

The logo features a stylized orange 'G' followed by the text 'devops' in white lowercase letters. The background is blue with faint geometric lines forming triangles and circles.

Gdevops

全球敏捷运维峰会

如何构建适合自己的DevOps
工具、平台与团队

演讲人：任发科

自我介绍

网名：常新居士

微信号：devopseasy

工作经历：

创业公司

亚马逊

ThoughtWorks

Nortel

关注点：

DevOps&AIOps

软件研发管理

系统架构&设计

编程





- 从业务和系统发展看问题和措施
- 总结和思考



业务

Dev

QA

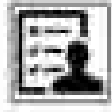
Ops



业务



开发



测试



运维

需求

编码

构建&测试

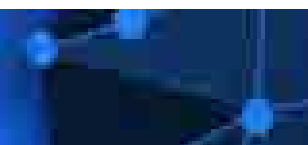
环境&部署

监控&运营



|

敏捷与持续集成



业务

Dev

QA

Ops



乱



差



慢



业务

开发

测试

运维

需求

编码

构建&测试

环境&部署

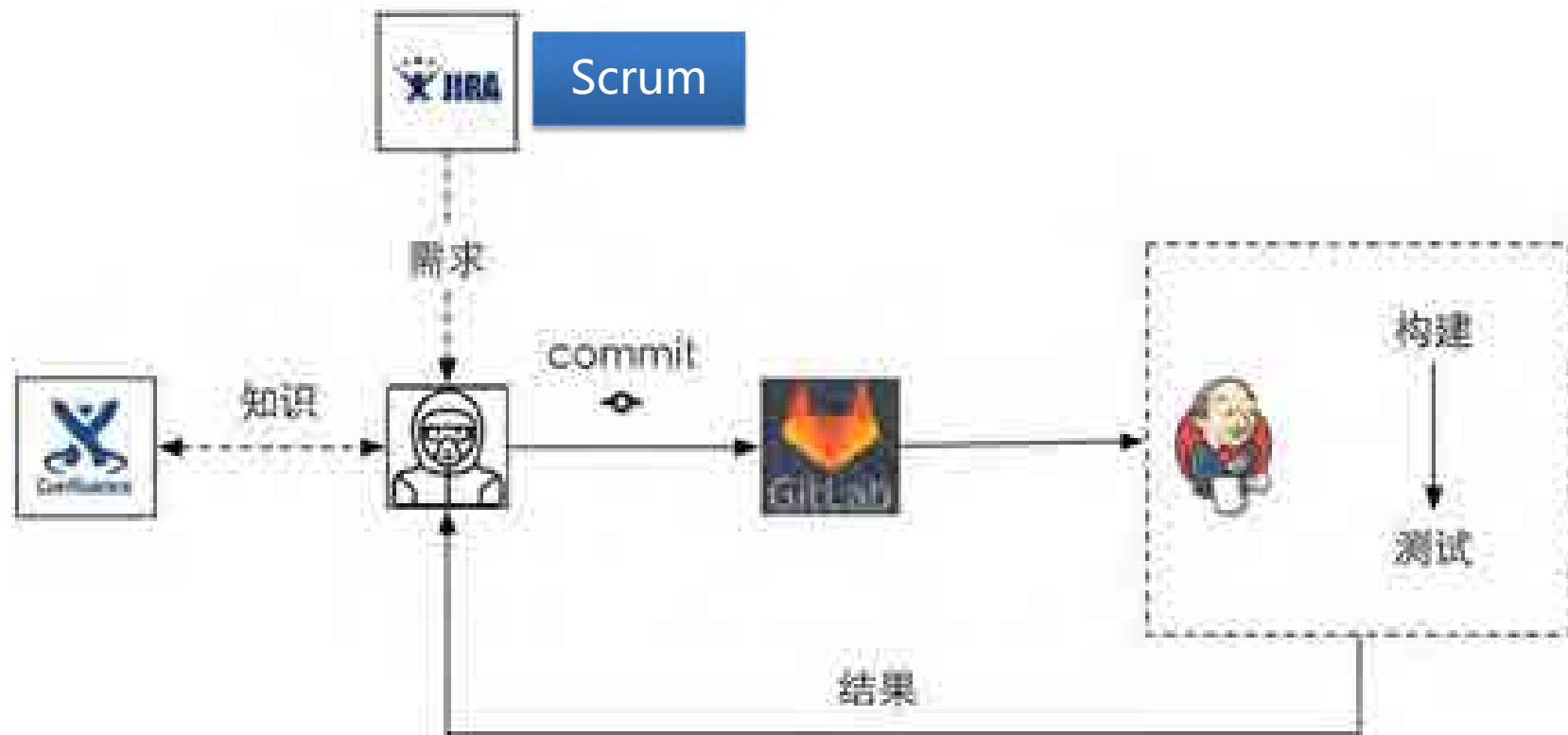
监控&运营



需求和项目管理混乱

研发交付质量低下

项目上线周期长、问题多



业务

Dev

QA

Ops

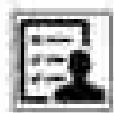


业务



开发

乱



测试

慢



运维

需求

编码

构建&测试

环境&部署

监控&运营



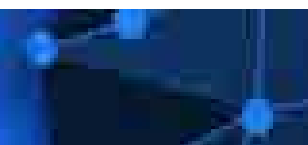
研发到测试的交付物不同源

测试手工验证周期长

项目上线时间长、问题多

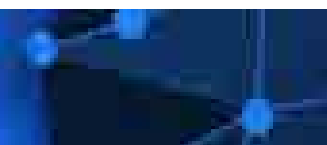


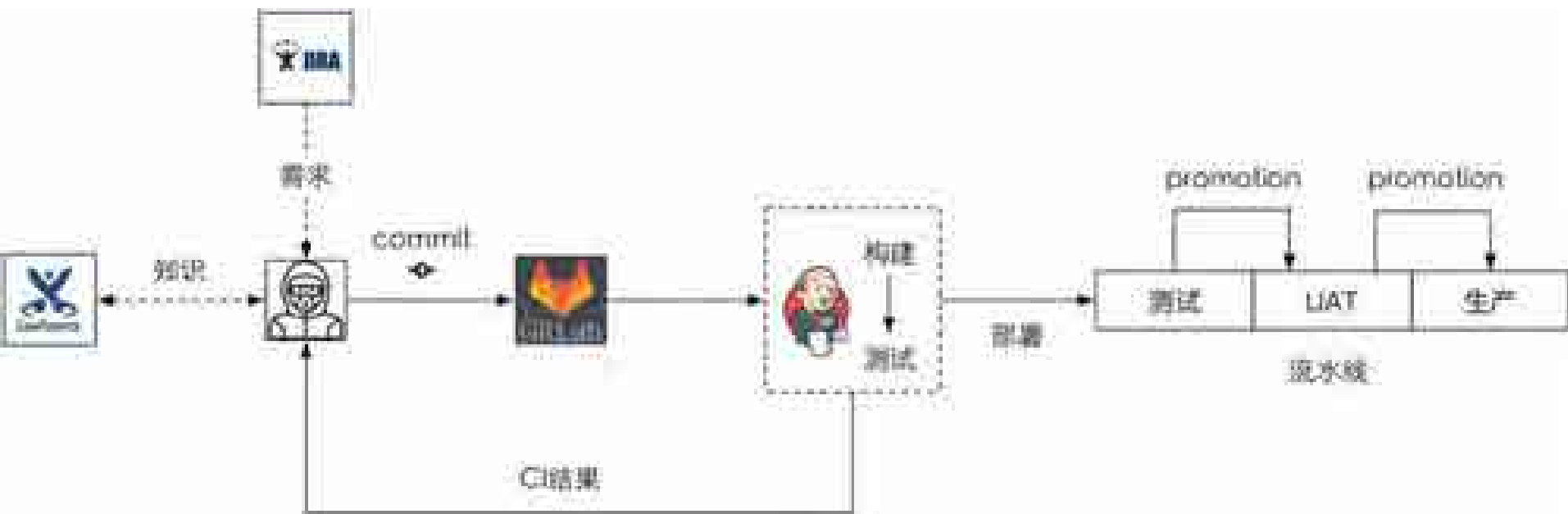
II 持续交付1.0





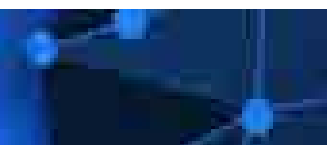
pipeline+部署脚本





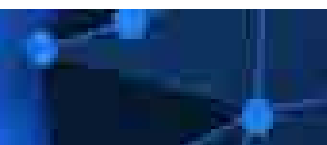


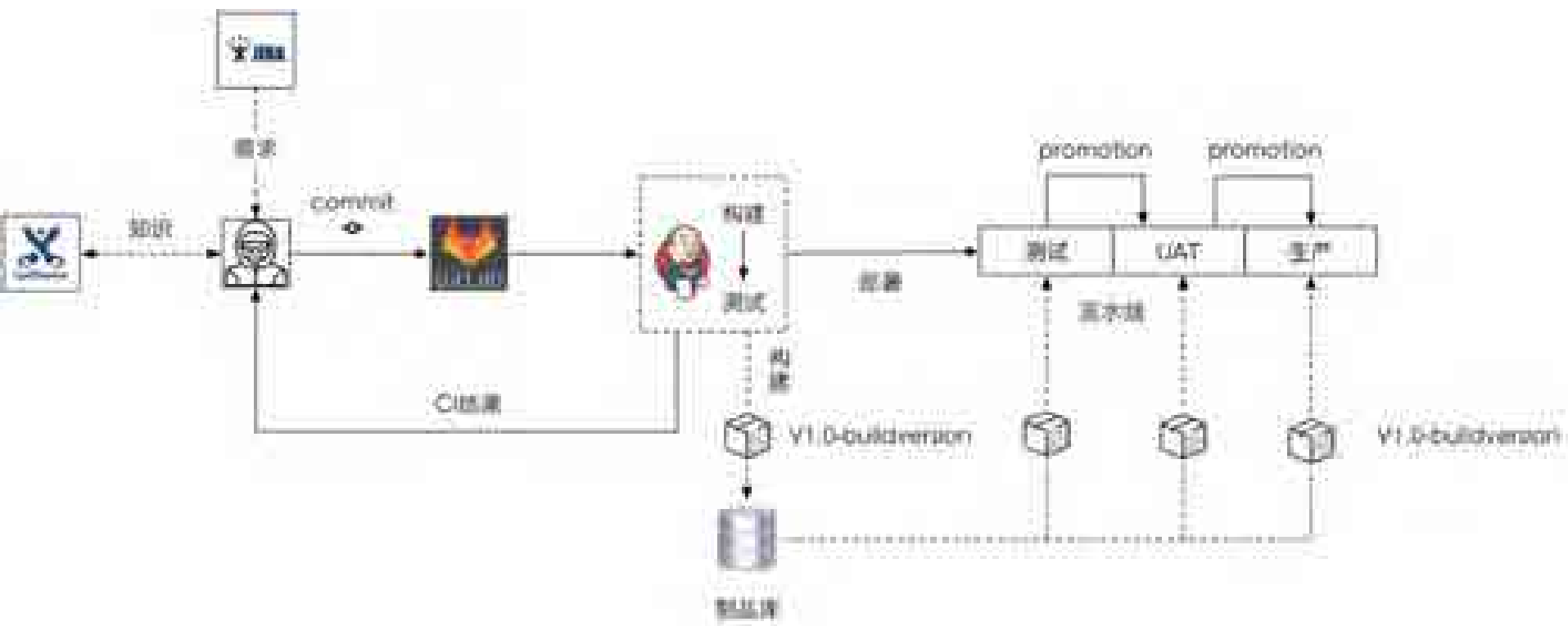
制品库：只需构建一次





制品库：
Nexus->Artifactor->自研







业务



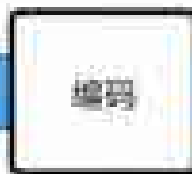
开发



测试



运维





运维人员需要维护大量环境以及应用部署

构建环境与生产环境一致性

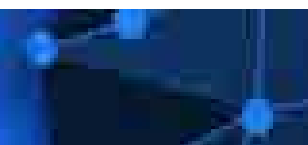
部署逻辑与JENKINS紧耦合


简单回滚的机制

仍然依赖大量测试人员半自动测试

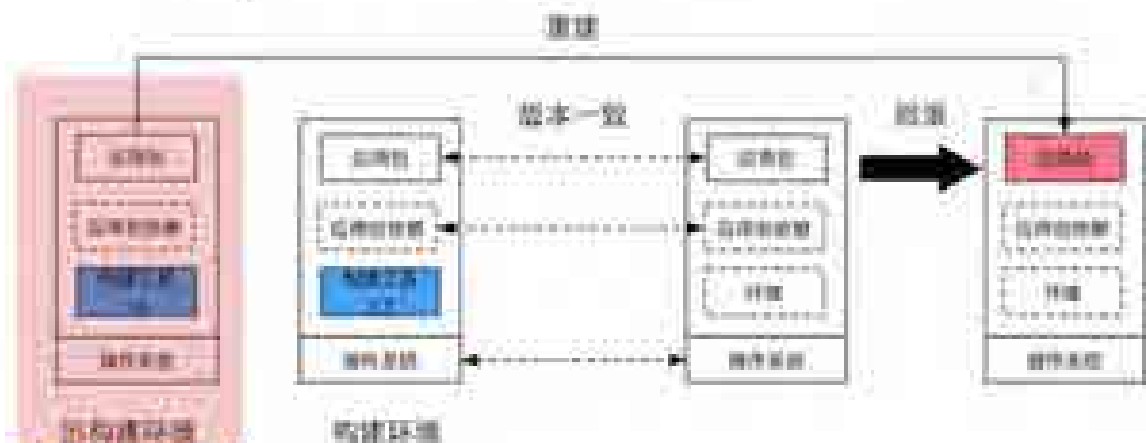
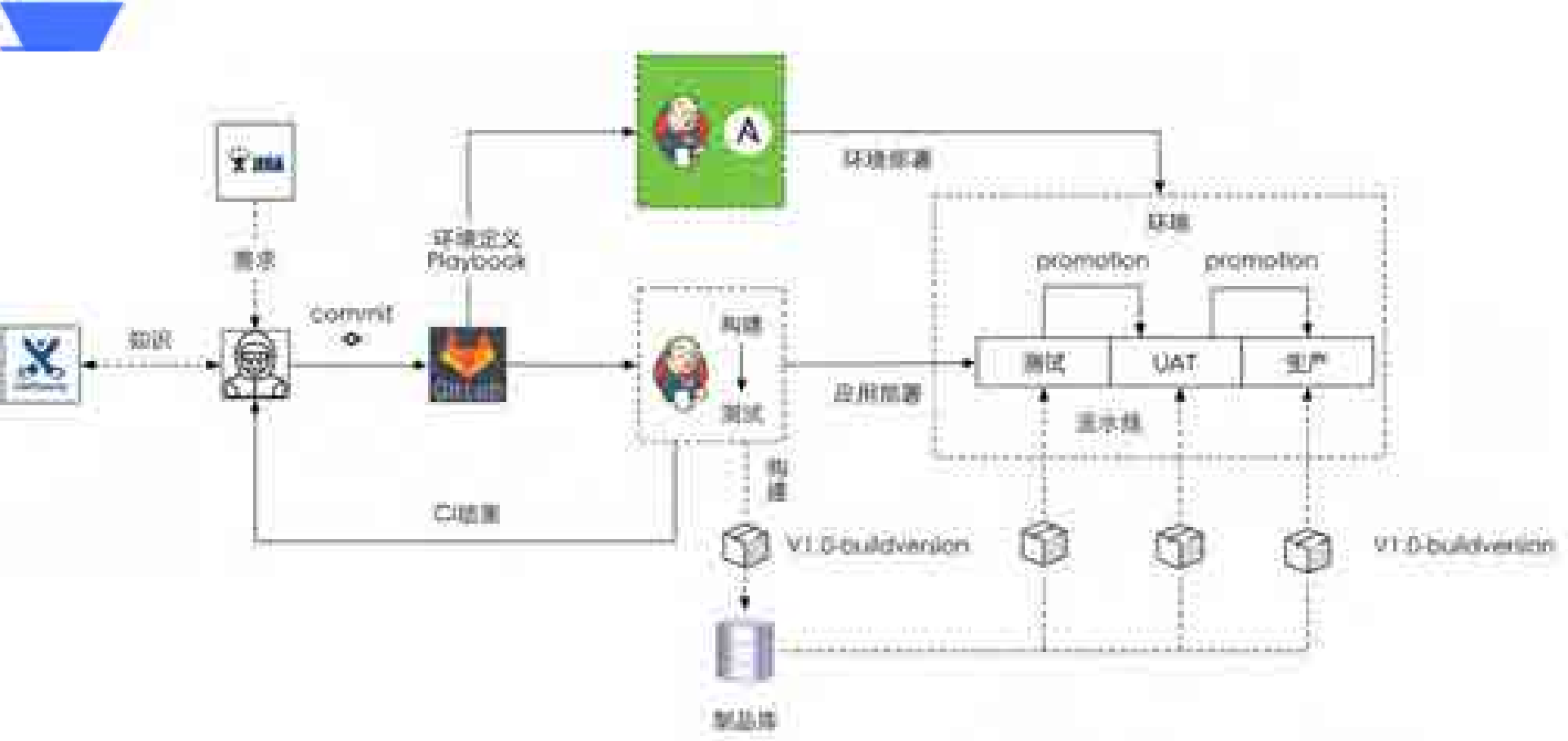


III 持续交付2.0



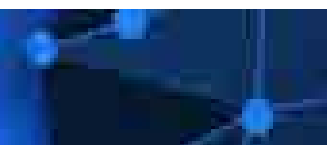


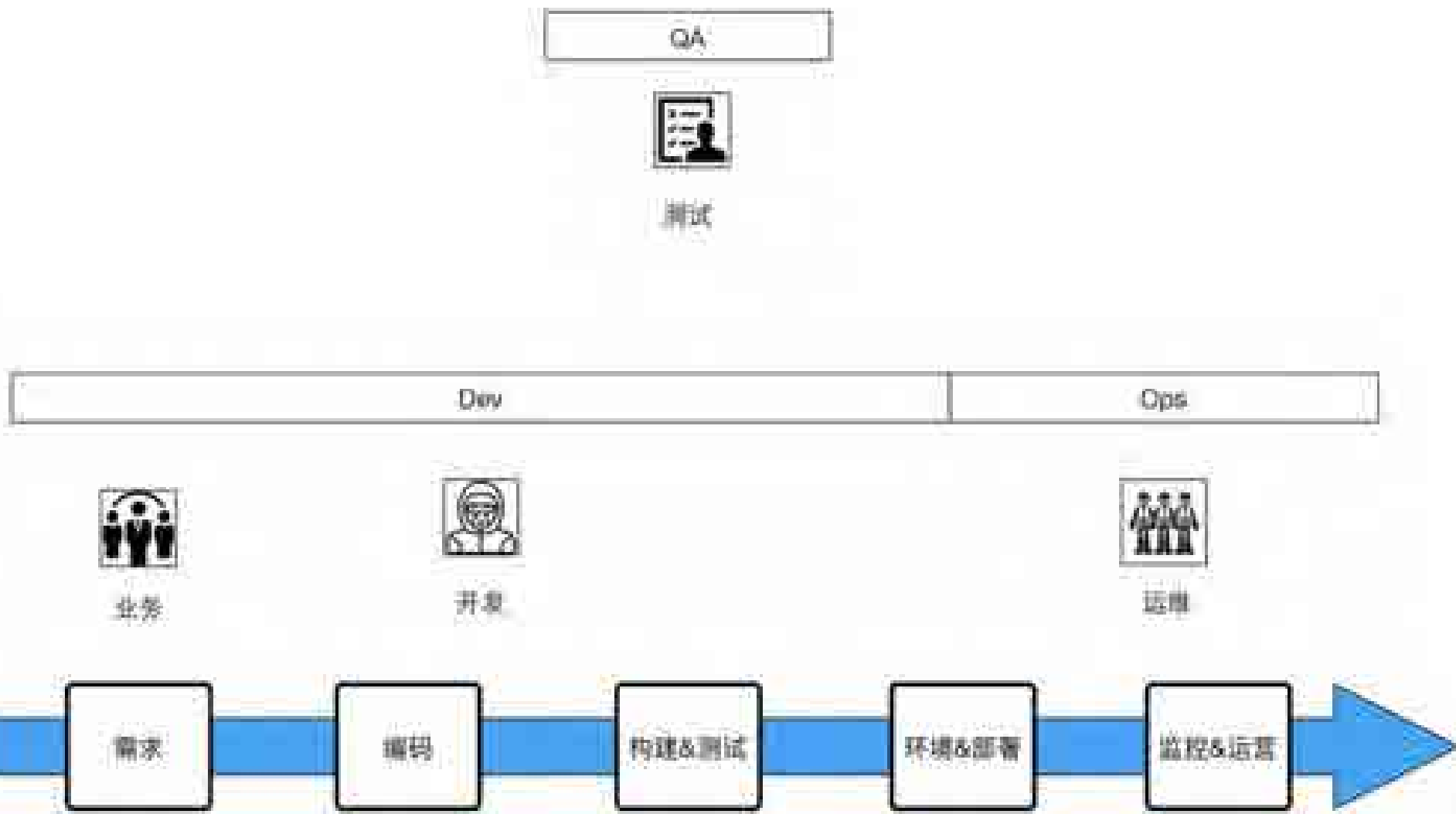
用配置管理工具 (Ansible) 管理环境





测试人员和测试工作的定位

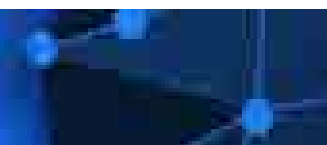


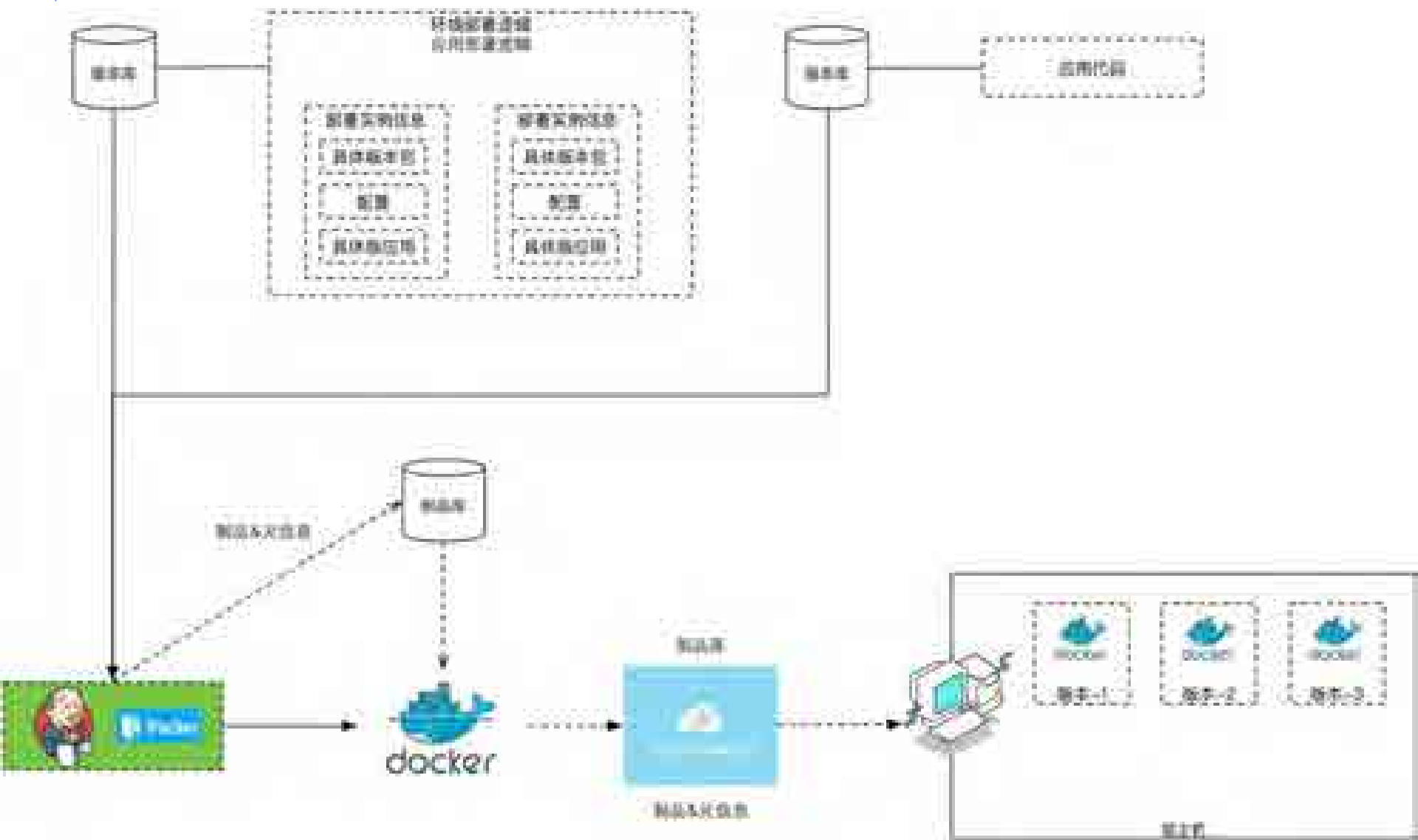


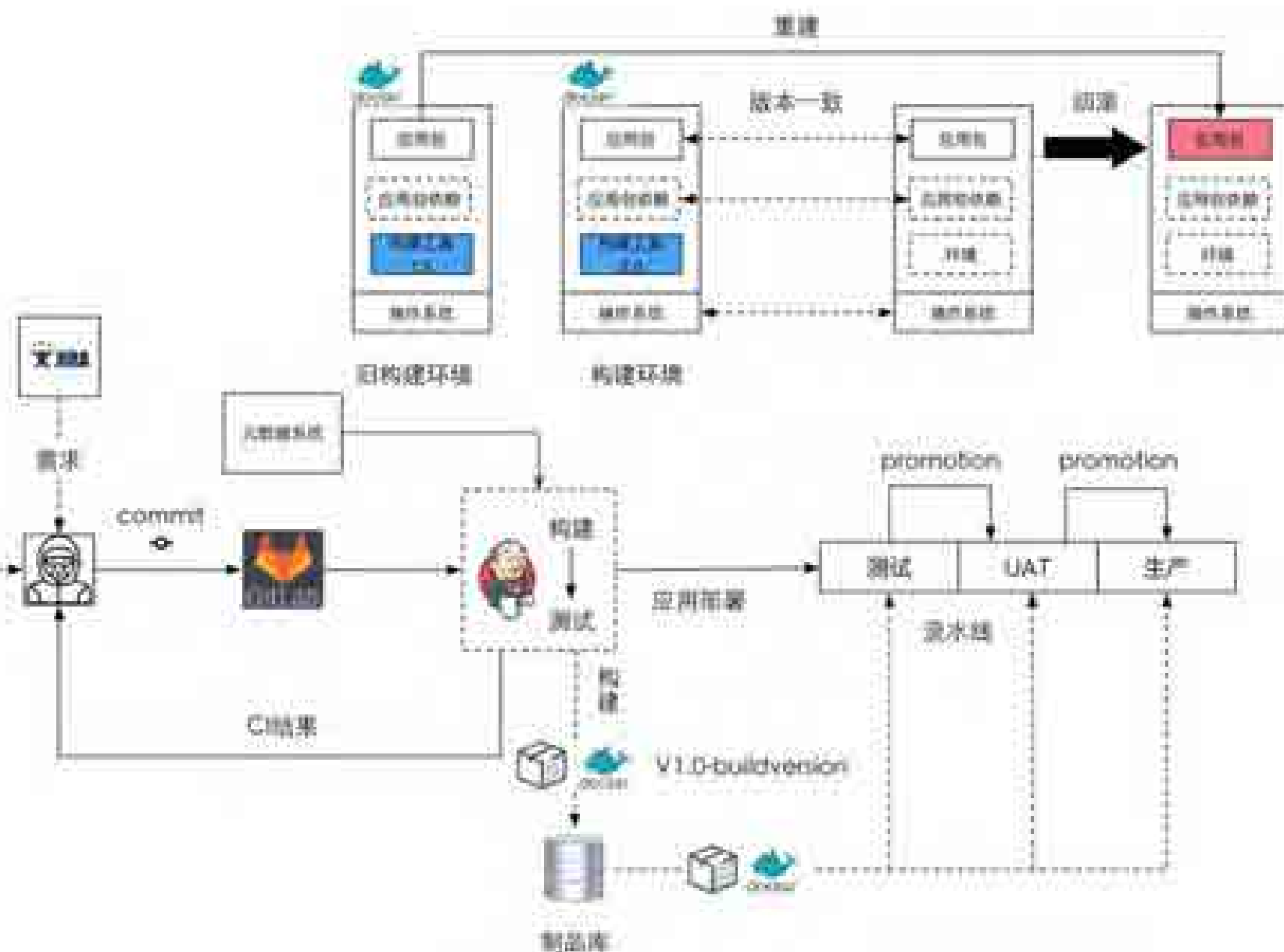


IV

Docker与不可变部署

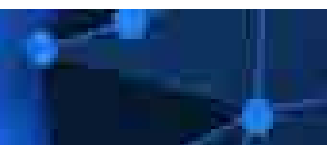


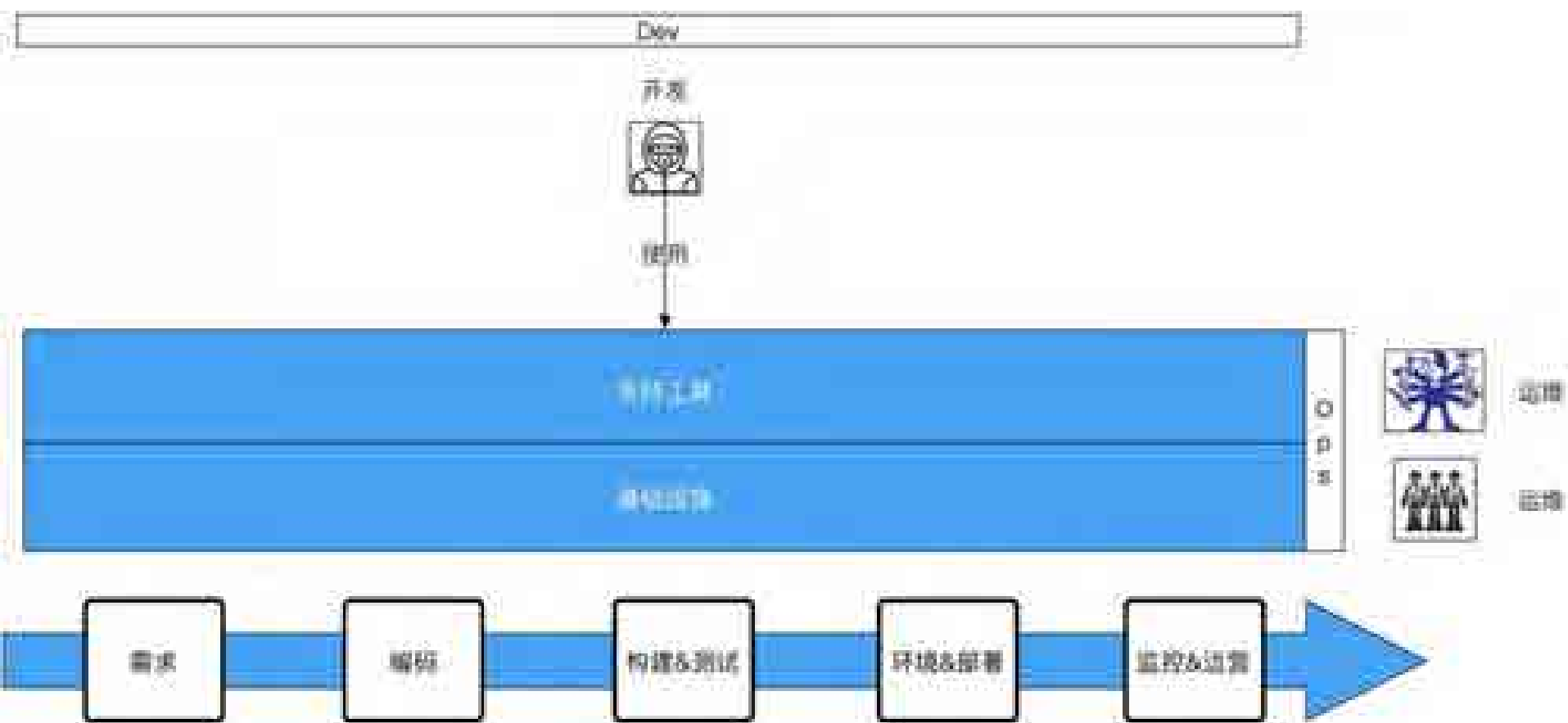






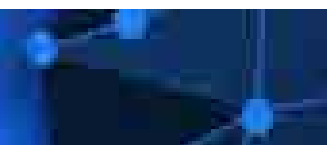
运维人员和运维工作的定位

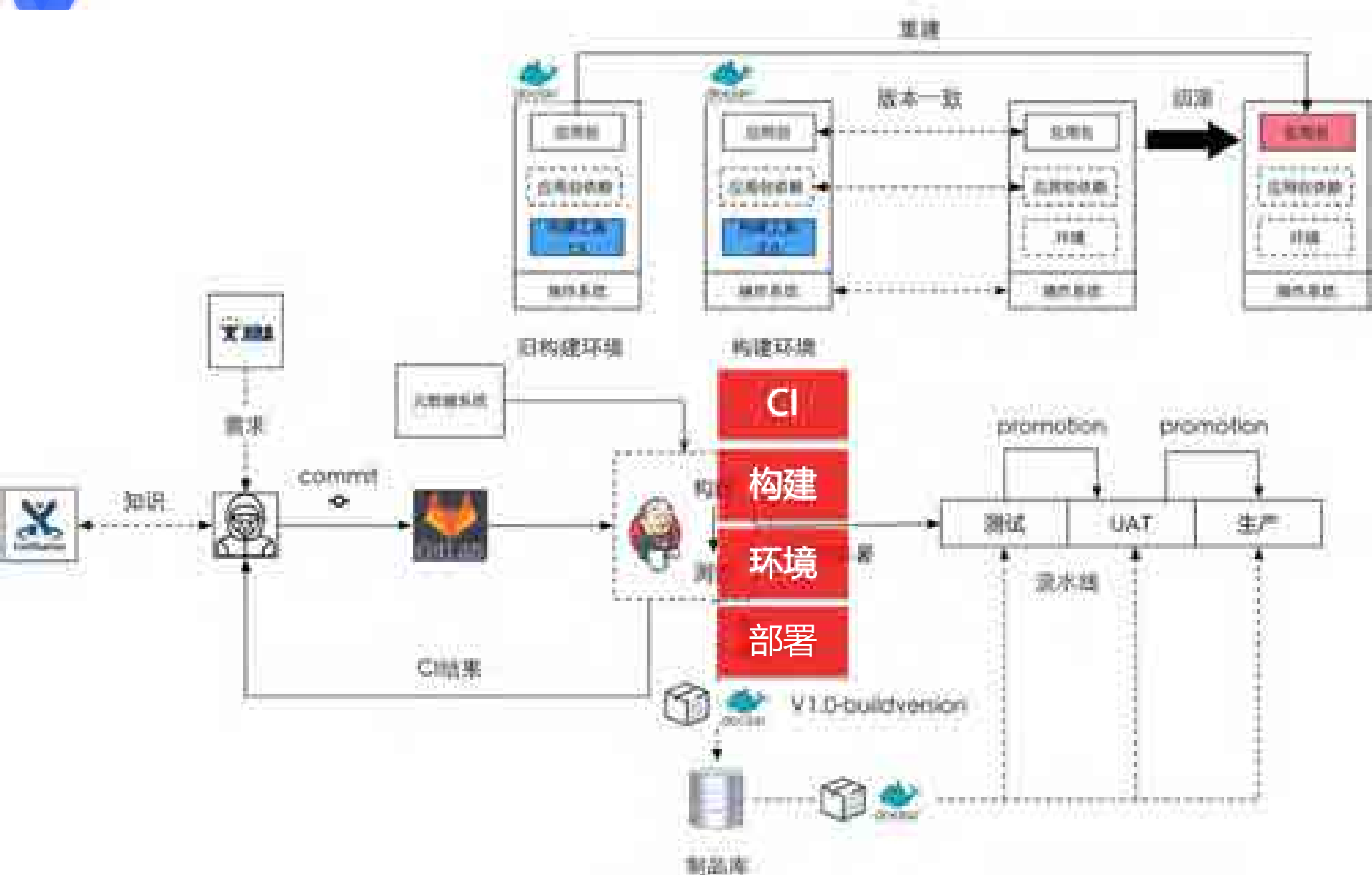






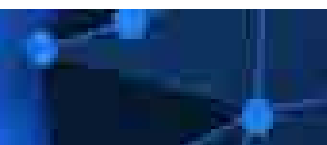
JENKINS承担了太多职责





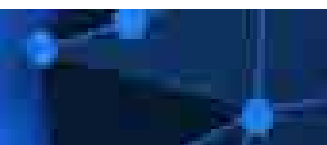


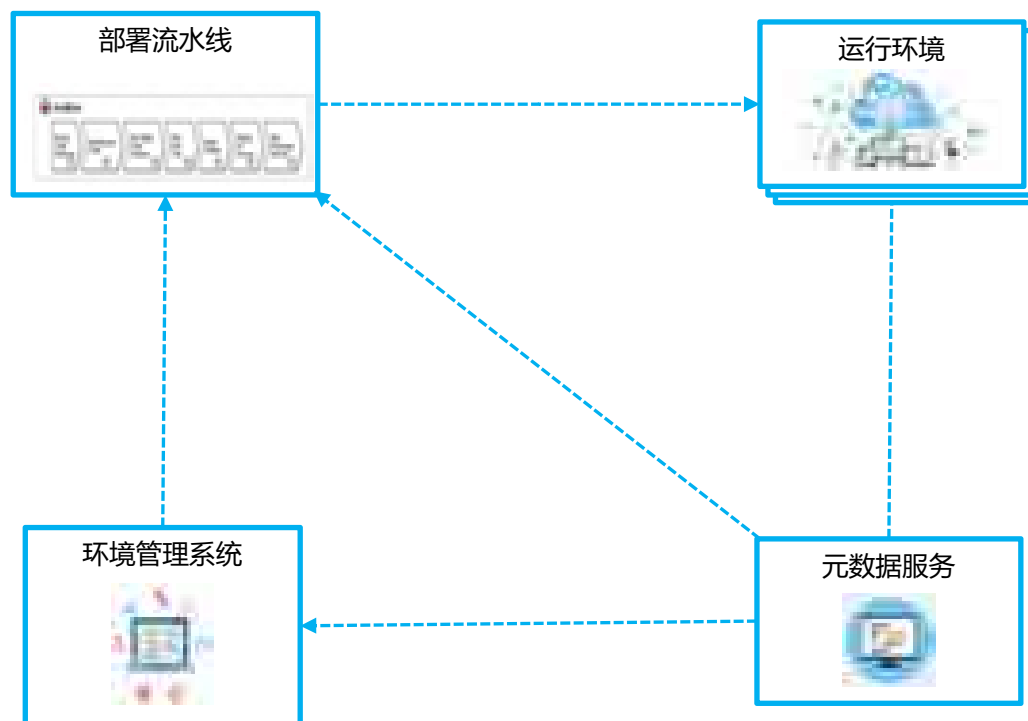
V 持续交付3.0





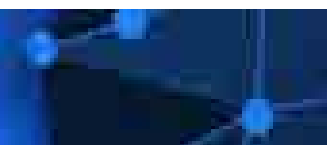
关键工作系统化







将编程性工作变成 配置性工作





在专属系统内可以开始考虑
更细节的工作



- 需求管理
- 发布计划
- 迭代计划
- 体验计划
- 项目管理

需求

- 版本控制
- 编码规范
- 代码检查
- 分支管理
- 代码评审
- 测试平台
- 持续集成
- 构建平台
- 制品管理
- 知识系统

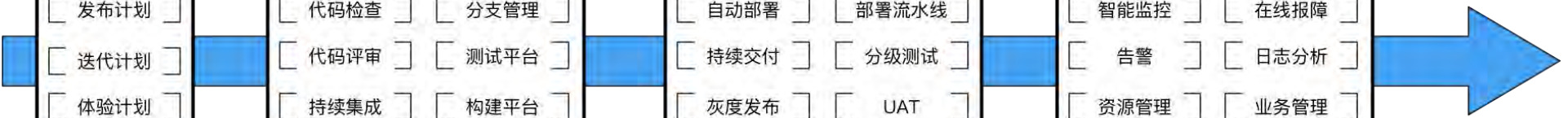
开发与测试


- 配置管理
- 环境管理
- 自动部署
- 部署流水线
- 持续交付
- 分级测试
- 灰度发布
- UAT
- 金丝雀发布
- A/B测试

发布与部署

- 基础资源监控
- 应用监控
- 智能监控
- 在线报障
- 告警
- 日志分析
- 资源管理
- 业务管理
- 变更管理
- 研发数据分析

监控与运营





软件开发交付的应该是运行的系统

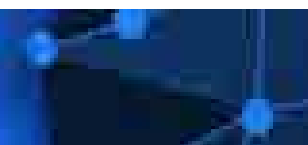
可配置
可重建
可追溯

自动化
服务化
可视化



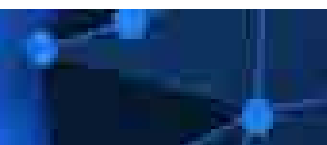
VI

自改进体系





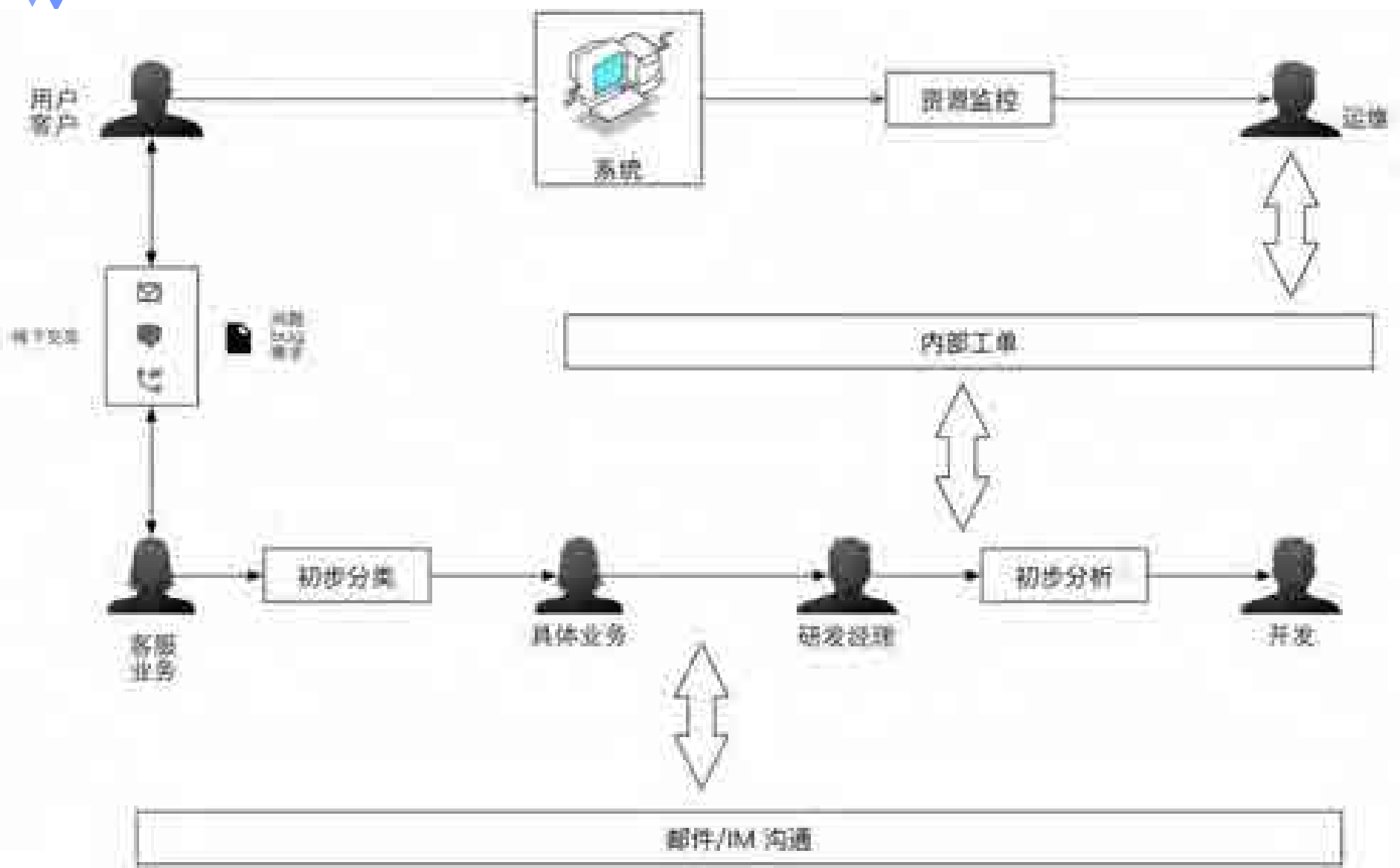
报障和事故分析

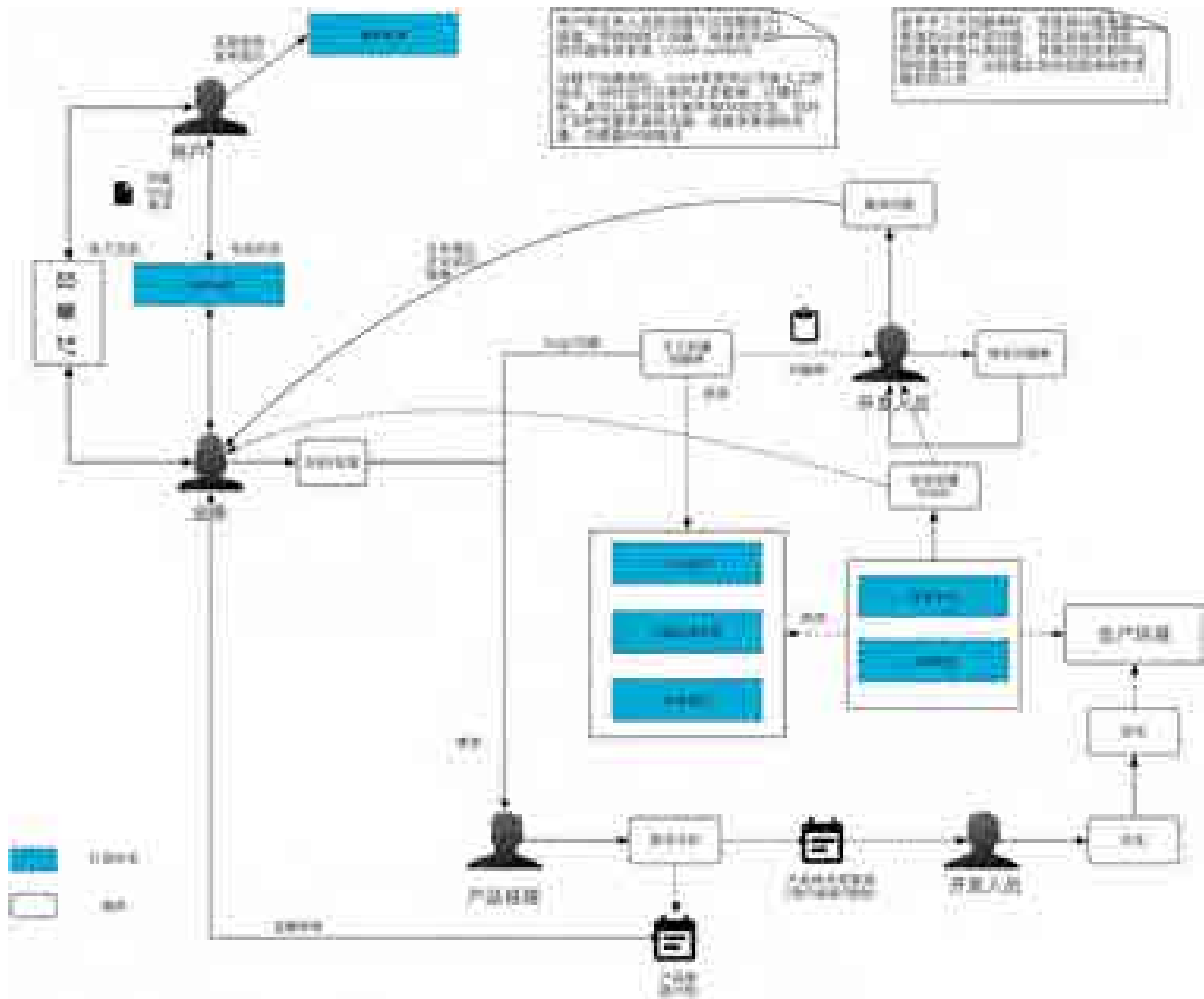




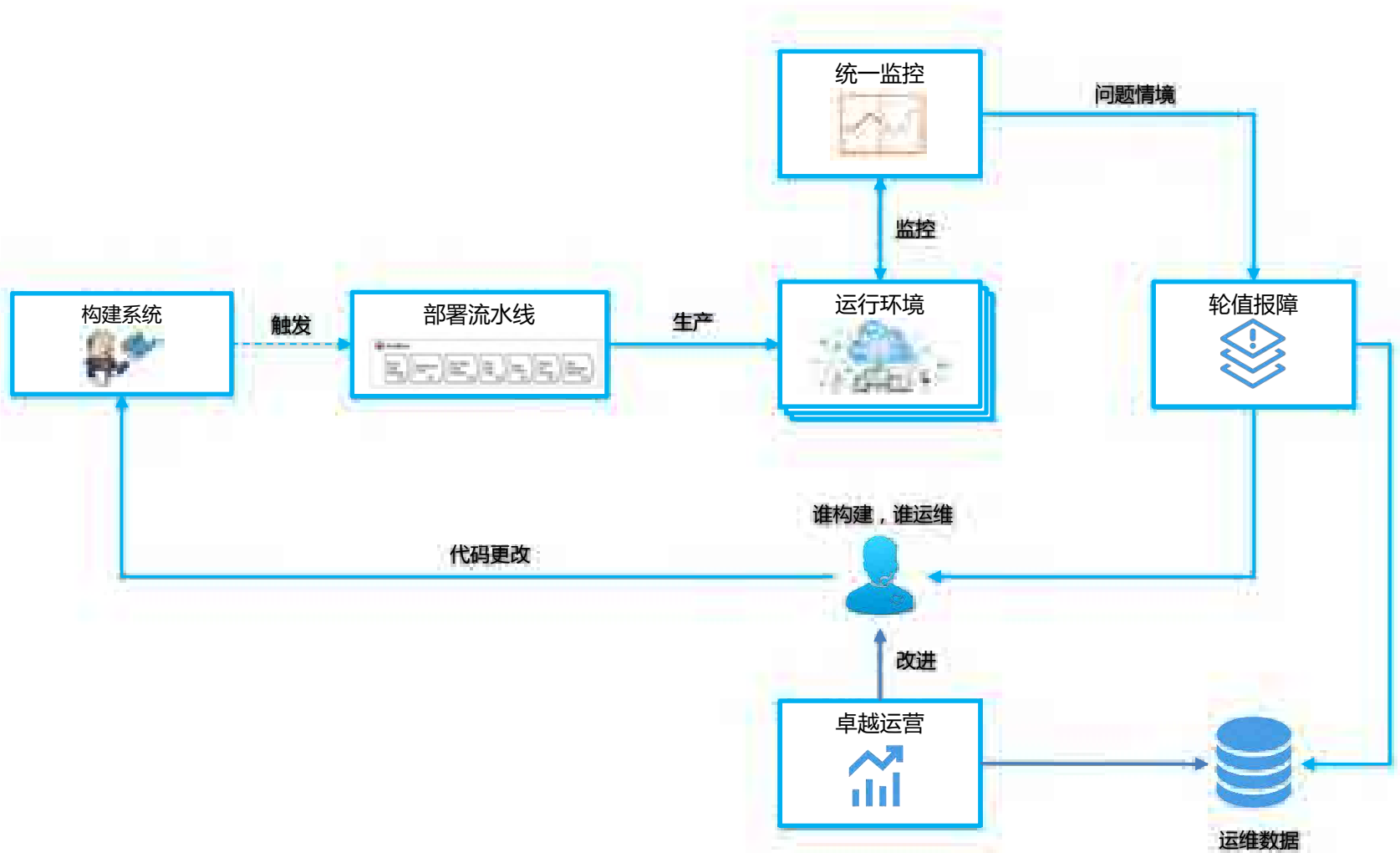
我们期望 - 问题一旦发生可以：

- 迅速发现
- 迅速定位
- 迅速跟进
- 迅速解决
- 促进分析
- 产生改进
- 积累知识
- 支撑管理





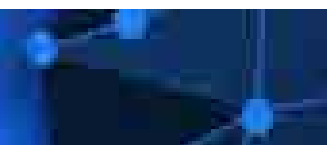
建立业务和研发（开发+运营）的高效业务实施和反馈闭环







运营目标与运营数据

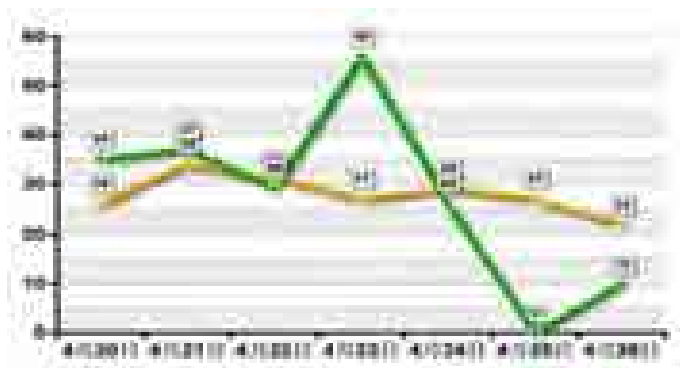


历史数据

目标设定
目标拆解

实时数据

汇总分析
目标跟进



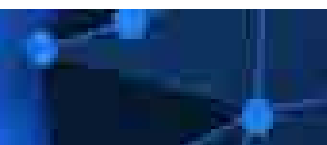
趋势报告

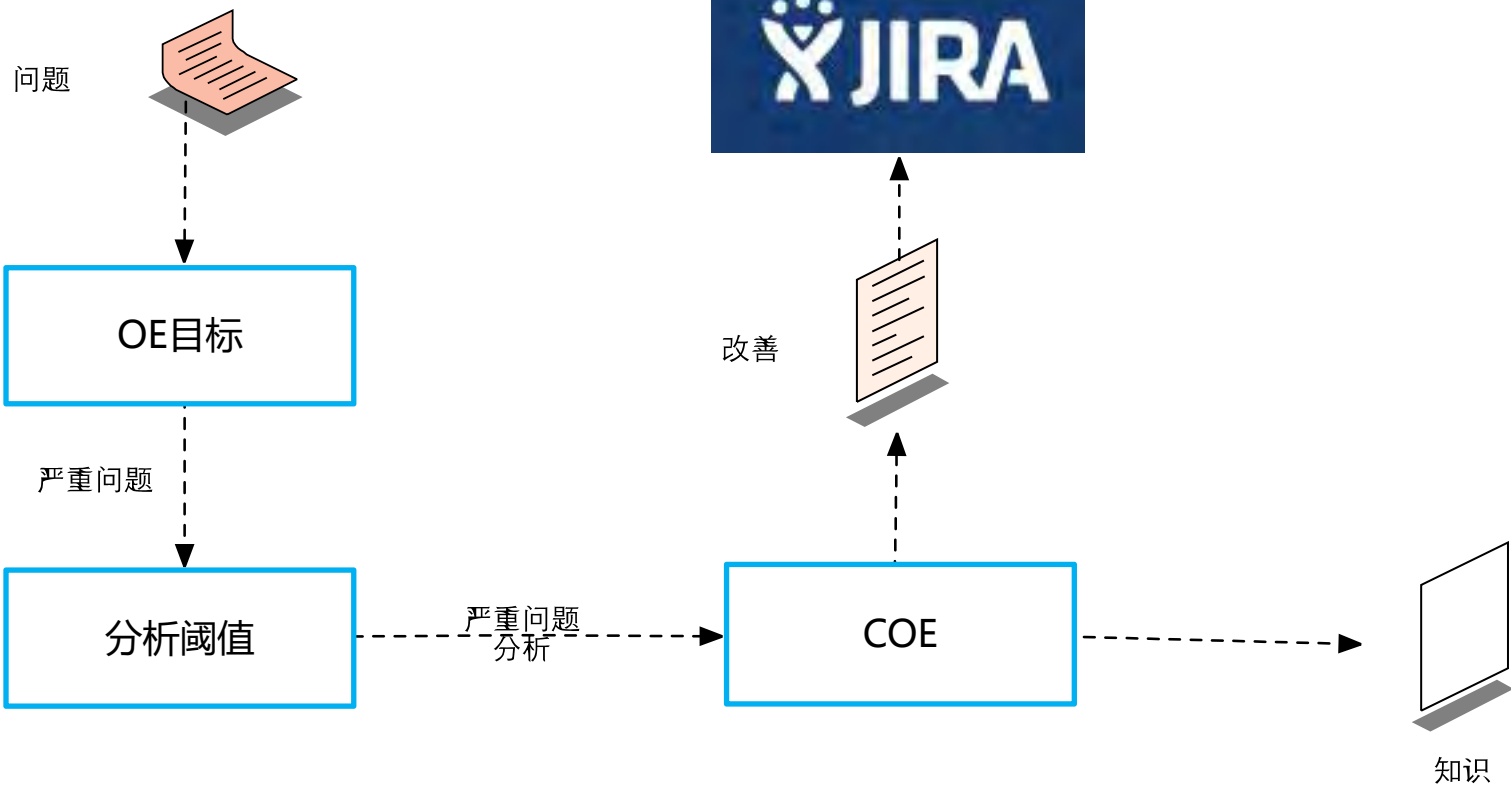


时效性分析



问题分析

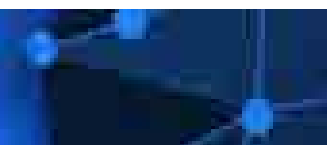






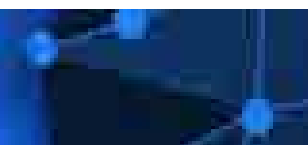
VII

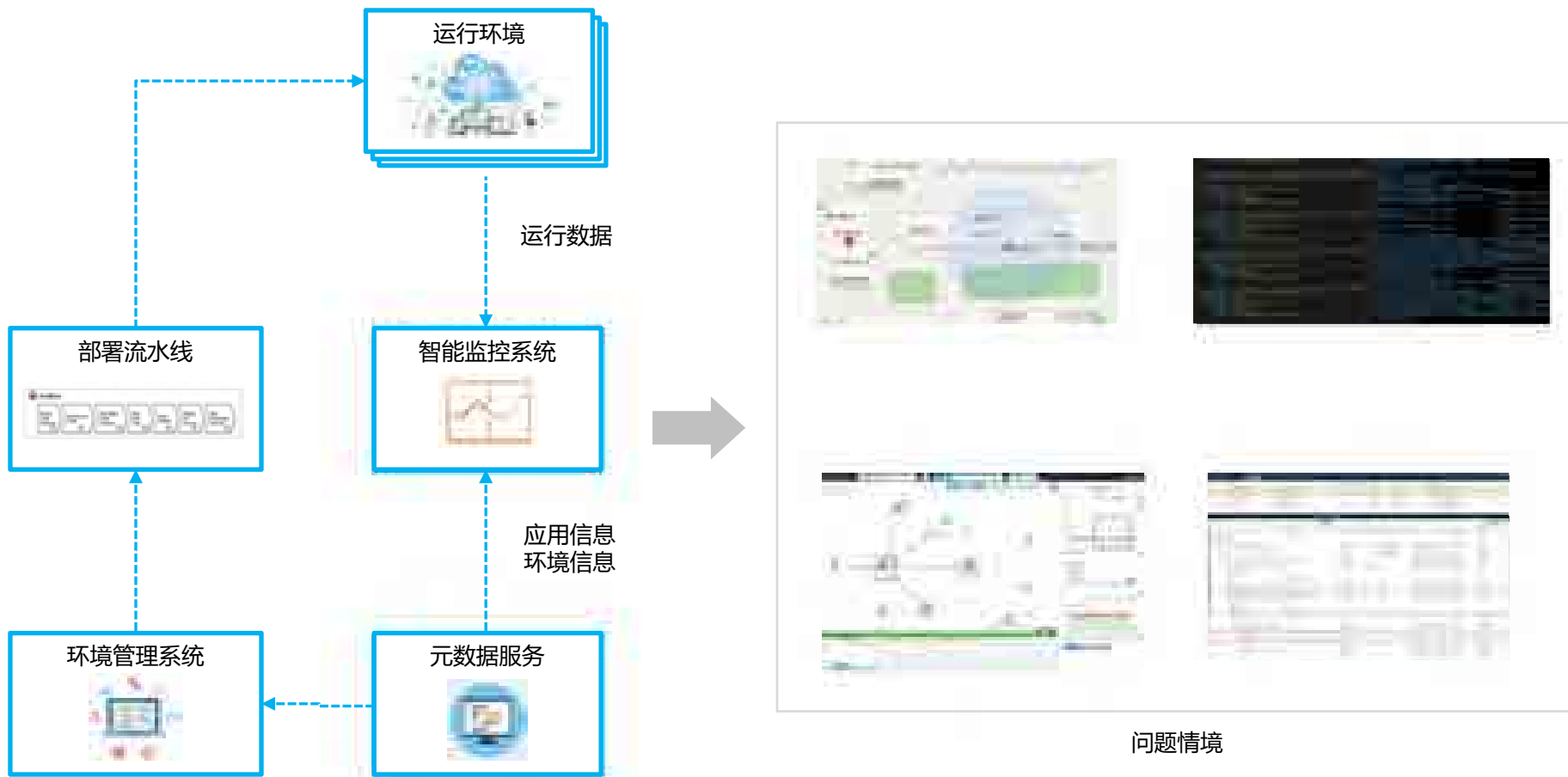
APM、日志与追踪





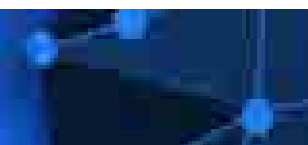
场景化运维：定位到点

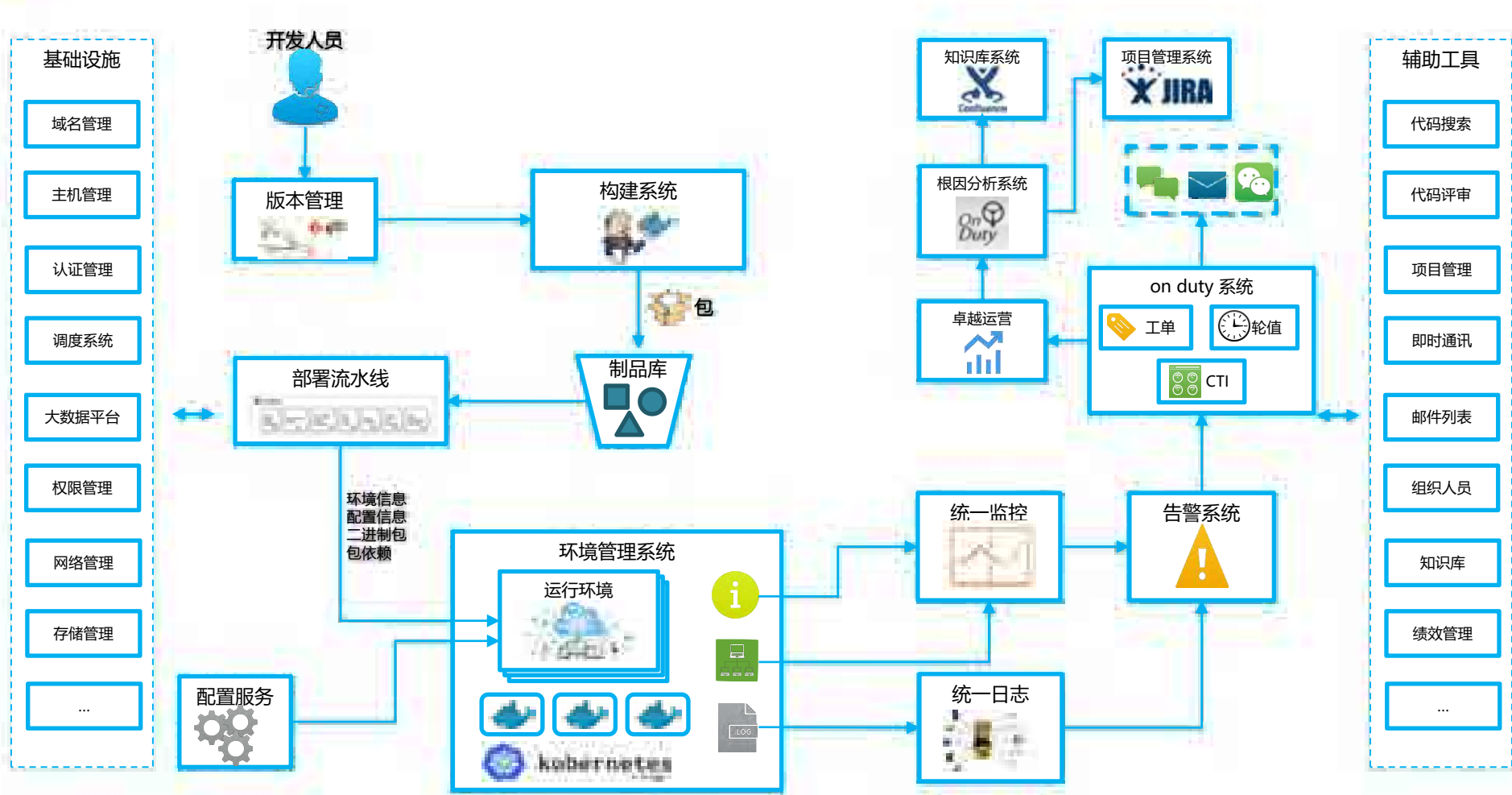


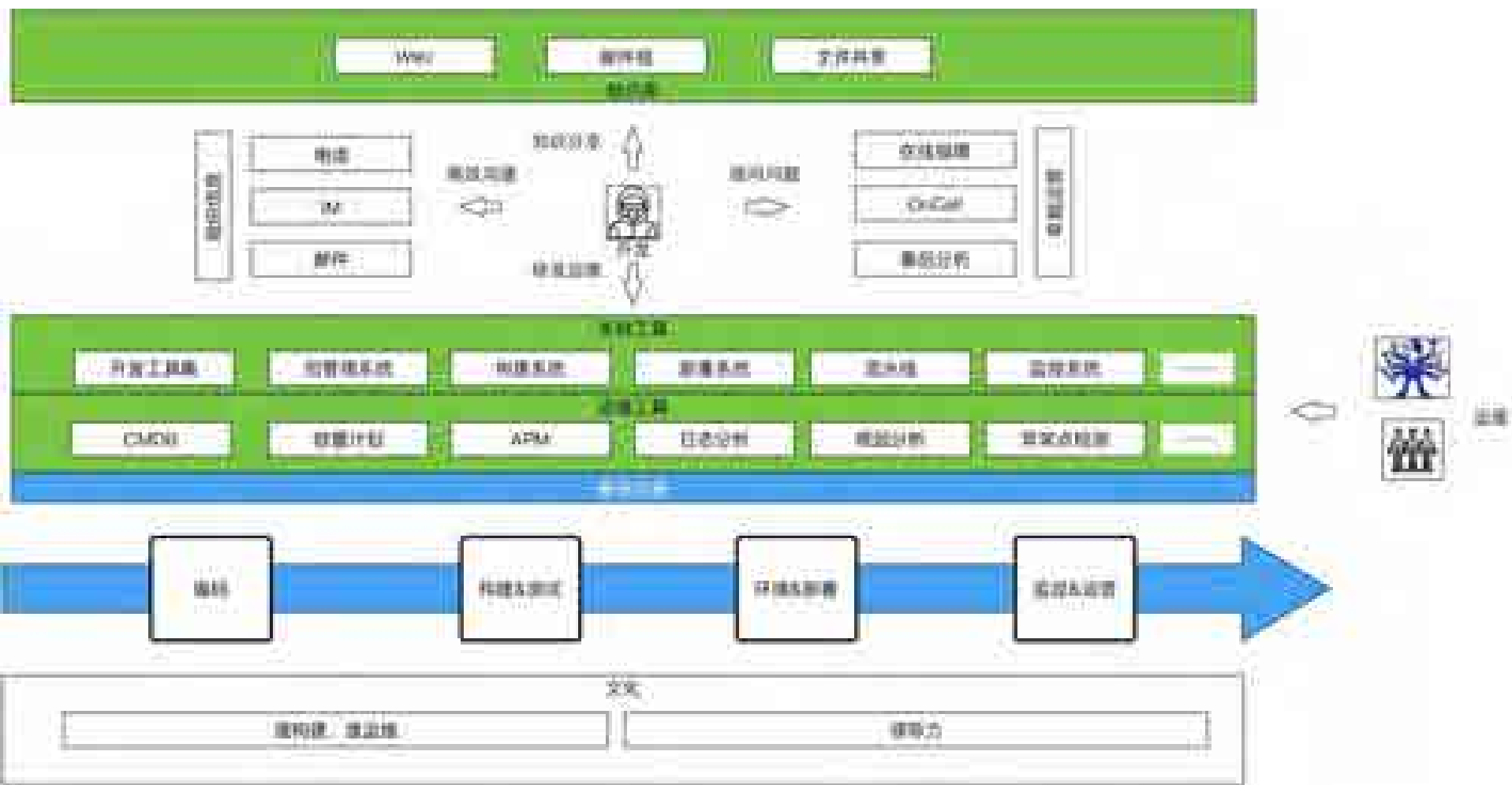





全景图









下一步：AIOps



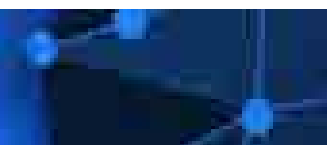
总结



运维侧的目标是自治系统



研发侧的目标是ADPaas





先利用开源，需要时自研

The logo for Gdevops features a stylized orange 'G' followed by the word 'devops' in white lowercase letters. The background is blue with faint white lines forming a grid and several dark, abstract shapes.

Gdevops

全球敏捷运维峰会

THANK YOU !