



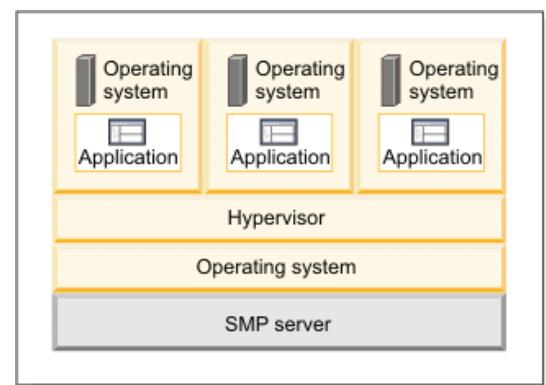
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???????????

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

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

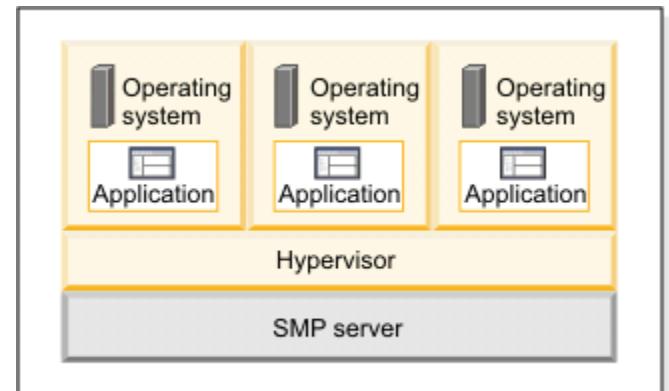
????????? [Hypervisor Type 2](#)?Virtual PC,VMware GSX Server  
 .VMware workstation ,QMEU.?????????.?????????.



EICAY502-3

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

1. ???????,????????????? ??OS??.(??????)



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. ??

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- [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 ????](#)
- [?Hypervisior ???? Virtual Switch](#)

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

## VMware

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

## Xen

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

????Linux OS??xen???.?????? Xen ??????  
[http://linux.vbird.org/linux\\_enterprise/xen.php](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

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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>