

IT 4423 UNIX/LINUX ADMIN STUDY GUIDE

MODULE 9: NETWORK ADMIN

Module LEARNING OUTCOMES

1. Configure host and network settings
 - a. Check network card and IP information
 - b. Configure network card and IP address
 - c. Activate/deactivate network card
 - d. Renew IP address
2. Use common networking tools for monitoring, configuration, and communication.
 - a. ifconfig, ip
 - b. nm-tool, nmcli
 - c. dhclient
 - d. hostname
 - e. ping
 - f. host, dig
 - g. whois

INSTRUCTION

1. Round 1 Study (3 to 4 hours)
 - a. Read the pptx, links provided and watch the videos.
 - b. Complete the quiz for the first attempt.
2. Round 2 Study (3 to 5 hours)
 - a. Complete lab 9. 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.

READING LIST

1. Required readings
 - a. [Chapter 1. Introduction to Networking](#)
 - b. [Chapter 2. Issues of TCP/IP Networking](#)
 - c. [Ubuntu Server Guide](#)
 - d. [Linux Network Administrators Guide](#)
2. Lecture notes "network.pptx"
3. Additional resources and readings
 - a. [About Samba](#)
 - b. [Install and Configure Samba Server on Ubuntu for File Sharing](#)

TASK LIST

1. Lab: "lab-9.pdf"
2. Assessment: complete the online quiz #9. Please discuss it in the discussion board if you have questions.