

Developer Cloud 開發攜手向雲端



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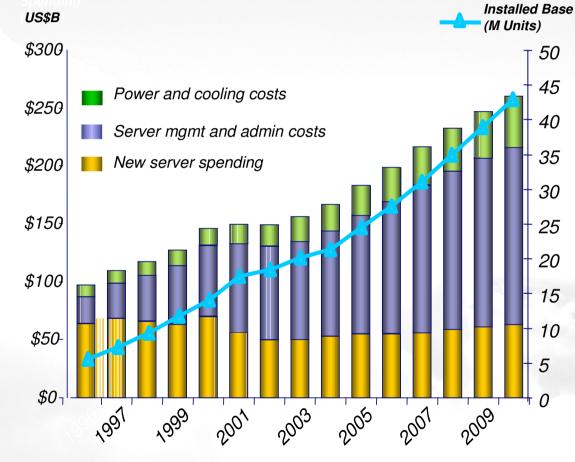






Business Problem – IT costs are increasing

- Costs to manage systems has doubled since 2000
- Costs to power and cool systems has doubled since 2000
- Devices accessing data over networks doubling every 2.5 years
- Bandwidth consumed doubling every 1.5 years
- Data Doubling every 18 months¹
- Server processing capacity doubling every 3 years²
- 10G Ethernet ports tripling over the next 5 years



Source: IDC, 2008

¹WW TB Capacity Shipped on Enterprise Disk Storage Systems

²Server processing consumption doubles every 3 years









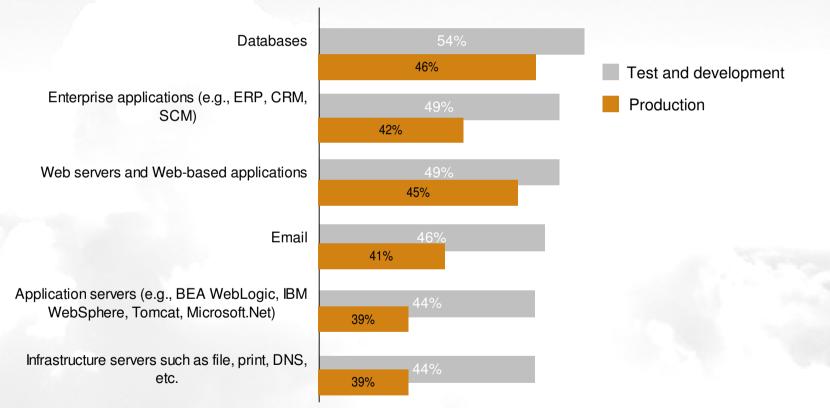






Enterprises are more comfortable with test and development "in the cloud" than production use

"For each of the following workloads, what is your company's type of use or expected type of use for pay-per-use hosting of virtual servers?"



Base: 439 North American and European hardware decision-makers at enterprises with interest in or implementation of pay-per-use hosting of virtual servers

Source: Enterprise And SMB Hardware Survey, North America And Europe, Q3 2008







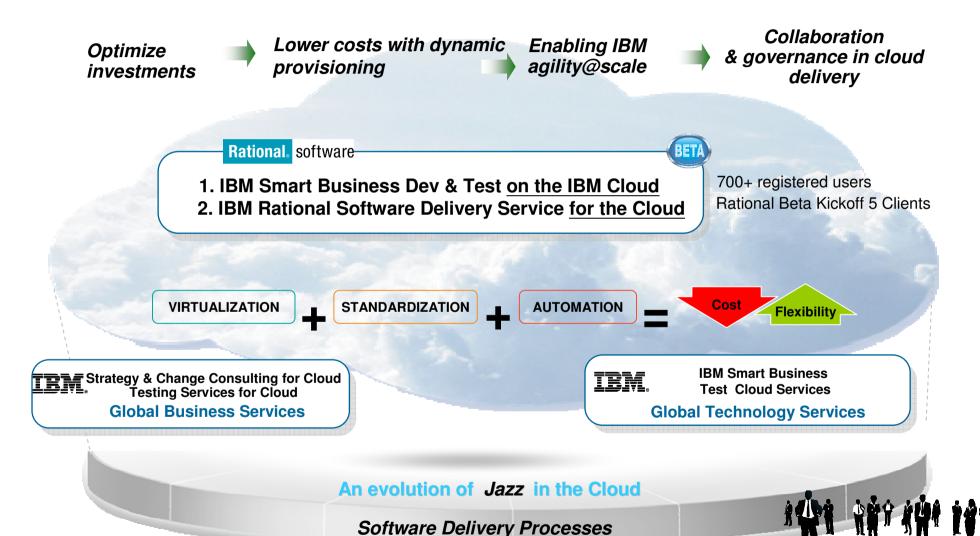








IBM Rational Software Delivery Services for Cloud Computing















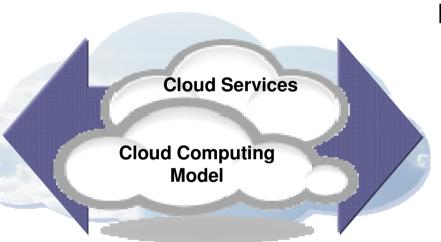


Cloud Drives New Sourcing Options

Private ...

Client owned and managed.

Access defined by client.



Public ...

Service provider owned and managed.

Access by subscription.

.... Customization, efficiency, resiliency, security and privacy

....Standardization, capital preservation, flexibility and time-to-deploy

GOVERNANCE







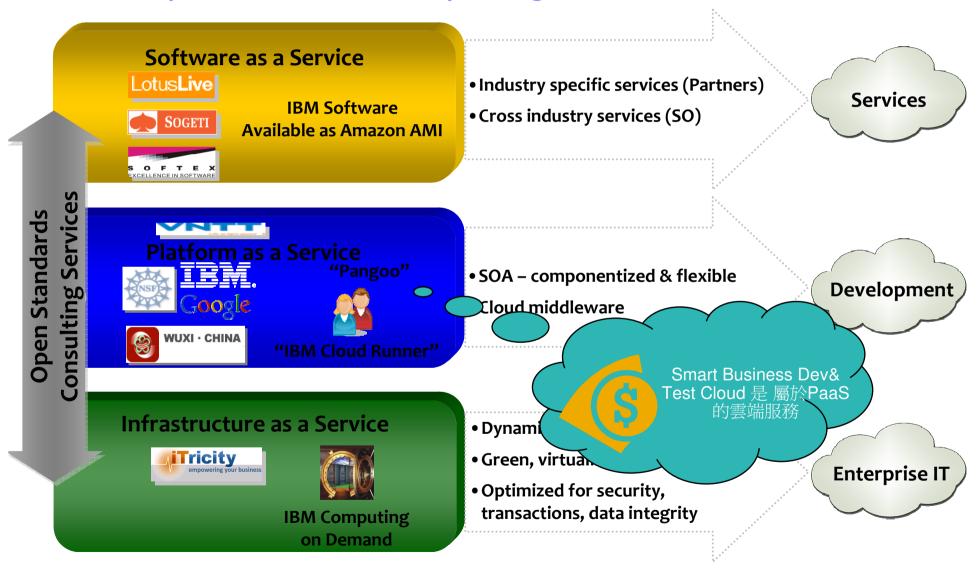








On-ramps to Cloud Computing Services

















The Cloud

"Cloud" is a new consumption and delivery model inspired by consumer Internet services.

Cloud enables:

Self-service

Sourcing options

Economies-of-scale









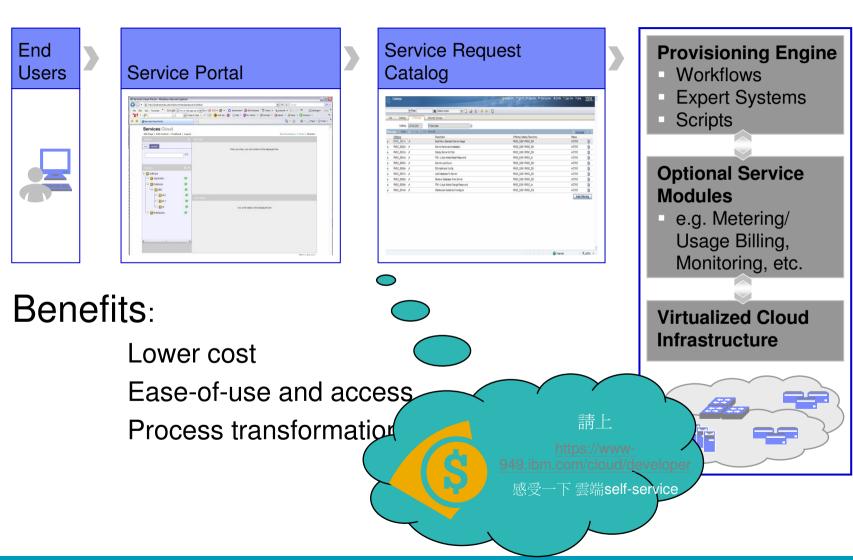








"Self-service" Drives Process Standardization





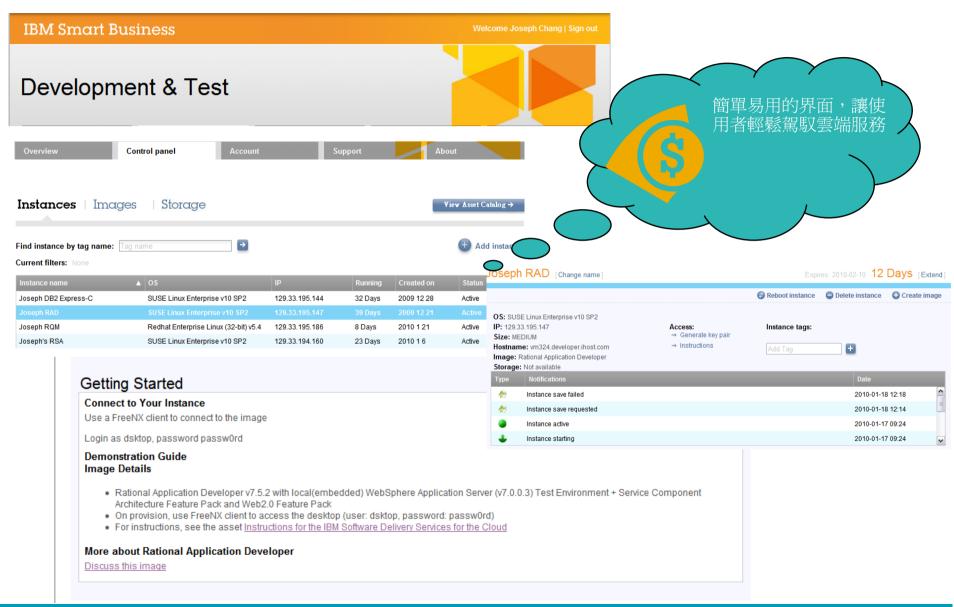


























Add new Instance



Select an image to provision.





system generated

Mount Storage

Confirm license Agreement.

~

Previous Next Cancel















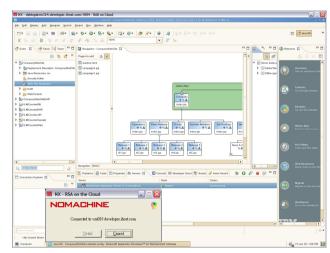




Connect to Your Image

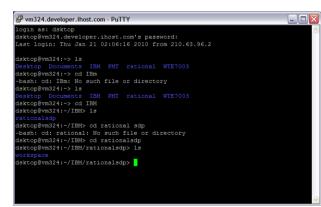
Use NoMachine to connect desktop applications.



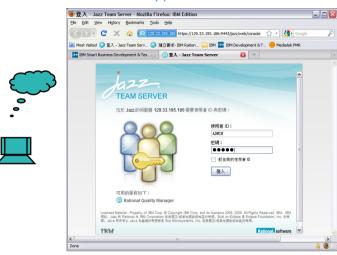


Use Putty to connect servers on the cloud.





Use Brower to connect applications on the cloud.



Use Mobile Phone to connect applications on the cloud.













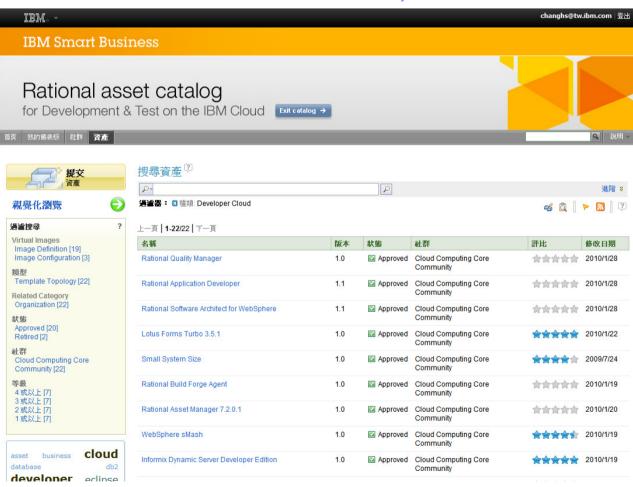






Manage Image with RAM

(軟體上架、改版、再上架)









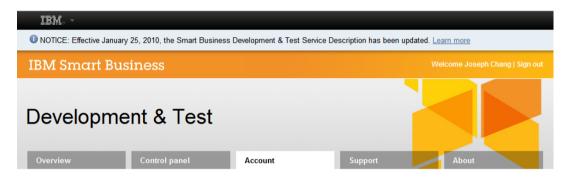




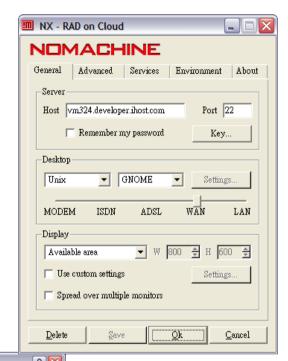


Security

IBM Smart business Development & Test Cloud provides security access control to your image.



















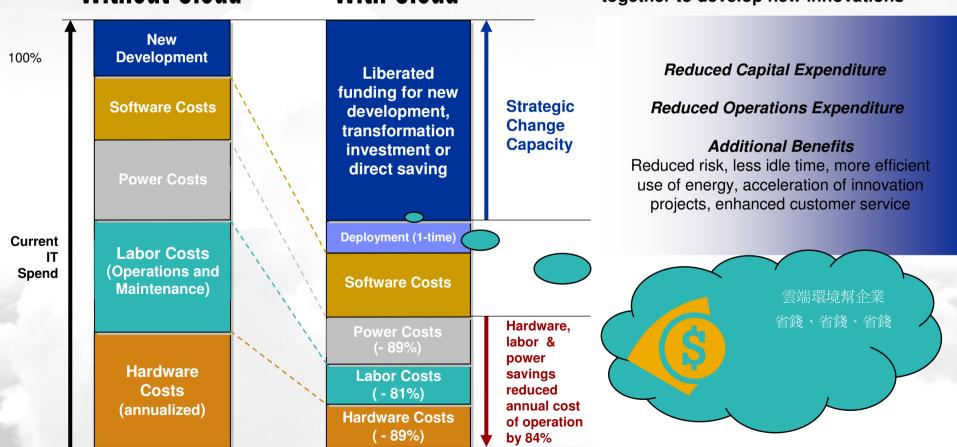


Benefits of Cloud ExploitationBased on IBM's Technology Adoption Program (TAP)

Without Cloud

With Cloud

This "collaboration innovation cloud" has over 80,000 participants within IBM working together to develop new innovations

















IBM Cloud Computing Offerings













laaS

Developer

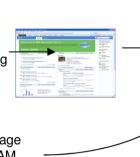
Cloud

Developer & Tester Cloud

- Create Project Team Environment in 10 mins



1. User logs in the developer cloud through the cloud logging portal.





2. User selects the virtual image for the tool required in the RAM catalog and agrees with T&Cs



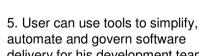
3. User selects and rents the server and storage required for the service based on his/her needs



4. User requests the provisioning of the selected tool on the selected HW in the cloud



automate and govern software delivery for his development team





6. When service is completed, user deprovisions the service, returning the HW for other users



Tools in the cloud











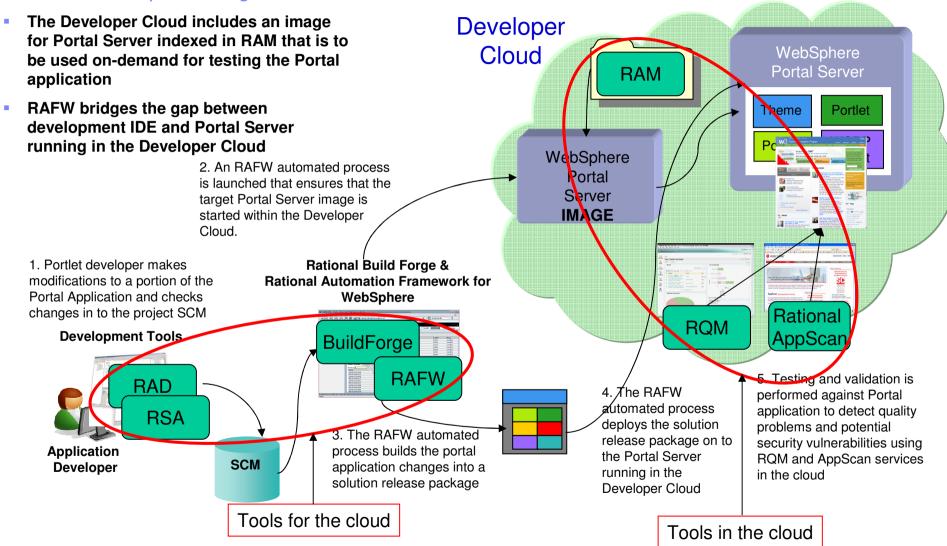






Developer & Tester Cloud

-- Create Developer Working Environment in 10 mins



From weeks to less than one day....









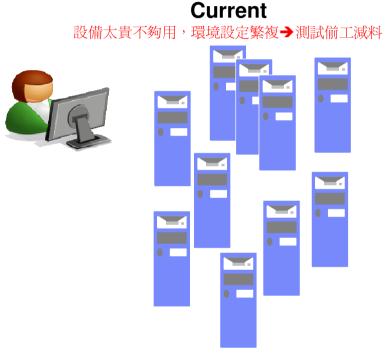




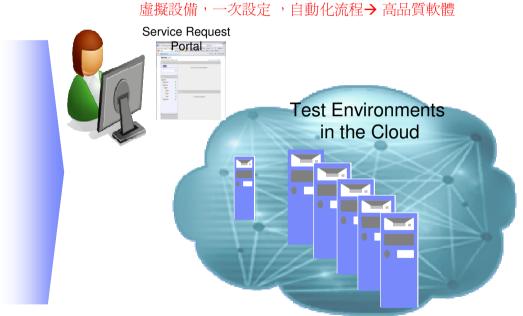


Making current test environments more productive, agile and dynamic

Current typical test environment with large number of test servers, little virtualization, and primarily manual allocation and configuration of individual test environments



Manual Scheduling, Provisioning & Configuration



To Be

Automated Request Driven Scheduling, Provisioning & Configuration of HW, OS, Middleware and Apps. Automated Tracking, Monitoring and De-provisioning. Virtualization Management, Capacity, and Image Management

Capital & Operational Expense Reduction, Defect Reduction, Increased Productivity & Innovation









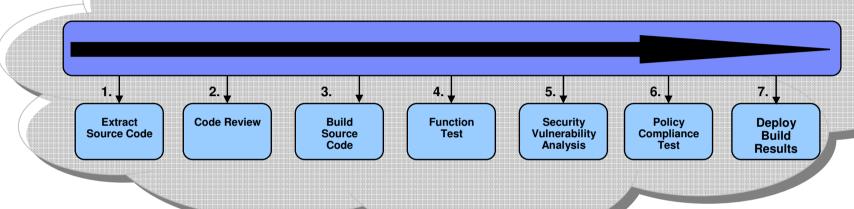






Reduce Software Delivery Costs through Clouds

Dynamically obtain and use IT resources from the Cloud to execute automated software development tasks







Pre-1900 assembly
Highly skilled craftsmen manually
building the entire product with
custom parts

Early Assembly Line



Early assembly line Skilled workers assembling pieces of parts to build a finished product

Modern Factory

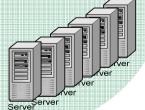


Modern factory
Highly automated with diverse and
geographically distributed workforce
using a global supply chain

Managing and provisioning test labs

Operations





Software development today

Can we be more like this?









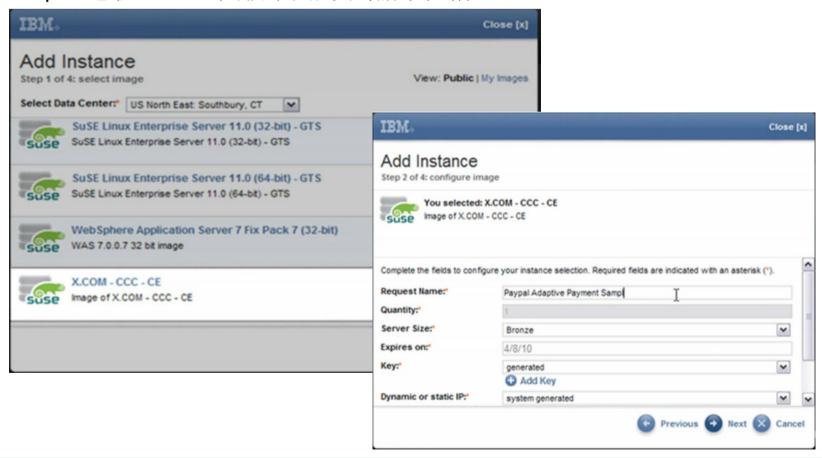






Create PayPal Application

- -- with IBM Smart Business Developer and Test Cloud
- Step 1 選取X.COM 開發桌面, 填寫請求表格













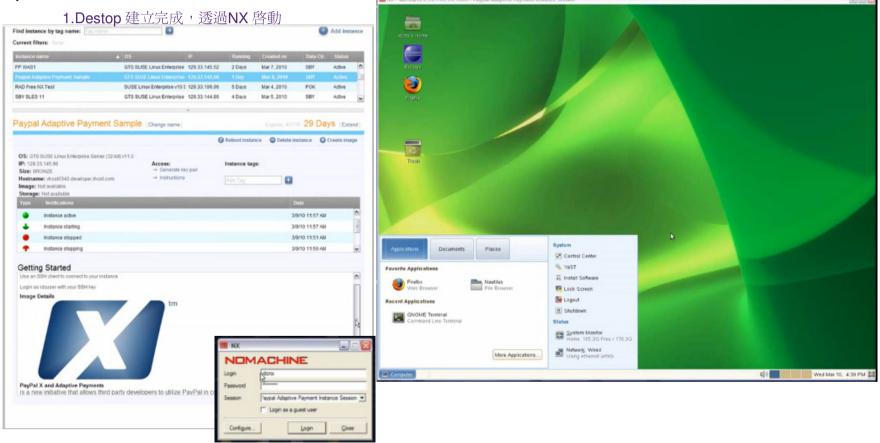


Create PayPal Application

-- with IBM Smart Business Developer and Test Cloud

■ Step 2 依指示 啟動X.COM 開發桌面

2. 啟動後的桌面













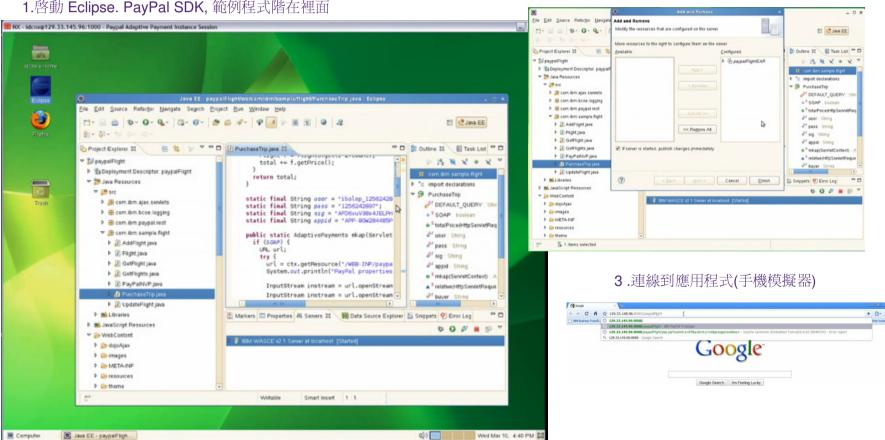




2.部署應用程式, AP Server 當然也在雲端

Create PayPal Application

- -- with IBM Smart Business Developer and Test Cloud
- Step 3 啓動PayPal Application 開發工具
 - 1. 啓動 Eclipse. PayPal SDK, 範例程式階在裡面















Create PayPal Application

- -- with IBM Smart Business Developer and Test Cloud
- Step 4 測試應用程式執行

1. 啓動手機 Calendar



2.選擇出發日期

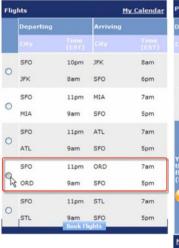
3.選擇航班

4. Place Order

5. 完成





























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