**Prepare**

Create a vswitch and start it,

hpvmnet -c -S vswitch1 -n 0

hpvmnet -b -S vswitch1

note. '-n 0' for 'lan0'

check,

hpvmnet

Prepare the Virtual FileDVDs,

lvcreate -n data -L 100000 vg00

mkfs -F vxfs -o largefiles /dev/vg00/data

mkdir -p /data

vi /etc/fstab

mount /data

cd /data

ioscan -fnC disk

put DVD1 in the tray and make the ISO,

dd if=/dev/.../rdsk/... of=baseoe1.iso bs=4096k

then DVD2,

dd if=/dev/.../rdsk/... of=baseoe2.iso bs=4096k

**Create a VM guest and install HP/UX**

Create an LV and a VM on top of it,

lvcreate -n guest2 -L 25000 vgvm

hpvmcreate -P guest2 -O HPUX -c 1 -r 2G \

-a disk:scsi::lv:/dev/vgvm/rguest2 \

-a network:avio\_lan::vswitch:vswitch1

Note. CPUs : 1

Note. RAM: 2GB

Note. vdisk1: guest2 ('disk:scsi:' for the VM guest, ':lv:' for the VM host)

Note. vlan0 connected to vswitch 1 which is connected to VM host's lan0

Provide DVD1 iso image as Virtual FileDVD for the installation,

hpvmmodify -P guest2 -a dvd:scsi::file:/data/baseoe1.iso

Note. otherwise use Virtual DVD : dvd:scsi::disk:/dev/.../rdsk/...

Start the guest and go to its console,

hpvmstart -P guest2

hpvmconsole guest2

Note. you can also get to vMP and start the guest from there

Inside the guest (boots from the CDROM by default),

#Boot from a file > CDROM > INSTALL.EFI

Once the second DVD is asked,

hpvmmodify -P guest2 -d dvd:scsi::file:/data/baseoe1.iso

hpvmmodify -P guest2 -a dvd:scsi::file:/data/baseoe2.iso

When the installation has finished, remove the virtual CD/DVD player,

hpvmmodify -P guest2 -d dvd:scsi::file:/data/baseoe2.iso

**Maintainance**

Start a guest and get to its console,

hpvmstart -P guest2

hpvmconsole -P guest2

Note. you can also get to vMP and start the guest from there

Check for connected disks and dvds (KSH),

guests=`hpvmstatus | sed '1,3d' | awk '{print $1}'`

for guest in $guests; do

print $guest

hpvmstatus -P $guest -v | grep scsi

done

unset guests

Modify a guest,

hpvmmodify -P guest2 -c 1 -r 2G

Stop a guest,

hpvmstop -P guest2

Shutdown all VMs,

hpvmstop -a -F

Completely delete a guest,

hpvmremove -P guest2

lvremove /dev/vgvm/guest2

hpvmstatus -v -P guest3

**Advanced maintainance**

Check for disks and clone a VM guest,

hpvmstatus -P guest2 -v | grep scsi

hpvmstop -P guest2

hpvmclone -P guest2 -N guest3 -d disk:scsi::lv:/dev/vgvm/rguest2

size=`lvdisplay /dev/vgvm/guest2 | grep 'LV Size' | awk '{print $4}'`

lvcreate -n guest3 -L $size vgvm

unset size

time dd if=/dev/vgvm/rguest2 of=/dev/vgvm/rguest3 bs=4096k

hpvmmodify -P guest3 -a disk:scsi::lv:/dev/vgvm/rguest3

Best is to use a template VM guest to clone from. But if you cloned from a production VM, you need to change the hostname and IP before the network starts. Start the VM in single user mode,

hpvmstart -P guest4

hpvmconsole guest4

^B

co

HP-UX Primary Boot

boot -is

cd /etc/rc.config.d

vi netconf

change,

IP\_ADDRESS[0]="172.17.200.7"

switch to init 3,

sync

init 3

Relocate a VM guest from vg00 to vgvm,

hpvmstop -P guest2

hpvmmodify -P guest2 -d disk:scsi::lv:/dev/vg00/rguest2

size=`lvdisplay /dev/vg00/guest2 | grep 'LV Size' | awk '{print $4}'`

lvcreate -n guest2 -L $size vgvm

unset size

time dd if=/dev/vg00/rguest2 of=/dev/vgvm/rguest2 bs=4094k

hpvmmodify -P guest2 -a disk:scsi::lv:/dev/vgvm/rguest2

hpvmstart -p guest2

# check the VM guest still works

lvremove /dev/vg00/guest2

Extend the size of an LV,

lvextend -L 30000 /dev/vgvm/guest2