

IT 4423 UNIX/LINUX ADMIN STUDY GUIDE

MODULE 4: BASH SCRIPTING

MODULE LEARNING OUTCOMES

Upon completion of this module, students should be able to

1. Develop and execute Bash script files
2. Write scripts using the basic bash script language elements
 - a. Variables
 - b. Operators
 - c. Control flow statements
 - d. Functions
3. Write basic scripts for:
 - a. Text and number processing
 - b. File processing

INSTRUCTION

1. Round 1 Study (4 to 5 hours)
 - a. Read (reading list) 1a or 1b, and follow the examples in it.
 - b. Quickly go through the lecture notes and the examples (example files are provided) to preview the module content. Make sure you can understand these examples.
 - c. Complete the quiz for the first attempt.
2. Round 2 Study (4 to 6 hours)
 - a. Complete lab 4. 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 screens must be original and show the complete computer screen - no graphic editing or cropping is allowed.** Clearly name and label all screenshots.
 - 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. Follow more readings in reading list 3 if you need advanced study or references.
 - e. Begin assignment #2 by reading and understanding the requirements.

READING LIST

1. Required readings
 - a. [A Quick Guide to Writing Scripts Using the Bash Shell](#)
 - b. [Shell Programming](#)
2. Lecture notes "bash-scripting.pdf" with example script files in "bash-scripts.zip"
3. Additional readings and resources
 - a. [Bash Scripting Tutorial](#)
 - b. [Bash Guide for Beginners](#)C:\Users\Alex\Downloads\Bash Guide for Beginners
 - c. [Bash by example](#)
 - d. [Linux Shell Scripting Tutorial v1.05r3 A Beginner's Handbook](#)
 - e. [Bash Guide for Beginners](#)

TASK LIST

1. Lab: Do Lab2 and drop your PDF file in the Drop Box as instructed. Please note that the "bash scripts.zip" file contains sample scripts that may be helpful.
2. Assessment: D2L quiz #4.