

IT 4423 UNIX/LINUX ADMIN STUDY GUIDE

LEARNING MODULE 5: USER MANAGEMENT

OVERVIEW AND LEARNING OUTCOMES

1. Explain basic user management concepts
 - a. User, group, password, UID, GID, permission
2. Describe where user information is stored in Linux
 - a. /etc/passwd, /etc/group, /etc/shadow
 - b. /etc/skel/, /etc/default/useradd
 - c. /var/log/auth.log
3. Use commands to manage users and groups
 - a. useradd, userdel, usermod, groupadd, groupdel, groupmod
 - b. passwd
 - c. who, w, id, groups
 - d. su, sudo
4. Explain the concept of root user

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 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 7. 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.** 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. Start assignment #3 (see instructions in a separate document) – See the syllabus for due date. It may take you more than 10 hours!

READING LIST

1. Required readings
 - a. [Ubuntu User Management](#)
 - b. [Understanding /etc/passwd File Format](#)
 - c. [Understanding /etc/group File](#)
 - d. [Users](#)
2. Lecture notes: "user.pdf"
3. Additional readings and resources
 - a. [Shadow your passwd file](#)
 - b. [Unix/Linux Permissions](#)
 - c. [File Permissions](#)
 - d. [File Permissions ACLs](#)

TASK LIST

1. Research and discuss:
 - a. How do you generate the encoded password used in Linux? Want to do some research and share with us? For example, the encoded password used in the lab 5. How and what tools can we use to generate one based on clear text?
2. Lab: "lab-5.pdf"
3. Assessment: complete the online quiz #5. Please discuss it in the discussion board if you have questions.