云计算高峰论坛 Cloud Computing
CCS
Cloud Computing Summit

The Riverbed Performance Platform & Vision

优化企业IT架构性能 打造云计算的未来

Bill Ting (丁伟)

riverbed®

The Network is the Computer Era 网络即(云)计算

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The Changing IT Environment in Businesses
企业IT所面临的挑战和机遇

Gartner, 2011

Mobility | UC&C | Virtualization | Cloud 移动办公 | 统一通信 | 虚拟化 | 云计算

by 2014, 90% of organizations will support corporate applications on personal devices

Increase use in BYOD and Bandwidth Requirements
带宽的需求

U.S. companies expect that 34% of their total applications will be cloud-based in two years

Application Performance Consistency
一致、极佳的性能

Over 50% of workloads wiould have been virtualized/centralized by the end of 2012

Data Center Consolidation and Management
数据中心/混合云管理

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Hybrid Cloud for the Future with ITaaS 混合云IT 架构的未来

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新挑战：私有云、公共云怎么落地（性能如何得到保证）？

What makes an application slow? 网络应用缓慢因素？

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Riverbed整体性能解决方案概况

广域网加速(WOC)
重复数据删除
QoS/BW Shaping
应用协议Proxy
运输协议精简、优化
“Fill fat pipe” 技术

应用交付(ADC)
负载均衡
QoS/流量管理
TCP/SSL Offload 卸载
应用安全监控
应用程序脚本

网页优化(WCO)
文档合并
收缩和压缩
浏览器缓存
动态布局

网络性能管理
应用可视性
行为分析
关联图

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Riverbed 核心专利技术 – 广域网优化 (WOC)

广域网的带宽节省60-95%、有效利用率提升5-10倍

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企业关键应用性能得到倍增

	CIFS	CIFS signed	CIFS print	Mac CIFS	MAPI	MAPI 2K3	MAPI 2K7	MAPI crypto	MAPI prepop	Lotus Notes	HTTP	SSL	Oracle Forms	ICA	NFS
Riverbed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Riverbed的方案为关键应用提供类似局域网的性能

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Steelhead EX + Granite enables Branch IT Consolidation

- Riverbed Virtual Services Platform (VSP)
  - Consolidate Branch Services on to one appliance
- Granite
  - Consolidate storage to the data center
  - Project storage out to the branch
  - Access it from a VM on Steelhead EX or from an external host

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Branch Office Box Evolution – 分支机构“一体机”

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企业架构未来的需求 – Optimize Hybrid Cloud IaaS and Storage

企业架构未来的需求 – Optimize SaaS Apps

Technology partnership with Akamai

Riverbed整体性能解决方案概况 (ADC & WCO)

1. WAN

Speed and **Capacity** of the connection; Protocol **Efficiency**
WOC/NPM

2. SERVER CLUSTER

Optimization, Offload, Accel eration, and **Availability**
ADC

3. WEB PAGES

Number and **Size** of files that make up the page
WCO

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How does Stingray accelerate applications delivery？
虚拟化、因云而建的应用交付

Optimize Infrastructure –
… to improve performance, and increase capacity

Optimize Content–
… to improve response time and enhance brand value

Differentiate and Prioritize –
… to give users the level of experience they require

Inspect and Secure –
… to block attackers

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Cloud/Virtual Steelhead Demo 解决方案演示

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Riverbed Cascade NPM: 网络优化＋应用可视性管理

- **Net Flow rapidly becoming method of choice for network management**
  - An industry standard supported by routers, WAN optimization devices, etc.
  - Much easier to implement than agent-based solutions or synthetic transactions
- **Cascade collects, stores flow records & augments with layer 7 information**
  - Advanced analytics proactively alert on performance & security events

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Finding the Needle in the Haystack（好比是草堆里捞针）

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Application Visibility Top-Down Drill
信息由上至下深度挖掘，迅速找到问题根源

Example: let's investigate the ERP

ks like a user
erience problem in

Clicking on it shows a
Response Time problem

Average
Response
Time was

And we know exactly
for which servers

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Riverbed公司简介

- 2002年在硅谷成立，总部位于加利福尼亚州的旧金山
- 纳斯达克上市公司，2011年年收入7.27亿美金，同比增长32%
- Riverbed Performance Platform
  致力于提升IT架构性能
- 17,000公司采用Riverbed的解决方案
  包括全球财富100强中的70%
- 7x24 服务/销售 遍布全球

Gartner Magic Quadrant for WAN Optimization Controllers

As of January 2012

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Deployment of Performance Products

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Riverbed Customers in All Industries 用户普及各行业

Financial Services

citi, Goldman Sachs, BARCLAYS, OppenheimerFunds, MasterCard, Ameritrade, NOMURA, Mellon, WELLS FARGO, WARBURG PINCUS, DISCOVER FINANCIAL SERVICES, Royal Bank of Canada, RBC GLOBAL PRIVATE BANKING, 21st Century Insurance Good people to call

Professional Services

Prudential Real Estate, KPMG, JONES LANG LASALLE, Golder Associates, Allen Matkins, LATHAM&WATKINS LLP, Brandywine Realty Trust, Equity Office, MOSS-ADAMS LLP, WIPRO Applying Thought, Pepper Hamilton LLP Attorneys at Law, DEBEVOISE & PLIMPTON LLP, PRICEWATERHOUSECOOPERS

Manufacturing

TOYOTA, HONDA, LOCKHEED MARTIN, NOKIA CONNECTING PEOPLE, P&G, Lucent Technologies, ALCOA, GOODYEAR, HITACHI Inspire the Next, BOEING, SAMSUNG, Newell Rubbermaid, CORNING, BAE SYSTEMS, LG

Media/Communications

20th Century FOX, Paramount, STARZ!, VIACOM, warner | media | group, TimeWarner, VNU, Telefónica, LexisNexis, UNIVISION, Los Angeles Times, News Corporation, NCC, MTV

A/E/C

Perkins Eastman, EPSTEIN, BECHTEL, PARSONS, HOK, nbbj, TENG, FLUOR, Gensler, SMITHGROUP, SOM, D·R·HORTON America's Builder, HDR, LEO A DALY

Energy

Chevron TEXACO, TESCO, UGI UTILITIES, INC., ConocoPhillips, Schlumberger, Westinghouse, SHIDE GROUP, APC Legendary Reliability, PETRONAS, bp, ENCANA, e·on, KINDER MORGAN, OPPD

Healthcare/Bio/Pharma

Roche, Pfizer, Hospira, medQuest, AMERIGROUP CORPORATION, BlueCross BlueShield, Johnson & Johnson, DOW, Medtronic, Schering-Plough, CRC, MCKESSON, MERCK, Bayer

US and International Government

US Army Corps of Engineers, NEW ZEALAND, NMCI, ABS

Retail/Consumer Transportation/Logistics

Liz claiborne, FedEx, VAN HEUSEN, RICOH, MGM MIRAGE, KOHLER, COACH, Coca-Cola, Timberland, Callaway GOLF, TIMEX, Hilton Grand Vacations Club, Asiana Airlines, PEPSI, AARP, KRAFT

Tech/Software

Microsoft, NVIDIA, TIBCO The Power of Now, SIEMENS, SolidWorks, ELECTRONIC ARTS, SHARP, QUALCOMM, vmware, ADP, software AG, ARIBA

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