

IT 4423 Unix/Linux Admin Study Guide

Module 12: Linux Security Basics

Module Learning Outcomes

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

1. Explain the role that Firewall plays in Linux security
2. Explain the relationship between Linux services and Linux security
3. Configure Linux Services and Runlevels

Instruction:

1. Required Reading

- 1.1 [Introduction to Linux Security](#)
 - 1.1.1 [Do I Need to Worry About Security?](#)
 - 1.1.2 [The "Hacker" Word](#)
 - 1.1.3 [Security and Linux](#)
- 1.2 [Firewalls – The First Line of Defense](#)
 - 1.2.1 [What is firewall](#)
 - 1.2.2 [How a firewall works](#)
 - 1.2.3 [Configuring a firewall](#)
- 1.3 [Understanding Linux Services](#)
 - 1.3.1 Web Server httpd – Port 80
 - 1.3.2 Remote Login – telnet – Port 25
 - 1.3.3 Secure Remote Login – ssh – Port 22
 - 1.3.4 File Transfer –ftp – Port 21
 - 1.3.5 Mail Transfer – SMTP – Port 25
- 1.4 [Configuring Linux Services and Runlevels](#)
 - 1.4.1 Linux Init and Runlevels
 - 1.4.2 [Configuring Linux Services](#)

2. Additional Readings

- 2.1 [Introduction to Linux Security Principles](#)
- 2.2 [YouTube video: Introduction to Linux Security](#)
- 2.3 [YouTube video: Working with Linux Runlevels](#)

Task List:

1. After reading, please work on quiz 12 and Lab 12

Mapping between tasks and module learning outcomes:

- Lab 12 assesses Module Learning Outcome 3
- Quiz question 3 and 5 assesses Module Learning Outcome 1
- Quiz question 1, 2 and 4 assesses Module Learning Outcome 2

Mapping between module learning outcomes and course objectives:

Module Learning Outcomes contribute to Course Objective 4 and 5