

TP 1

Question 1

Step 1 : creating virtual machines

Importing debian.ova once

(reset MAC address + name it server)

Importing again debian.ova

(reset MAC address + name it client)

Step 2 : adding a network adapter to each virtual machine

1. Click on server
2. Click on settings
3. Click on network
4. Click on adapter 2
5. Click on enable network
6. Click on internal network
7. OK

Do it again for the client

Step 3 : configure a static ip address for our DHCP server

Boot server

Login : root Password : 1234

Edit /etc/network/interfaces

add these lines at the bottom :

```
auto eth1
iface eth1 inet static
    address 192.168.102.4
    netmask 255.255.255.0
```

And restart the network : /etc/init.d/networking restart

Step 4 : install isc-dhcp-server

On server :

```
apt-get install isc-dhcp-server
```

Step 5 : configuring the server

Edit /etc/default/isc-dhcp-server and add :

```
INTERFACES="eth1"
```

Then edit /etc/dhcp/dhcpd.conf and add a subnet :

```
subnet 192.168.102.0 netmask 255.255.255.0 {
    range 192.168.102.10 192.168.102.254;
}
```

Restart the DHCP server `/etc/init.d/isc-dhcp-server restart`

Step 6 : configure the client to demand an IP on the private network

Edit `/etc/network/interfaces` on the client and add these lines :

```
auto eth1
iface eth1 inet dhcp
```

And restart the network : `/etc/init.d/networking restart`

Step 7 verifying that it works

On the client : `ifconfig` should return an address in the range configured on the server.

On the server `/var/lib/dhcp/dhcpd.leases` should contain your client lease.