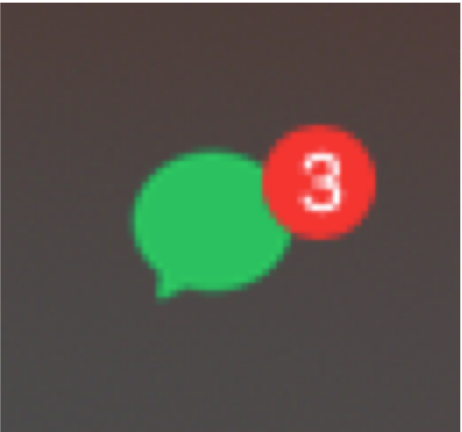
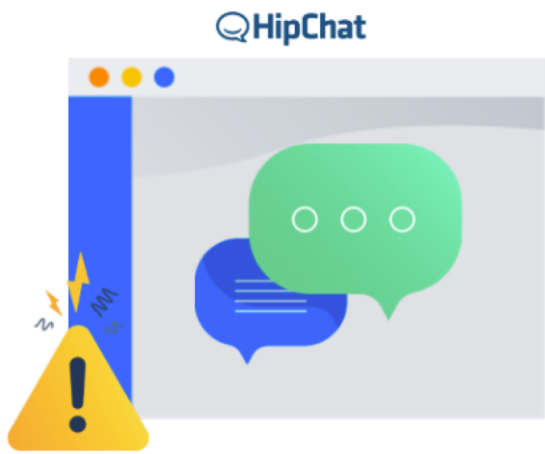
更频繁部署

2016

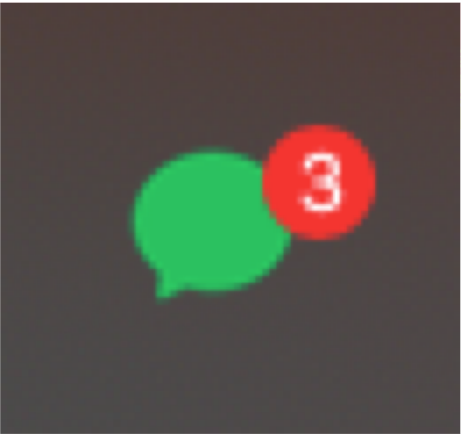
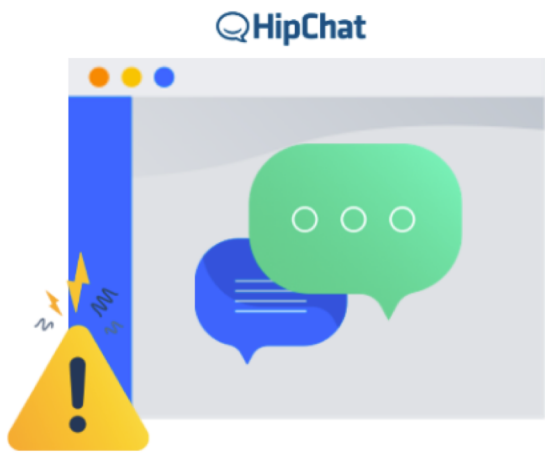
10% 更多工程时间

对你的团队意味着什么？

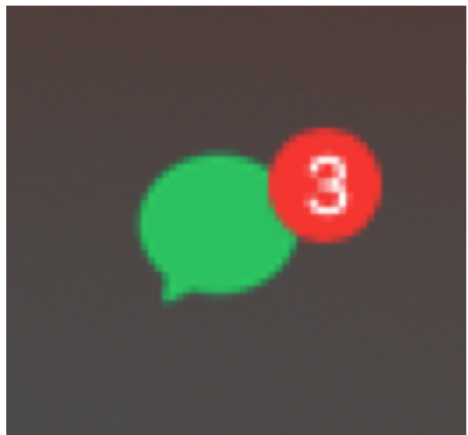
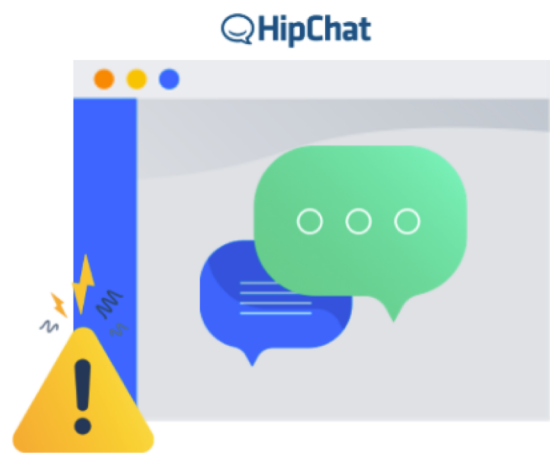
DEVOPS的故事



DEVOPS的故事



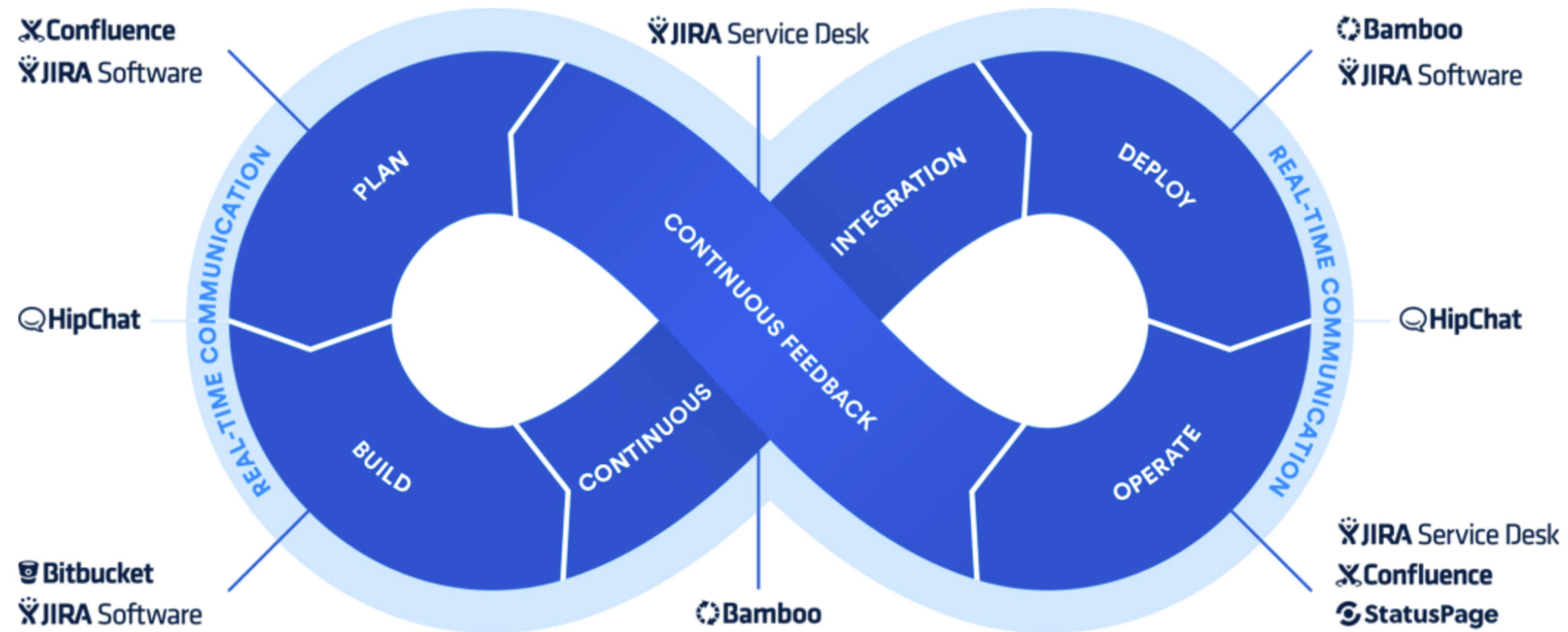
DEVOPS的故事



Release



ATLASSIAN DEVOPS 全生命周期



- 计划
- 编译打包
- 运维运营
- 反馈

实施DEVOPS的步伐



文化



1



实践



2



工具



3

建立协同的文化



分享责任

每个人分享胜利和失败



团队个性互补

建立同情与理解文化



鼓励透明

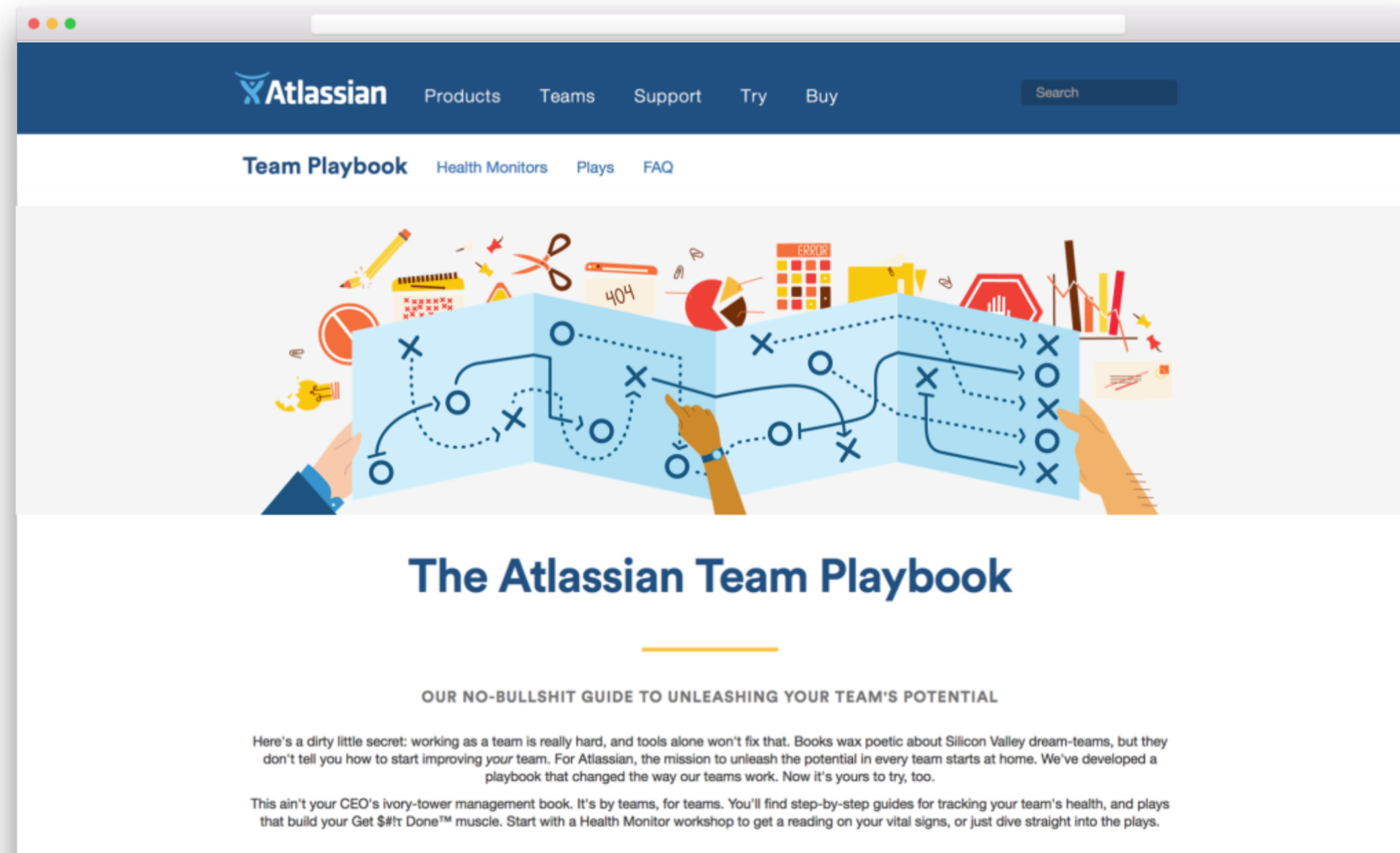
信息透明有效



高效沟通

团队互通有无

www.atlassian.com/team-playbook



The screenshot shows a web browser window displaying the Atlassian Team Playbook landing page. The browser's address bar shows the URL www.atlassian.com/team-playbook. The page has a dark blue header with the Atlassian logo and navigation links: Products, Teams, Support, Try, and Buy. A search bar is located on the right side of the header. Below the header, there is a white section with the title "Team Playbook" and sub-links: Health Monitors, Plays, and FAQ. The main visual is a large illustration of a hand holding a blue playbook with a flowchart, surrounded by various office icons like a pencil, scissors, a calendar, a pie chart, and a bar chart. Below the illustration, the title "The Atlassian Team Playbook" is displayed in a large, bold, dark blue font. Underneath the title is a horizontal orange line. Below the line, the subtitle "OUR NO-BULLSHIT GUIDE TO UNLEASHING YOUR TEAM'S POTENTIAL" is written in a smaller, bold, dark blue font. The main body of the page contains two paragraphs of text. The first paragraph starts with "Here's a dirty little secret: working as a team is really hard, and tools alone won't fix that." and ends with "Now it's yours to try, too." The second paragraph starts with "This ain't your CEO's ivory-tower management book. It's by teams, for teams." and ends with "or just dive straight into the plays."

Atlassian Products Teams Support Try Buy

Team Playbook Health Monitors Plays FAQ

The Atlassian Team Playbook

OUR NO-BULLSHIT GUIDE TO UNLEASHING YOUR TEAM'S POTENTIAL

Here's a dirty little secret: working as a team is really hard, and tools alone won't fix that. Books wax poetic about Silicon Valley dream-teams, but they don't tell you how to start improving *your* team. For Atlassian, the mission to unleash the potential in every team starts at home. We've developed a playbook that changed the way our teams work. Now it's yours to try, too.

This ain't your CEO's ivory-tower management book. It's by teams, for teams. You'll find step-by-step guides for tracking your team's health, and plays that build your Get *\$#!t Done*™ muscle. Start with a Health Monitor workshop to get a reading on your vital signs, or just dive straight into the plays.

实践



敏捷



DVCS



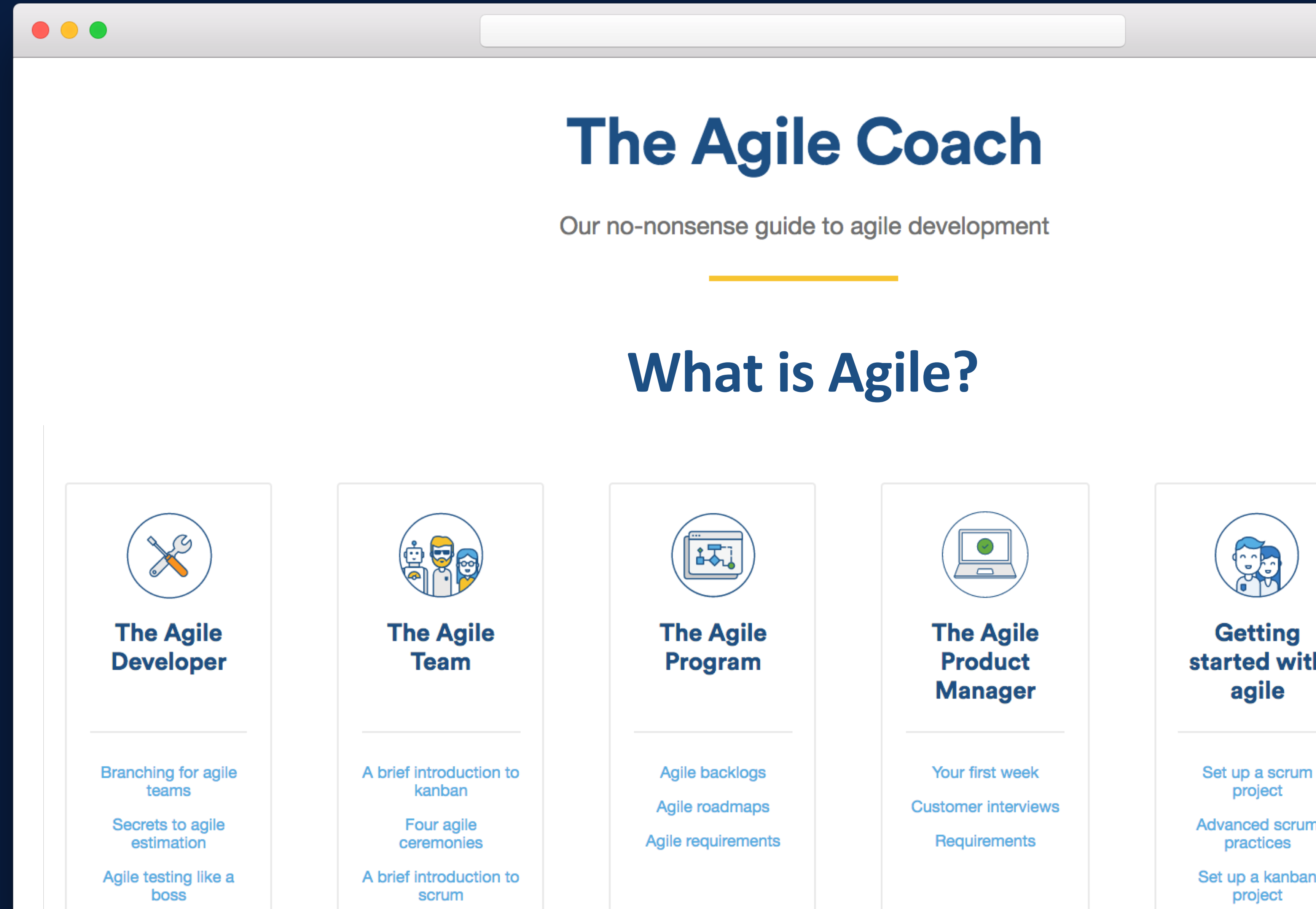
持续集成

敏捷

支持文化转变

对变化快速反应

atlassian.com/agile

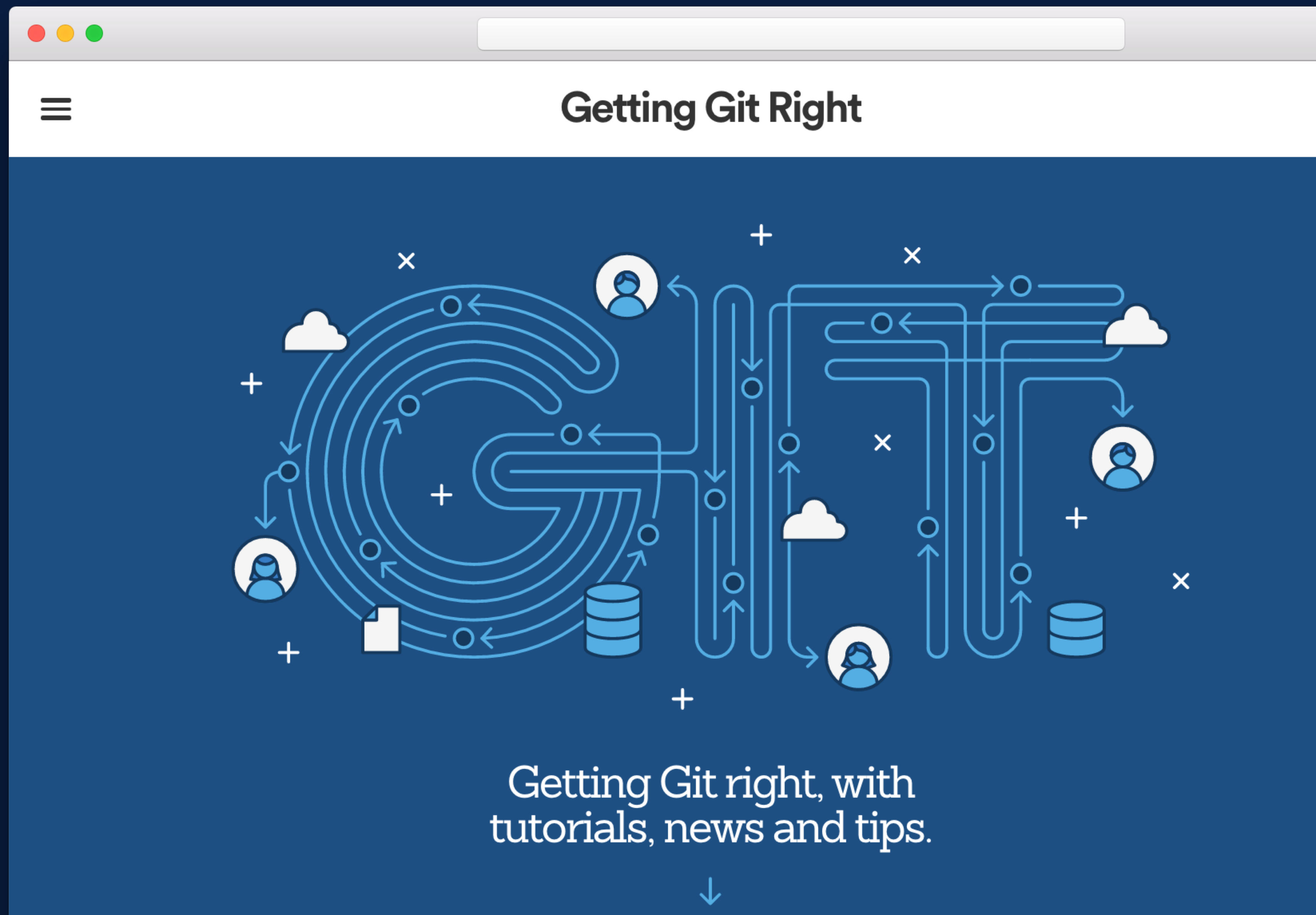


GIT

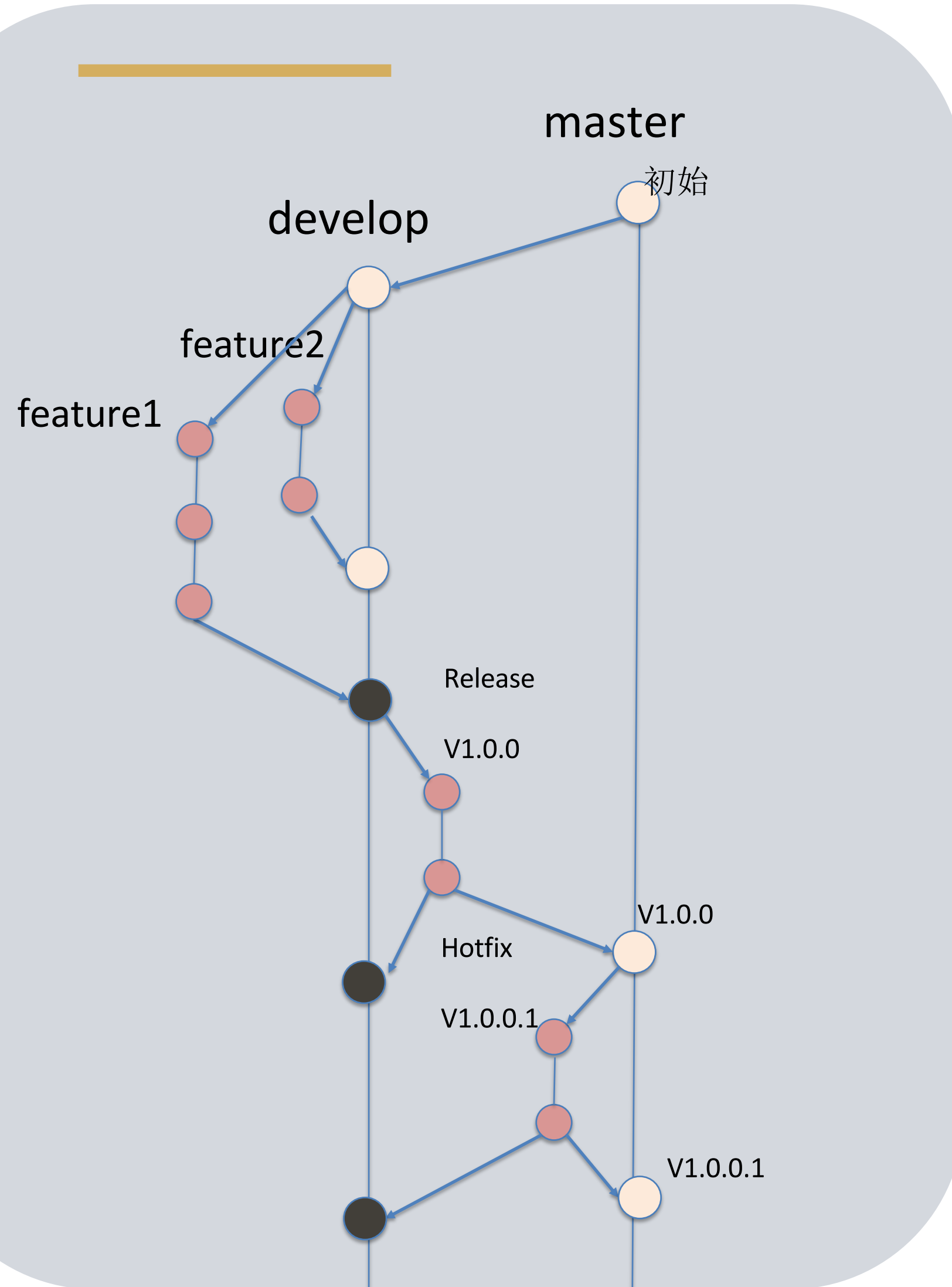
快速迭代

分支和合并

atlassian.com/git



分支的重要性



主干分支

Master：随时可供在生产环境中部署的代码，建议伴有标签（TAG）

Develop：每天需要提交和合并的代码，功能逐渐完成的代码开发分支

辅助分支

Feature：新功能分支，辅助develop分支。主要用于实验性且效果不好的代码变更。或者用于项目组新成员接手开发新功能等。分支可以合并到develop分支，或者直接丢弃。

命名规范：feature-*

Release：当基本版本完成，准备提交上线时的分支，本分支可以做小BUG的修复。成功通过测试后，必须合并到Master分支，并记录标签（Tag），如果有BUGfix，则还需合并到Develop分支。此版本的作用是项目二期可以继续从develop分支开始开发。

命名规范：release-*

Hotfix：对于线上版本（Master分支）的BUG修改的辅助分支，必须合并回master分支和develop分支。

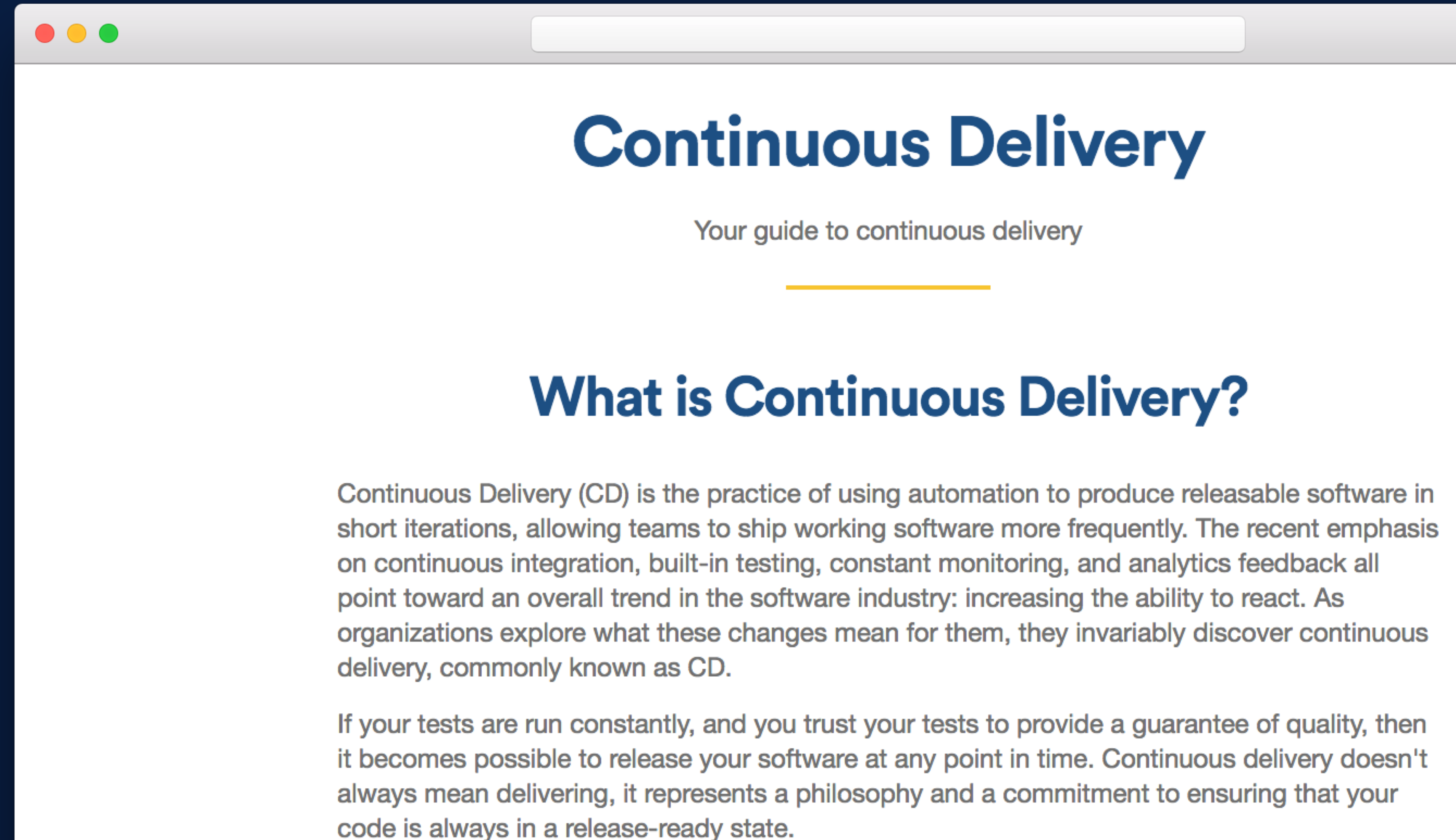
命名惯例：hotfix-*

持续集成

快速反馈

自动化

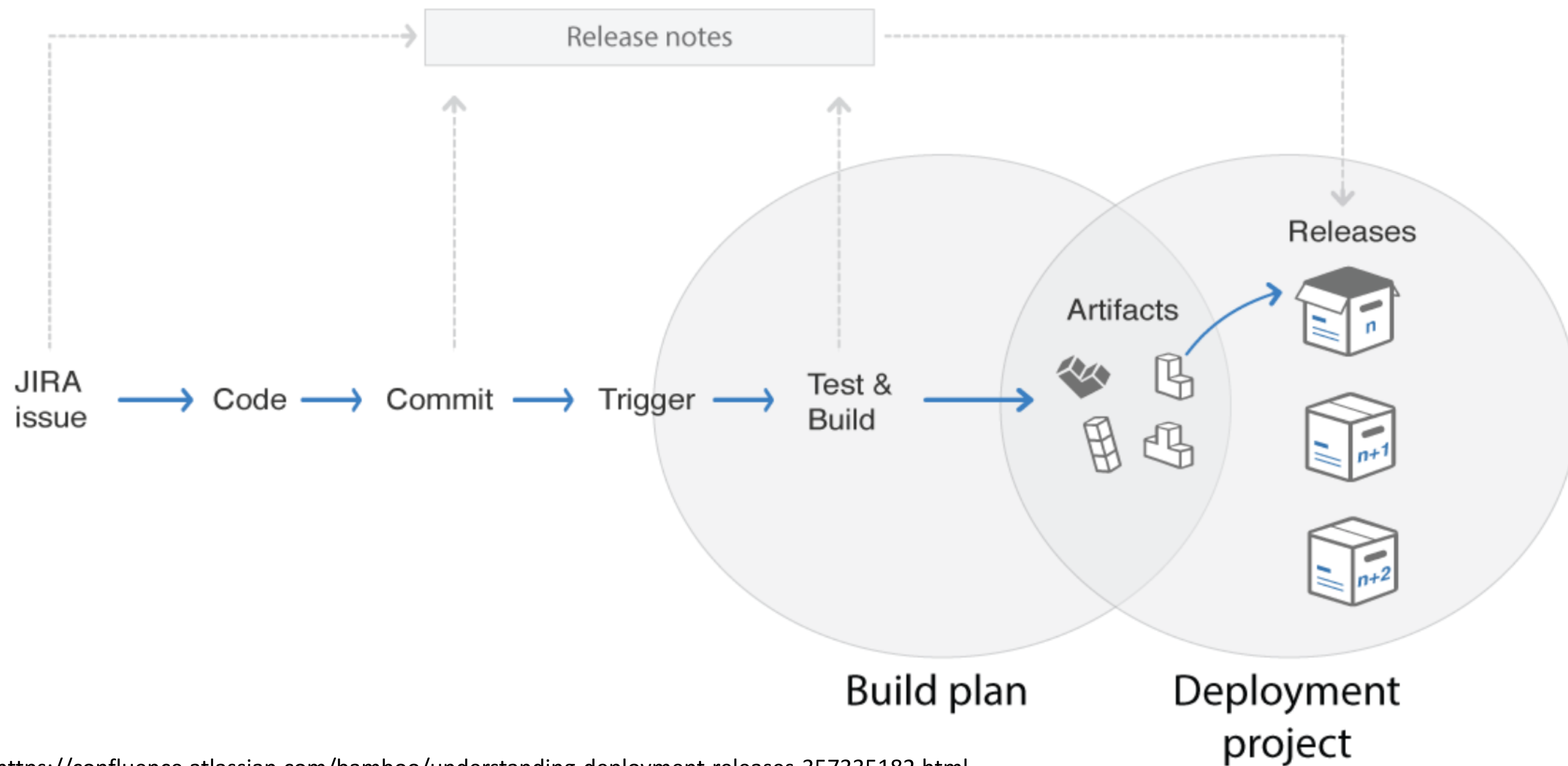
atlassian.com/continuous-delivery



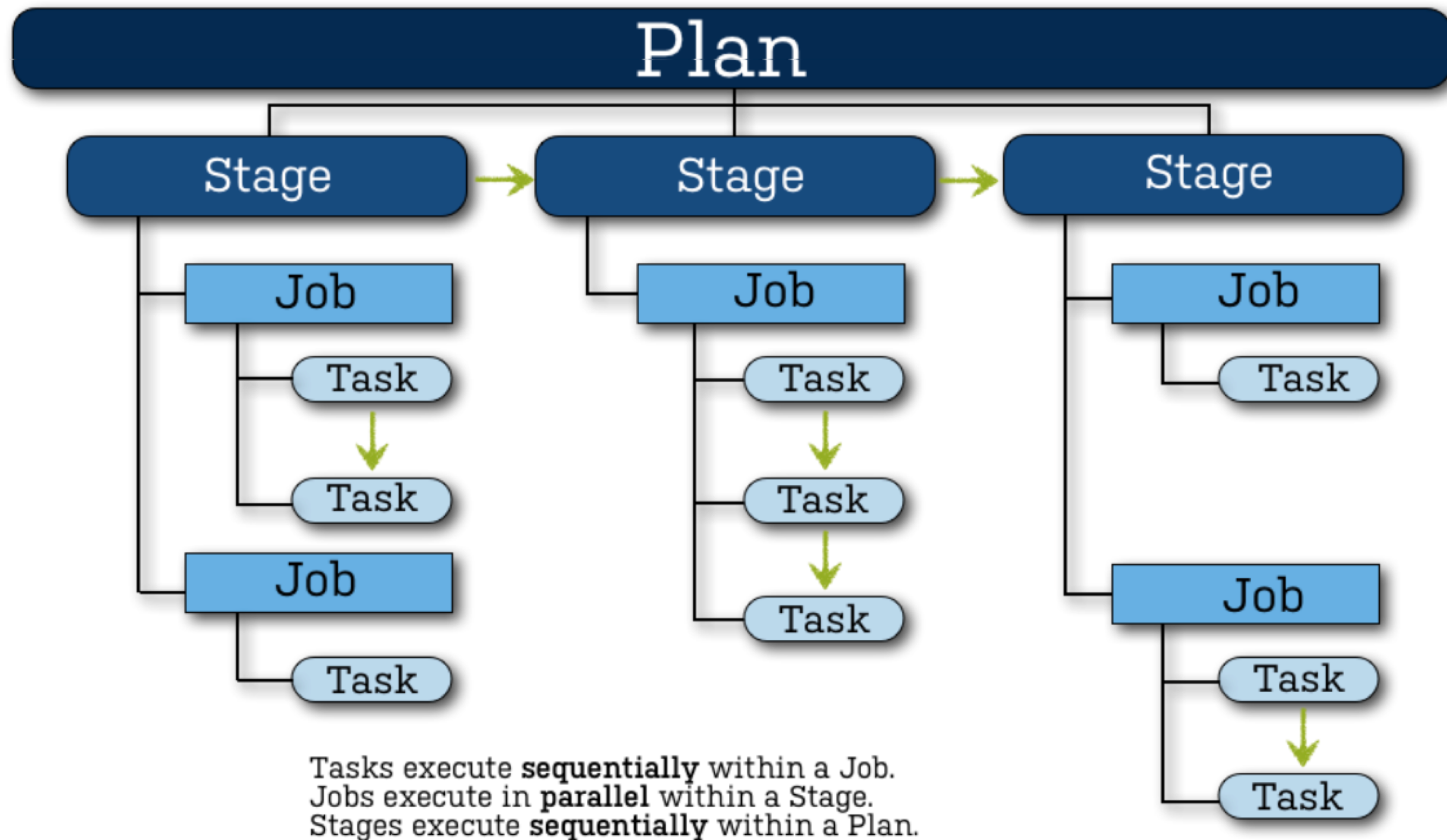


Bamboo Bitbucket demo

持续集成及部署的完整流程

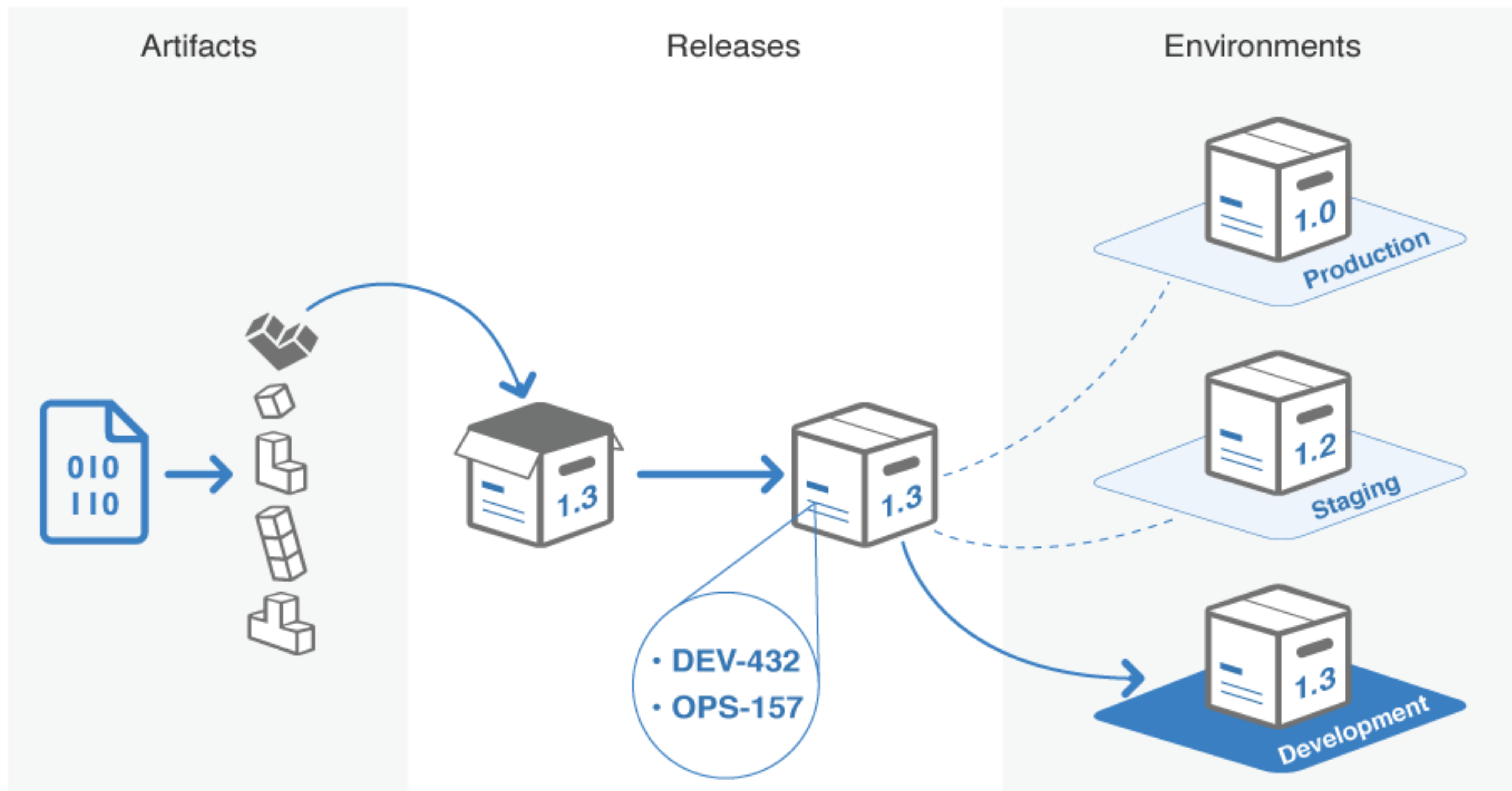


Plan的Stage, Job 和Task

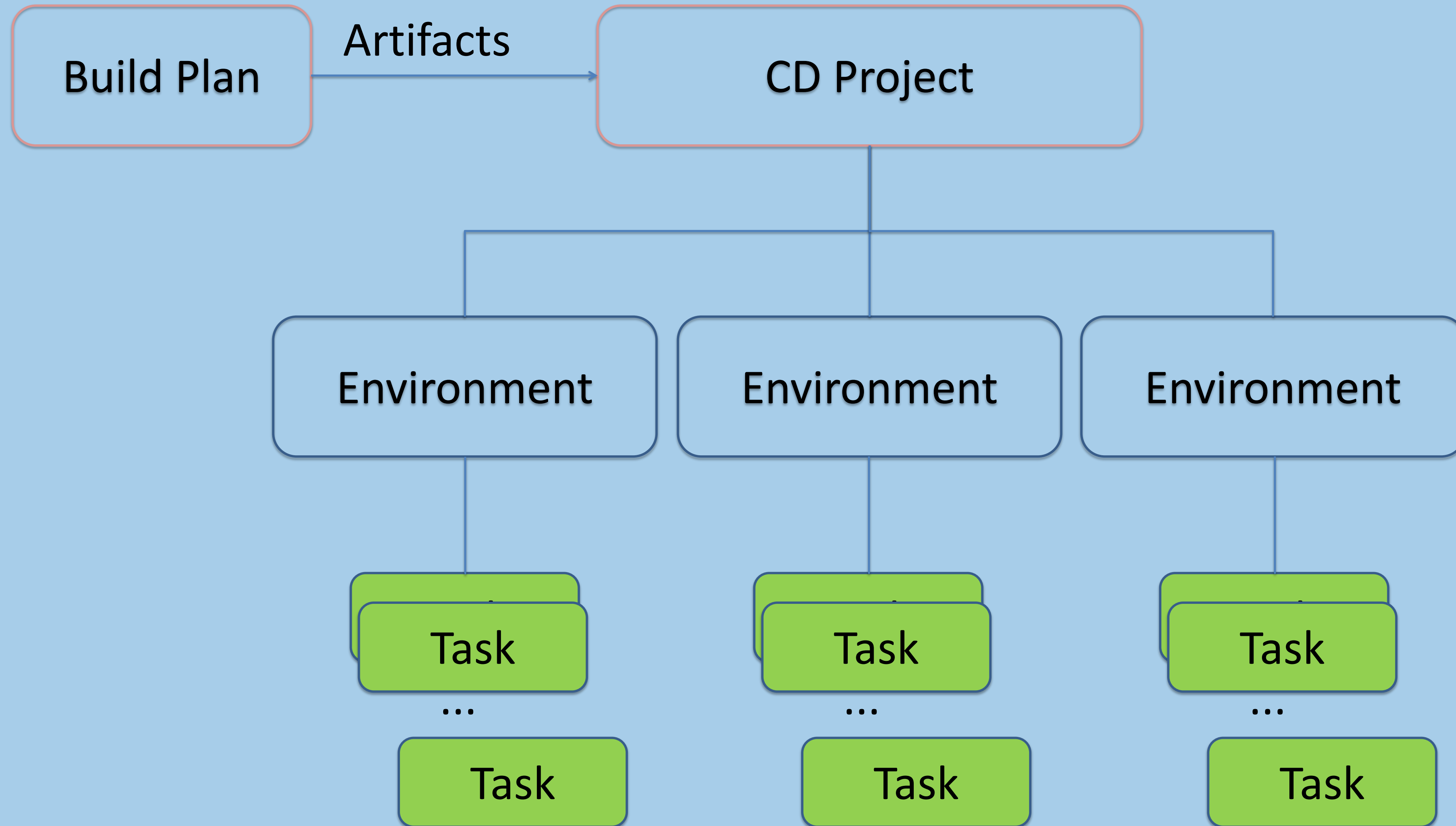


持续部署 -

将构建产生的Artifacts持续发布到各种不同的环境中，供测试或生产使用



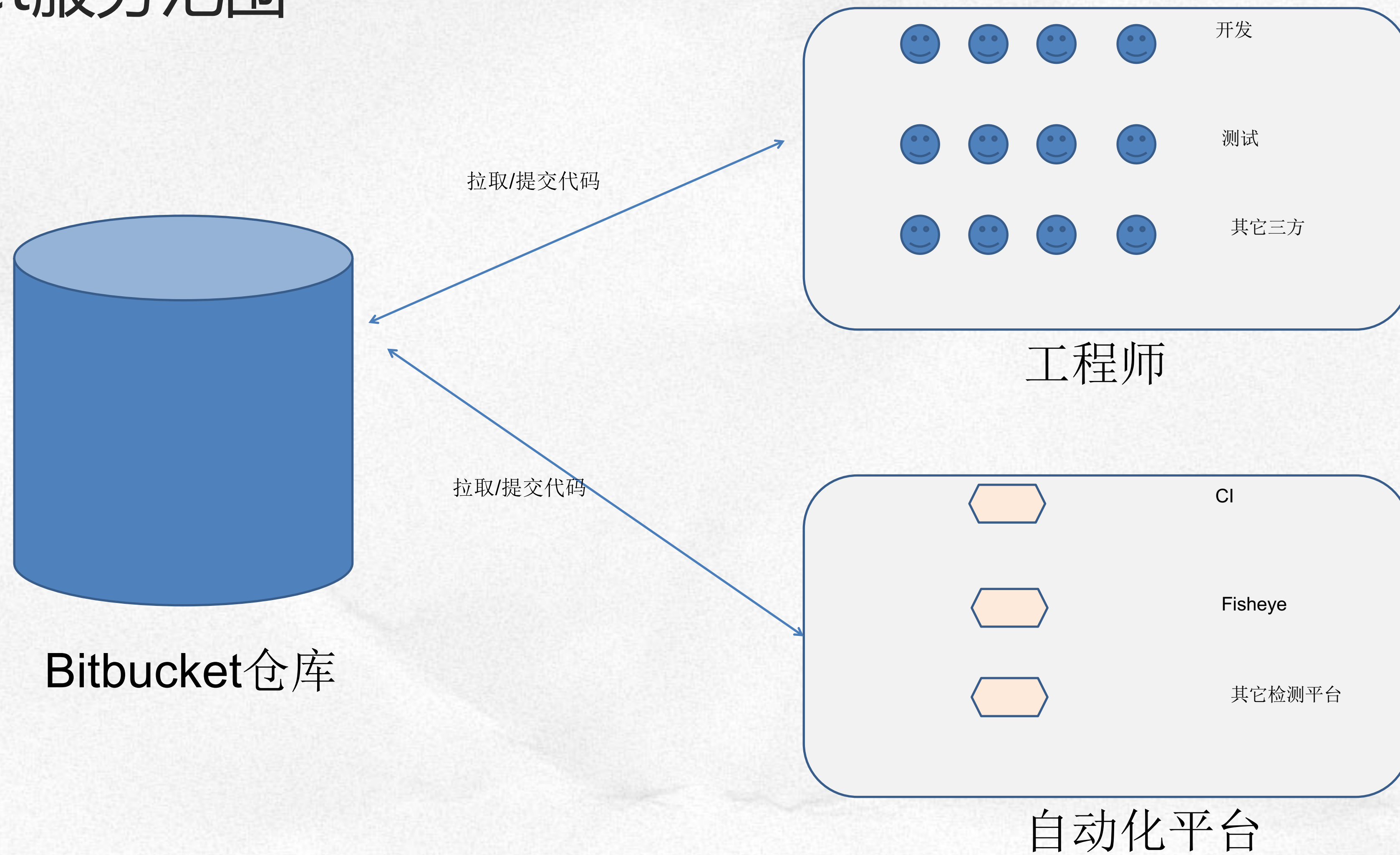
部署项目结构



Bamboo对Branch的支持

- 代码库中每创建一个branch，都可以沿用parent plan进行自动构建
- 代码库中branch删除时，可以设置为从Bamboo中自动删除
- branch plan的设置优先于从parent plan继承而来的设置
- branch 编译成功，可以通过设置自动更新代码到master

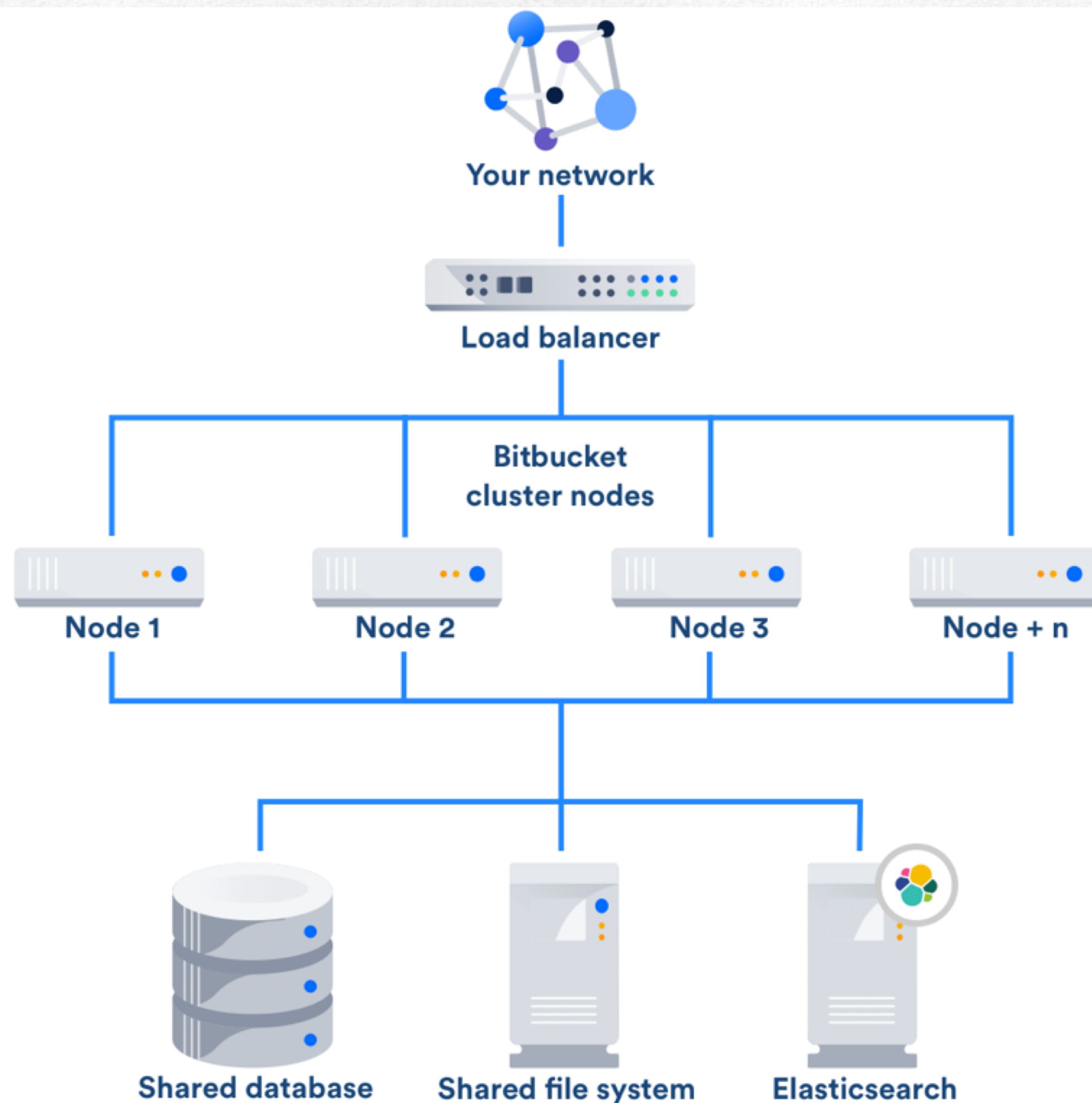
Bitbucket服务范围



Bitbucket 数据

- Bitbucket存放项目源代码，内容重要，不允许任何数据丢失
- Bitbucket服务每个工程师的日常工作，需要高可靠
- Bitbucket支持多人并发操作和众多的自动化平台，需要性能可扩展

DataCenter方案

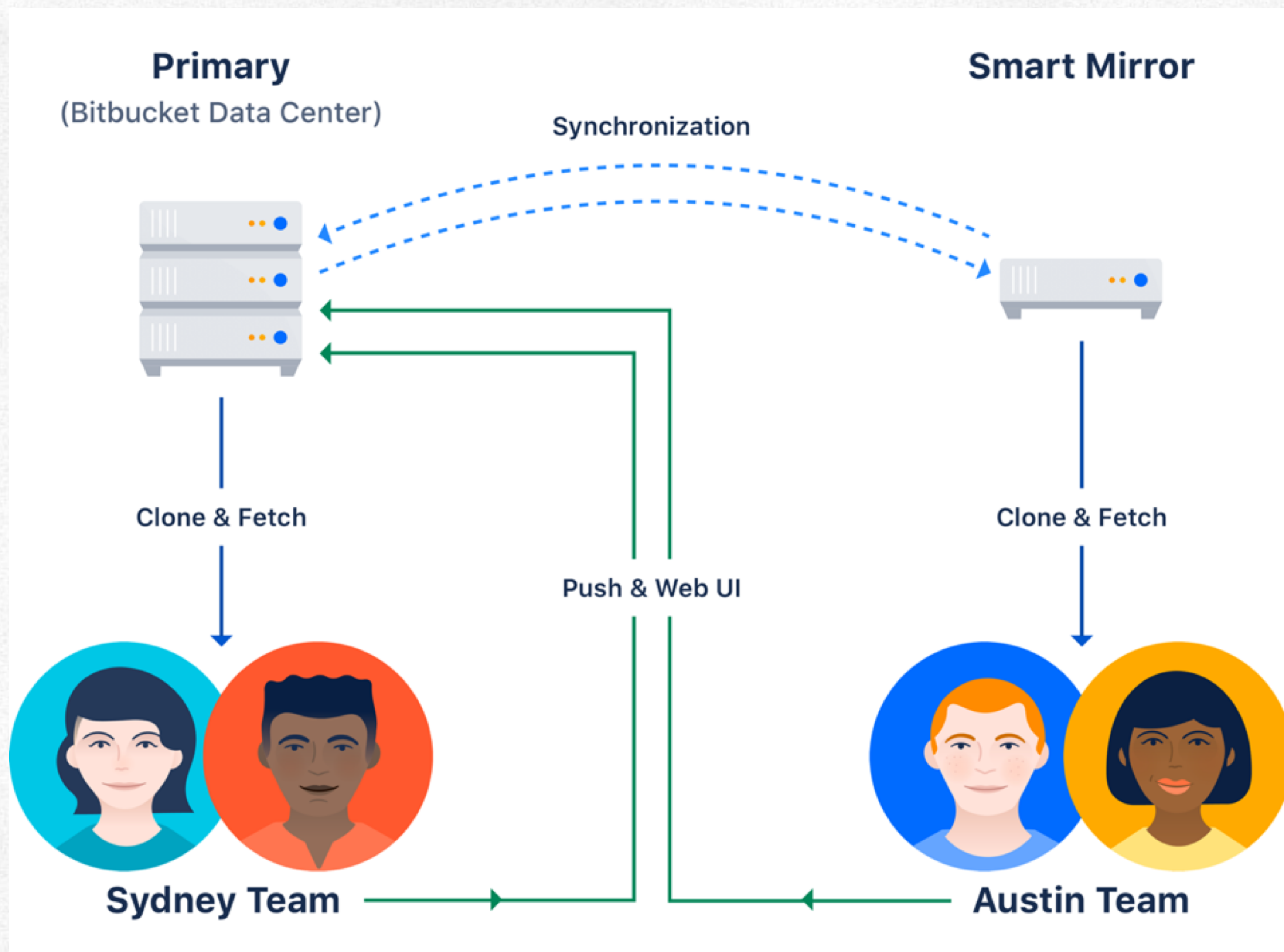


Active-Active 负载分担模式

保证高可靠性

升级维护可以逐一节点进行，
不影响其他节点

DataCenter提供的SmartMirror功能



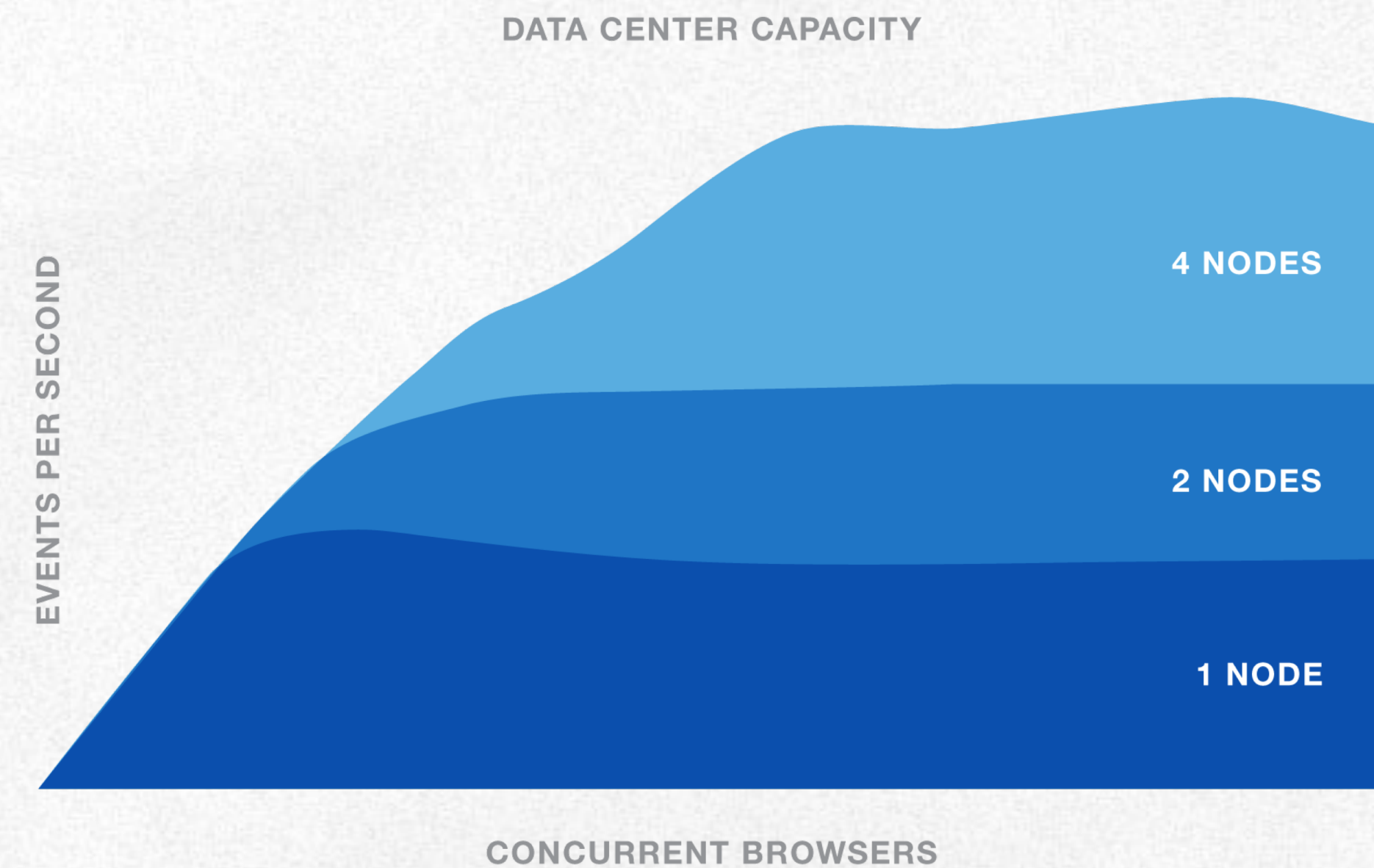
适用于异地办公 & Git仓库又很大的场景

Data Center / 性能

支持并发用户数增加

超负荷后的快速恢复能力

保证服务质量

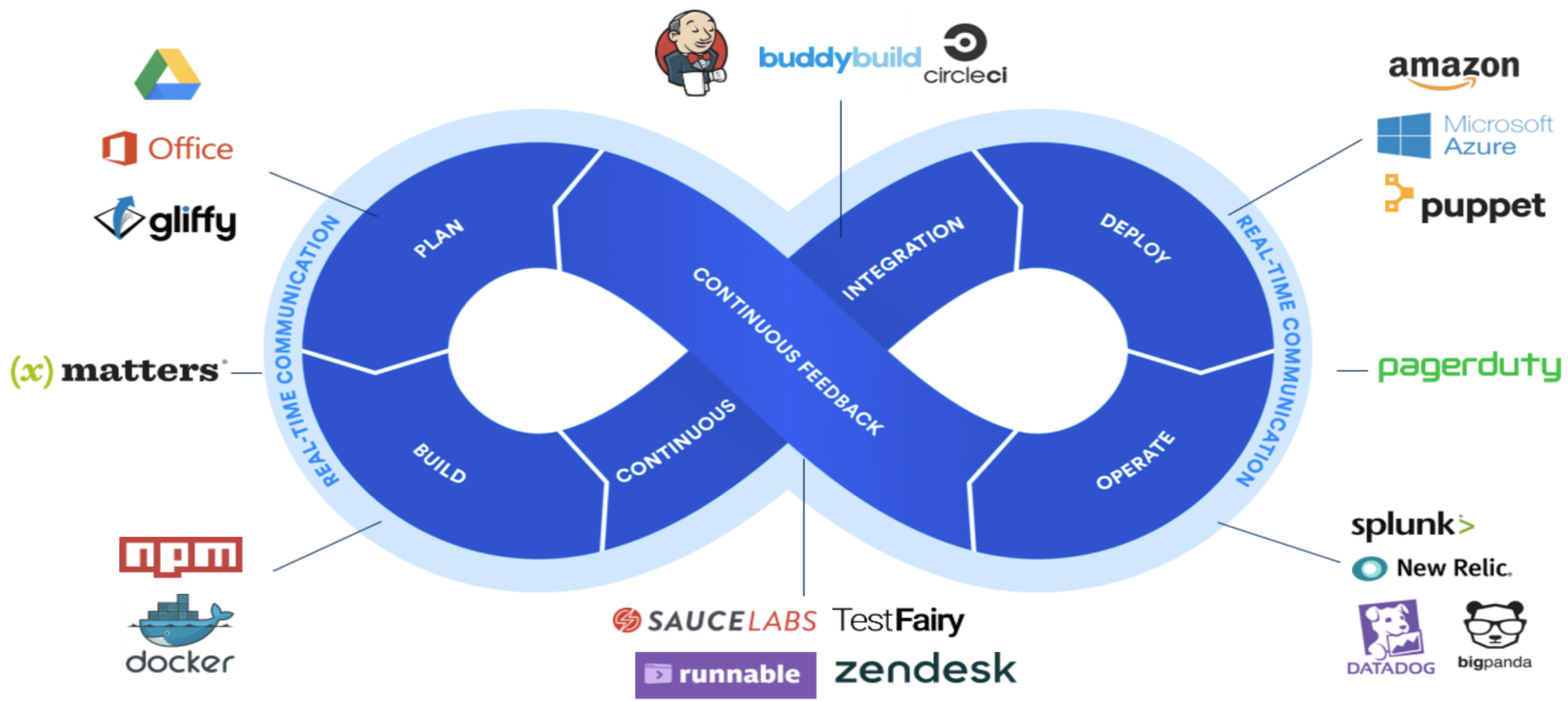


Data Center /性能扩展

- 增加服务节点
- 快速索引
- 费用可控



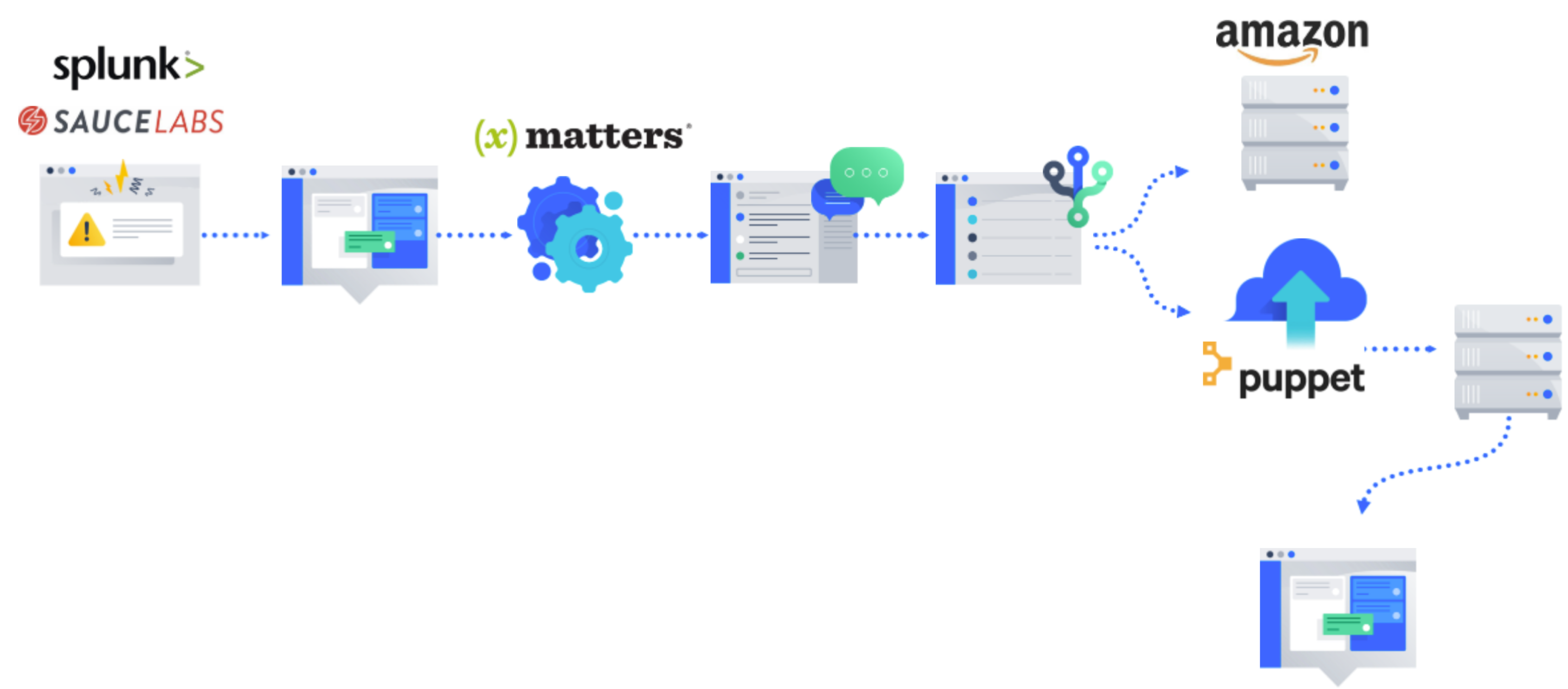
ATLASSIAN 生态环境



与第三方集成



Partner integrations



自动化测试平台集成



Fill out the JIRA fields below. Choose from the Attachments list what you want to import from Sauce into your JIRA issue.

PROJECT

MASTER - Master

ISSUE TYPE

Bug

SUMMARY

verifyCommentInputTest[1]

DESCRIPTION

SAUCELABS

Automate testing

Create JIRA tickets from a test details page & automatically attach screenshots, videos and logs from Sauce Labs test details

Attachments

☒ Current Screenshot

☒ Video

☒ Sauce log

☒ Selenium log

Create JIRA Issue

Fill out the JIRA fields below. Choose from the Attachments list what you want to import from Sauce into your JIRA issue.

PROJECT

MASTER - Master

ISSUE TYPE

Bug

SUMMARY

verifyCommentInputTest[1]

DESCRIPTION

Attachments

☒ Current Screenshot

☒ Video

☒ Sauce log

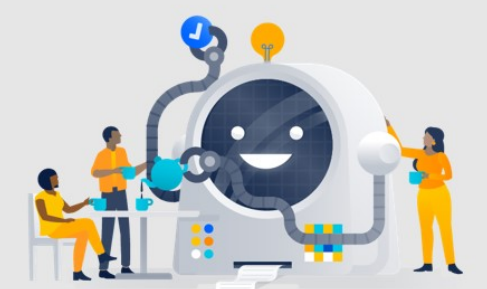
☒ Selenium log

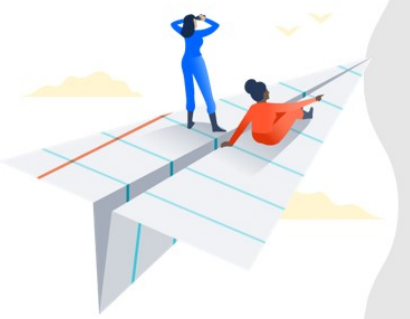
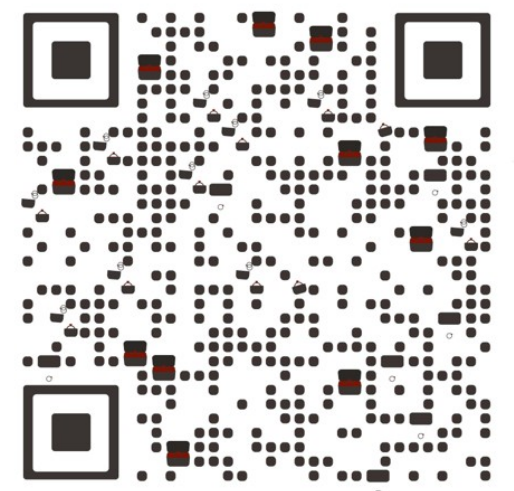


一起用软件创造价值！



关注Atlassian官方公众号
获取最新产品及活动信息





扫码添加小助手
回复“Jira”入群

Atlassian 社区
微信用户组





谢志锋
北京 朝阳



