

Essentials of Unix Administration with FreeBSD

Duration: 4 Days (8Hours per day)

Module 1 - Installing and Upgrading FreeBSD Unix

Installing FreeBSD Unix Updating FreeBSD with Patches Upgrading to a New FreeBSD Release Adding an Administration and Connecting to FreeBSD Gaining Remote Access using SSH

Module 2 - Discovering the UNIX Command Line

Working with the Default Login Shell
Listing Directory and Aliases
Navigating Directories
Working with the UNIX find Command
Reading and Writing to Files
Building Bespoke Application using Command Pipelines

Module 3 - Managing Software in FreeBSD

Understanding Software Management in FreeBSD Working with the Command pkg to Manage Software in FreeBSD Locating files from Software Packages

Module 4 – Working with Unix Text Editors

Using vi, FreeBSD's Default Editor Using nano editor Learning vim with vimtutor The 3 Modes in VIM Power Editing Files Using VIM

Module 5 - Managing Files and Directories in FreeBSD

Introduction to File Management in FreeBSD How we Manage Files
Organizing Files using Directories
Moving and Copying Files
Understanding Hard Links and Directories
Hard-Linking Files in FreeBSD
Creating Soft or Symbolic links in Unix
Creating Named Pipes

Module 6 - Managing UNIX File Permissions

Securing Files Using the File Mode
Understanding the File Mode
Controlling the Assigned Permissions to New Files
Setting Standard Permissions on Files
Controlling Directory Permissions
Controlling Ownership of Files
Creating Sticky Directories by Controlling Deletions
Using the SGID Special Permission
Using the SUID Special Permission

Module 7 - Extending Permissions with ACLs

What is ACL ACL support in FreeBSD Listing ACLs with FreeBSD



Altering ACLs Using setfacl Setting Default ACLs on Directories

Module 8 – Managing Users and Groups

Understanding User Management in FreeBSD Adding Users to FreeBSD with adduser Script Creating Users Using pw User Defaults Managing Users in FreeBSD Managing User Passwords Managing Groups in FreeBSD Elevating User Privileges Using sudo

Module 9 – Monitoring FreeBSD and Managing Server Load

Identify System Hardware Identify System Load Managing Processes Reboot and Poweroff System