

FreeBSD 7.0 + Xen 3.1 + HVM: Success!

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2008-03/msg00005.html>

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Just thought I'd pass along that I have successfully installed FreeBSD 7.0 into a Xen 3.1 HVM. This one went as smooth as I expected, considering my experience with 6.3. Haven't done any benchmarking or stress testing or port installs or anything. But so far it's working nicely.

Here's all the info. If you'd like to see anything else, let me know.

Host hardware:

Tyan h2000M motherboard
2x AMD Opteron 2200-series CPUs (dual-core)
8 GB ECC DDR2-800 SDRAM
3Ware Escalade 9650SX-12ML PCIe RAID controller
12x 400 GB SATA harddrives in RAID6 with 1 hot spare (4 TB)

Host software:

Ubuntu Server 7.10 64-bit version
Linux kernel 2.6.22
Xen 3.1
LVM partitions for all the virtual machines

Xen config file:

```
# Enable hardware virtualisation using HVM
kernel = '/usr/lib/xen-3.1/boot/hvmloader'
device_model = '/usr/lib/xen-3.1/bin/qemu-dm'
builder = 'hvm'

# VM/domain name
name = 'freebsd70'

# Memory and CPU settings
vcpus = '1'
memory = '1024'

# Disk settings
disk =
[ 'phy:/dev/xenvol0/freebsd70,ioemu:hda,w', 'file:/home/fcash/freebsd-7.0-i386-cd1.iso,hdc:cdrom,r' ]
```

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```
boot = 'c'

# Network settings
hostname = 'fbsdvm2.sd73.bc.ca'
vif = [ 'type=ioemu, bridge=xenbr3, mac=00:16:3e:00:00:03' ]
dhcp = '1'

# Graphics settings
sdl = '0'
vnc = '1'
vncviewer = '1'

# Other settings
pae = '0' # Whether to enable PAE for 32-bit VMs
acpi = '0' # Whether to enable ACPI for guests
localtime = '1' # Whether system clock is set to local
time or UTC

# Start/stop settings
on_poweroff = 'destroy'
on_reboot = 'destroy'
on_crash = 'destroy'
```

FreeBSD 7.0 dmesg:

```
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FreeBSD 7.0-RELEASE #0: Sun Feb 24 19:59:52 UTC 2008
root@xxxxxxxxxxxxxxxxxxxxxx:/usr/obj/usr/src/sys/GENERIC
Timecounter "i8254" frequency 1193182 Hz quality 0
CPU: Dual-Core AMD Opteron(tm) Processor 2220 (2793.13-MHz 686-class CPU)
Origin = "AuthenticAMD" Id = 0x40f13 Stepping = 3

Features=0x789fbbf<FPU,VME,DE,PSE,TSC,MSR,MCE,CX8,APIC,SE
```