

# UI 自动化测试

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# 回忆一下

- 写测试方案
  - 打开浏览器
  - 点点点
  - 写测试报告
-

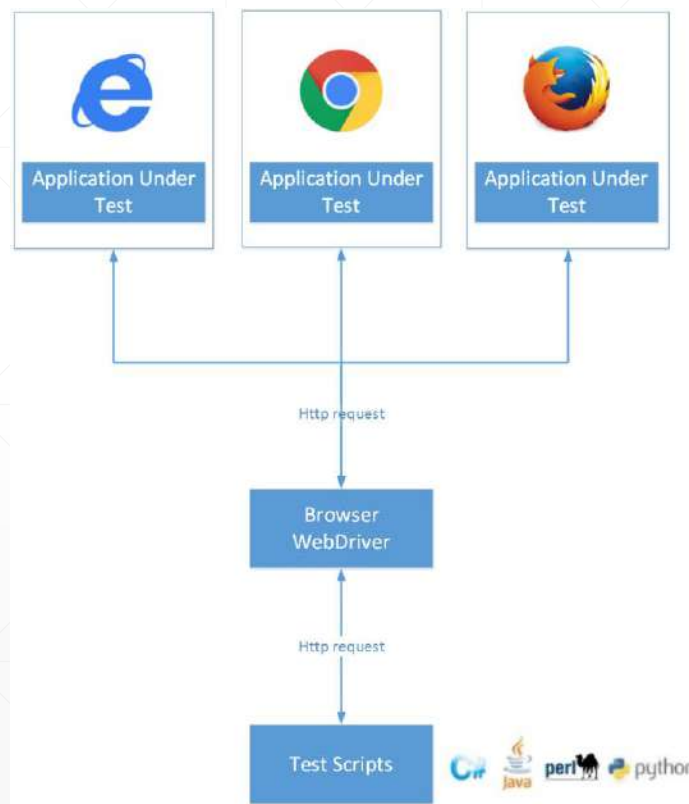
# 什么是自动化测试



怎么点点点

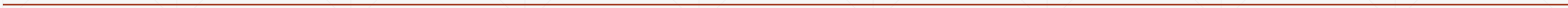


# Selenium 工作原理



# 怎么使用

- 测试框架
- 录制脚本

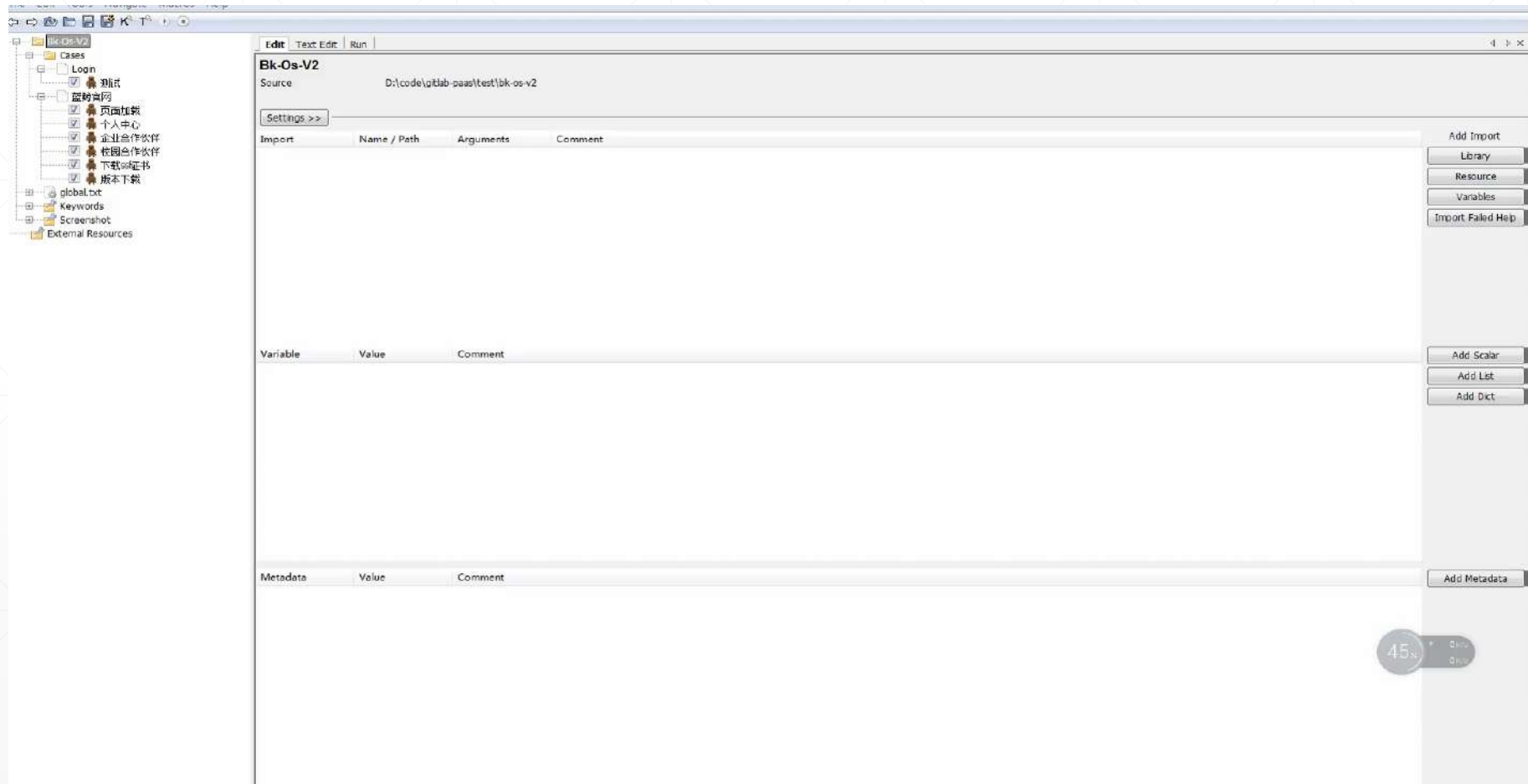


# 测试框架 - Robot Framework

- 可以实现 Web 、 Windows GUI 、 安卓、 IOS、 API 自动化测试



# Demo





# Report

## Bk-Os-V2 Test Report

Generated  
20180826 15:03:51 GMT+08:00  
12 minutes 11 seconds ago

### Summary Information

Status: 3 critical tests failed  
Start Time: 20180826 14:59:21.277  
End Time: 20180826 15:03:51.753  
Elapsed Time: 00:04:30.476  
Log File: [log.html](#)

### Test Statistics

Total Statistics	Total	Pass	Fail	Elapsed	Pass / Fail
<a href="#">Critical Tests</a>	7	4	3	00:04:30	<div><div></div></div>
<a href="#">All Tests</a>	7	4	3	00:04:30	<div><div></div></div>

Statistics by Tag	Total	Pass	Fail	Elapsed	Pass / Fail
No Tags					<div><div></div></div>

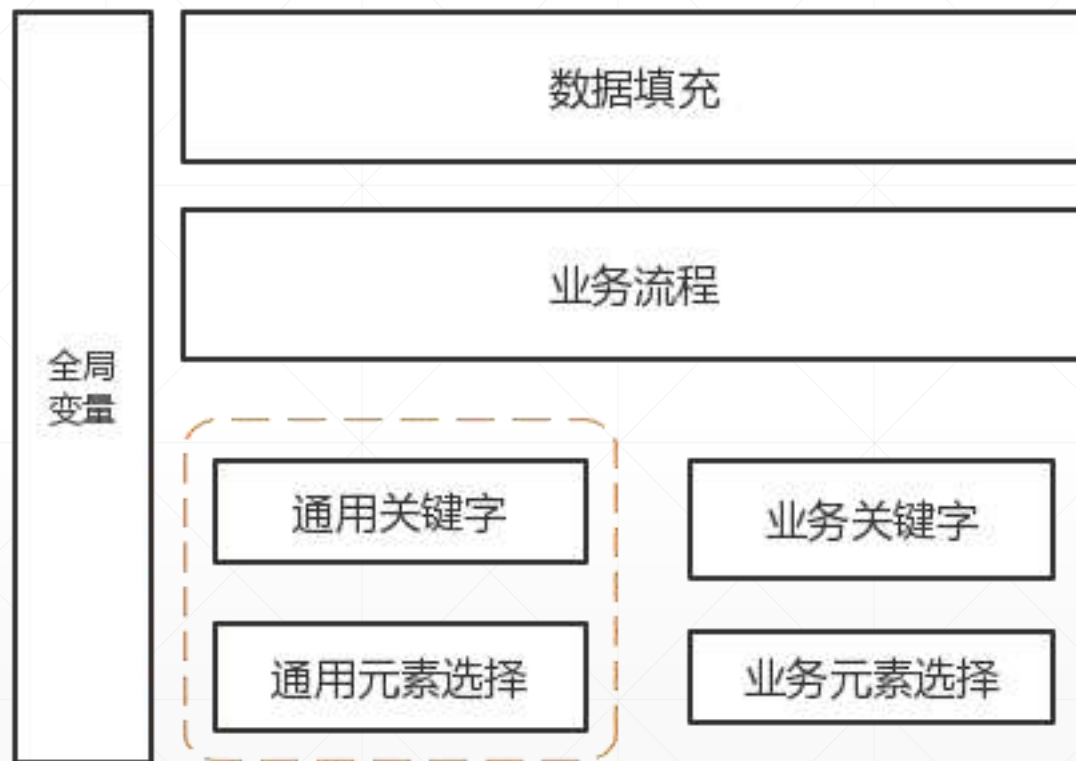
Statistics by Suite	Total	Pass	Fail	Elapsed	Pass / Fail
<a href="#">Bk-Os-V2</a>	7	4	3	00:04:30	<div><div></div></div>
<a href="#">Bk-Os-V2.Cases</a>	7	4	3	00:04:30	<div><div></div></div>
<a href="#">Bk-Os-V2.Cases.Login</a>	1	1	0	00:00:19	<div><div></div></div>
<a href="#">Bk-Os-V2.Cases.蓝鲸官网</a>	6	3	3	00:04:11	<div><div></div></div>

# 怎么写

1	是否登录状态，否则登录				
2	Click link	jquery=a.bk-nav-list:eq(3)			
3	Wait Until Element Is Visible	jquery=button.btn-link			
4	Click Button	jquery=button.btn-link			
5	Input Text	jquery=input.must-item.user-name	\${name}		
6	Input Text	jquery=input.phone-number	\${phone}		
7	sleep	1			
8	Click Element	jquery=a.acquire-chang-num			
9	\${Captcha}	get value from user	Enter Captcha	none	none
10	Input Text	jquery=input.must-item.verification	\${Captcha}		
11	Input Text	jquery=input.must-item.enterprise	\${name}		
12	Input Text	jquery=,form-content,pr > input.company-website	\${site_url}		
13	Input Text	jquery=textarea.content-textarea	\${name}		
14	Element Should Be Enabled	jquery=button.submit-btn			
15	Wait Until Element Is Enabled	jquery=button.submit-btn			
16	Click Element	jquery=button.submit-btn			
17	Wait Until Element Is Visible	jquery=span.warn-text			
18	Element Should Be Visible	jquery=span.warn-text	msg=企业合作伙伴提交失败		
19	Take Screenshot				
20	\${result}	Get Text	jquery=span.warn-text		
21	Should Be Equal	\${result}	提交成功!	msg=企业合作伙伴提交失败	
22	Close Browser				

# Doing - 测试框架模板

- 降低门槛
  - 封装通用关键字
  - 蓝鲸场景沉淀
- 提高可维护性
  - 分层



# 录制脚本



# 录制脚本

```
# -*- coding: utf-8 -*-
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.support.ui import Select
from selenium.common.exceptions import NoSuchElementException
from selenium.common.exceptions import NoAlertPresentException
import unittest, time, re

class T(unittest.TestCase):
    ...

    def test_t(self):
        driver = self.driver
        driver.get(self.base_url + "/?tn=98012088_5_dg&ch=12")
        driver.find_element_by_id("kw").click()
        driver.find_element_by_id("kw").clear()
        driver.find_element_by_id("kw").send_keys("selenium")
        driver.find_element_by_id("su").click()
        driver.find_element_by_link_text("Selenium - Web Browser Automation").click()

    ...

if __name__ == "__main__":
    unittest.main()
```

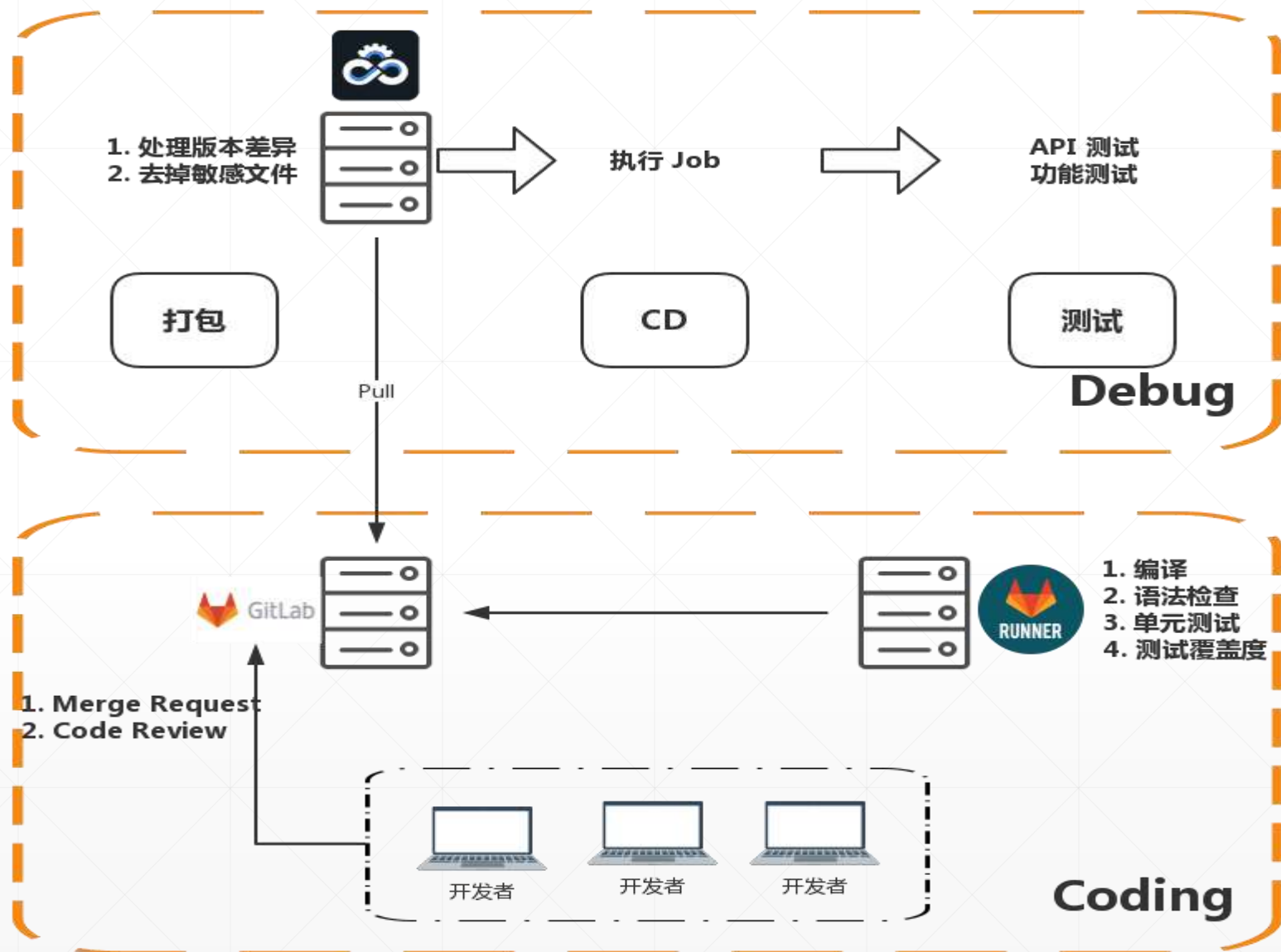
## 步骤

- 安装 Selenium IDE 插件
- 导出脚本
- 修正

## 适合

- 测试定制化需要多
- 测试人员有一定编程能力

# CI 集成

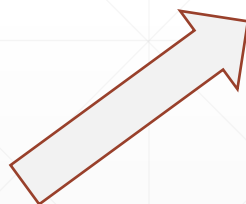


# CI 集成

- Giltab CI

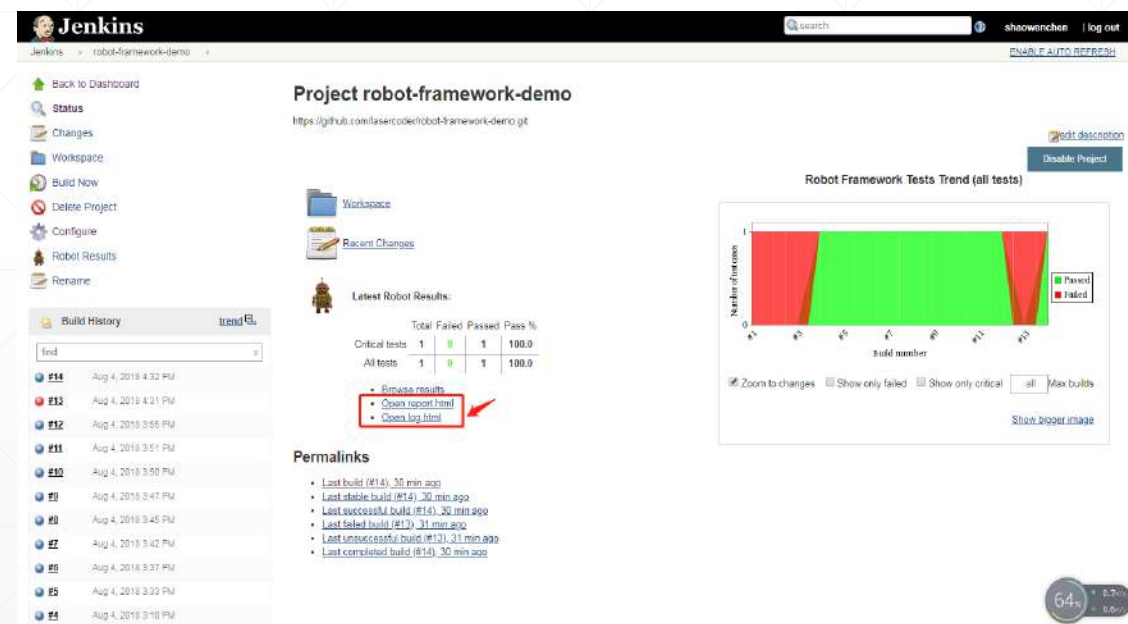


python-gitlab



artifacts

- Jenkins



# CI 集成

## ■ 蓝盾

名称：\*

构建环境-Linux

指定构建机：

tlinux2.2

蓝盾公共构建机

tlinux1.2

tlinux2.2

第三方镜像

bksaas/test:1.0.0

## ■ 自研

SaaS 提供微服务，集成到蓝盾

- 运行、管理测试用例
- 渲染、查看报告
- 通知
- 历史数据统计、展示

SaaS 将软件环境打包成镜像，提供给蓝盾



**End**

