



?? 13, 2009 ?? sunchiahome

? Red Hat Enterprise Linux 5.4 Release Notes ?????????????????? Xen + KVM(Kernel-based Virtual Machine),????????????????? hypervisor(Xen / KVM) ????????? Xen ??????,???? x86_64 ????????? KVM(Kernel-based Virtual Machine)??? KVM ?? FV(Fully Virtualized) ? Guest OS.????????? Guest OS 32-bit ?? 64-bit .

- Red Hat Enterprise Linux 3
- Red Hat Enterprise Linux 4
- Red Hat Enterprise Linux 5
- Windows XP
- Windows Server 2003
- Windows Server 2008

????????? RHEL5 Update 4 x86_64 KVM(Kernel-based Virtual Machine) ??????,?????? RHEL5 update4 x86_64 ?????????????????? KVM ?,?????????????????????(Customize now)

? Virtualization ??? KVM,????????????????? KVM ?????? KVM -> Select all optional packages.????? Optional packages ?????????.

RHEL5 update4 x86_64 ?????????? Xen kernel ??,????????????????, ??? KVM Hypervisor .??? Xen ?? KVM
???????????????? libvirt virtualization tools (virt-manager ?? virsh),???????? virt-manager(??? Applications /
System Tools / Virtual Machine Manager) ??? virtual machine.

```
[root@benjr ~]# virt-manager
```

????????????????,???????? Xen ??? hypervisor ,???????? KVM ? Hypervisor.

Unable to open a connection to the Xen hypervisor/daemon

Verify that:

- A Xen host kernel was booted
- The Xen service has been started.

? File / Add Connection ??? QEMU ? Hypervisor.

??????? Xen ????? Virtual Machine ???? ,????? full virtualized ,??????? Hypervisor ?? KVM ?.

???? Xen ? KVM(Kernel-based Virtual Machine) ??????.Xen ??????? VMM(Virtual Machine Monitor) ?????
 ? Guest OS ??????????.? Dom0 ???? Para-Virtualized ? Guest OS.???????????? PV(Paravirtualized) ?????? Guest
 OS ????????????????????????

????????? Guest OS ??????????.?????? FV(Fully Virtualized) Guest OS ?????????????????? CPU ??????,???? Intel VT
 ?? AMD-V.

KVM ? Linux ??????(2.6.16???.),??? Linux ??????????????,??? Xen ??????,????????.

- KVM ? Guest OS ?? Processes ?????? top , kill ... ?????.
- KVM ??? Intel VT ?? AMD-V ???.
- KVM ?? QEMU ??? I/O ??.
- ?????? Guest OS ? Linux(32/64?)?Windows(32?).

<http://www.gridvm.org/xen-vs-kvm.html>

?? RHEL5 update4 x86_64 KVM ?????????????? redhat ? nown_Issues-kvm ???!

[http://www.redhat.com/docs/en-US/Red_Hat_Enterprise_Linux/5.4/html/Technical_Notes/
Known_Issues-kvm.html](http://www.redhat.com/docs/en-US/Red_Hat_Enterprise_Linux/5.4/html/Technical_Notes/Known_Issues-kvm.html)