

IT 4423 UNIX/LINUX ADMIN STUDY GUIDE

MODULE 3: SHELL ENVIRONMENT

OVERVIEW AND LEARNING OUTCOMES

1. Describe common types of shells and shell features
2. Use common shell commands and command line scripting basics
 - a. Input/output channels and commands
 - b. Shell built-in, alias
 - c. Search path
 - d. Piping
 - e. Shell variables and data types

INSTRUCTION

1. Round 1 Study (3 to 4 hours)
 - a. Read (reading list) 1, and follow the examples in it.
 - b. Quickly go through the lecture notes to preview the module content.
 - c. Complete the quiz for the first attempt.
2. Round 2 Study (3 to 5 hours)
 - a. Complete lab 3. Refer to the slides whenever needed. 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. Clearly place your name, the class name, the module lab and date at the top of your paper.
 - 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.
 - e. Complete assignment #1.

READING LIST

1. Required readings
 - a. [An Introduction to the Linux Command Shell for Beginners](#)
2. Lecture notes "shell.pdf"
3. Additional readings and resources
 - a. [LINUX/UNIX Redirection Operators \(File Descriptors\) Explained with Examples](#)
 - b. [Introduction to Linux Command-Line for Beginners](#)
 - c. [15 Useful Bash Shell Built-in Commands \(with Examples\)](#)

TASK LIST

1. Research and discuss:
 - a. Is there a shell used in Windows?
2. Lab: follow "Lab-3.pdf"
3. Assessment: D2L quiz #3.