Project is due at 18:00 on Wednesday 3rd December 2014.

As a systems administrator you have been asked to implement the following Internet & Network services using Ubuntu for a company called KhufuNet (or available domain name of your choice).

1. Web Server (Apache) with Virtual Hosting two sites.
2. DNS Server (BIND), Primary(Master) & Secondary(Slave)
3. DHCP Server for Ubuntu clients
4. SSH Server
5. eMail Server (Postfix) & POP/IMAP Server (Dovecot)
6. FTP Server
7. NFS
8. Network Printing (CUPS)

The domain name KhufuNet.com has already been registered. Apache will host www.KhufuNet.com and a WordPress instance; blog.KhufuNet.com

Other issues that you will need to address include but are not limited to:

- User & Groups
- Security
- Ease of administration

Lab Topology
The lab topology is made up of two PCs running VMware in "Bridged Mode" and connected via a hub. The virtual machines are specified as follows:

- VM1 – Ubuntu desktop (DHCP client)
- VM2 – Apache Server/Name Server 1(Primary)/Print Server/NFS /SSH Server
- VM3 – eMail Server/Name Server 2(Secondary)/DHCP Server /FTP Server/SSH Server
- VM4 – Ubuntu desktop (DHCP client)
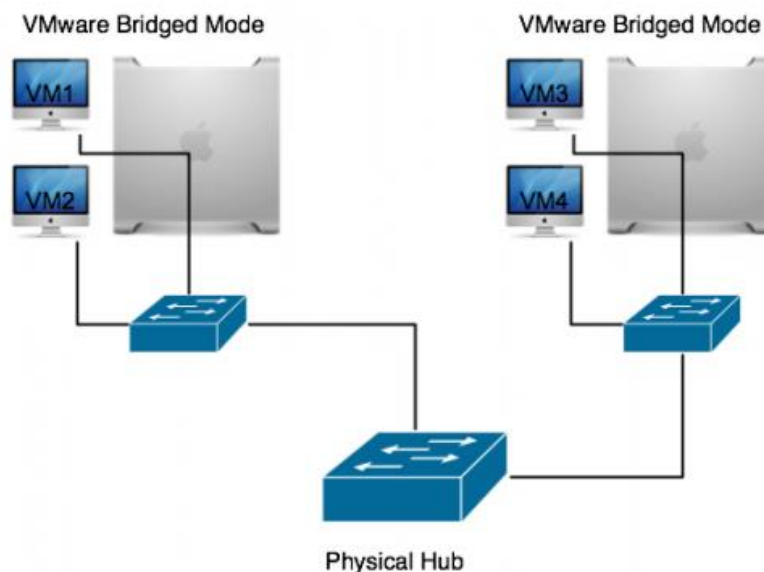
A single final report and a practical demonstration are required from each student. The final report should be readable by someone who has little or no experience in this area.

The assignment will be marked as follows:

Practical Demonstration (15)

Demonstration of a fully working system is required and you will be expected to demonstrate full knowledge of the operation of your solution.

Final Report (25)

A final report is required and the following will be assessed:

- **Quality of Report (10)**
  Quality and clarity of your report, presentation, layout, links, spelling, grammar, punctuation, use of appropriate graphics/media and references.
- **Customisation & Integration of Solution (10)**
  The degree of customisation and value added by you. How have you excelled in the delivery of your solution? What value have you added to the basic requirements as set out above?
- **Summary & Conclusion (5)**
  In depth analysis of project, what you have learned, what you would do differently if you were to start again, etc. This section should also be included in your Report under a section titled "Final Report – Summary & Conclusions"