

Industrial Attachment Program In Network & Server Administration Course Outline

Chapter 1: Basic Windows Operating System

- 1.1 Types of Operating System
- 1.2 Basic application of Window Operating System
- 1.3 Desktop Fundamentals
- 1.4 Shortcut & Tips

Chapter 2: Basic Hardware Concept

- 2.1 Types of Computer
- 2.2 What is RAM, ROM, HDD, Processor etc.
- 2.3 Types of RAM, ROM, HDD, Processor etc.
- 2.4 Types of Partition

Chapter 3: Introduction of Network

- 3.1 What is Computer/Data Networking?
- 3.2 Introducing with Network Devices (HUB,Switch,Router,Bridge)
- 3.4 Protocols Details
- 3.5 OSI & TCP/IP Models
- 3.6 Understanding Data Flow of network
- 3.7 Network Topology
- 3.8 Cabling
- 3.9 IP Addressing

Chapter 4: Basic Networking

- 4.1 IP Assign
- 4.2 File Sharing
- 4.3 Printer Sharing
- 4.4 Remote Desktop/Telnet
- 4.5 Internet Connection Sharing (ICS)

Chapter 5: About Linux

- 5.1 Linux
- 5.2 Red Hat Linux
- 5.3 Features of Red Hat Linux

Chapter 6: Installing Red Hat Linux

- 6.1 Basic Installation Concept of Linux
- 6.2 Linux Installation (Complete)

Chapter 7: System Administration

- 7.1 The initialization Process and Startup Scripts
- 7.2 Administrative Commands
- 7.3 Managing Software with RPM
- 7.4 Managing Users and Groups

Chapter 8: Network Interface Check and IP Setup

- 8.1 Checking Network Interface.
- 8.2 Configure Single Interface
- 8.3 Configure Multiple Interface
- 8.4 IP aliasing
- 8.5 Disable/Enable Network Interface.
- 8.6 Changing MAC address in Linux. & Windows
- 8.7 Checking network connection status

Chapter 9: Server Configuration

- 9.1 Telnet
 - 9.1.1 Configuring the Telnet server
 - 9.1.2 Logging into & Logging out a Telnet server

9.2 SSH

- 9.2.1 Introduction
- 9.2.2 Configuration
- 9.2.3 Use scp over ssh

9.3 DHCP

- 9.3.1 Introduction
- 9.3.2 Objective of DHCP
- 9.3.3 Working principal of DHCP
- 9.3.4 Configuration DHCP Server
- 9.3.5 Installing DHCP Using RPM Commands
- 9.3.6 Starting DHCP Server
- 9.3.7 Configuring Linux based DHCP Client
- 9.3.8 Configuring Windows based DHCP Client

9.4 NFS

- 9.4.1 Introduction
- 9.4.2 Setting up an NFS Server
- 9.4.3 Getting the service started
- 9.4.4 verifying the NFS is running
- 9.4.5 Setting up an NFS client

9.5 SAMBA

- 9.5.1 Introduction to Samba
- 9.5.2 Function of samba
- 9.5.3 An overview of the samba distribution
- 9.5.4 Samba package installation
- 9.5.5 Configuring samba Server
- 9.5.6 Setting up Windows client
- 9.5.7 Accessing samba server
- 9.5.8 Accessing Windows client from samba server
- 9.5.9 The smbpasswd command

9.6 FTP

- 9.6.1 Introduction to FTP
- 9.6.2 Attributes of FTP server
- 9.6.3 Installing FTP Server
- 9.6.4 Configuring FTP users
- 9.6.5 Testing FTP Server
- 9.6.6 Controlling FTP Access

9.7 Web server

- 9.7.1 Introduction
- 9.7.2 History of Apache
- 9.7.3 Installing Apache
- 9.7.4 The Apache Layout
- 9.7.5 Configuring apache
- 9.7.6 Configuring Virtual Hosts
- 9.7.7 Testing the Virtual Hosts

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Please feel free to contact with us.