Lab Manual

Operating Systems

Lecturers: Padraig Moran, Jacqueline Humphries

# Week 1

The main topic in this week’s lab work was installing Ubuntu on the desktops in B220, in groups and singularly. After dealing with networking issues with the computers, I downloaded the latest LTS (16.04.03) Ubuntu ISO from their official site. I opened the Oracle VirtualBox hypervisor and set the ram to 512mb and storage to 8gb as per the instructions. I then went through installing the Ubuntu OS onto the virtual machine, attaching the ISO to the hard drive through the settings.

During installation, there came an error where the minimum size required was 8.06gb to install. A little strange since I had set it to dynamically allocate the storage, but I’m guessing that the dynamic storage can’t be accessed during installation over ‘the whole disk’. As such I shut down the Virtual Machine. I wasn’t sure about changing the hard drive allocation, so I deleted the Machine itself and recreated with 10gb of Storage Space.

During the second installation, I chose to apply updates later, to speed up the process, knowing that I could do the updates once the OS had been installed. The rest of the installation went fine. After the OS had been installed, I installed the Guest Additions without any errors. I restarted the machine from Ubuntu, however, it seemed that the effects hadn’t taken effect as the Seamless View of the machine wasn’t in effect. I shut down the machine altogether and started it back up, this worked for me. After the Lab was complete, I went around to help others.

I decided to change the ram allocation to 2gb (2048mb) instead of 512mb as the response time seemed a little too slow, and this did indeed help.

Personally, this is not a new concept to me, I’ve spent a lot of time dealing with the VirtualBox hypervisor in the past, and even more experience with the Ubuntu OS itself and all of it’s quirky nuances.