

IT 4423 Unix/Linux Admin StudyGuide

Module 1: Introduction and Getting Started

OVERVIEW AND LEARNING OUTCOMES

1. Know the difference between Unix and Linux, and different distributions of Linux.
2. Discuss open source and freesoftware.
3. Install a Linux virtual machine (be able to install various versions and flavors of Linux).
4. Get familiar with the two basic type of user interfaces for Linux: GUI and command line
 - a. Know the basic GUI elements and operations
 - b. Know the basic use of terminal and command line commands
5. Explain the X-Window system and its components.

INSTRUCTION

1. Round 1 Study
 - a. Read (reading list) 1a, 1b, 1c.
 - b. Quickly go through the lecture notes to preview the module content.
 - c. Complete the quiz for the first attempt.
2. Round 2 Study
 - a. Complete lab 1a and 1b. Compile all required screenshots in the labs in **one PDF file** and submit it in D2L. **All screens must be original and show the complete computer screen - no graphic editing or cropping is allowed.** Clearly name and label all screenshots. Please discuss it in the discussion board if you have questions.
 - b. Finish (reading list) 1d and try to follow it.
 - c. Share your own understanding for the discussion questions (in class or online).
 - d. Complete the quiz for the second attempt if necessary.
 - e. Review the lecture notes to see if you have anything missed.

READING LIST

1. Required readings
 - a. Unix turns 50: <https://arstechnica.com/gadgets/2019/08/unix-at-50-it-starts-with-a-mainframe-a-gator-and-three-dedicated-researchers/>
 - b. <https://www.geeksforgeeks.org/linux-vs-unix/>
 - c. <https://techcrunch.com/2008/03/24/arent-unix-and-linux-the-same-thing-yes-and-no/>
2. Lecture notes: linux-intro powerpoint slides
3. Additional readings and resources
 - a. [Install Ubuntu Server GUI](#)
 - b. [How to Install GUI on Ubuntu 12.04 \(Precise\) Server](#)
 - c. [Selecting a Linux Distribution](#)

TASK LIST

1. Research and discuss:
 - a. Is Linux Unix? Why?
 - b. What are the advantages and disadvantages of the GUI and command line interface? Which one (name a specific system if GUI) would you like to use?
2. Lab:
 - a. Lab-1a.pdf: download and install Linux (preferably on VMWare Workstation Player).
 - b. Lab-1b.pdf: get familiar with the basic interfaces.
3. Assessment: D2L quiz #1.