

■ 9/1 DevOps企業實戰

■ 9/2 DevOps技能精進

📍 集思台大會議中心

# DEVOPS 2015

開發敏捷與維運高效的IT新典

# DevOps全球大趨勢

iThome電腦報  
新聞主編 王宏仁



# 非洲最大標準銀行（ Standard Bank ）

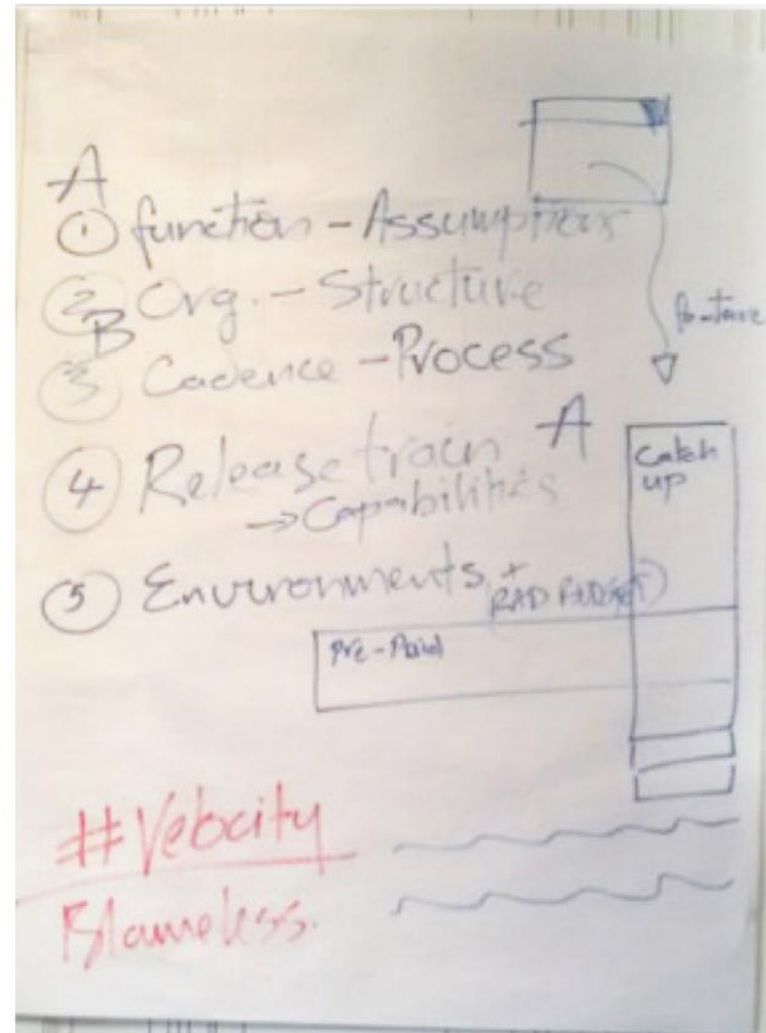
- 成立超過150年
- 大型主機的大客戶
- 前端技術
- 如Java和AngularJS等
- 後端系統
- Red Hat、SUSE、Solaris和大型主機AIX。

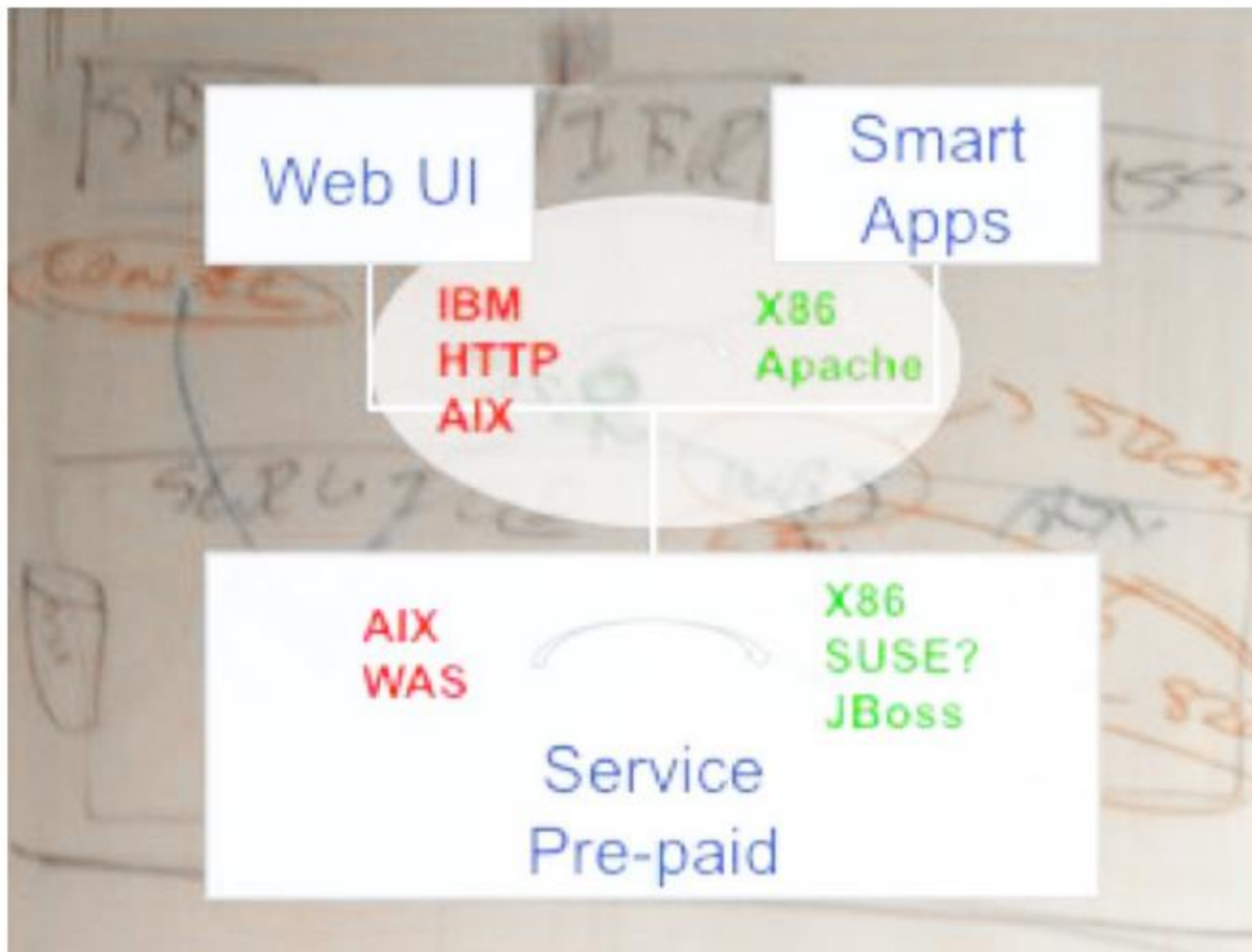


圖片來源：維基百科

# 2014年初展開變革

- CIO+IT維運主管
- 35位高層會議
  - DevOps的基礎知識
  - DevOps的詞彙
  - 導入衝擊





# 團隊文化必備



## ✓ DEVOPS - CI Build

Chop Chop  
14 minutes ago

Scheduled

## ✓ PRD 0 - Create IBR Full Stack - v2.0

Chop Chop  
2 weeks ago

Rebuilt by Marcus Talken

## ✗ SIT 0 - Create IBR Full Stack - v2.0

Chop Chop  
1 week ago

Rebuilt by Marcus Talken





## Build #3

🚫 #3

🚫 Job: Test - 3 - Base Tests failed

Stages & jobs

Get Build Properties

✅ Get and Create Properties

Drop Environment

✅ Delete Node

✅ Remove node from Chef

Provision Hosts

✅ Create new VM

✅ Setup chef environment and roles

Base Chef Deployment

✅ Bootstrap Host App 1

✅ Bootstrap Host App 2

✅ Bootstrap Host Web 1

✅ Bootstrap Host Web 2

Test Deployment

Job Summary

Tests

Commits

Artifacts

Logs

Metadata

## Test results

☰ 11 tests in total    🚫 2 tests failed    + 2 tests were fixed    ⌚ 1 second taken in total.

Failed tests (2)

Successful tests (9)

Build 3 has the following 2 errors: There were no new test failures since the previous build.

Existing test failures 2

Test

🚫 Service "ntpd" NTP Tests Service "ntpd" should be enabled ⌚

🚫 stdout NTP Tests Command "ntpstat" stdout should include "synchronised" ⌚



#6

Job: Test - 3 - Base Tests was successful

### Stages & jobs

#### Get Build Properties

Get and Create Properties

#### Drop Environment

Delete Node

Remove node from Chef

#### Provision Hosts

Create new VM

Setup chef environment and roles

#### Base Chef Deployment

Bootstrap Host App 1

Bootstrap Host App 2

Bootstrap Host Web 1

Bootstrap Host Web 2

#### Test Deployment

Test - 1 - VM on SUSE Manager

Test - 2 - Network Configuration

**Test - 3 - Base Tests**

Test - 4 - Chef Tests

Test - 5a - Middleware - App Server

Test - 5b - Middleware - Web Server

Test - 7d - Front end Test

Job Summary Tests Commits Artifacts Logs Metadata

## Test results

9 tests in total + 2 tests were fixed ⌚ < 1 second taken in total.

Failed tests **Successful tests (9)**

The following 9 tests have passed: 2 tests were fixed since the last build.

Fixed tests 2

#### Test

Service "ntpd" NTP Tests Service "ntpd" should be enabled ⌚

stdout NTP Tests Command "ntpstat" stdout should include "synchronised" ⌚

All successful tests

#### Test

Port "22" Core Service Tests Port "22" should be listening ⌚

Service "iptables" Core Service Tests Service "iptables" should not be enabled ⌚

Service "iptables" Core Service Tests Service "iptables" should not be running ⌚

Service "ntpd" NTP Tests Service "ntpd" should be enabled ⌚

Service "rsyslogd" Logging Tests Service "rsyslogd" should be running ⌚

Service "sshd" Core Service Tests Service "sshd" should be enabled ⌚

Service "sshd" Core Service Tests Service "sshd" should be running ⌚

# DevOp導入範圍

- 2 Web Server, 2 App Server
  - Redhat Linux VM
  - Enterprise Application Platform (EAP)
  - JBoss on Redhat
  - Apache on Redhat
- 31套基礎架構 + 8套應用系統

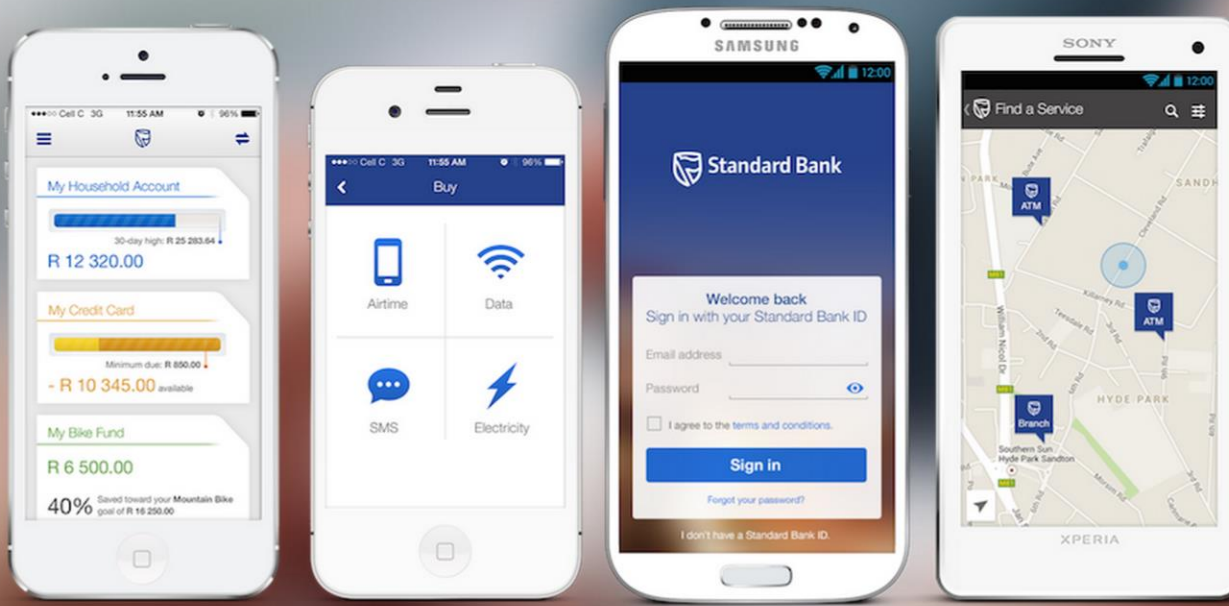
# 快多少？3個月->17分鐘



服務上市速度，  
快2千倍！

圖片來源：CHEF

## Phone app for Android and iOS



## Smartphone app: exciting new features



### Home Loans calculators

To help you find and finance your dream home, use our bond affordability and bond repayment calculators



### EAP limit management

Increase or decrease your monthly payment limits to suit your needs – up to R500 000 per month.



### Touch ID for iPhones

Sign in to the app using your fingerprint, with Touch ID for iPhones, giving you the most convenient and secure access to your accounts.



### Notify us of international travel

Ensure you can transact using your cards when you are overseas, by informing us of your travel dates and destinations



### Vehicle and asset finance

Stay in control of your vehicle and asset finance by viewing your current balances, original loan values, the next repayment amount, and the next repayment date.



### Insurance portfolios

See an overview of your insurance policies, request full schedules via email, and submit claims for Homeowners' cover directly from the app.

## Making banking more personal: Introducing our Apple Watch app

Check your latest account balances from the convenience  
of your Apple Watch.

[Learn more](#)



## DevOps大事紀

**2009**

Flickr在O'Reilly Velocity大會分享開發團隊與維運團隊合作的成功經驗，這也讓Patrick Debois開始使用DevOps這個詞，更促使他決定在比利時舉辦首屆DevOpsDays活動來推廣DevOps文化

**2011**

許多知名分析師開始關注DevOps熱潮，Gartner研究副總裁Cameron Haight更預測，在2015年，全球兩千企業中的20%會擁抱DevOps

**2013**

許多DevOps相關書籍大量出現

**2010**

DevOpsDays獲得不少迴響，2010年甚至追加辦了4場，更走出了歐洲，首度在美國舉辦

**2012**

DevOps熱潮跨出歐美大陸，吹向亞洲，分別在德里和東京也發起了兩場DevOpsDays活動

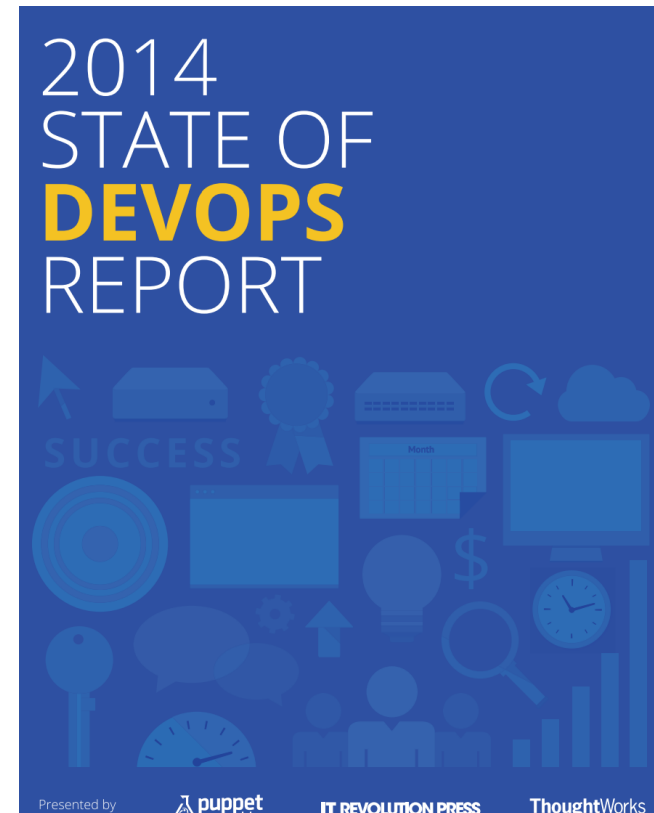
**2014**

Puppet實驗室發表2014年DevOps全球大調查結果，高達16%受訪者所屬企業已有專屬DevOps團隊



## 2014年DevOps大調查(Puppet Lab)

- 涵蓋全球110個國家
- 超過1成受訪者  
來自擁有5千臺伺服器  
的大企業



# 2014年DevOps大調查

- 16%約1,485位的受訪者所屬企業，已建立專屬的DevOps團隊
- 超過3成受訪者是DevOps工程師
- DevOps工程師最多的三大產業  
娛樂業、科技業和網路軟體公司

- 2016年Gartner預測  
全球Top2000將有25%企業要導入

