

CS 451

Class Activity 2

Name(s):

- ❖ Assume that your client is a small company which has a head quarter (HQ) in one office and has around 10 employees who will remotely work by accessing the servers at the HQ. Design a remotely accessible small office network including three servers (workstations), a firewall device, and a switch with **\$10,000 budget** and **\$20,000 budget, respectively**. The remotely accessible small office network needs to be able to support at least ten VPN (virtual private network) connections between a remote employee and the HQ. Thus, your design must include a software license to support the VPN connections as well as the hardware diagram (i.e., a topology diagram which shows types of devices and links between the devices connected to the Internet).
- ❖ Note that the budget must include Internet service with a reasonable speed for one year and network facilities such as cables.
- ❖ Note that, if you want to include a cloud service in your design, you may modify the requirements as long as you can offer the same or similar features in the aforementioned description.

Score:

Class Activity 2 (25 points)

Note:

You will give a 10-minute presentation.

You don't need to dress up for the presentation.

What to submit:

- (1) Technical Report (2-3 pages) with detailed hardware and software specifications and your justification
 - ➔ Submit this report to **the Assignments submission folder named "Class Activity 2"**
- (2) Power point slide
 - ➔ Submit this power point slide to **the Assignments submission folder named "Class Activity 2"**

How to submit:

The Assignments submission folder in D2L by the deadline.