Create a VirtualBox virtual machine
   Use Ubuntu Server 10.04 32-bit
   128 MB of RAM
   Dynamically expanding 8GB hard drive (default)

Edit configuration of VM
   Add install CD under Storage
   Disable audio
   Leave Adapter 1 as NAT
   Adapter 2 should be internal network intnet
   Disable USB controller

Click start to boot
   Select "Install Ubuntu Server"
   Select eth0 as the primary network interface
   Select “Guided – use entire disk”, no need for LVM
   Don't encrypt your home directory
   Just hit enter when it asks about an HTTP proxy
   Choose to install the OpenSSH server
   Say yes to installing GRUB on MBR

Boot for the first time
   Do a “lshw –class network” and a “cat /etc/udev/rules.d/70-persistent-net.rules” to sanity-check
   Shutdown

Clone the VM
   setebos:/VirtualBox VMs/Ubuntu1> VBoxManage clonevdi Ubuntu1.vdi Ubuntu2.vdi
   Create a new VM with the same settings as the first (name and MAC addresses have to be different, of course)

Boot both VMs
   In both: sudo vim /etc/network/interfaces, see screencaps below
   In the second one you created (the clone) edit /etc/udev/rules.d/70-persistent-net.rules (your MAC addresses should match the interfaces you want, probably meaning that here you delete eth0 and eth1 and rename eth2 to eth0 and eth3 to eth1). Reboot.
   You should now be able to ssh from one machine to the other, if not ARP is the first place to start debugging (see the Linux session I posted on the course website)
cran@ubuntu1:~$ less /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
iface eth0 inet dhcp

# For the local network
auto eth1
iface eth1 inet static
address 192.168.44.2
netmask 255.255.255.0

/etc/network/interfaces (END)
cran@ubuntu2:~$ less /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
iface eth0 inet dhcp

# For the local network
auto eth1
iface eth1 inet static
address 192.168.44.3
netmask 255.255.255.0

/etc/network/interfaces (END)
### General
- Name: Ubuntu
- OS Type: Ubuntu

### System
- Base Memory: 128 MB
- Boot Order: Floppy, CD/DVD-ROM, Hard Disk
- Acceleration: VT-x/AMD-V, Nested Paging

### Display
- Video Memory: 12 MB
- Remote Desktop Server Port: 9999

### Storage
- IDE Controller
  - IDE Secondary Master (CD/DVD):
  - SATA Controller
  - SATA Port 0:
  - Ubuntu.wdi (Normal, 8.00 GB)

### Audio
- Disabled

### Network
- Adapter 1: Intel PRO/1000 MT Desktop (NAT)
- Adapter 2: Intel PRO/1000 MT Desktop (Internal network, 'inner')

### USB
- Disabled

### Shared Folders
- None

### Description
- None
<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: Ubuntu2</td>
<td>OS Type: Ubuntu</td>
</tr>
</tbody>
</table>

| **System**                                     |          |
| Acceleration: VT-x/AMD-V, Nested Paging        |          |

| **Display**                                    |          |
| Video Memory: 12 MB                            |          |
| Remote Desktop Server Port: 9998               |          |

| **Storage**                                    |          |
| IDE Controller                                 |          |
| IDE Secondary Master (CD/DVD): Empty           |          |
| SATA Controller                                |          |
| SATA Port 0: Ubuntu2.vdi (Normal, 8.00 GB)     |          |

| **Audio**                                      |          |
|                                                | Disabled |

| **Network**                                    |          |
| Adapter 1: Intel PRO/1000 MT Desktop (NAT)     |          |
| Adapter 2: Intel PRO/1000 MT Desktop (Internal network, 'intnet') | |

| **USB**                                        |          |
|                                                | Disabled |

| **Shared Folders**                             |          |
|                                                | None     |

| **Description**                                |          |
|                                                | None     |