

IT 4423 UNIX/LINUX ADMIN STUDY GUIDE

MODULE 6: PROCESS MANAGEMENT

MODULE LEARNING OUTCOMES

Upon the completion of this module, students should be able to

1. Explain the difference of program, process, service, and job
2. Use tools to monitor and control processes and services
3. Practice control jobs for multi-tasking
4. User key commands
 - a. ps, pstree, top, jobs, pgrep
 - b. fg, bg, kill, sleep
 - c. &
 - d. service
 - e. ctrl-c, ctrl-z
5. Describe shell configuration files: .profile, .bashrc

INSTRUCTION

1. Round 1 Study (2 to 4 hours)
 - a. Read the process ppt, and follow the examples in it.
 - b. Watch the videos included in the section.
 - c. Complete the quiz for the first attempt.
2. Round 2 Study (4 to 6 hours)
 - a. Complete lab 6. Refer to the lecture notes and answers whenever needed. Compile all required screenshots in the labs in **one PDF file** and submit it in D2L. **All screenshots must be original and show the complete computer screen - no graphic editing or cropping is allowed.** It may take you more than 10 hours!
 - b. Please discuss in the D2L forum if you have questions for the lab and quiz.
 - c. Complete the quiz for the second attempt if necessary.
 - d. Review the lecture notes to see if you have anything missed.

READING LIST

1. Required readings
 - a. LinuxCommand.org The section on Job Control
2. Additional readings and resources
 - a. [The ps Command](#)
 - b. [Unix Process](#)
 - c. [30 Linux Monitoring Tools](#)
 - d. [15 Practical Linux Top Command Examples](#)

TASK LIST

1. Lab: "lab-6.pdf".

2. Assessment: complete the online quiz #6. Please discuss it in the discussion board if you have questions.