

# 初创团队的 测试技术选型

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# 初 创 团 队

为什么分享这个主题？

坑，工具选型，演进

缺钱?

缺人?

# 初创团队

缺客户?

频繁变更?

文档不规范?

流程体系不完善?

= > 低成本试错  
与时间赛跑

# 低成本试错

—— 打造最小可行性产品 **错误** 步骤 ——



—— 打造最小可行性产品 **正确** 步骤 ——



# 对于技术团队意味着什么

## 破碎&重建

关注自动化和效率提升

用例管理?

缺陷管理?

# 测试技术

测试工具?

专项测试?

测试环境管理?

业务数据管理?

自动化框架?

源码静态扫描?

Testlink? JIRA? Redmine? 禅道?

# 测试技术

Postman?  
SoapUI?  
Ghost Inspector?

JMeter? Burp Suite

plutora? testarchitect?

自研测试平台?

TestNG? Robot Framework?

PHPQA? Sonar?

Cucumber?

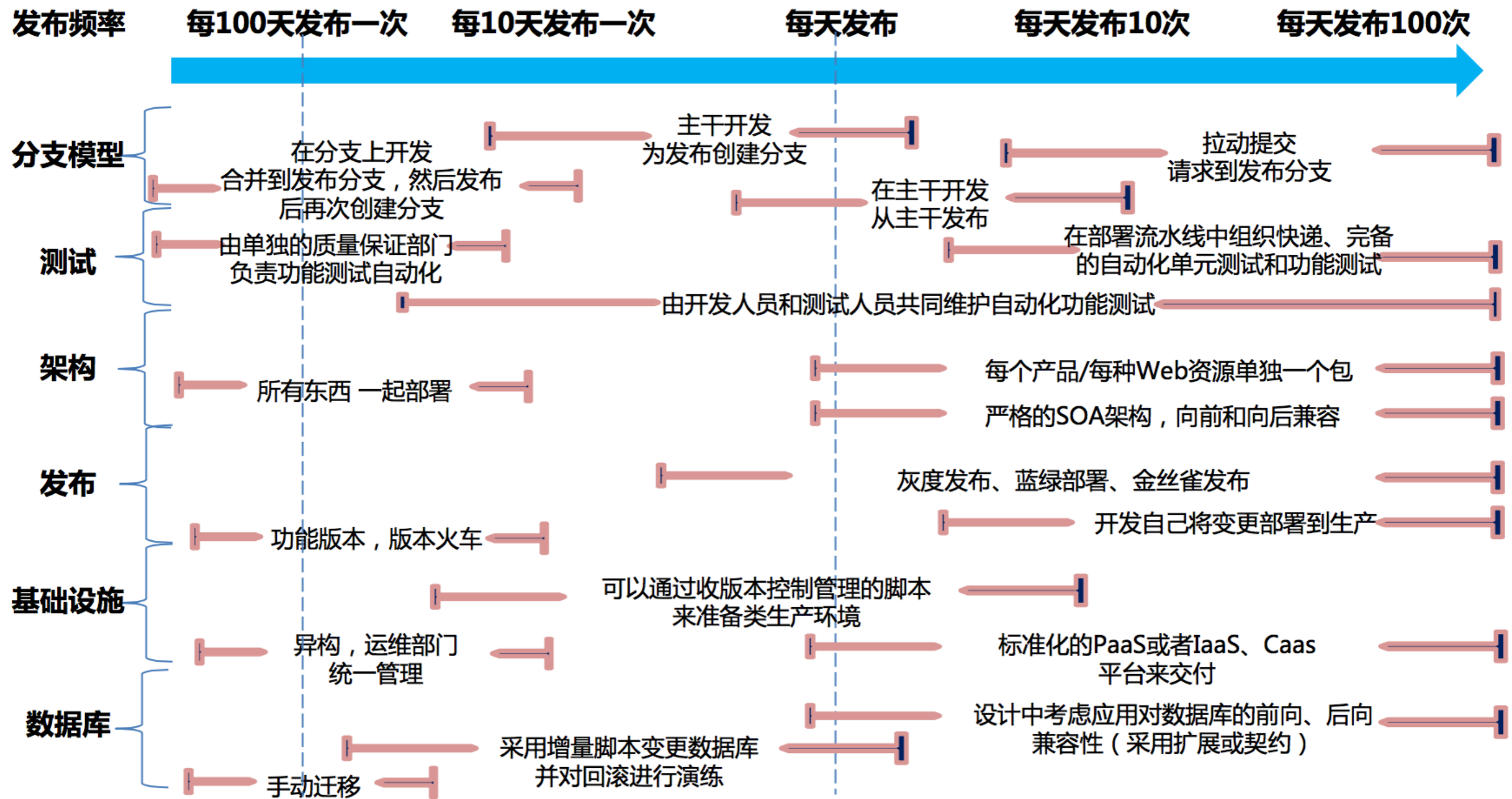


# 需要达成的共识

工具选型：使用免费开源还是商业版？

职能边界：开发，测试，还是运维来做？

测试人员结构：内部测试，还是外部服务？



图片参考：《Lean Enterprise》

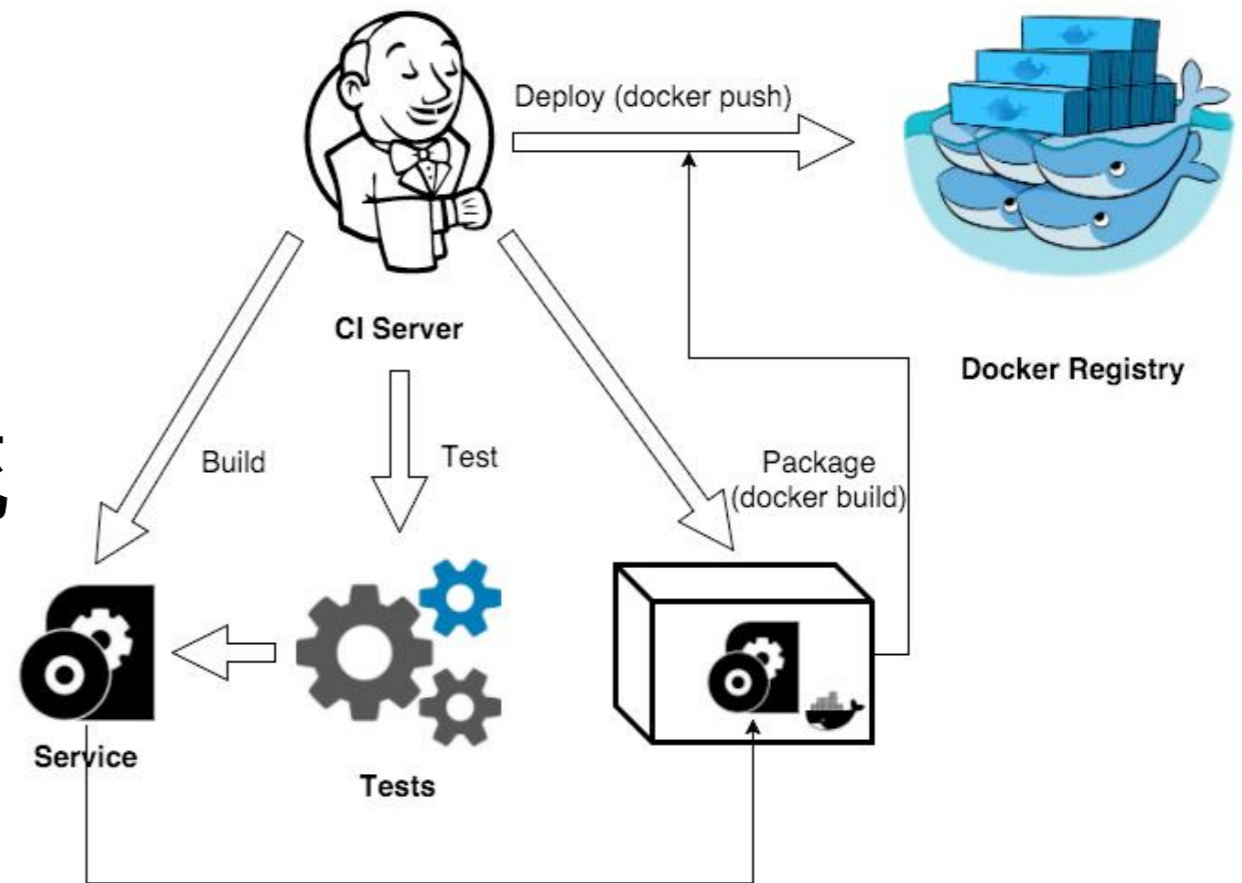




组织的演进

配置管理及代码协作 workflow

可靠可重复的交付流水线



那些从入门到放弃的故事...

- Restlet Client(DHC)
- Postman
- ReadyAPI(SoapUI)
- JMeter
- .....
- Python: ddt, proboscis
- Java: Rest-assured
- PHP
- Go
- .....

参数化      多环境切换      Assertion  
可编程性      终端执行      报告生成

# 从入门到放弃：ReadyAPI(SoapUI)

**优势：** 界面友好，Assertion 功能强大，方便持续集成。

**劣势：** 项目变更不方便 Review，客户端操作容易卡死。

The screenshot displays the SoapUI interface with the following components:

- Properties:** A table with columns for Name, order\_no, subject, body, and appld. The 'appld' field is highlighted.
- Configuration:** A section with an 'Edit' button and a list of configuration items:
  - 1 // NOTE: yo
  - 2 // Doc no
  - 3
  - 4 def activeE
  - 5 // such as:
  - 6 def paramet
  - 7 // such as:
  - 8 def paramet
  - 9 def app = c
  - 10 def app\_cil
  - 11
  - 12 // Check th
  - 13 testRunner.
- TestSteps:** A list of test steps including:
  - Test Request: login
  - Test Request: search
  - DataSource: Item DataSource
  - Property Transfer: Search String
  - Test Request: buy
  - Groovy Script: showInfoMessage
  - DataSource Loop: Item DataSource
  - Test Tequest: logout
- Test Result (失败):** A list of failed test cases:
  - RedEnvelope\_TK.GetRedEnvelopes.GetRedEnvelopesByExpand
  - RedEnvelope\_TK.GetRedEnvelopes.GetRedEnvelopesByChannel\_Status
  - Event\_TK.GetEvent\_Negative.GetEvent-InvalidType
  - Event\_TK.GetEvent\_Negative.GetEvent-InvalidEventId
  - Event\_TK.GetEvent\_Positive.GetEventById-summary.daily.available
  - Event\_TK.GetEvent\_Positive.GetEventById-summary.weekly.available
  - Event\_TK.GetEvent\_Positive.GetEventById-summary.monthly.available
  - Event\_TK.GetEvent\_Positive.GetEventById-charge.succeeded
  - Event\_TK.GetEvent\_Positive.GetEventById-refund.succeeded
  - Event\_TK.GetEvent\_Positive.GetEventById-transfer.succeeded
- Module Builds:** A list of build results:
  - ChargeTests-livemode (didn't run)
  - EventTests-livemode (didn't run)
  - RedEnvelopeTests-livemode (didn't run)
  - RefundTests-livemode (didn't run)
  - Transferests-livemode (didn't run)
  - SoapUI tests (didn't run)
  - ChargeTests-testmode 2分9秒
  - EventTests-testmode 1秒
  - RedEnvelopeTests-testmode 21秒
  - RefundTests-testmode 1分31秒
  - TransferTests-testmode 21秒
  - SoapUI tests 1.9秒



# 从入门到放弃：nGrinder

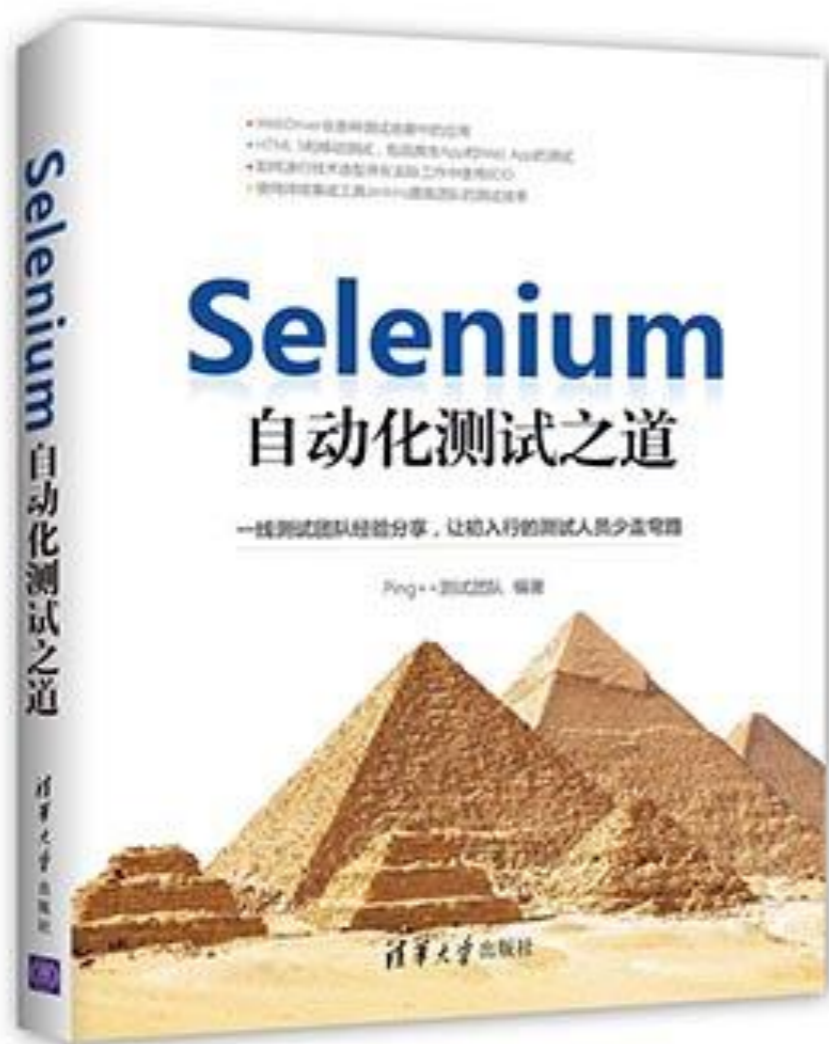
**优势：**上手快，适合不同角色协作，便于分布式执行。

**劣势：**数据图表功能不够丰富。

The screenshot displays the nGrinder web interface with several key components:

- Configuration Panel (Left):**
  - Test Name:** 6\*pingxx
  - Script Name:** (empty)
  - Commit Message:** (empty)
  - Basic Configuration:**
    - Agent:** 16 (Max: 4)
    - User per agent:** 198 (Max: 3000)
    - Script Resources:** lib/lib/apigsigntool.jar, lib/lib/commons-codec-1.10.jar
    - Script:** lib/CrChWx.py
    - Script Resources:** lib/lib/apigsigntool.jar, lib/lib/commons-codec-1.10.jar
    - Duration:** 03:00 (HH:MM)
    - Run Count:** 0 (Max: 10000)
- Performance Charts (Right):**
  - Mean Time to First Byte (ms):** A line chart showing fluctuating values between approximately 265ms and 1590ms over time.
  - User:** A line chart showing a sharp increase from 0 to 1902 users within the first 15 minutes, then remaining constant.
  - Errors:** A line chart showing error rates fluctuating between 0 and 1014 over the duration.

1. 技术是动力，一定会随着业务发展而破碎重建
2. 明确职能边界，打破思维边界
3. 团队选型，选择团队最熟悉的



既认可手动测试的价值，又积极推行测试自动化；既聚焦产品，也关注流程协作，同时把提升产品质量作为己任。

公众号：加入**Pingplusplus**

谢谢