
75%

500

20%

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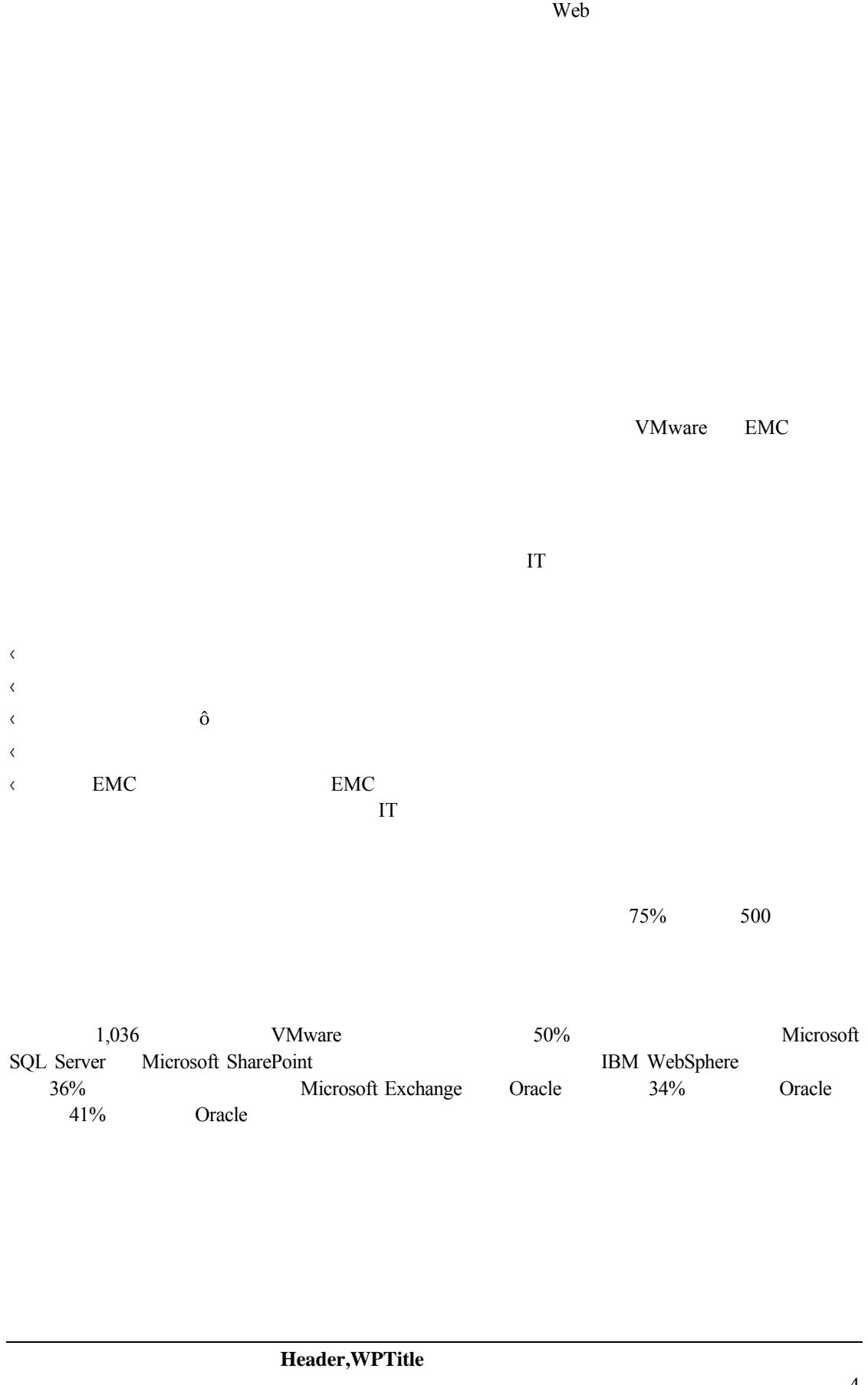
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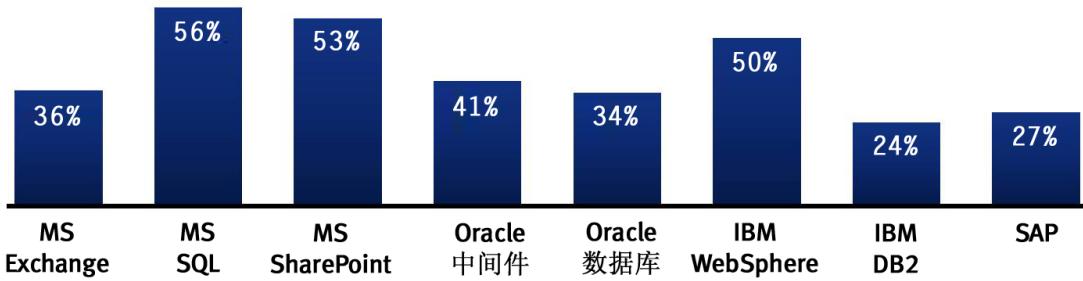
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ISV	17
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Corporate Express	19
.....	20



在 VMware 生产环境中运行应用程序的客户百分比



来源: VMware 客户调查, 2008 年 9 月, 客户样本数: 1,038 家

数据: 在运行某个特定应用程序的这一组 VMware 客户中, 至少有一个该应用程序的实例在虚拟机生产环境中运行的百分比

1. VMware



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< (SLA)
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< Microsoft Exchange
< (CRM) SAP
< Microsoft SQL Server Oracle
< Microsoft SharePoint

¹ Linux Windows

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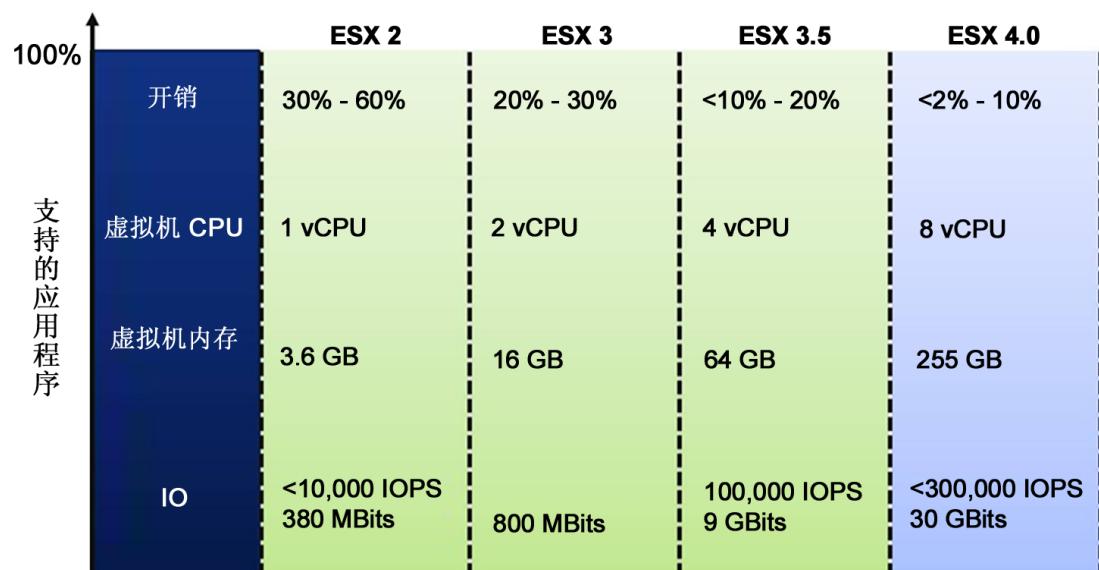
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VMware EMC X O q v k q p Î
VMware High Availability VMware Fault Tolerance VMware vCenter Site Recovery Manager
EMC® Replication Manager

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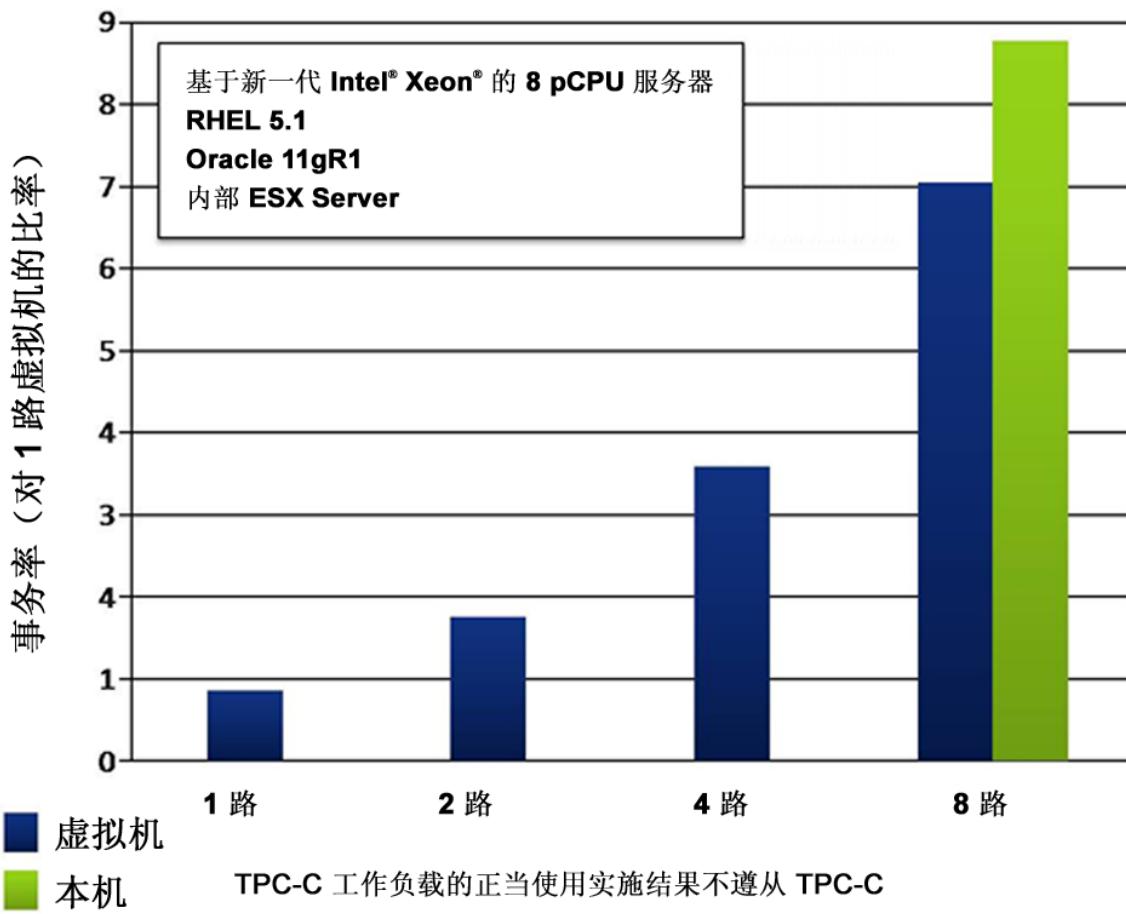
VMware ESX Server 2.0

vCPU	3.6 GB	I/O	380 Mb/s
	10,000		



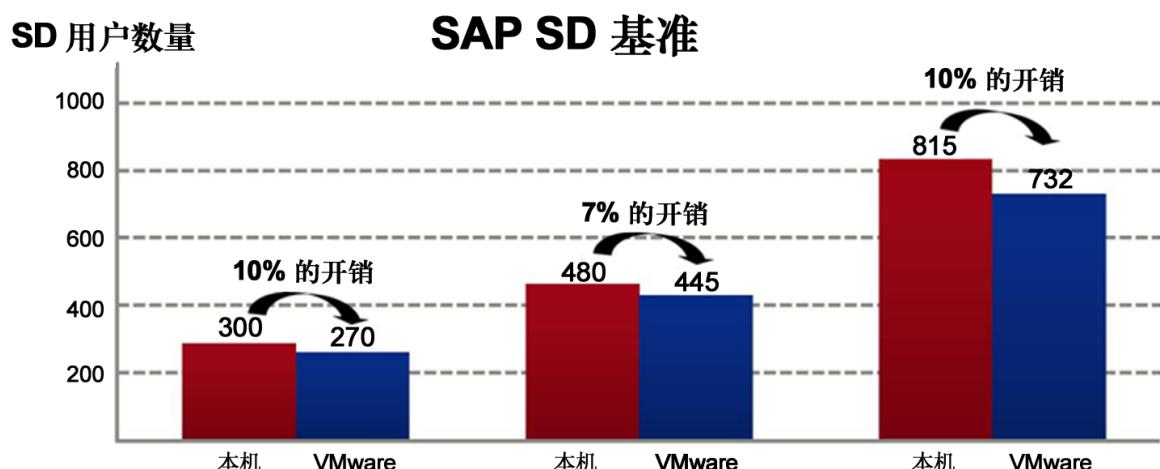
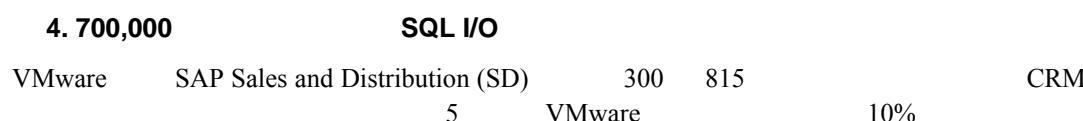
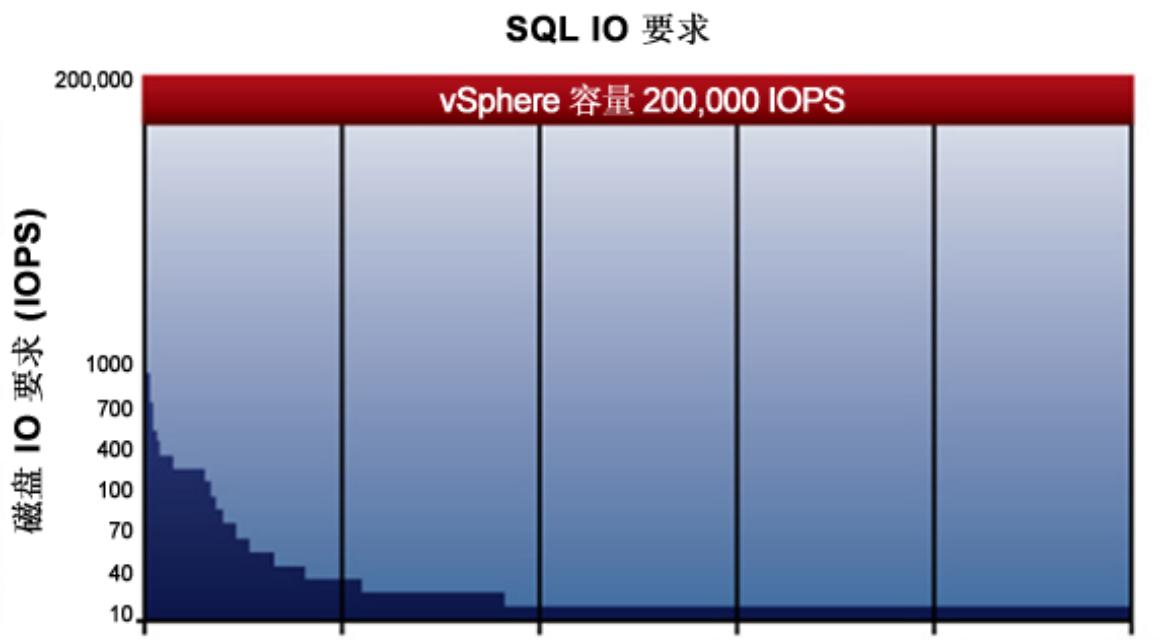
2. ESX

vSphere (ESX 4.0)	2	ESX 2.0	vCPU	VMware
	300,000	I/O	30 Gb/s	255 GB
				Intel x86 Nehalem
ESX Server				VMware vSphere
VMware	TPC-C	Oracle 11g Release 2	3	Intel Xeon
CPU	Red Hat Enterprise Linux 5.1			
CPU				
8 vCPU	15%			
	8,900			
	I/O	60,000		

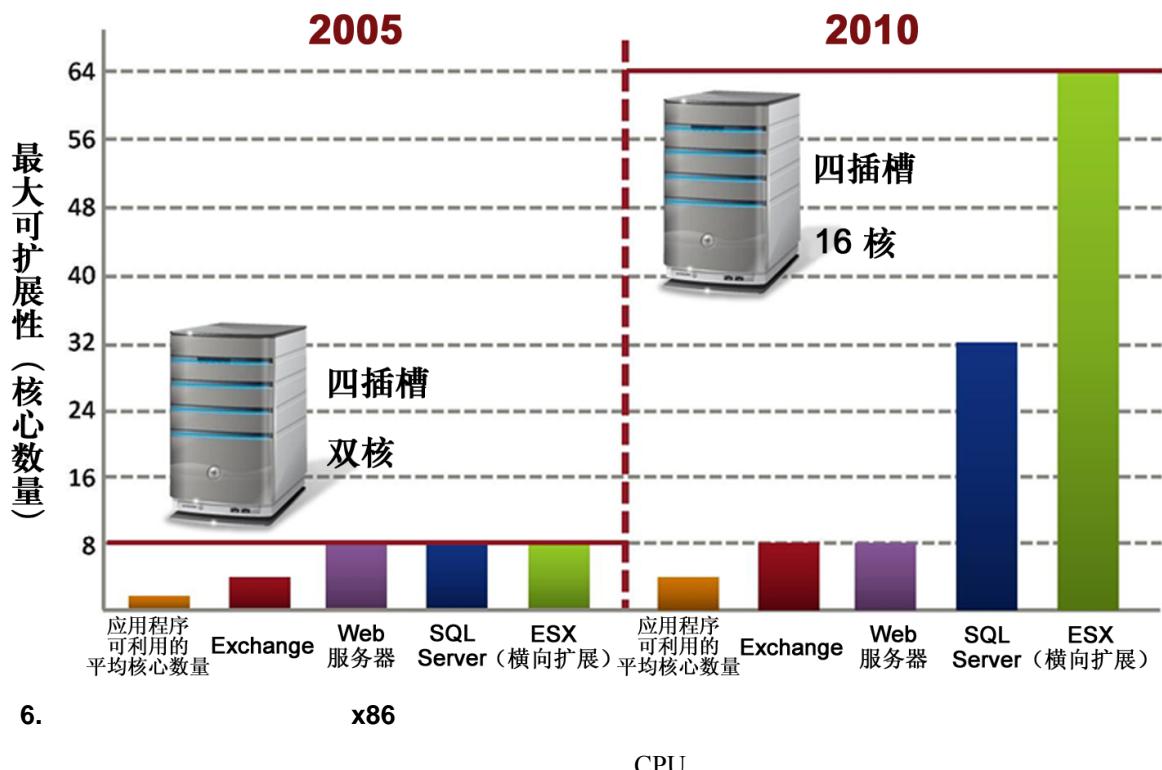


3.

VMware	VMware Capacity Planner	700,000
I/O (IOPS)	I/O SQL Server	500 I/O VMware
4	1,000	IOPS
100 IOPS	SQL Server	10% vSphere
VMware vSphere	300,000 IOPS	
I/O		

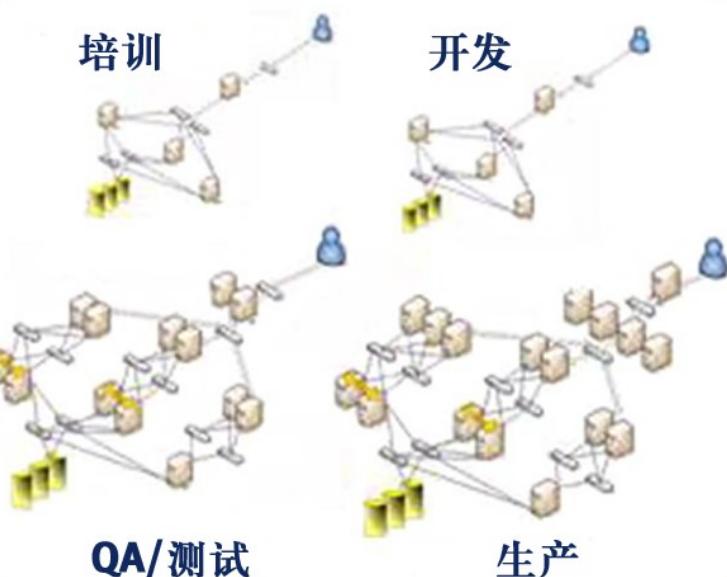


5. SAP SD



7 QA/ SAP 50 10:1 50
7:1

典型 SAP 部署



>50 台服务器
7:1 的非生产与生产比率
10:1 的整合率非常普遍

7. SAP

Microsoft Exchange

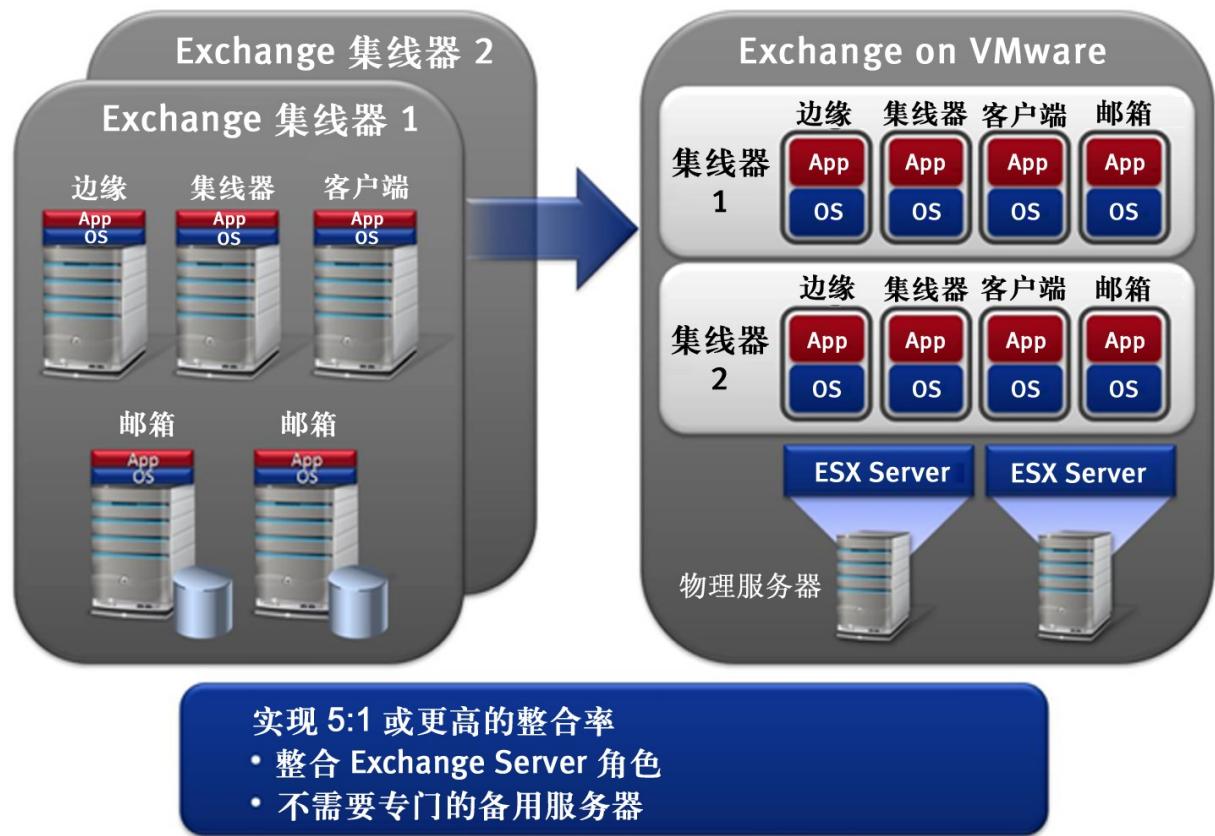
Exchange

VMware vSphere

Exchange Server

5:1

Exchange Server

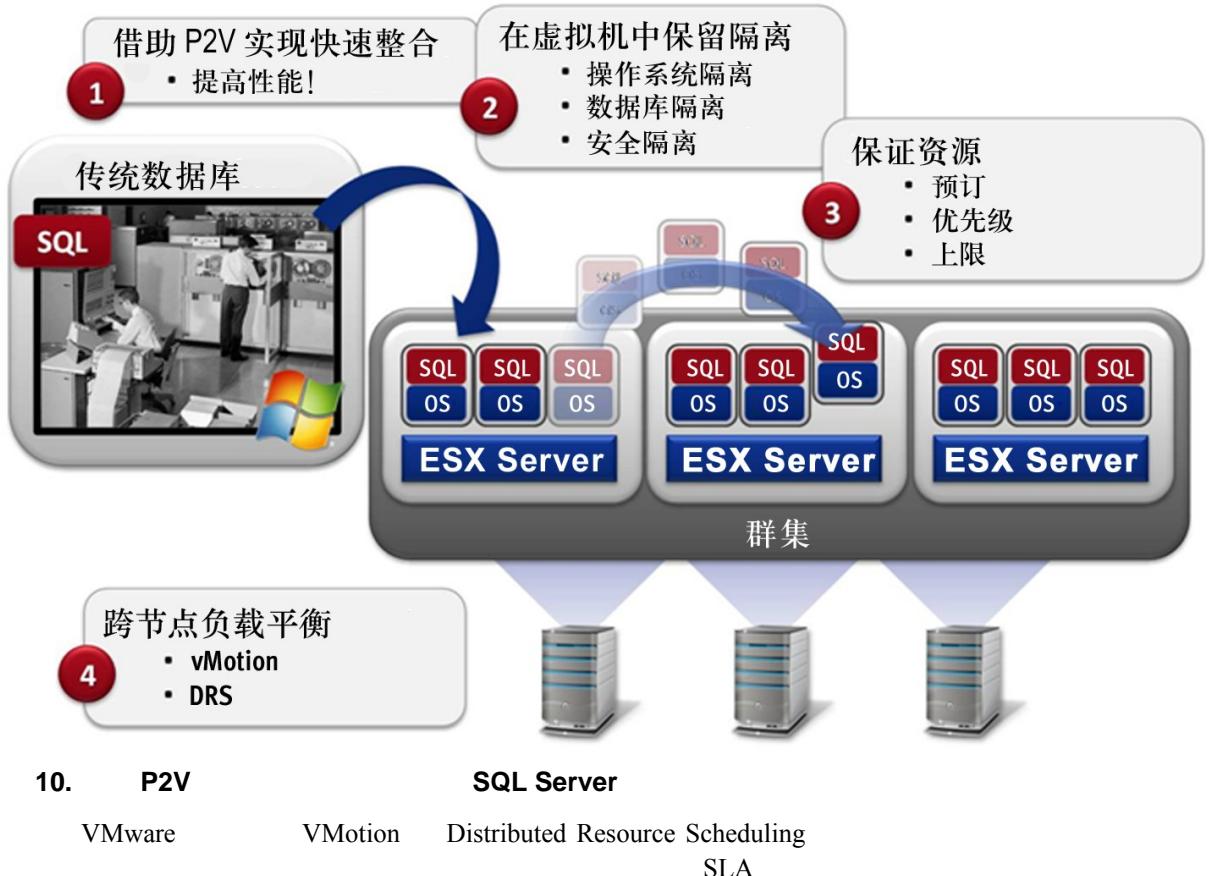


8. Exchange Server



9. SQL

- Windows
- SQL Resource Governor



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vCenter

X O y c t g " X O u c h gRSA

VMware EMC

EMC Navisphere® G O E " K q p EMC " Cisco 1000v

Cisco

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VMware

- ⟨ VMware High Availability
- ⟨ VMware VMotion
- ⟨ VMware Distributed Resource Scheduling
- ⟨ VMware Fault Tolerance

VMware High Availability

VMware High Availability (HA)

VMware HA

VMware HA VMware vSphere

VMware HA IT

IT

⟨ IT

VMware HA

IT

⟨

VMware HA

VMware HA

⟨ IT

VMware HA

⟨

VMware HA

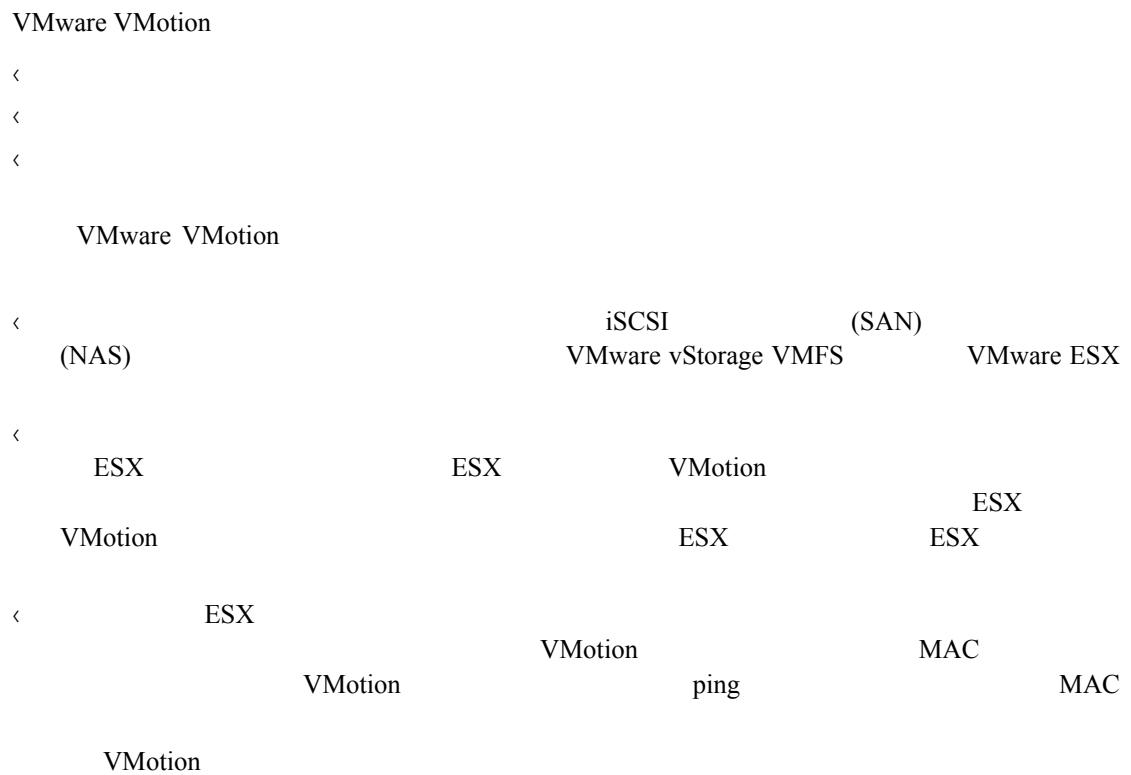
VMware HA

VMware VMotion

VMware VMotion

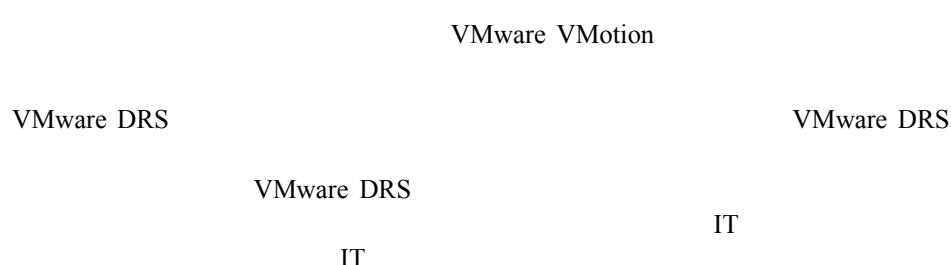
ESX

VMotion



VMware Distributed Resource Scheduling

VMware Distributed Resource Scheduler (DRS)



VMware DRS

VMware Fault Tolerance

VMware Fault Tolerance (FT)

x86

x86

FT

VMware vLockstep

ESX

◊

VMware Infrastructure

VMware Infrastructure

VMware Consolidated Backup
LAN

Consolidated Backup

ESX Server

VMware

Consolidated Backup

EMC Avamar®

Avamar

◊

Avamar

VMware Consolidated Backup

ESX Server

VMware

Infrastructure
CPU

Avamar

Avamar

200%

2%

VMware Consolidated Backup

ESX Server

Avamar

Avamar

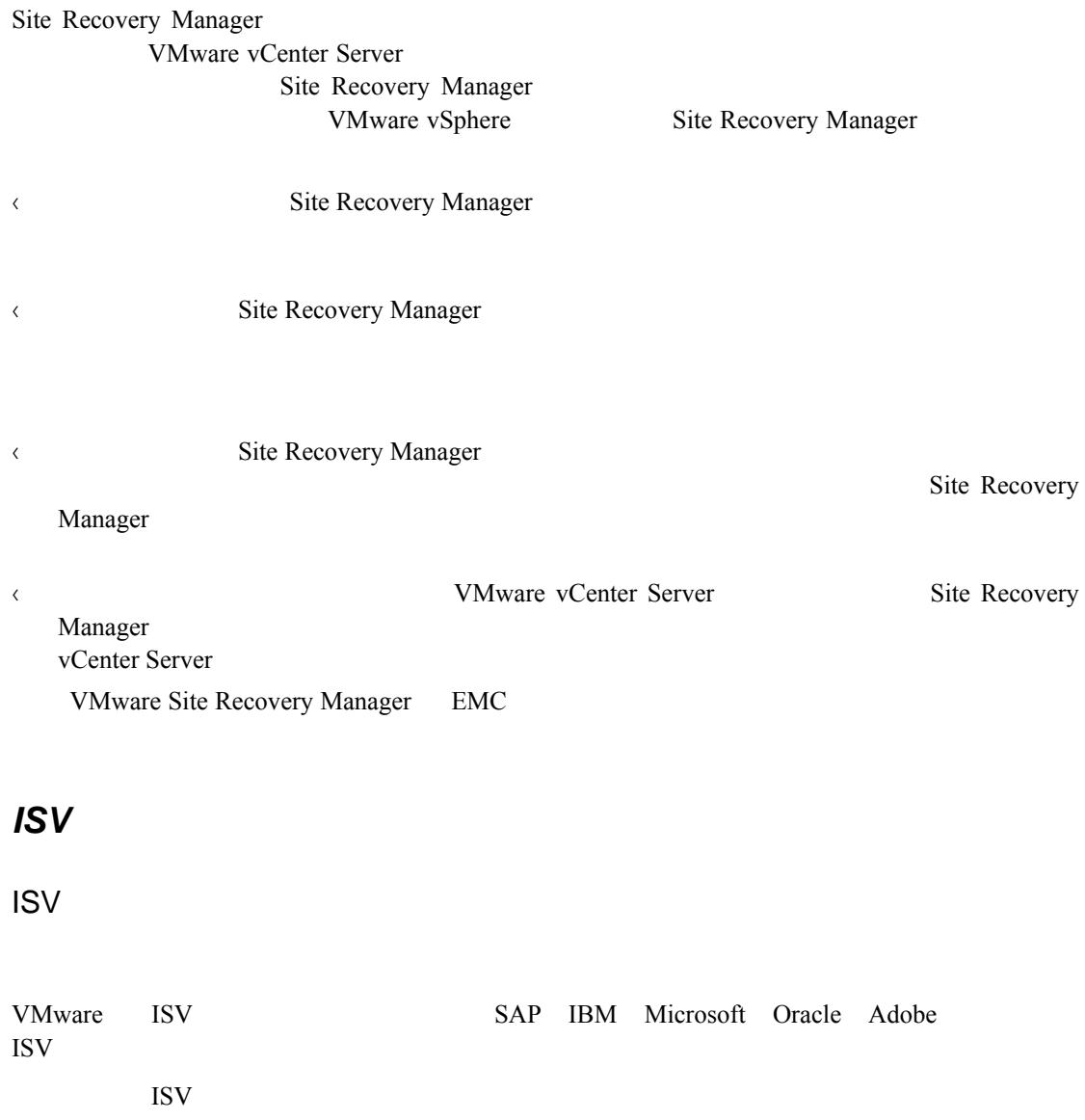
.vmdk

VMware Site Recovery Manager
Site Recovery Manager
VMware
Manager
Site Recovery Manager

VMware vSphere 4

Site Recovery

VMware vSphere VMware vCenter Server



EMC 100
1

1. EMC

EMC		
EMC	Microsoft Exchange 2007	40% 35%
EMC 2007	Microsoft Office SharePoint Server	75%

EMC	
EMC	Microsoft SQL Server 2008
EMC	VMware
EMC	Microsoft Exchange 2007

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Corporate Express

Corporate Express Australia IT
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VMware

Corporate Express EMC

80%
40% 70%
52%

< 70% 80%
< 40%
< 70%
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Corporate Express
< 200 16
< 50 TB DAS 20 TB SAN
< 600 64
< 2 TB 200 GB
< 20 2
< 100 10
Corporate Express

Mark Jones
EMC

SAN NAS

20%

ESX

IT

EMC VMware
 EMC
 EMC

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