

2018 中国·北京站 DevOps 落地, 从这里开始

Devops Himite

暨 DevOps 金融峰合







2018年6月29日-30日

地址:北京悠唐皇冠假日酒店



DevSecOps的落地实施建议

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目录

- 1 DevSecOps
 - 2 实施前的准备工作
 - 3 实施案例剖析及建议

DevSecOps

2012年,Gartner介绍了 DevSecOps的概念(最初使用 "DevOpsSec")

从2017年开始DevSecOps成为 热门词汇。

来源:gartner.com,rsaconference.com



Moscone Center | San Francisco February 13 – 17, 2017

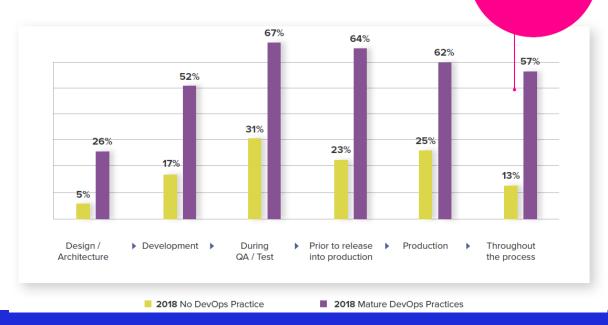






At what point in the development process does your organization perform automated application security analysis?

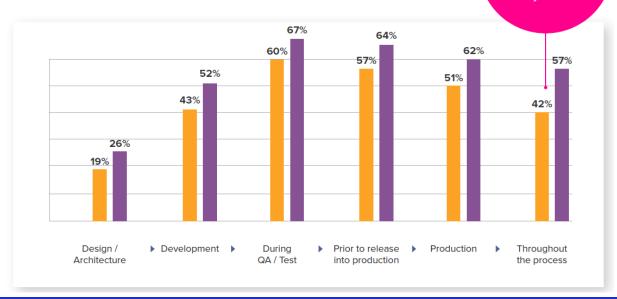
Mature DevOps
practices are 338%
more likely to integrate
automated security.





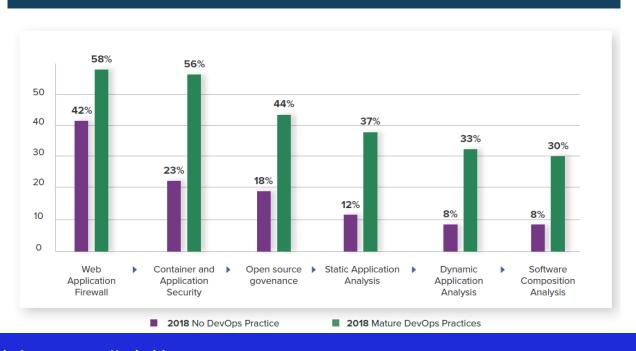
At what point in the development process does your organization perform automated application security analysis?

Mature DevOps practices ramped their investment in automated security by 15%.

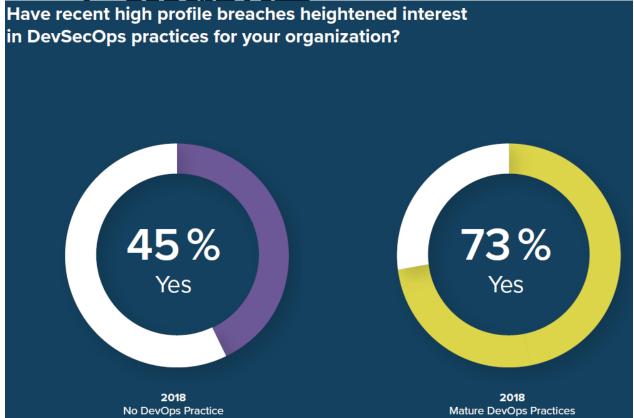




Which application security tools are critical to your organization?

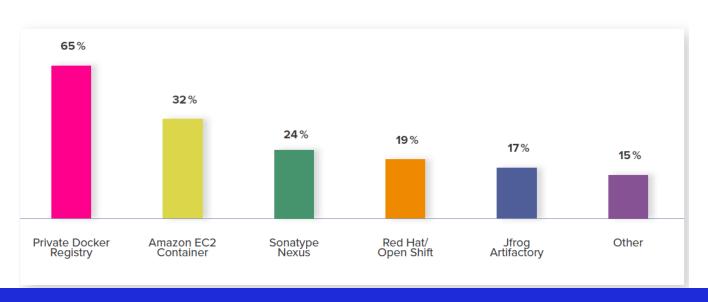






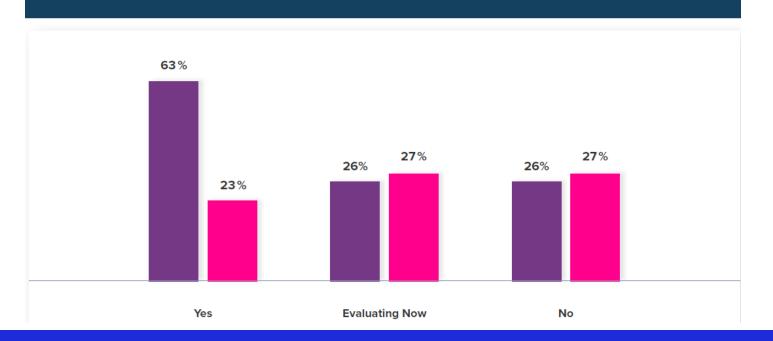


Which private container registries does your organization use?



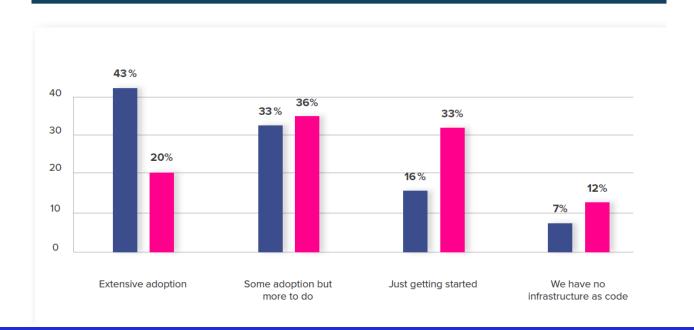


Do you leverage security products to identify vulnerabilities in containers?





Infrastructure as code adoption (e.g., Docker containers, Chef cookbooks, Vagrant boxes).



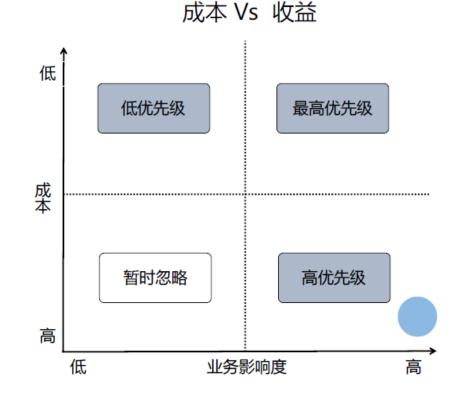


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- 1. 理解业务
 - 知道老板关心什么
- 2. 得到老板支持
 - 在DevOps中增加Sec的好处
- 3. 得到相关同事的支持
 - 提高质量、效率
 - 职业发展



实施前的准备工作-人



- 1. 人是一切的基础
- 2. 打破孤岛
- 3. 培训

- Ensure that security is not a blocker on active development or reviews
- Be empowered to make decisions
- Work with AppSec team on mitigations strategies
- Help with QA and Testing
- Write Tests (from Unit Tests to Integration tests)

- Help with development of CI (Continuous Integration) environments
- to date on modern security attacks and defences
- Introduce body of knowledge from organisations such as OWASP (Top 10, Application Security Verification Standard, Testing Guide etc.)

实施前的准备工作-流程





实施前的准备工作-技术



自动化和配置管理 安全编码 基线加固 持续集成连续交付的修补 应用程序的审核和扫描 自动漏洞管理扫描 自动合规性扫描 敏感信息管理







- 1. 文化
- 2. 自动化
- 3. 精益
- 4. 度量
- 5. 分享



C - Culture

A – Automation

L - Lean

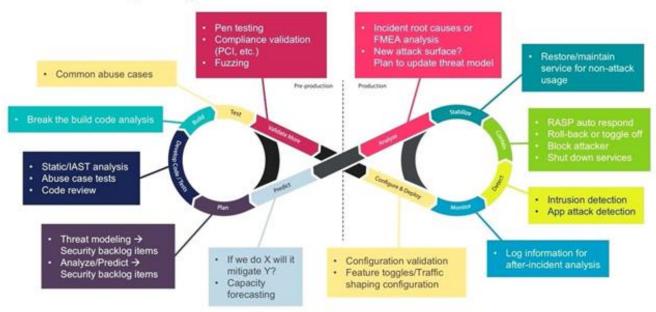
M - Measurement

S – Sharing



确定目标计划

- DevSecOps cycle
- 运营监控
- 响应
- 扫描
- 开发
- •设计
- 需求



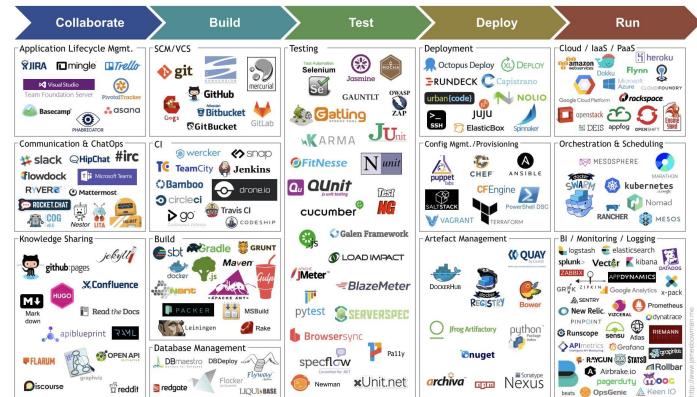


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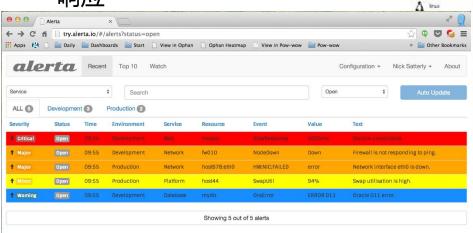


选用合适的工具



chefops

exemples.





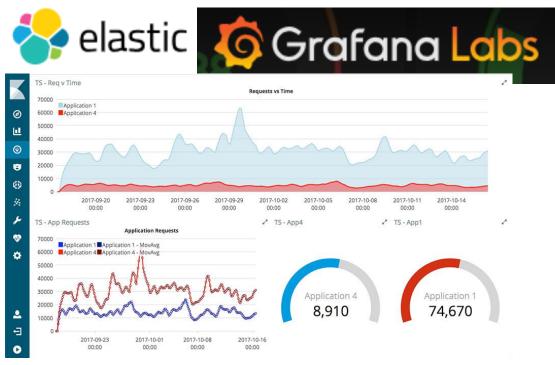




选用合适的工具

• 运营监控





选用合适的工具

- 测试
- OWASP Zed Attack Proxy Project
- OWASP OWTF
- GAUNTLT













选用合适的工具

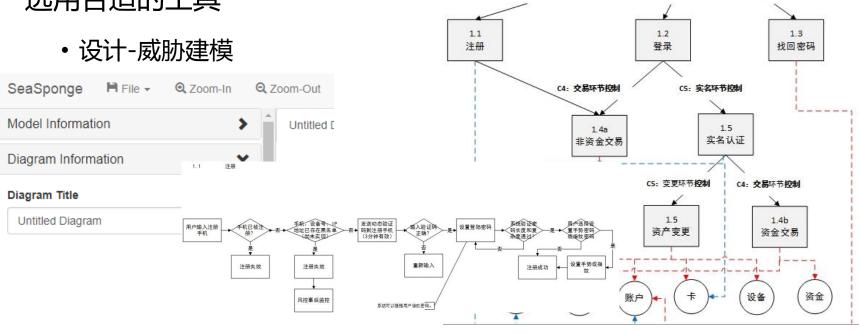
• 源代码扫描







选用合适的工具



DOIS

C3: 栈回密码环节控制

(iOS、Andriod)

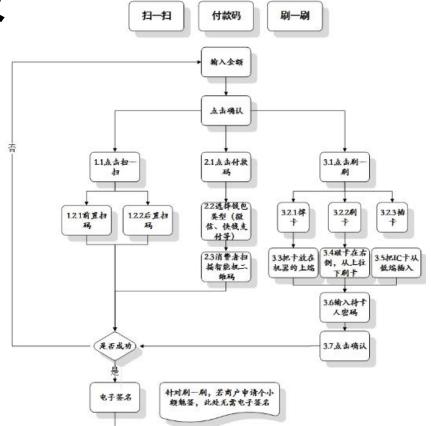
C2: 登录环节控制

C1: 注册环节控制

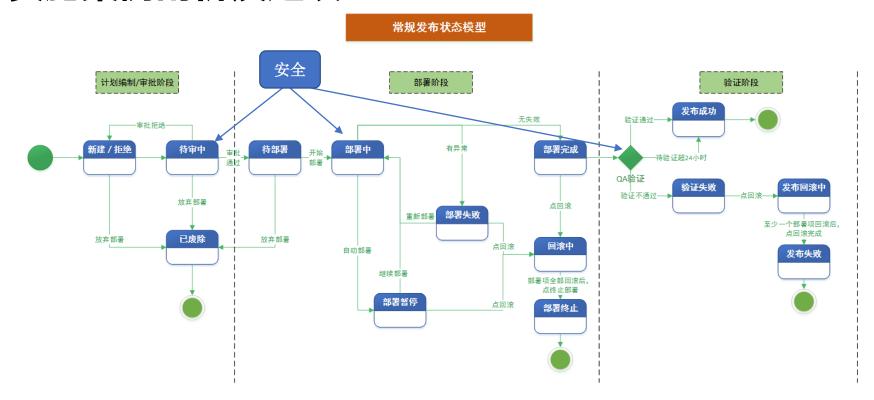


选用合适的工具

• 需求







实施案例剖析



1. 从易到难

- 利用现有平台、工具
- 减少手工操作
- 手工补充
- 自动代码扫描(最容易接受并使用)

2. 后续计划

- 自动编码
- 自动需求分析
- 自动架构设计



实施案例剖析-人员收获





代码质量提高效率提升

安全测试:

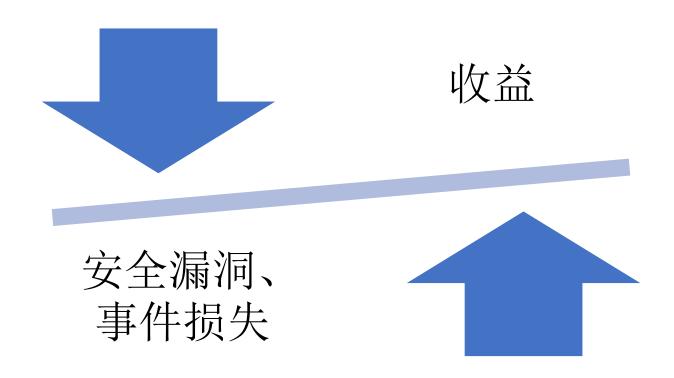
工作量明显减少

运维:

OnCall的时候电话少了

实施案例剖析-经济收益









Thanks

DevOps 时代社区 荣誉出品







