

CYBR4423 Linux/UNIX Administration

Description

This course introduces Linux/Unix operating systems. Topics include system administration, file systems and access permissions, regular expression, common tools and utilities, and network service configurations. Lessons will be enhanced using hands-on exercises.

Course Objectives

Upon completion of this course, the student will be able to

1. Describe concepts and structure of the Linux/Unix operating system.
2. Use common commands and utilities for general file system operations.
3. Write shell scripts for common shell environment.
4. Perform system administration tasks to manage files, software, storage, users, and services.

Materials

There is no required textbook for this course. Learning materials will be provided in each learning module.

Recommended Reference books

- [Linux Bible](#)
 - [Linux Command Line and Shell Scripting Bible](#)
 - [Essential Linux Administration: A Comprehensive Guide for Beginners](#)
 - [The Linux Command Line](#)
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Schedule

Week#	Learning Modules	Assignments
Week 1	Module 0 - Orientation	Self-Introduction
Week 2	Module 1 - Introduction	Lab-1a, Lab1b, Quiz 1, Discussion 1
Week 3	Module 2 -File System	Lab-2, Quiz 2, Discussion 1
Week 4	Module 3 -Shell	Lab-3, Quiz 3, Discussion 1
Week 5	Module 4 -Bash Scripting	Lab-4, quiz 4, Discussion 1
Week 6	Module 5 -User Mgt	Lab-5, quiz 5, Discussion 1
Week 7	Module 6 – Process Mgt	Lab-6, quiz 6, Discussion 1
Week 8	Module 7 Software Mgt	Lab-7, Quiz 7, Discussion 2
Week 10	Module 8 Storage Mgt	Lab-8, Quiz 8, Discussion 2
Week 11	Module 9 Networking Mgt	Lab-9, Quiz 9, Discussion 2
Week 12	Module 10 More Services	Lab-10, Quiz 10, Discussion 2
Week 13	Module 11 LAMP	Lab-11, Quiz 11, Discussion 2
Week 14	Module 12 Linux Security	Lab-12, Quiz 12, Discussion 2
