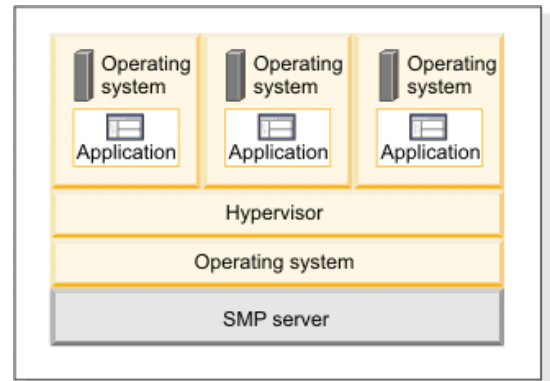


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??????????

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

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

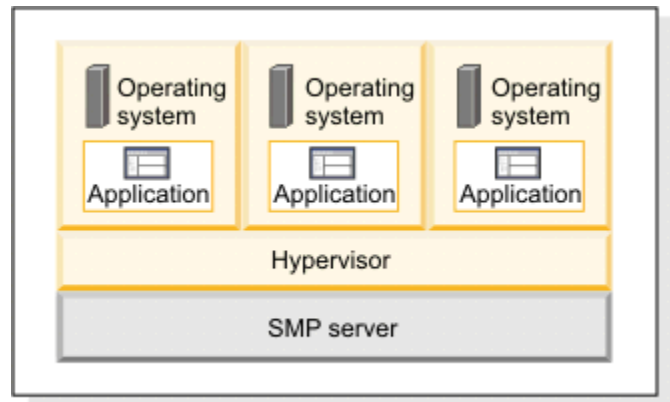
????????? [Hypervisor Type 2](#)?Virtual PC,VMware GSX Server  
.VMware workstation ,QMEU.?????????.??????????.



EICAY502-3

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

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

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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 ????](#)
- [?Hypervisor ???? 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?
- ?????????? virtuoizzo ???????? 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>