

???? RHEL 5 ????? Virtual machine ?? PV ?? FV,????????? Host ? RHEL5 ? PV Guest OS ????? RHEL5 ??????
???RHEL 5 ????? Guest ? PV ??????????? FV.????? RedHat ???? (<http://www.redhat.com/rhel/server/advanced/virt.html>) ??????????????????,????????????????!????????????????? SuSE Linux,??? VMware ??
Xen Source ???? RedHat ? SuSE.

PV(Paravirtualized):

????? x86 ??????????,????????????????(nonvirtualizable instructions)????? Ring 0 ?? ?? Paravirtualization
????????,?????????(Guest OS)???,????????(Guest OS)????????????????(nonvirtualizable instructions)????? VMM
????????(hypercall),?? VMM ??????????.????(Windows 2000/XP)?????????(Microsoft ?????????????????),??????
Paravirtualization.???? hypercall ??? OS kernel ? syscall ??? hypercall ??? hypvisor(VMM)?.

FV(Fully Virtualized):

??? VT ??? VMM ?????? Ring 0 ??,Dom0 ? kernel ?????? Ring1(Dom0 ?????? Xen ??????????).?????? DomU ??????
Ring1(?? Para-Virtualized,?? VT ??? Xen ??? full-Virtualized).????? AP ?????? Ring 3.?????? Para-Mode ?
Guest OS ????? VMM ??? ?????? Full-Mode ?.???? VT ??????.VMM ?Guest OS(Para/Full-Mode)????????? Ring0 ?
?.?? VMM ???? Guest OS ??????.Root Mode Privilege Levels.?????????(nonvirtualizable instructions)?????
hypervisor ?????????? binary translation ? paravirtualization ??????

????? virtual machine ?????? FV(Fully Virtualized),???????? CPU ?????,?????? CPU ??? AMD-V Pacifica (Flag ? svm) ,Intel VT (flag ? vmx) ,???? BIOS ?? CPU virtualization ?????.

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PV	Para-Virtualized: ??????????????????
FV	Fully-Virtualized: ??????????????(CPU) ??? - Intel VT ?? AMD-V.
Optimized	?? PV ?? Guest OS kernel / driver ????????
Supported	?? PV ? Guest OS kernel / driver ??????????
Unsupported	????? Guest OS ???????
N/A	?????????

Tech Preview	??????????????????..
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??? <http://www.redhat.com/rhel/server/advanced/virt.html>

Red Hat Enterprise Linux 5.2 Virtualization Guest Matrix			
		Kernel & Processor Architecture	
Guest Operating System	Enterprise Linux 5 x86-64	Enterprise Linux 5 x86-32 (PAE)	Enterprise Linux 5 IA64
Supported Enterprise Linux Combinations			
Red Hat Enterprise Linux 3 x86-64 FV	Optimized	N/A	N/A
Red Hat Enterprise Linux 3 x86-32 FV	Optimized	Optimized	N/A
Red Hat Enterprise Linux 3 IA64 FV	N/A	N/A	N/A
Red Hat Enterprise Linux 4 x86-64 PV	Optimized	N/A	N/A
Red Hat Enterprise Linux 4 x86-64 FV	Optimized	N/A	N/A
Red Hat Enterprise Linux 4 x86-32 PV	Tech Preview ¹	Optimized	N/A
Red Hat Enterprise Linux 4 x86-32 FV	Optimized	Optimized	N/A
Red Hat Enterprise Linux 4 IA64 PV	N/A	N/A	N/A
Red Hat Enterprise Linux 4 IA64 FV	N/A	N/A	Supported
Red Hat Enterprise Linux 5 x86-64 PV	Optimized	N/A	N/A
Red Hat Enterprise Linux 5 x86-64 FV	Optimized	N/A	N/A

Red Hat Enterprise Linux 5 x86-32 PV	Tech Preview ¹	Optimized	N/A
Red Hat Enterprise Linux 5 x86-32 FV	Optimized	Optimized	N/A
Red Hat Enterprise Linux 5 IA64 PV	N/A	N/A	Optimized
Red Hat Enterprise Linux 5 IA64 FV	N/A	N/A	Supported
Supported 3rd Party Operating Systems			
Windows Server 2000 32-Bit	Supported ²	Supported ²	N/A
Windows Server 2000 64-Bit	Unsupported ³	N/A	N/A
Windows Server 2000 IA64	N/A	N/A	Supported
Windows Server 2003 32-Bit	Supported ²	Supported ²	N/A
Windows Server 2003 64-Bit	Unsupported ³	N/A	N/A
Windows Server 2003 IA64	N/A	N/A	Supported
Windows XP 32-Bit	Supported ²	Supported ²	N/A
Windows XP 64-Bit	Unsupported ³	N/A	N/A
Windows Vista 32-Bit	Supported ²	Supported ²	N/A
Windows Vista 64-Bit	Supported ²	N/A	N/A