

Setup_of_Windows_Server_2008_Guest_on_KVM

If you followed the setup of the KVM host at [KVM Setup on Debian Squeeze](#) you will notice that we are using libvirt to manage and control KVM. You should also have a Linux Virtual Machine setup using virt-install. This is required, as we are going to copy its libvirt xml config, edit it and then save it and create our own config for this Windows VM.

I place all ISOs on the KVM host at: /srv/os-images/ In the config below I add in the config to provide a boot menu allowing me to boot from the HD or CDROM at a later date (see:

[Provide Boot Menu options for VMs accessible using VNC](#))

```
lvcreate -n win01-vm --size 50g vg0
cd /etc/libvirt/qemu
cp lin01-vm.xml win01-vm.xml
vi win01-vm
```

When editing the copy of the xml config, we need to remove any UUID, MAC address and/or unique identifiers. The config below uses br1 bridge which is on a 192.168.1.1/255 range. I am not using virtio for the Windows VM (at this stage).

```
<domain type='kvm'>
  <name>win01-vm</name>
  <memory>524288</memory>
  <currentMemory>524288</currentMemory>
  <vcpu>1</vcpu>
  <os>
    <type arch='x86_64' machine='pc-0.12'>hvm</type>
    <boot dev='hd' />
    <boot dev='cdrom' />
    <bootmenu enable='yes' />
  </os>
  <features>
    <acpi />
    <apic />
    <pae />
  </features>
  <clock offset='utc' />
  <on_poweroff>destroy</on_poweroff>
  <on_reboot>restart</on_reboot>
  <on_crash>restart</on_crash>
  <devices>
    <emulator>/usr/bin/kvm</emulator>
    <disk type='block' device='disk'>
      <target dev='hda' bus='ide' />
      <source dev='/dev/vg0/win01-vm' />
    </disk>
    <disk type='file' device='cdrom'>
      <target dev='hdc' bus='ide' />
      <source file='/srv/os-images/en_windows_server_2008_r2_standard.iso' />
    </disk>
    <interface type='bridge'>
      <source bridge='br1' />
    </interface>
    <serial type='pty'>
      <target port='0' />
    </serial>
    <console type='pty'>
      <target type='serial' port='0' />
    </console>
    <input type='mouse' bus='ps2' />
    <graphics type='vnc' port='-1' autoport='yes' keymap='de' />
  </devices>
</domain>
```

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```
<video>
  <model type='cirrus' vram='9216' heads='1' />
</video>
</devices>
</domain>
```

Once the config is edited, we need to define it, look at the resulting completed config and then start the VM.

```
virsh define win01-vm.xml
vi win01-vm.xml
#You will notice extra uuid's and mac address added in.
virsh list --all
virsh start win01-vm
```

The vm will now start. Connect using VNC. You can right-click on the VNC window titlebar, send a CTRL+ALT+DELETE to reboot and then press F12 to see the boot bios.

Server 2008 Core Install

Note: a server core install of windows server 2008 is a minimal install of ~2-3gb with only a command line interface. You can download the installation guide at:

<http://www.microsoft.com/downloads/en/details.aspx?FamilyID=518d870c-fa3e-4f6a-97f5-acaf31de6dce&DisplayLang=en>
and read more info at: [http://technet.microsoft.com/en-us/library/cc753802\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc753802(WS.10).aspx)