



Linux Pathshala LTD.

LINUX PATHSHALA

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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



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- 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



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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