

WENTWORTH INSTITUTE OF TECHNOLOGY

College of Engineering and Technology
Department of Electrical Engineering and Technology

Operating Systems
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Lab 1- notes

Okay, the VirtualBox is not the most friendly, but hopefully once we get past these hurdles, everything will go smoothly thereafter!

Below are some useful hints:

1. First is how to get the virtual machine to occupy the full screen, which as we all realized, requires installing “guest additions”:

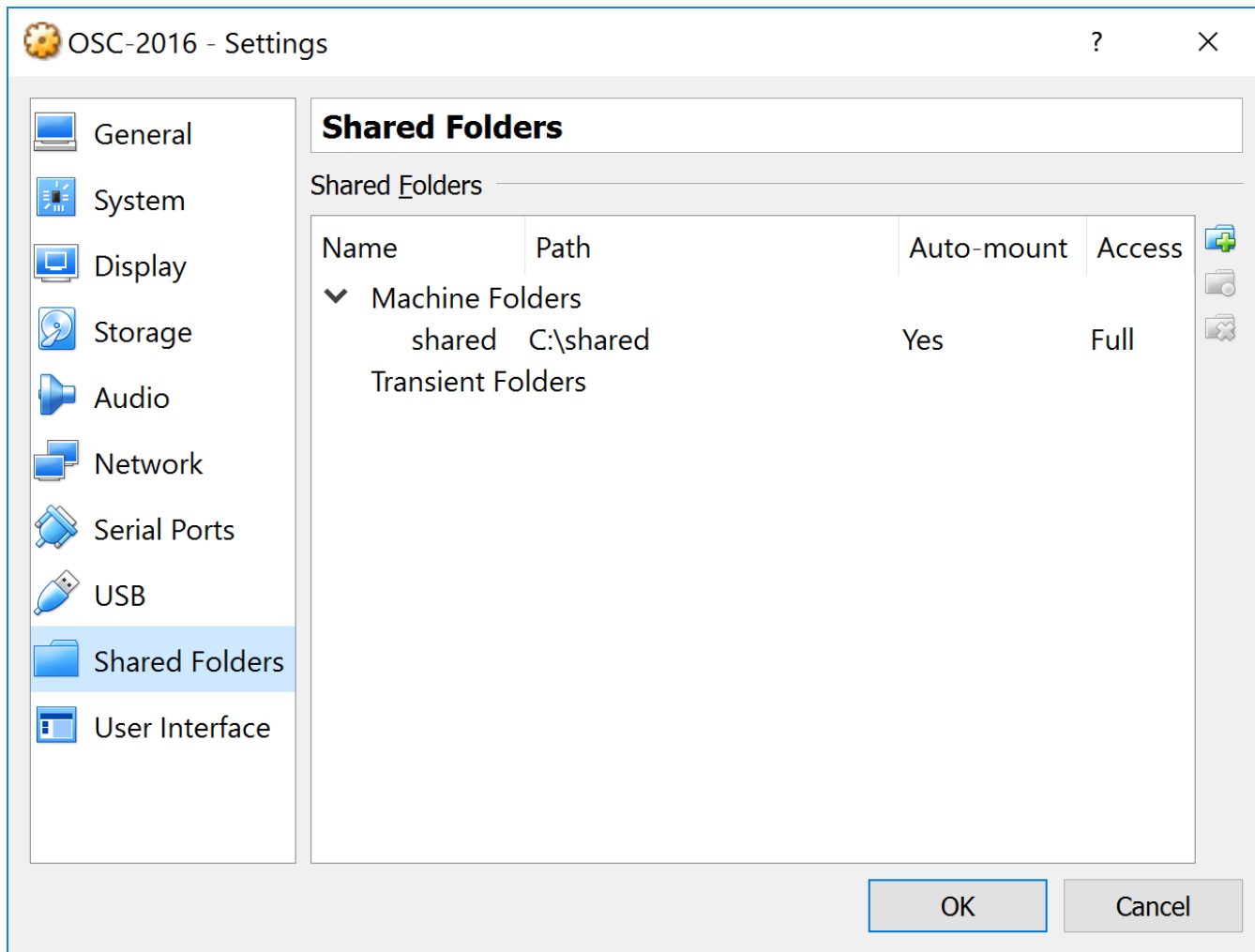
As one of the your colleagues have found, the link below nicely details how to install the guest additions (and fix the permission issues when trying to run from the mounted directory)

<https://forums.virtualbox.org/viewtopic.php?f=3&t=58799>

and also another link may be useful if you have issues using the maximum size of your screen (this is an issue which I did not encounter)

<https://superuser.com/questions/495670/make-virtualbox-use-full-screen-size-in-windows-8/495684#495684>

2. You can now enable the shared clipboard by using your virtual machine’s Devices/Shared Clipboard menu item and then enabling it bidirectionally.
3. To create and use a shared folder, follow the following steps:
 - a. Edit the settings of your virtual machine (using Devices/Shared Folders menu item) by adding a shared folder and giving it a name (“shared” in my case)



- b. Go to your virtual machine and create a new directory (lab1_shared in my case) and then mount the new file system by the executing the following command from your terminal: Note that you need to use the same name created in windows (if you don't, you get an error message "protocol error" – which doesn't really give much guidance btw).

```
oscreader@OSC:~$ sudo mount -t vboxsf -o uid=$UID,gid=$(id -g) shared
/home/oscreader/lab1_shared
```

You can then use this shared folder to pass files back and forth. It will appear at the mount point /home/osreader/lab1_shared.

Of course you may unmount that shared filesystem if you wish by typing

```
oscreader@OSC:~$ sudo umount lab1_shared
```