



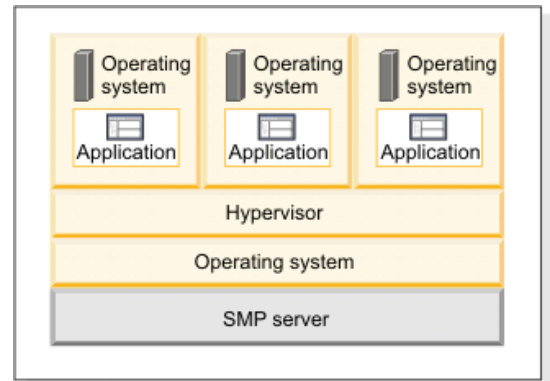
??

??????????

1. ???
2. ???
3. ???
4. ???
5. ?????????????IT????????????
6. ???
7. ???
8. ?????????????????????????????
9. ???

??????????????,INTEL?AMD ??????????,??????????????????????????.

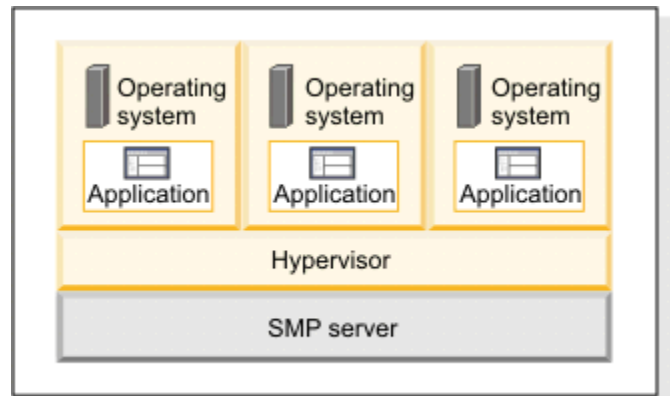
?????????? [Hypervisor Type 2](#)?Virtual PC,VMware GSX Server
.VMware workstation ,QMEU.?????????.??????????.



EICAY502-3

OSSLab ???????????[Hypervisor Type 1](#) (?????????)??,???
Hypervisor Type 1 ,??100%??
???????????.?Hypervisor Type 1 ????.????????????????.

1. ?????????,???????????????? ???OS??.(???????)
2. ???Hypervisor Type 1 ?Local ? ??? ???????



EICAY501-2

?????????????????:

OSSLab ???????????[Hypervisor Type 1](#) ?????FC Storage ?????lun.
????????????????????[Hypervisor Type 1](#)??,?????????????
VM????FC SAN Storage.????????motion ,live ??????????????

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1. ????
2. ????????
3. ??
4. ????????
5. Guest OS???
6. ??

????

- [Citrix XenServer](#)
 - ? [????](#)
 - ? [????](#)
 - ? [Installation](#)
 - ? [XenServer v.s RHEL KVM](#)
- [KVM](#)
 - ? [RedHat KVM](#)
 - ? [????](#)
- [OpenVZ/Proxmox](#)
 - ? [OpenVZ ??](#)
 - ? [Proxmox ??](#)
 - ? [?? OpenVZ ? CentOS 5](#)
- [Oracle VM](#)
 - ? [Install Oracle VM Manager on a guest OS\(1\)](#)
 - ? [Install Oracle VM Manager on a guest OS\(2\)](#)
 - ? [Install Oracle VM Manager on a separate machine\(OVMM\)](#)
 - ? [Install Oracle VM Server 3\(OVS\)](#)
 - ? [Migrate OVMM between two hosts](#)
 - ? [OVMM 3.1.x ????](#)
 - ? [OVMM 3.3.x ??](#)
 - ? [OVMM 3.4.x ??](#)
 - ? [Q & A](#)
 - ? [????????](#)
- [????](#)
- [?????? IMG,VMDK,VDI,VHD??](#)
 - ? [???????? OVF](#)
 - ? [VHD to VMDK](#)
 - ? [VMDK,VHD to VDI](#)
 - ? [VMDK ????](#)
- [?Hypervisor ???? Virtual Switch](#)

- [VMware Infrastructure](#)
 - ? [????](#)
 - ? [????](#)
 - ? [??????????](#)
 - ? [??????](#)
 - ? [TroubleShooting](#)
- [Xen](#)
 - ? [?? Guest OS](#)
 - ? [?? virt commands ??????\(Virtual Machine\)](#)
 - ? [?? xm ??????\(Virtual Machine\)](#)
 - ? [?? Virtual machine](#)
 - ? [?????](#)
- [?????-Third Party](#)

VMware

- [VMware Infrastructure](#)

?????<http://www.vmware.com/products/vi/>
 ??? vSphere 5

Xen

Xen ????????????? Code????????os kernel????VT ??cpu????????????kernel????????????????????

????Linux OS???xen??.???????? Xen ??????
http://linux.vbird.org/linux_enterprise/xen.php

- ????????????????
- 1.????bare metal install (????Host OS????????)
 - 2.????????????????

- [Citrix XenServer](#) ???6
 ?????<http://www.citrix.com/English/ps2/pr...tentID=1686939>
2009. 2.24? Pool,????????????
 Xenserver 5.5 ? ??Snapshot.
- OracleVM Server
 ????: <http://wiki.oracle.com/page/Oracle+VM>
????????Virtualization Server .??Pool,????,HA???
[??????](#)
 ?????????????????(????VM?).????Host OS ?????Web ????
- OpenSuse 11.2 <http://www.opensuse.org/>
 OpenSuse 11.2 ?????? Hypervisor ??????
 ?????????Xen, KVM ????????

Con-Virt

??Virt manager <http://virt-manager.et.redhat.com/>

- Parallels Server 4 bare metal
<http://www.parallels.com/products/server/baremetal/>
thx ?Parallels????????????,????????????
- xVM Hypervisor ???OpenSolaris Xen ?? Sun xVM Server
????:<http://opensolaris.org/os/community/xen/>
Sun ?Oracle ??????????????
- Virtual Iron 2009. 5 ?Oracle ??? ??????support
????:???Oracle VM
- RedHat EL 5 (built-in Xen)
?????<http://www.redhat.com/rhel/virtualization/>
???? RHEL 5.4 ?????? KVM?????? Seminar ?????????????? KVM ?????? Xen ??????????

KVM

KVM support ??dram and core cpu,per guest vcp ???8

- [KVM VS Xen](#)
- [Proxmox VE](#)
???????????????? Web UI ????????????????? Cluster?Live Migration????? OpenVZ(container virtualization) ? KVM(full virtualization+para virtualization)?
???? <http://www.montanalinux.org/node/741>
- [KVM&OpenVZ?????Proxmox VE?????](#)
- [RedHat KVM](#)
- [????](#)

OpenVZ

OpenVZ ? Host OS ? Guest OS ?????,????Host OS ?Windows Server 2003, Guest OS ???Linux

- ??
- ??????????Hardware?GuestOS?
- ???????????? virtuozzo ???????? vm(virtual machine) ??? container
- ??

?????

1. ?? CPU ????????????????
2. ?????????????????????? ????? RPM ????????? (compile) ??????????
3. ??? process????????????????? root ???
4. ??? IP????? (port)? Linux VPS ????????? IPTables ??????????????????????

OpenVZ????????????????[vtonf](#) ?

????????????? Virtuozzo???Winodws ?Linux???OpenVZ ? Virtuozoo ???????

OpenVZ(GPL)

- 32/64-bit CPU x8
- Concurrent VPS x100
- VPS support Linux only

Virtuozzo(Commerical Product)

- 32/64-bit CPU x32
- Concurrent VPS x1000+

- VPS support Linux and Windows

????????????????????? Virtuozzo ?????????????????????? OpenVZ ??????????????????

Windows 2008 Hyper V

MS ??????

- ?????<http://www.microsoft.com/windowsserv...us/hyperv.aspx>
- ?????<http://www.itcomparison.com/Virtuali...mware35esx.htm>

FAQ

? ??? CPU ??? Intel-VT ? AMD-V ???????

??????

Intel

<http://compare.intel.com/pcc/default.aspx?familyID=1>

AMD

<http://products.amd.com/en-us/>

Linux ????

CPU ? Intel ??

#grep vmx /proc/cpuinfo

Intel -> vmx

CPU ? AMD ??

#grep svm /proc/cpuinfo

AMD -> svm

See Also ([?????](#),)

???? <http://publib.boulder.ibm.com/infoce...ayvservers.htm>