RedHat ??? RHEL5.4 ?????? KVM Virtualization?? 5.4 ???? Xen + KVM ????????????????? KVM ????? RedHat ?????????

RHEL KVM ?????? 16 vCPU/per guest?? VMware vSphere ? Citrix XenServer for free ???? 8 vCPU?

RHEL 5.4 ???? KVM Hypervisor ??????? virt ????????????????????????????? ????????????????? Live Migration(?? vmware ? live-motion)?HA????????? RHEV(RedHat Enterprise Virtualization) Server ????????? KVM Hypervisor?RHEV Manager?
?????? http://www.redhat.com/virtualization...ures-benefits/
???? http://www.redhat.com/v/swf/rhev/demo.html

RedHat ??????
http://www.redhat.com/docs/en-US/Red...ide/index.html

???????

?? 64 bit ????

?????????? KVM ???????? 64-bit ???????? KVM ????????????????? 64-bit?????

Note: ?????? 64-bit RHEL?CPU ?????? 64-bit?

Guest OS ????

Supported fully virtualized guests

Operating system	Support level
Red Hat Enterprise Linux 3 x86	Optimized with para-virtualized drivers
Red Hat Enterprise Linux 4 x86	Optimized with para-virtualized drivers
Red Hat Enterprise Linux 4 AMD 64 and Intel 64	Optimized with para-virtualized drivers
Red Hat Enterprise Linux 5 x86	Optimized with para-virtualized drivers
Red Hat Enterprise Linux 5 AMD 64 and Intel 64	Optimized with para-virtualized drivers
Windows Server 2003 R2 32-Bit	Optimized with para-virtualized drivers
Windows Server 2003 R2 64-Bit	Optimized with para-virtualized drivers
Windows Server 2003 Service Pack 2 32-Bit	Optimized with para-virtualized drivers
Windows Server 2003 Service Pack 2 64-Bit	Optimized with para-virtualized drivers
Windows XP 32-Bit	Optimized with para-virtualized drivers (network driver only)
Windows Vista 32-Bit	Supported
Windows Vista 64-Bit	Supported
Windows Server 2008 32-Bit	Optimized with para-virtualized drivers
Windows Server 2008 64-Bit	Supported

???????

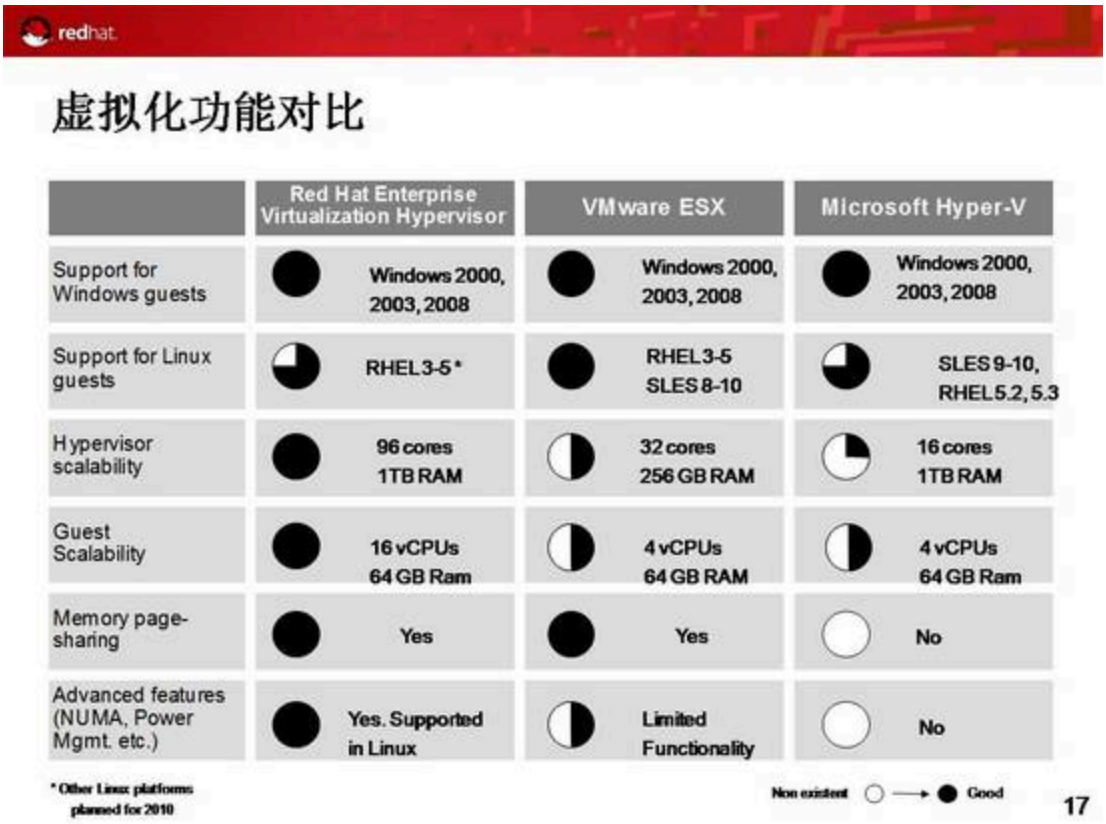
Per Host:

- Max physical CPUs = 64
- Max logical CPUs = 256
- Max RAM = 1 TB

Per Guest:

- Max vCPU/guest = 16
- Max RAM/guest = 256 GB

? VMware, Hyper-V ??



????

?? RHEL for x86_64 ?????????????????????????????? Virtualization????????????? Customize Now??? KVM??? Virtualization(?? Xen ??)?

??????????

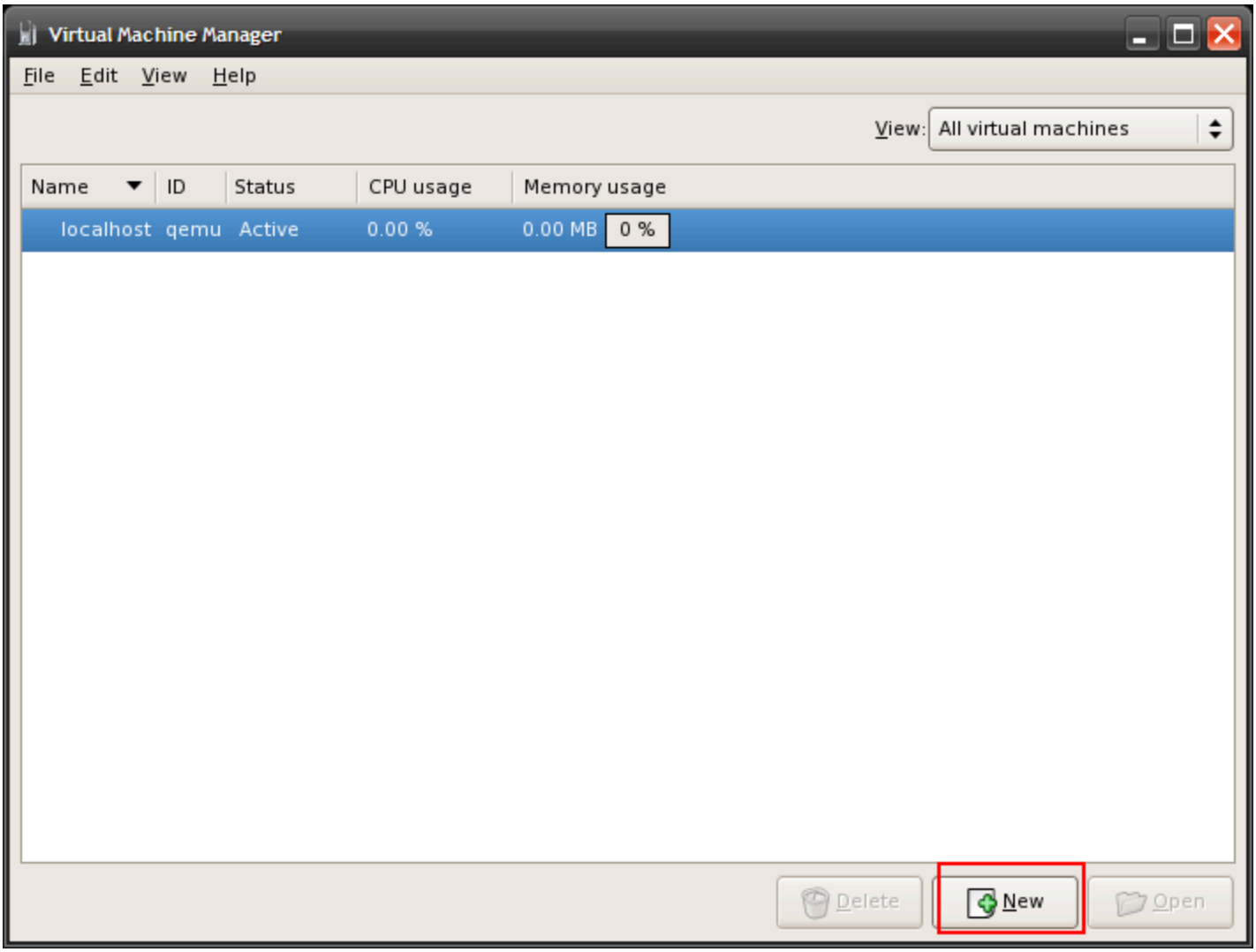
?? Guest OS - RHAS3

? root ?? Host OS????????????

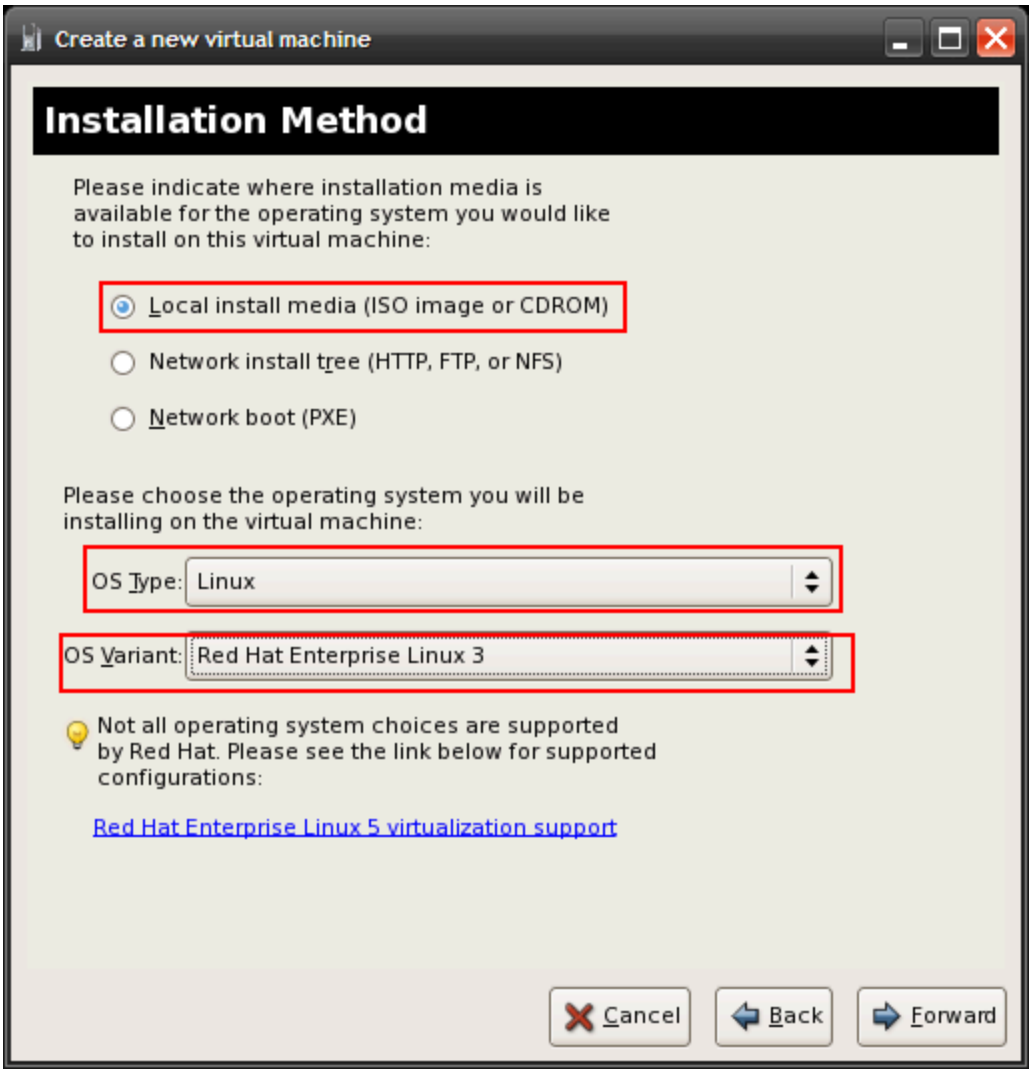
virt-manager &

1. ? **New** ?? Guest OS(virtual machine)?

Notes: KVM ???? **Fully Virtualized**?



2. ?? Guest OS Type

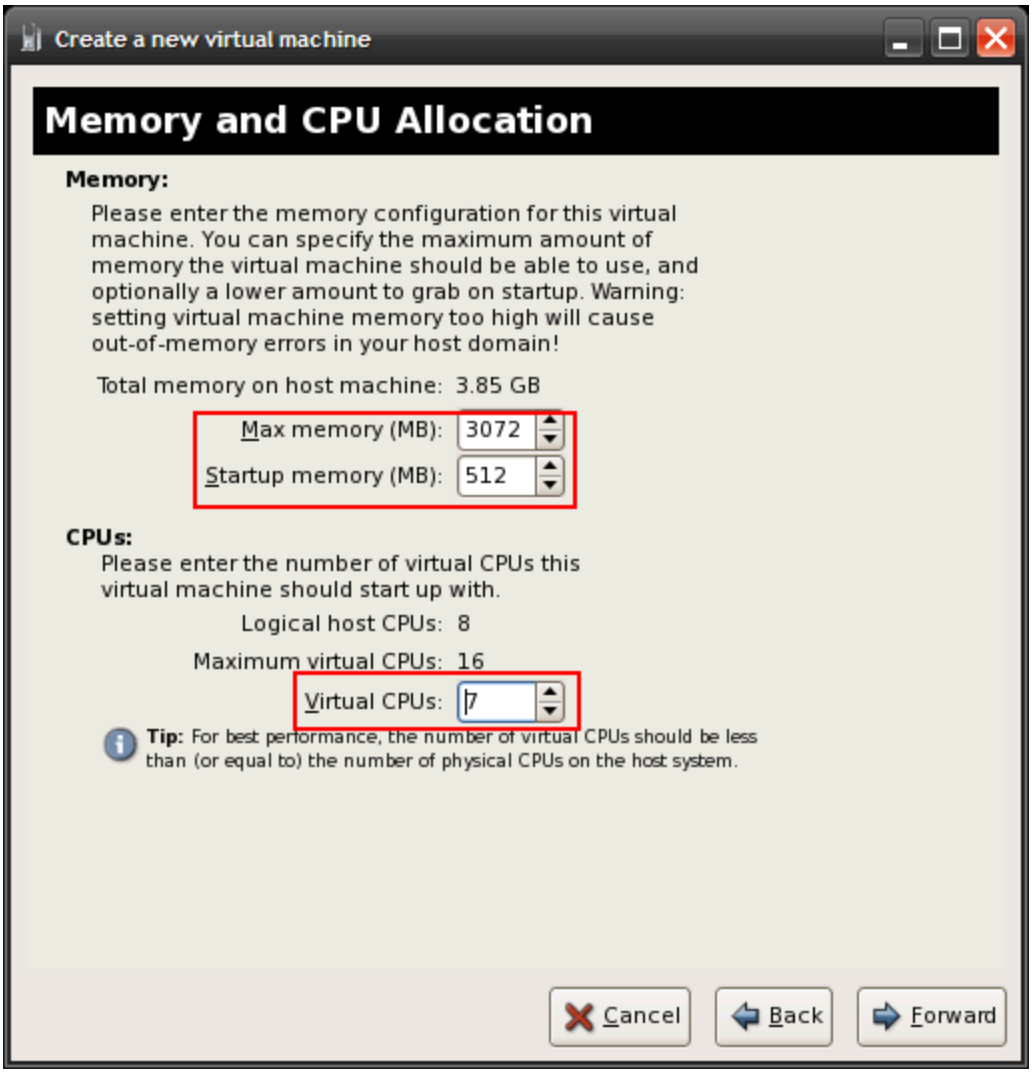


3. ?? ????? ISO ????

Tip: ISO ???????????? FTP ???


Create a new virtual machine
Installation Media
Please indicate where installation media is available for the operating system you would like to install on this virtual machine:
ISO image location:
ISO location:
ftp://gtnas02/linux/rhas3u9
Browse...
CD-ROM or DVD:
Path to install media:
Cancel
Back
Forward

4. ?? CPU & Memory ??



5. ?????????????????? NAT ??????

Tip: ?????????????????? NAT????? Bridge ????? LAN ???????????

???? Bridged Network ?????

// ?? Xen network scripts, ?????? Xen, ???
?? /etc/xen/xend-config.sxp

(network-script network-bridge)
???
(network-script /bin/true)

// ?? NetworkManager ??
#chkconfig NetworkManager off
#chkconfig network on
#service NetworkManager stop
#service network start

// ?????????
#cd /etc/sysconfig/network-scripts

#vi ifcfg-eth0

DEVICE=eth0
...
ONBOOT=yes
BRIDGE=br0
MTU=9000

Note: ?? BRIDGE, MTU ?????

#vi ifcfg-br0

DEVICE=br0
TYPE=Bridge
BOOTPROTO=dhcp
ONBOOT=yes
DELAY=0

Notes: TYPE=Bridge????????????

#service network restart

// ?? iptables
#iptables -I FORWARD -m physdev --physdev-is-bridged -j ACCEPT
#services iptables save
#services iptables restart

#vi /etc/sysctl.conf
?????

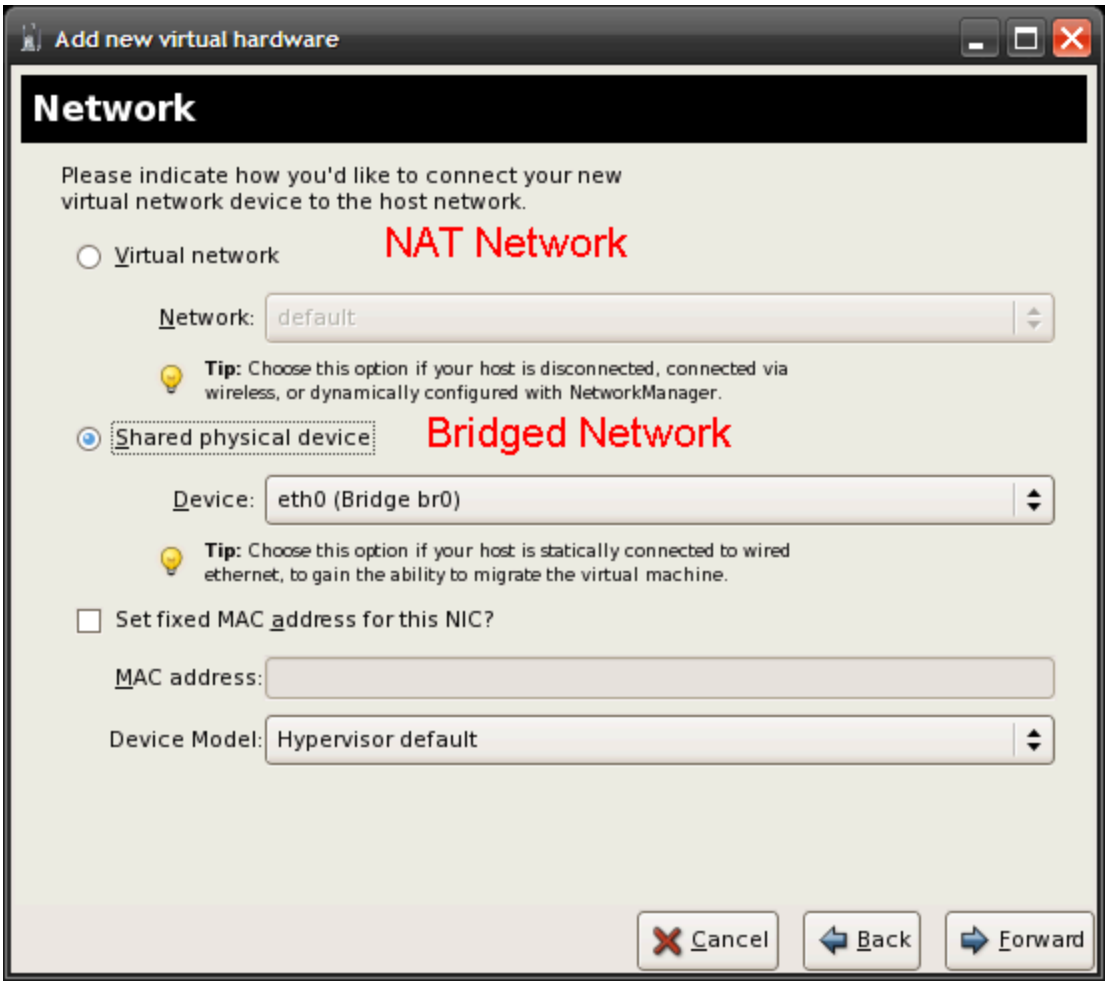
net.bridge.bridge-nf-call-ip6tables = 0
net.bridge.bridge-nf-call-iptables = 0
net.bridge.bridge-nf-call-arptables = 0

#sysctl -p /etc/sysctl.conf
#service libvirtd reload

// ?? ????
#brctl show

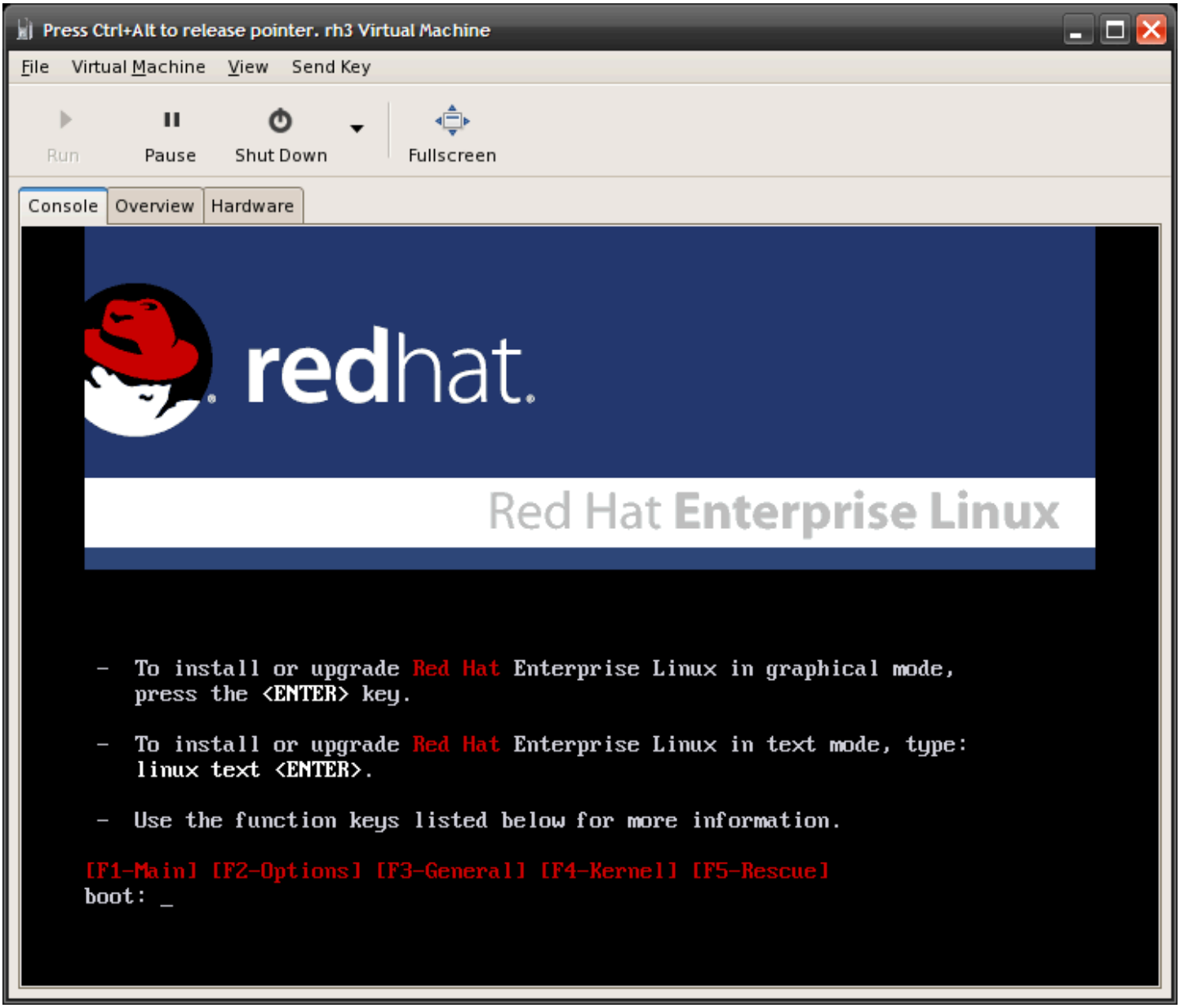
bridge name	bridge id	STP enabled	interfaces
br0	**8000.0a4e52d7f15c**	**no**	**eth0**
virbr0	8000.000000000000	yes	

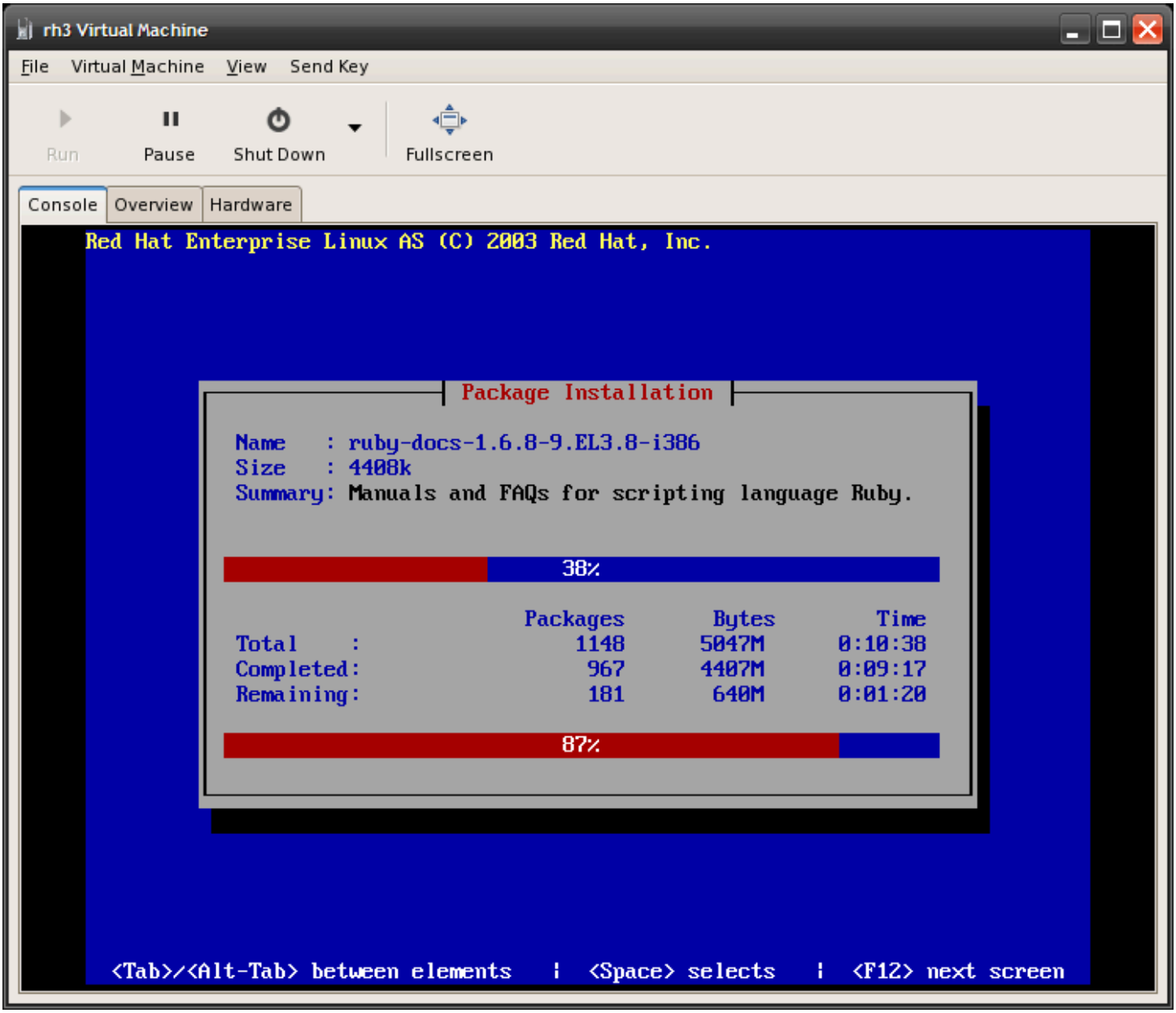
Notes: br0 ? bridged network; virbr0 ? NAT network??????????


Add new virtual hardware
Network
Please indicate how you'd like to connect your new virtual network device to the host network.
Virtual network
NAT Network
Network: default
Tip: Choose this option if your host is disconnected, connected via wireless, or dynamically configured with NetworkManager.
Shared physical device
Bridged Network
Device: eth0 (Bridge br0)
Tip: Choose this option if your host is statically connected to wired ethernet, to gain the ability to migrate the virtual machine.
Set fixed MAC address for this NIC?
MAC address:
Device Model: Hypervisor default
Cancel
Back
Forward

VM ?????

???? Guest OS


Press Ctrl+Alt to release pointer. rh3 Virtual Machine
File Virtual Machine View Send Key
Run Pause Shut Down Fullscreen
Console Overview Hardware
redhat.
Red Hat Enterprise Linux
- To install or upgrade Red Hat Enterprise Linux in graphical mode, press the <ENTER> key.
- To install or upgrade Red Hat Enterprise Linux in text mode, type: linux text <ENTER>.
- Use the function keys listed below for more information.
[F1-Main] [F2-Options] [F3-General] [F4-Kernel] [F5-Rescue]
boot: _



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- ????
- OSSLab FAQ
- ????? ????
- ????
- ??? - Virtualization
- VoIP
- ????