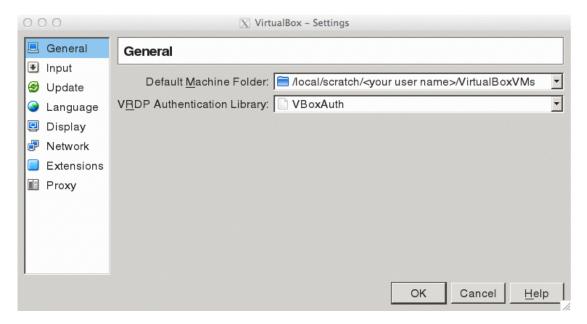
NWEN302 Lab4: Software Defined Networking Importing the Virtual Box Appliance file (ova)

(1) Start Virtual Box

\$ VirtualBox &

(2) Configure where the appliance files will be saved

Select the File->Preferences menu and choose a suitable location on the local machine for "Default Machine Location" – replace <your user name> with your ECS user name.

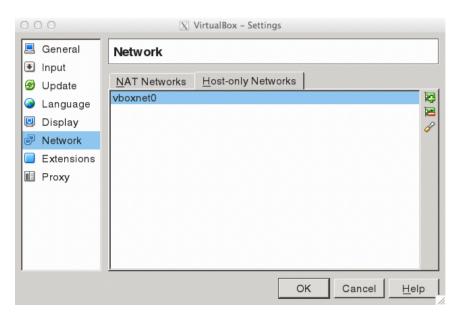


NOTE:

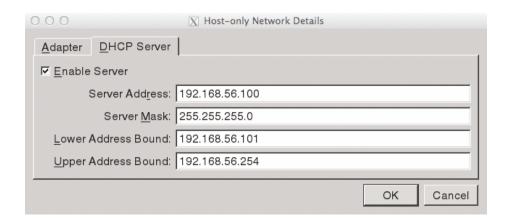
On the ECS lab machines, "Default Machine Folder" must be located beneath /local/scratch as shown above. Student network file store accounts do not have sufficient capacity to save the appliance, as it needs more than 2GB of space.

If saving on a personal machine, you can obviously choose any directory you like.

(3) Ensure the Host Only Network "vnboxnet0" exists and has the correct configuration:



000	Host-only Network Details
Adapter DHCP Server	
<u>I</u> Pv4 Address:	192.168.56.1
IPv4 Network <u>M</u> ask:	255.255.255.0
I <u>P</u> v6 Address:	
IPv6 Network Mask <u>L</u> ength:	0
	OK Cancel



(4) Import the appliance:

Select the File->Import Appliance menu and import it from:

/vol/courses/nwen302/2017/nwen302-lab4.ova

NOTE: If you are not running on an ECS lab machine, you can download the appliance export from the same location:

```
$ scp <ecs-userid>@paramount.ecs.vuw.ac.nz:/vol/courses/nwen302/2017/nwen302-lab4.ova ./
```

replace <ecs-userid> with your ECS user name.

(5) Start the appliance

Notice that there is no GUI, just a login prompt. You *can* login here, but it's better to connect from the host via SSH.

(6) Login to the appliance from the host machine.

```
$ ssh nwen302@192.168.56.101
```

Password is "nwen302".

(7) Optional septs

(A)

Use **screen** to make your work easier. Screen is a full-screen window manager that multiplexes a physical terminal between several processes, typically interactive shells. The full documentation can be found here: https://www.gnu.org/software/screen/

Important screen key bindings

To start screen you type:

\$ screen

In screen, all commands are preceded by ^a, i.e (CTRL+a)

To create a new window press

CTRL+a followed by pressing c (CTRL+a - c)

To switch to the previous window press

CTRL+a - p

To switch to the next window press

CTRL+a - n

To exit the current window enter

\$ exit

To detach screen from the terminal press

CTRL+a - d

Detached screen can be resumed by

\$ screen -r

NOTE: if you shut down your VM, the screen session will be terminated, i.e. resuming screen won't work anymore

(B)

Create a SAMBA link to the appliances file system in Dolphin: Right click on the background and select "Add Entry..."



Enter the SAMBA address of the appliance:

