Lab Report for Mission 3 and Mission 4

<div align="right">Version 1.0</div>

You should consider this report as a technical document to your peers and sub-ordinates; and a progress report to your supervisor.

In this document, you should

1. Describe the technical information of your DNS servers:
   a. Describe the procedures to set up your master and slave servers.

   b. Briefly describe how your master and slave DNS servers work together

   c. Explain each lines of your setting in the configuration files that you have modified. That is, describe the meaning of your setting in these files line by line.

   d. Describe the methods and procedures that you test and debug your DNS servers

2. Describe the technical information of your mail server.
   a. Describe the procedures to set up your mail server.

   b. Briefly describe how your DNS server interacts with your mail server.

   c. Explain the setting that you have modified in your mail server. Only the part you have modified. No need to explain all the setting line by line.

   d. Describe the methods and procedures that you test and debug your mail server.

3. Explain the settings of your router access list
   a. Describe the procedures to set up your router access list

   b. Explain line by line how the setting of your router access list can match the specification stated in mission 3 task 3 section.

   c. Describe the methods and procedures that you validate and debug your router access list.

4. Explain the setting of your firewall
   a. Describe the procedures to set up your firewall so as to let the hosts in your internal network can reach the hosts in DMZ

   b. Explain the setting of your firewall line by line.

   c. Describe the methods and procedures that you test and debug your firewall.

5. Describe the technical information of your CA server
   a. Describe the procedures to create keys and sign certifications.

   b. Describe the identify and its functionality of each file you have created

6. Describe the technical information of your SSL Web Server
   a. Describe the procedures to set up your SSL Web server.

   b. Briefly describe how the keys and certifications generated in your CA servers are used in your SSL web server.

   c. Describe the methods and procedures that your test and debug your SSL Web Server

7. Write an executive summary, not more that half page, to report what you have done so far to your supervisor: what you have achieved so far and any difficulties you encountered.

For points 1 to 6, you may quote some references to support your explanations.