

Virtual Machine Networking



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Virtual Networks

We have been working until now with VirtualBox and we have created additional Virtual Networks within that application. KVM virtualization is similar in that it can make use of Virtual Networks but these are managed through **Libvirt**.



Exam Objectives



- **Not specifically required for the exam, however it is essential that you understand Virtual Networks**



Demo



- Default network
- Using virsh to manage virtualization
- Removing the default virtual network
- Creating virtual networks
- Using brctl to display bridge connections





Where did virbr0 come from and why won't it go away



This is nothing to worry about. Libvirt has been installed by default. Let me show you.

Default Libvirt Network



Using the Command “virsh” to Manage Virtualization



Removing the Default Network



Creating Networks



Using brctl



Creating Virtual Networks

`virsh net-define`

`virsh net-autostart`

`brctl show`

`virsh net-start`

`virsh net-edit`

`brctl addbr`



XML File

```
<network>  
  <name>host-only</name>  
  <bridge name="virbr1" />  
  <ip address="192.168.100.56" netmask="255.255.255.0">  
    <dhcp>  
      <range start="192.168.100.100"end="192.168.100.100" />  
    </dhcp>  
  </ip>  
</network>
```



Next up: Installing KVM

