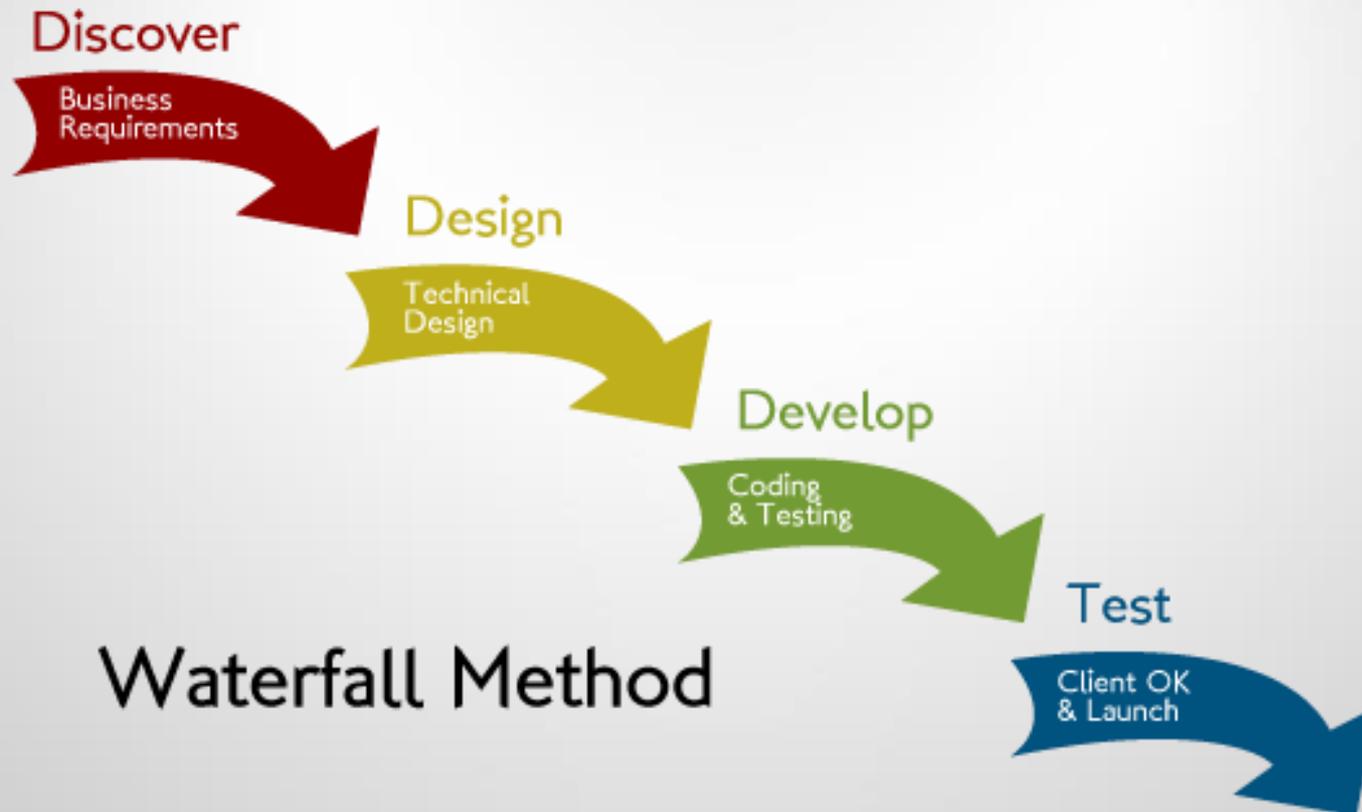




DevOps

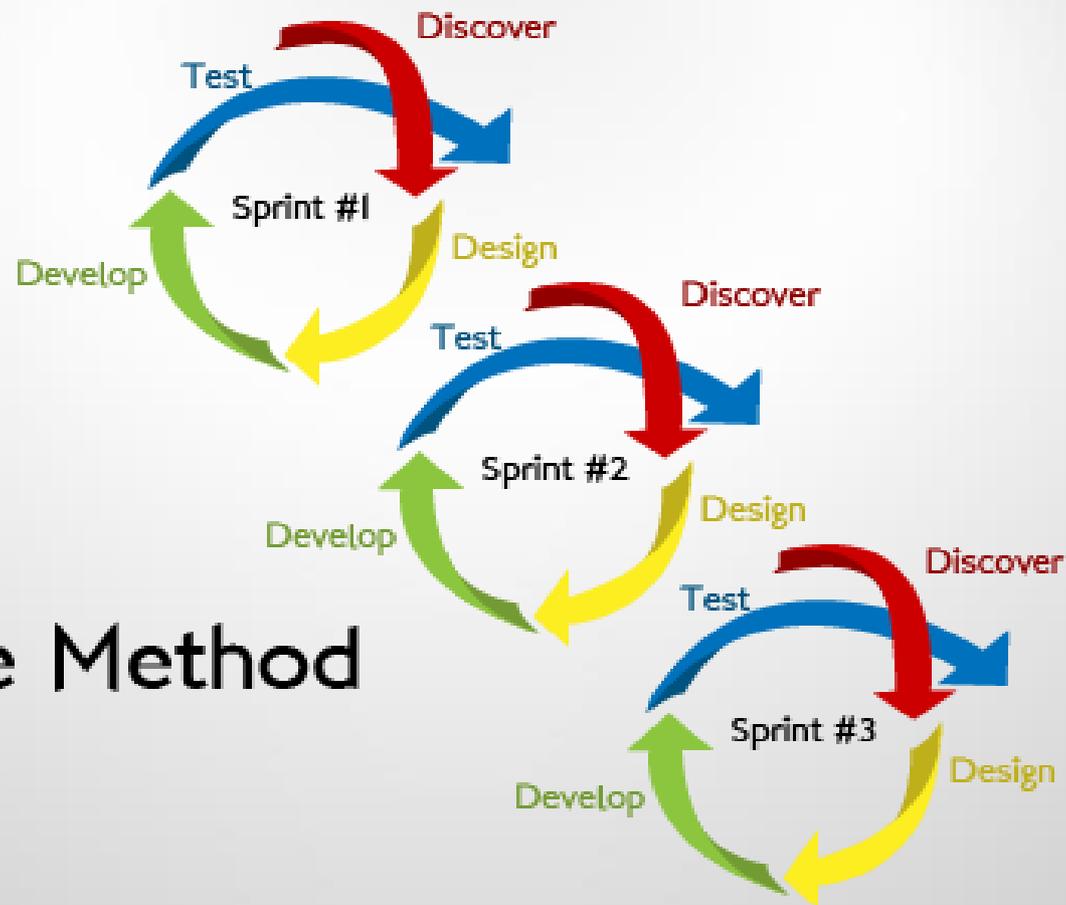
Simon Chen
Consulting Manager

Waterfall Methods





Agile Methods



Agile Method



redhat

Operations Under Pressure





redhat

Environments Out Of Control



LAST SAB: NEXT-GENERATION I.T. INFRASTRUCTURES

BUSINESS/CONSUMER

APPLICATIONS AND WORKLOADS WITH RED HAT

Red Hat Enterprise Linux, Red Hat JBoss Middleware, Red Hat Storage



APPLICATIONS AND WORKLOADS WITH RED HAT

OpenShift by Red Hat

PaaS



INFRASTRUCTURE-AS-A-SERVICE WITH RED HAT

Red Hat Cloud Infrastructure, Red Hat Storage

IaaS



CLOUD BROKERING

PUBLIC CLOUD RESOURCES	PUBLIC CLOUD RESOURCES	PUBLIC CLOUD RESOURCES	PRIVATE CLOUD
		RED HAT CERTIFIED CLOUD PROVIDER	

VIRTUAL RESOURCES



PHYSICAL RESOURCES



I.T. MANAGEMENT/PROVIDER

RED HAT CLOUDFORMS, RED HAT SATELLITE

SERVICE MANAGEMENT

MONITORING AND EVENT MANAGEMENT



AUTOMATION

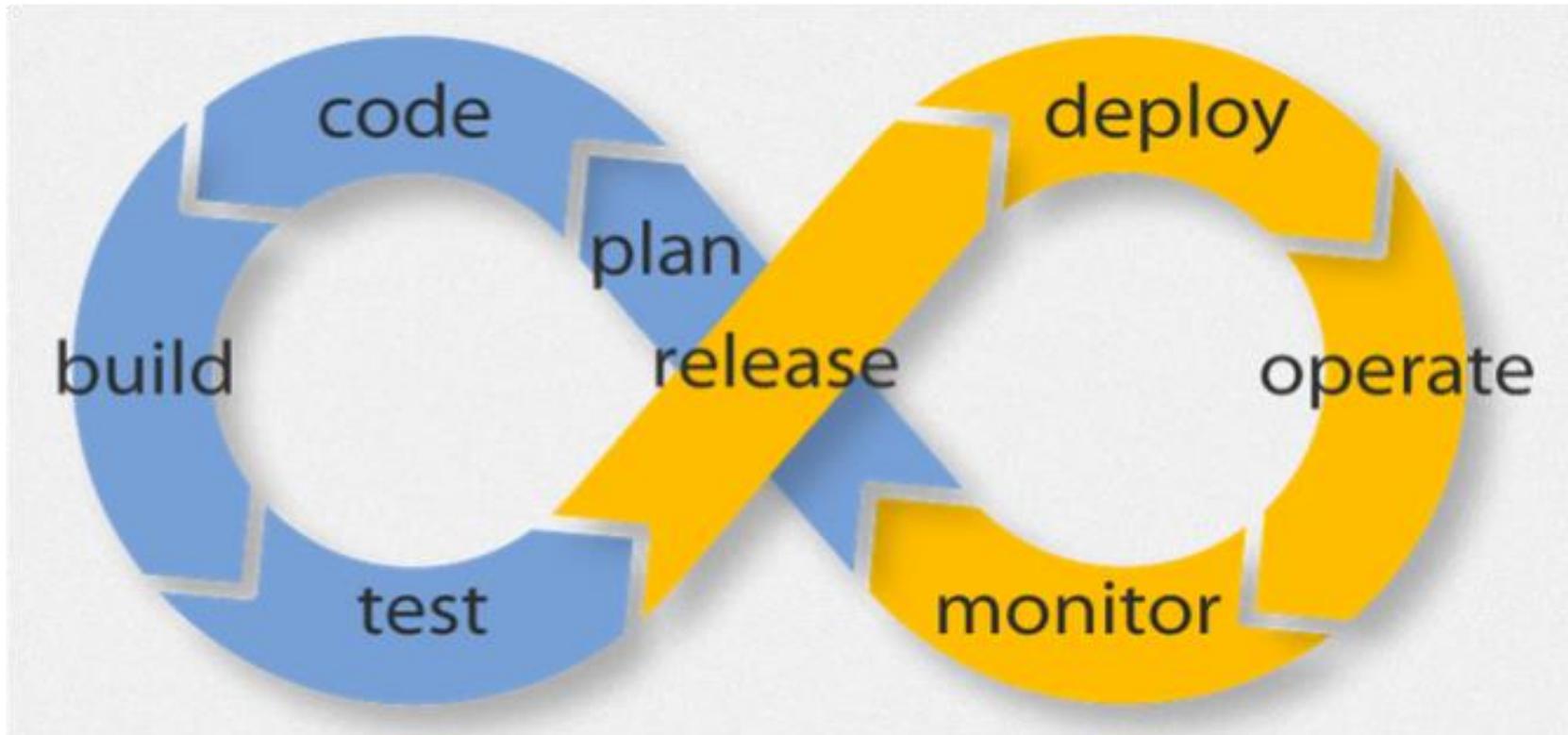


LIFECYCLE MANAGEMENT



CONFIGURATION MANAGEMENT

DevOps Cycle



DELIVERING SOFTWARE TODAY: THE REALITY VS. THE GOAL

BUDGET

45%
OVER

TIME

7%
OVER

VALUE

56%
LESS

Source: Delivering large-scale IT projects on time, on budget, and on value
McKinsey & Company, October 2012



ORGANIZATIONS IMPLEMENTING DEVOPS

Better deployment quality

63%

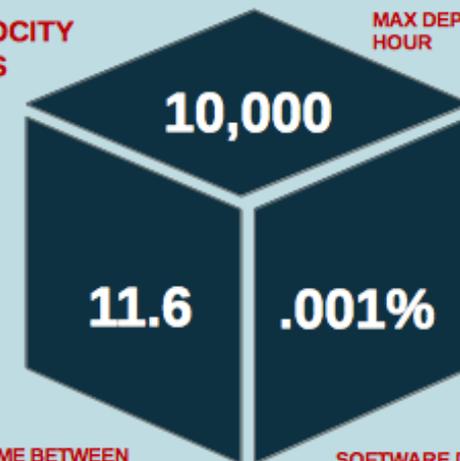
Faster release frequency

63%

Improved process visibility

61%

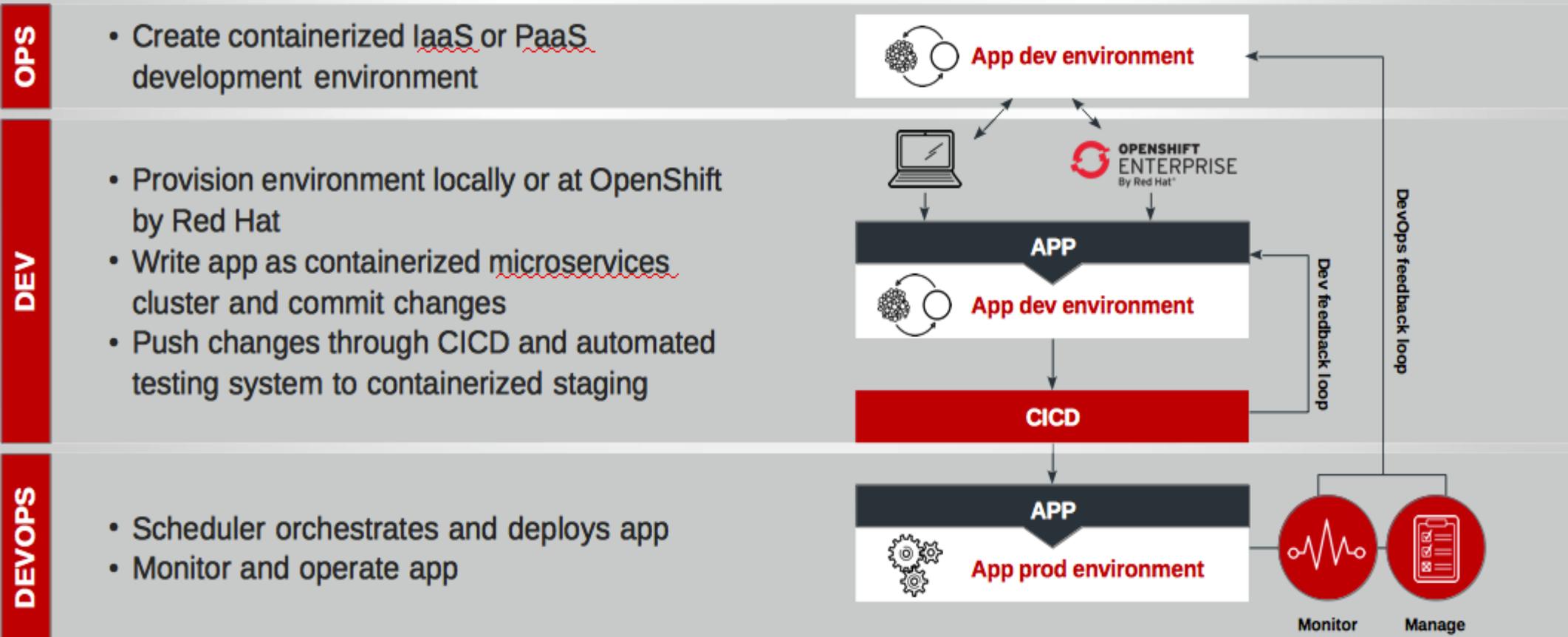
DEVOPS VALUE
IN ACTION: VELOCITY
AT AMAZON AWS



MEAN TIME BETWEEN
DEPLOYMENTS
(SECONDS)

SOFTWARE DEPLOYMENTS
CAUSING AN OUTAGE

DEVOPS WORKFLOW





A CLOUD PLATFORM FOR MICROSERVICE CLOUD APPS

Provision apps from service catalog

OPS MANAGEMENT AND SERVICE CATALOG
(RED HAT CLOUDFORMS)

CONTENT, ENTITLEMENT, AND LIFECYCLE
(RED HAT SATELLITE)

Orchestrate and place apps

SERVICE SCHEDULER/ORCHESTRATOR
(KUBERNETES, MESOS)

Run composed microservices in containers

Red Hat CloudForms Monitoring Docker Image	Red Hat CloudForms Orchestration Docker Image	Red Hat Satellite Content Docker Image
RED HAT ENTERPRISE LINUX GUEST		

Red Hat JBoss AMQ Docker Image	App DB Docker Image	Red Hat JBoss BRMS Docker Image
RED HAT ENTERPRISE LINUX GUEST		

OPENSIFT
BY RED HAT

Provide dynamic, programmable infrastructure

RED HAT ENTERPRISE LINUX OPENSTACK PLATFORM
COMPUTE STORAGE NETWORK
(RED HAT ENTERPRISE LINUX OPENSTACK PLATFORM, RED HAT STORAGE, OPEN DAYLIGHT)



THE ROAD TO DEVOPS: THREE CONVERGING PATHS



DEVELOPERS



Increase developer
productivity and release agility
for ops

**PLATFORM SURFACE
AS CODE**



Increase platform
infrastructure
automatability

OPERATIONS



Increase ops
agility and feedback
for developers

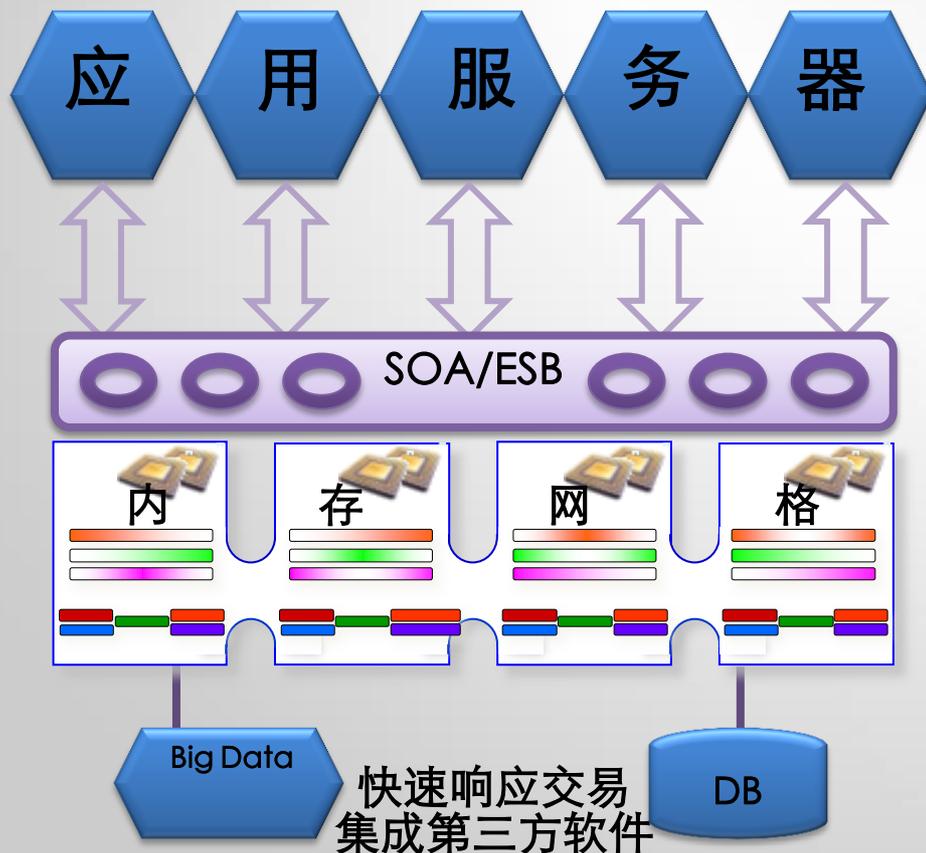
DEVOPS + CLOUD = INDUSTRIALIZE



移动互联网时代 快速响应交易处理

毫秒级别服务响应

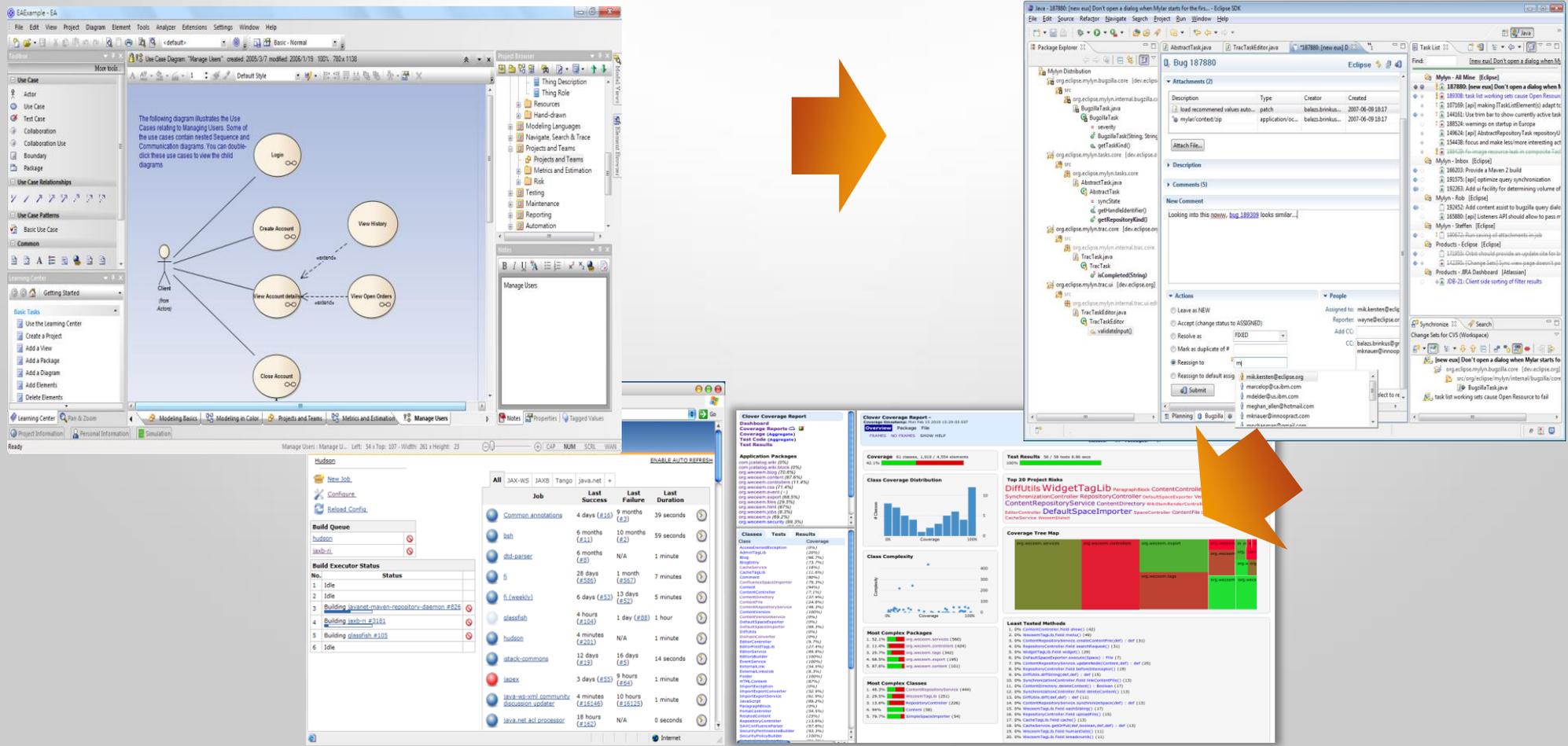
应用场景



- 网上交易, 互联网银行
- 海量交易处理
- 门户服务
- 实时数据集成

协助构建开源云开发平台

- 协助构建开源云基础环境
- 协助构建自动化开发，设计，测试及布署环境
- 知识传递 Design Patterns, Defect Tracking, Programming, Automatic Testing



The image displays a collage of screenshots from various development and testing tools, illustrating the components of an open-source cloud development platform.

- UML Use Case Diagram (Left):** Shows a diagram illustrating the Use Cases relating to Managing Users. The diagram includes actors like 'Client' and 'Admin', and use cases such as 'Login', 'Create Account', 'View History', 'New Account details', and 'View Open Orders'.
- Hudson Dashboard (Middle):** Displays the Hudson CI/CD dashboard, showing a 'Build Queue' and a table of jobs with columns for 'Job', 'Last Success', 'Last Failure', and 'Last Duration'.
- Eclipse IDE (Right):** Shows the Eclipse IDE interface, displaying a 'Bug 187880' in the Bugzilla interface, with details about the issue and a 'Submit' button.
- Coverage Reports (Bottom):** Displays several charts from a 'Cover Coverage Report', including 'Class Coverage Distribution', 'Class Complexity', and 'Least Tested Methods'.



红帽-中间件服务体系

商业模式服务

帮助您运用开源技术以创新商业模式。

解决方案服务

提供最新解决方案服务，帮助您快技术创新业务发展。

项目服务

帮助您加速项目开发与管理。

技术支持

原厂顾问现场技术支持服务，让您高枕无忧。

红帽-中间件服务内容

开源顾问服务

- 企业导入开源应用顾问服务
- 智慧开源应用架构顾问服务

解决方案顾问服务

- 智慧互连网应用解决方案服务
- 自动化开发运维解决方案服务
- 企业平台云解决方案服务

产品技术顾问服务

- JBoss 中间件服务
- Fuse 中间件服务
- BPM 中间件服务
- 智慧规则中间件服务
- MQ 中间件服务
- xPaaS 平台云服务

项目技术服务

- JBoss 中间件架构设计服务
- JBoss 中间件最佳设计模式
- JBoss 中间件开发服务
- 现场技术支持服务



redhat

**JBoss
OPERATIONS
NETWORK**



OPENSHIFT
by Red Hat

**RED HAT
ENTERPRISE
LINUX**

**RED HAT
CLOUDFORMS**

**RED HAT
NETWORK
SATELLITE**

**RED HAT
STORAGE**



CLOUD SERVERS



VIRTUAL SERVERS



PHYSICAL SERVERS



**NETWORK + STORAGE
INFRASTRUCTURE**

**RED HAT
ENTERPRISE
VIRTUALIZATION**



OPEN HYBRID CLOUD

MANAGEMENT SYSTEMS



**IT
ADMINS**



DEVOPS



**CLOUD
BUILDERS**



THANK YOU.

RedHatVideos
on YouTube



youtube.com/RedHatVideos



Red Hat
on Facebook



facebook.com/RedHatInc



Want to
keep
In touch?

Red Hat
on LinkedIn



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