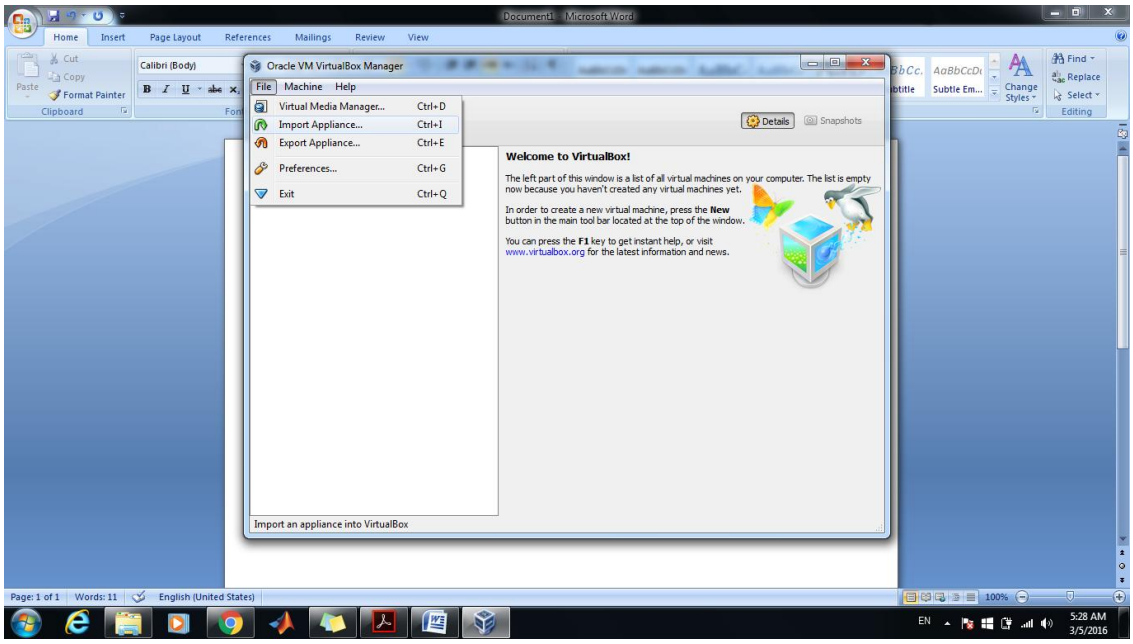
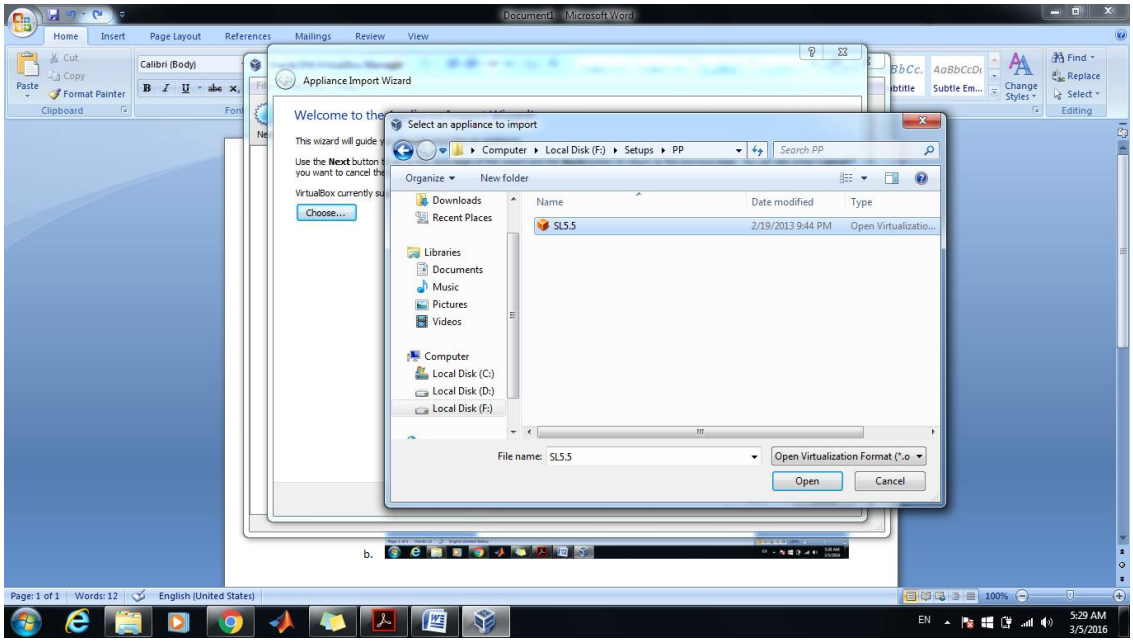
CS471: Parallel Processing [2015-2016]
Lab3 – Installation steps

Part I - Installation steps:

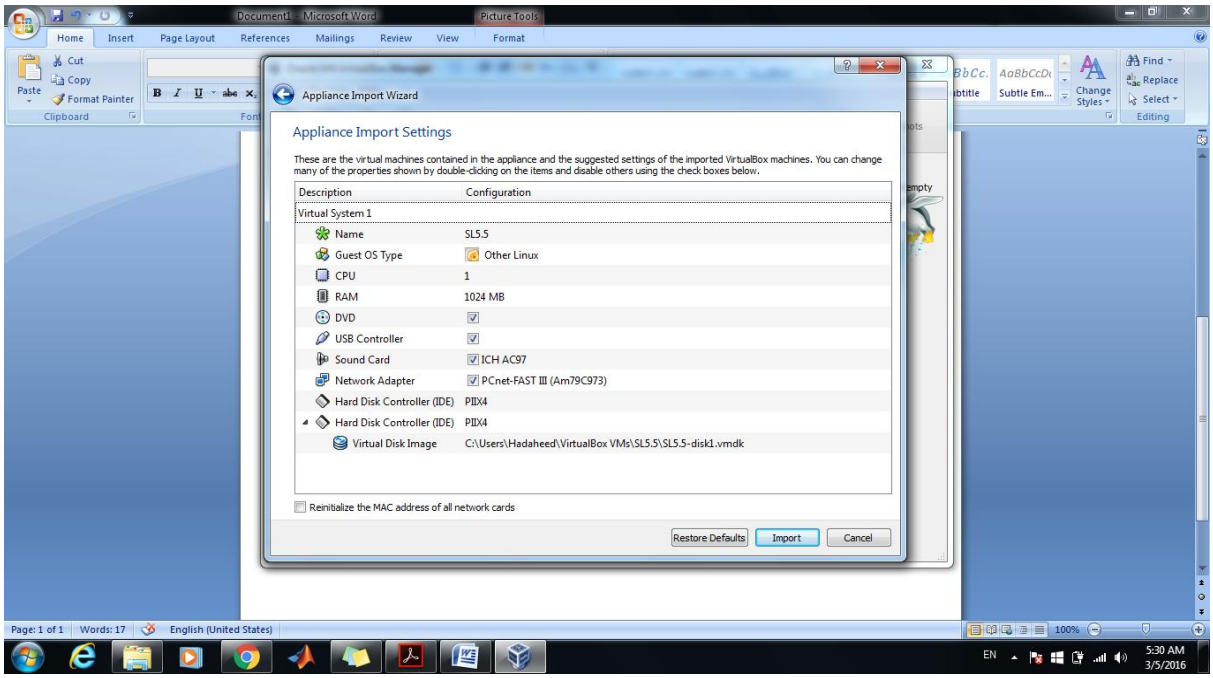
1. **Install virtual box**
2. **Import appliance:**



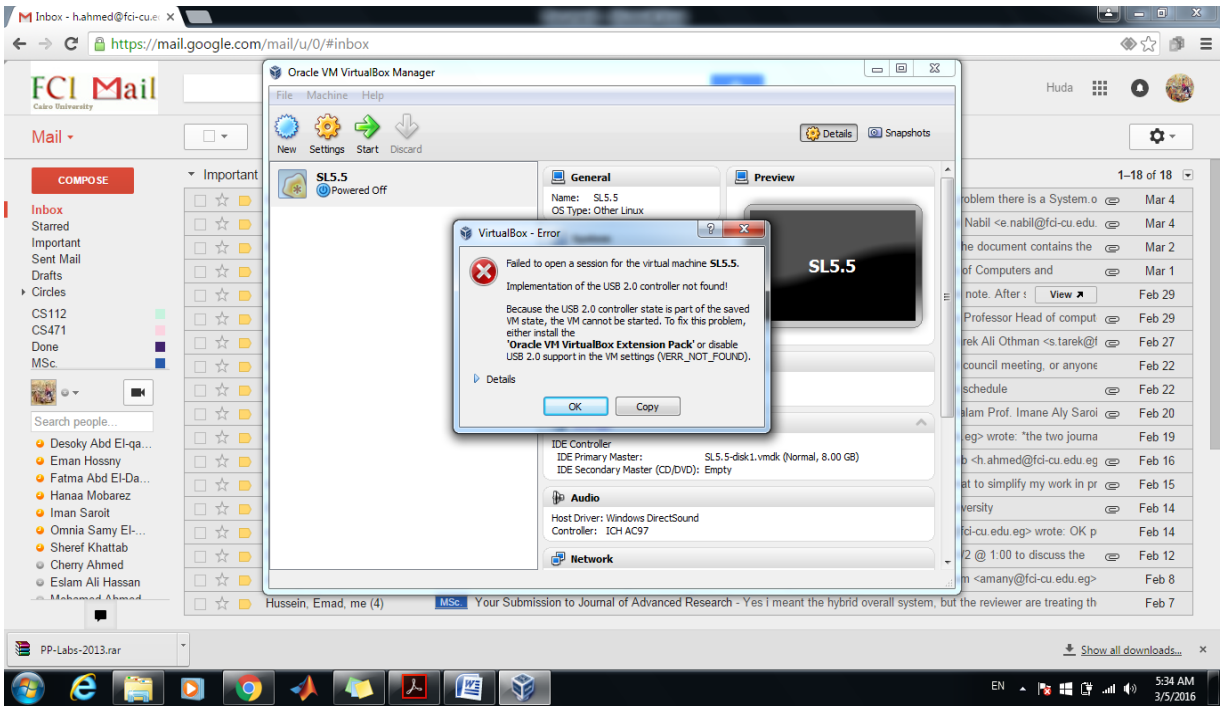
3. **Choose the scientific linux icon:**



4. **Press import:**

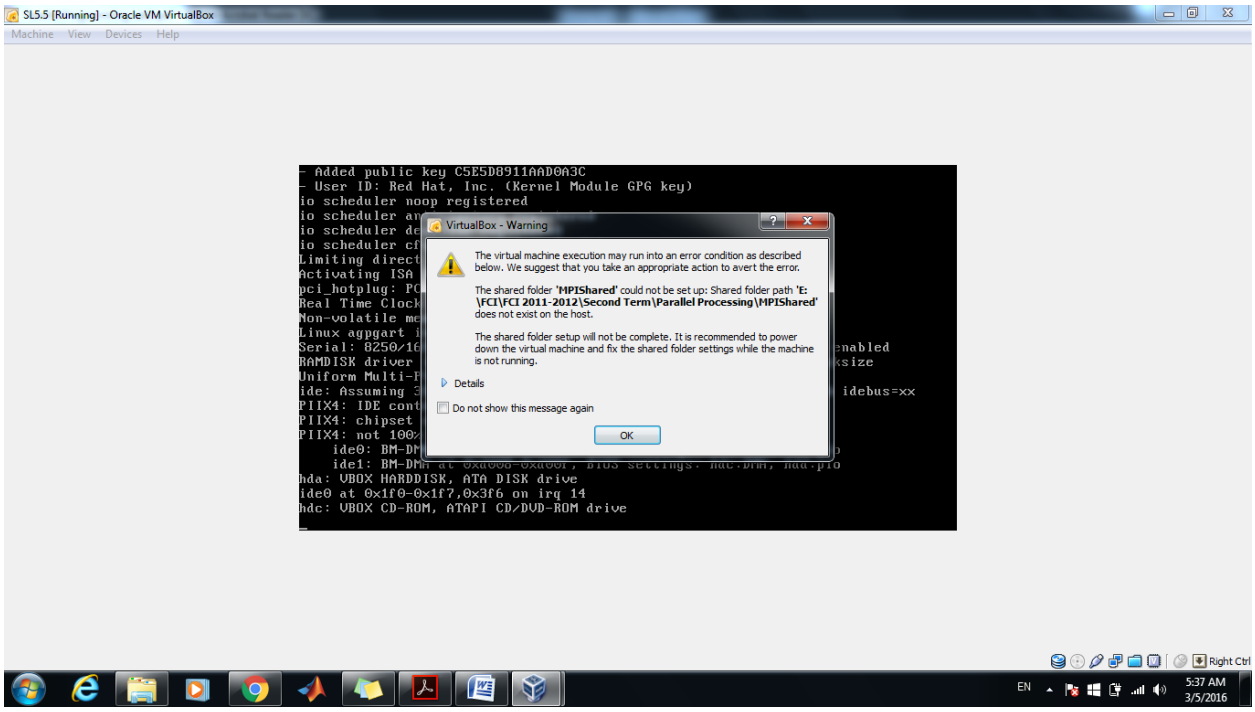


5. **When trying to start the scientific linux over the VM, this message will appear:**

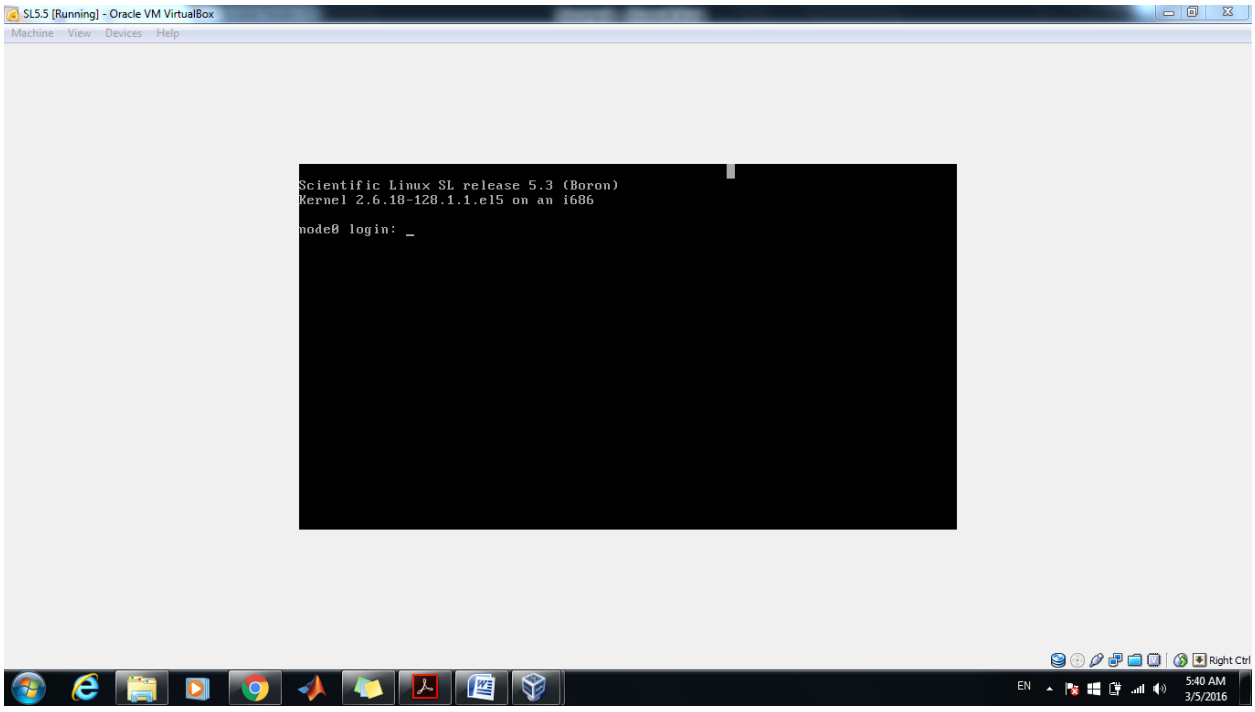


[To solve this problem, install the virtual box extension in the folder given to you by the TA]

6. **After installing the extension, start the scientific linux again, a warning will appear as in the following window, so just press ok.**

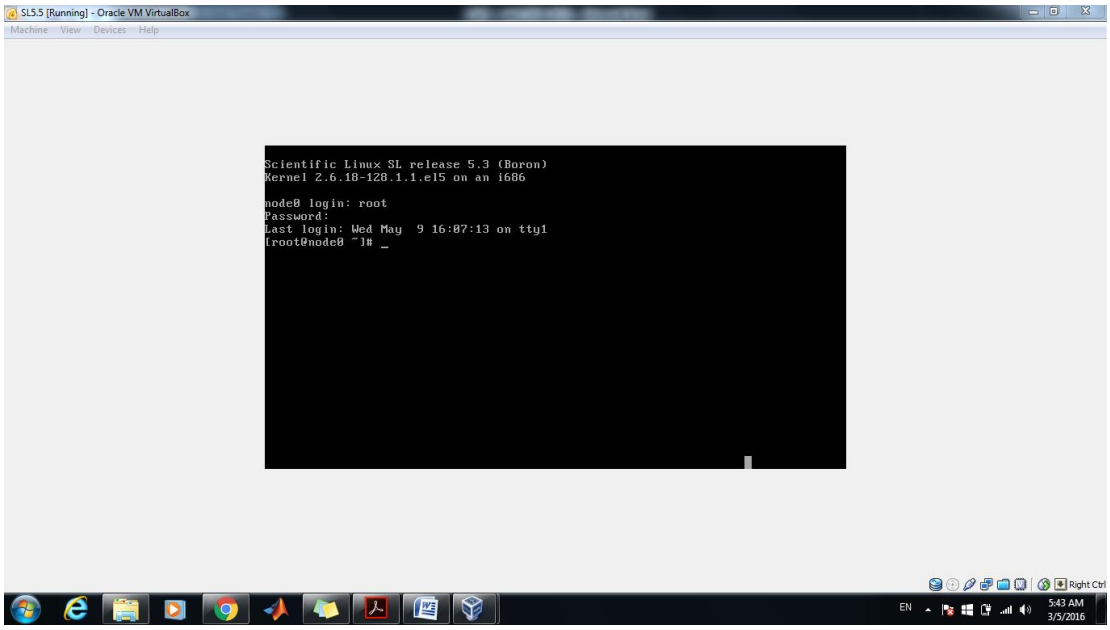


7. **All of the students should arrive to this point after the last step:**



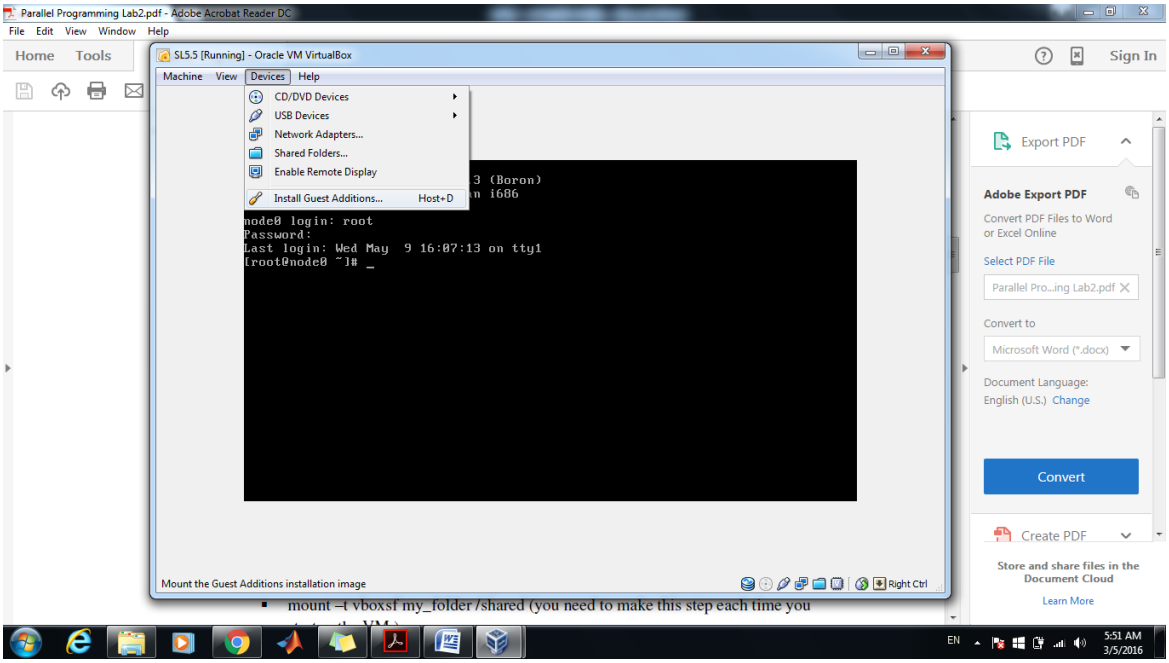
8. **Login by these credentials:**

   Username: root
   Password: Hpc@fc1

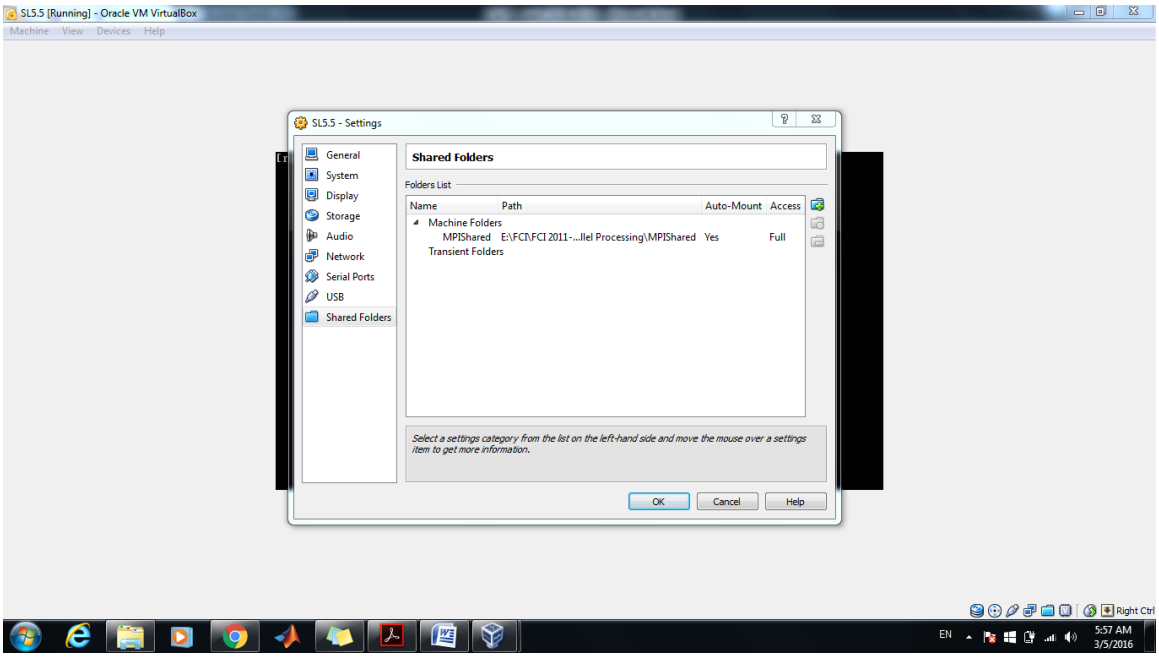


Part II - Sharing files between the host (Your OS) and the Guest (Linux):

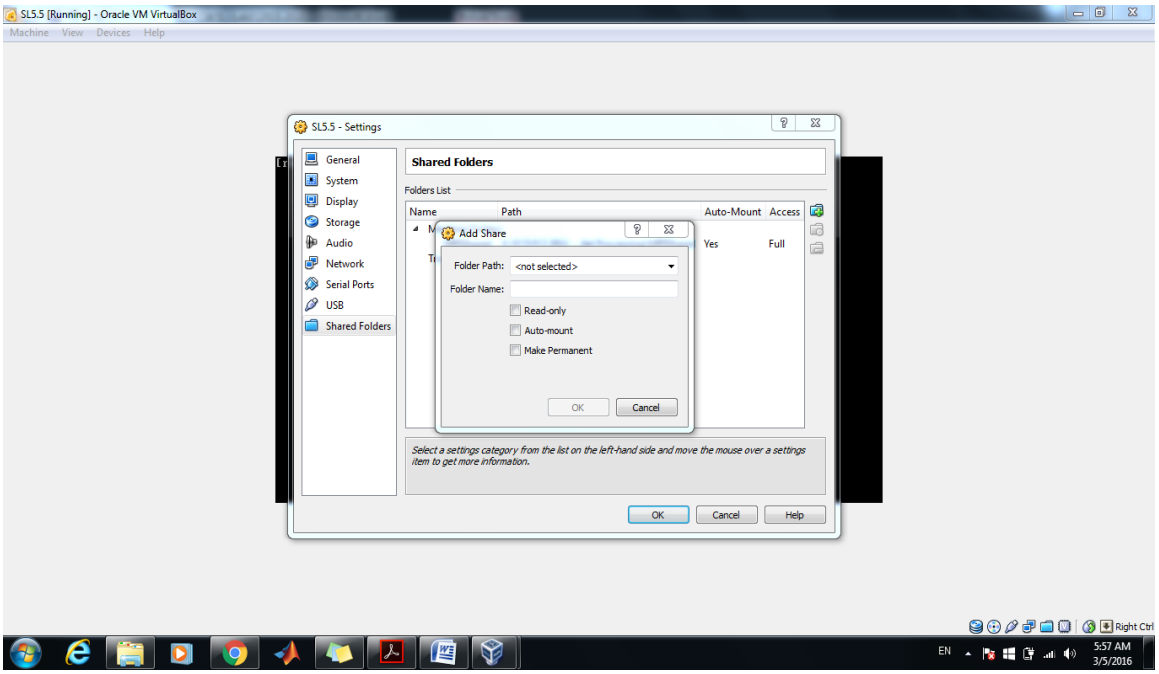
1. Click on install guest additions



2. **Devices -> shared folders:**

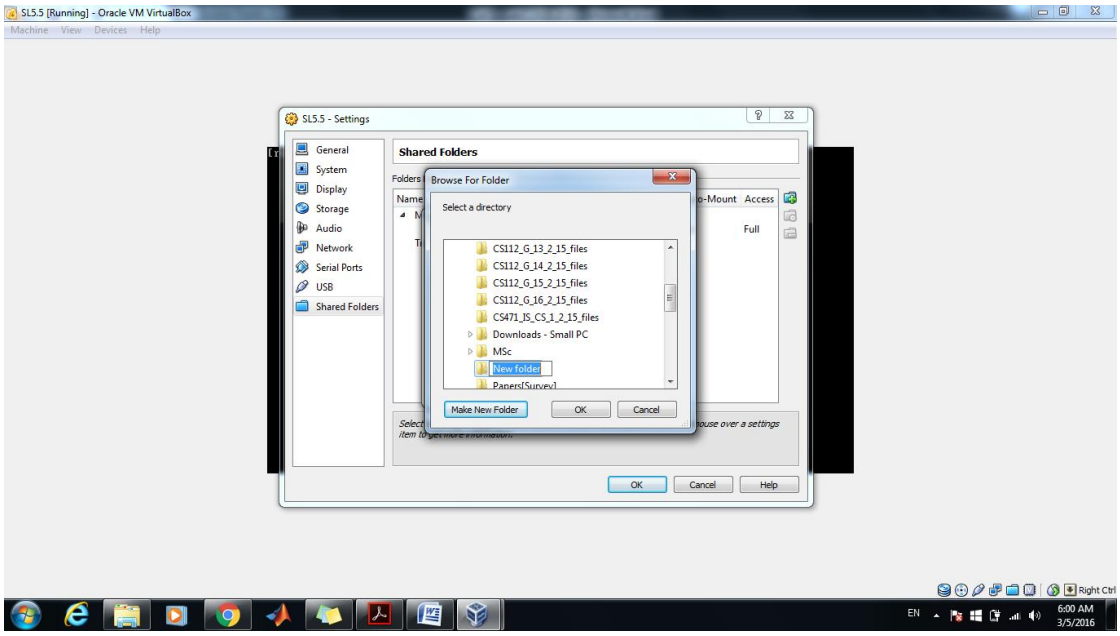


3. **Add shared folder:**

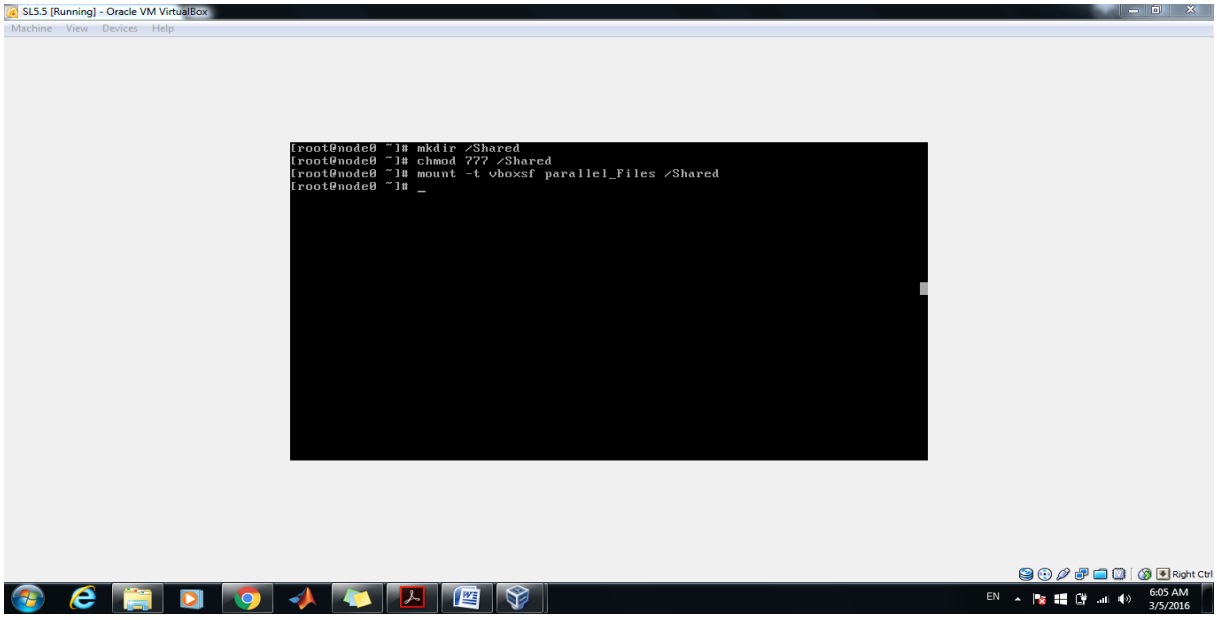


Name it and check [Auto-mount, Make permanent] check-boxes.

4. **After you name the file, click ok.**



5. **Run the following commands:**
    a. **mkdir /shared**
    b. **chmod 777 /shared**
    c. **mount –t vboxsf [The name of the shared folder] /shared**



Step [c. mount –t vboxsf [The name of the shared folder] /shared] should be done everytime you start the machine.

Part III - Files on the Virtual machines

1. **Creation, opening, writing and saving:**
   - vim filename --> create or open filename
   - press i --> to start writing in the file
   - press Esc then:
     - q! --> quit without saving
     - wq --> write and quit
     - w --> write

Example: Writing, compiling, and running a C program on Linux

- vim testprog.c
- gcc –o out testprog.c --> compile and produce the executable "out" from "testprog.c" [it may not compile because of an error you must correct it and compile again]
- ./out --> to run the program