Project - Linux Web Server

Wednesday, December 13, 2023   1:46 PM

1. **Software Deployment course assessment**
   - Homework 10%
   - Class Participate 10%
   - Project 80%
     - Deploy on Firebase - 30%
     - Deploy on local Linux Server - 50%

2. **Project procedure**
   - Kick off meeting date: *22nd Dec 2023*
   - Project Deadline : *31st Dec 2023*
   - Working in group of **5 people**
   - Location: A22
   - Material per group:
     - 1 Desktop + 1 Monitor + Cables

3. **Project Requirements**
   - Install **Ubuntu Server 22.04 (CLI)** on a real desktop
     - Create your own USB flash boot for installing Ubuntu on server
     - Username : group-name (Ex. Group-A1)
     - Password: @Linux2024
     - Hostname: group-nameHosting (Ex. A1Hosting)

   - Configure server to access to Internet
     - Use command line to show IP address on Linux server
     - Ping to google.com or 8.8.8.8 to check connection to Internet

   - Configure your server to allow remote **SSH** connection on it
     - Using software (Putty, MobaXterm...) to remote to your server
     - Remote SSH using password authentication not key authentication

   - Install and configure **Apache web server**
     - Install other dependencies packages (PHP, Database, …)
     - Login to your database server, and create a database from WordPress

- ○ Hosting **WordPress** on Apache
    - ▪ Download the latest WordPress to your server
    - ▪ Start hosting WordPress on your Apache Web Server

- ○ Make sure people that using PNC network be able to access WordPress using the private IP address.

- ○ **Extra tasks**
    - ▪ Login to WordPress, and then custom website on WordPress
    - ▪ Access to website on WordPress on browser
    - ▪ Configure Self-signed certificate and **HTTPS** on Apache

4. **Project Assessment**
    a. Complete task following requirements
        - ▪ Setup Ubuntu Server - 20%
            - ☐ Flash Boot
            - ☐ Understand how to setup Linux on real machine

        - ▪ Enable SSH remote 20%
            - ☐ Be able to check Internet connection on server
            - ☐ Understand how SSH remote work
            - ☐ Be able to allow SSH remote

        - ▪ Install Apache + PHP + Database 20%
            - ☐ Install packages and dependencies
            - ☐ Be able to checking and verify the installed packages
            - ☐ Be able to login to MySQL and create database

        - ▪ Hosting WordPress 40%
            - ☐ Download the latest version of wordpress
            - ☐ Move wordPress to hosting directory /var/www/html
            - ☐ Connect database to wordpress
            - ☐ Be able to access wordpress on web browser