CSCI/CMPE 4345

LAB ASSIGNMENT 1

Install Virtual Machine

Due: Saturday, Sept 2, 2017

**A note to my students: Computer networking is quite different than most of the courses you have taken. There are many ways to accomplish a task. I do not teach you the steps needed to get something done. My instructions to you may look sparse; please be assured it is intentional. That is the only way you are going to learn networking. You probably will have to do lots of attempts before getting intended result. Do not get frustrated. I get many positive comments from students who completed the course successfully. Several of them have landed good jobs in the area of network administration.**

**For all assignments, please submit in one word document with all screen captures pasted on to it with comments for each screen capture.**

Lab Assignment 1:

Please research virtualization software provided by: VMware, Microsoft, Oracle (Sun) VirtualBox and Citrix xenServer. You need to choose one most suitable for your hardware configuration. I have installed VirtualBox on my machines in my office and home. Technical support on these products can be obtained from user groups.

Download and install the virtualization software you selected and create a virtual machine and install Linux (any flavor). Check the following configuration on both the host machine and the virtual machine (Ethernet adapter and Virtual Ethernet adapter). Create an email server on your Linux machine.

Example: Host Virtual (my virtual adapter is in bridged mode

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|  Physical Address: D4-3D-7E-7D-6D-F0 DHCP Enabled. . . . . . . . . . . : Yes IPv4 Address. . 129.113.130.173 Subnet Mask . . . . . . . . . . . : 255.255.255.0 Lease Obtained. Friday, August 22, 2014 2:10:14 PM Lease Expires . Thursday, August 28, 2014 2:10:15 PM Default Gateway . . . . . . . . . : 129.113.130.1 DHCP Server . . . . . . . . . . . : 129.113.38.36 DNS Servers . . . . . . . . . . . : 129.113.38.34 129.113.38.36 | Physical Address. . . . . . . . . : 08-00-27-00-3C-3D DHCP Enabled. . . . . . . . . . . : No IPv4 Address. 192.168.56.1 Subnet Mask . . . . . . . . . . . : 255.255.255.0 Default Gateway . . . . . . . . . :  |

What to submit: (All assignments should be submitted in a manila folder) **PREFERRED:** SUBMIT THROUGH BLACKBOARD

1.A summary of your research findings (maximum 1 page)

2.Which software did you choose? Reason (maximum ½ a page)

3. Describe how you set up the email server, were you able to send and receive emails? (send screen captures)

4. Screen capture of following command executions in Linux: ifconfig, cp, ls, mv,pwd

**FOR NEXT WEEK: PLEASE DOWNLOAD WINDOWS SERVER (Any version). MAKE SURE YOU HAVE OBTAINED LICENSE. MAKE A BOOTABLE CD.**