

Novell NetWare 5.0 Systems Administration A Four Day Training Course

Course Aims:

This course identifies the fundamentals of network management and covers the use of NetWare utilities to set up and manage users and other network resources. At the end of the course delegates will be able to manage a NetWare 5.0 network with confidence.

Course Outline:

Introduction

- A Definition of Local Area Networks
- LAN Structure
- The Role of the System Manager

Network Cabling Systems

- Shielded Twisted Pair; Unshielded Twisted Pair
- Coaxial Cable; Ethernet Cable Data
- Unshielded Twisted Pair Cable
- UTP Cable Data; Fibre Optics

Network Topology

- Arcnet
- The bus System
- The IBM Token Ring System
- FDDI
- Asynchronous Transfer Mode

NetWare 5.0 Features

NetWare Directory Services

- Native TCP/IP and / or IPX Protocol Support
- Migration Gateway; Data Compression
- Block Suballocation; Data Migration
- Domain Name Servers and Dynamic Host Configuration Support
- Support for Lightweight Directory Access Protocol
- Service Location Protocol; Novell Storage Services
- NDS Tree Merge Facility
- Unlimited Macintosh Support
- Full fault Tolerance Capability
- Secure Login Procedure; Java Support
- Console One; Improved Operating System Kernel
- New Back up Utility; Support for Oracle 8
- NetScape Fast Track Server for NetWare
- Zero Effort Network Desktop Management Tool Starter Pack; New Licence Breaks

Dynamic Host Configuration Protocol

- Overview; Installing and Tailoring DHCP Services

Domain Name Service

Fundamentals of a Naming Convention

The X500 Standard

The NDS Structure

- Objects and Containers; Types of Leaf Objects
- NDS Leaf Objects; NDS Naming Rules

Novell Integrated Products

Navigating the NDS tree

- Changing Context
- Logging In and Out of the NDS System
- WHOAMI; NVER

Managing NDS Objects

Overview of NWADMN3X

- NWADMN3X Features
- Creating New Objects in NWADMN3X
- NWADMN3X Shortcuts and Information
- Creating a Group in NWADMN3X
- Creating a Template Object in NWADMN3X
- Assigning a User Password in NWADMN3X
- Special Purpose NDS Objects

Network Security

Object Rights

Property Rights

File System Directory Trustee Rights

File System File Trustee Rights

Security Fundamentals

Implicit Rights

- Group Membership; Security Equivalence
- Inheritance; Effective Rights
- The RIGHTS Utility; Inherited Rights Filters

Overview

Login/Password Access Security

- Authentication
- Assigning a User Password in NWADMN3X
- Intruder Detection; Overview
- Unlocking a Locked Account

System Fault Tolerance

RAID

Drive Maps

Search Maps

Local Maps

Frame Types

NetWare Utility Programs

- NLIST
- Property Search and Display Parameters
- NETUSER

Login Scripts

- Container Login Script
- Profile Login Script
- User Login Script
- Default Login Script
- External Login Script
- Login Script Functions
- Basic Login Script Commands
- Using Simple Logic in Login Scripts
- Using Complex Logic in Login Scripts
- Other Login Script Commands
- GOTO Command
- Testing for User Specific Values
- A Sample Login Script
- Login Script Design
- Console Utilities

Appendix A - Country Object Codes

Appendix B - Object Class Property Values

- OBJECT CLASS: USER
- OBJECT CLASS: SERVER
- OBJECT CLASS: Organisational Unit

Target Audience:

PC LAN Support personnel who have good exposure to MS-DOS and Windows 95 or NT Workstation and wish to learn the skills to enable them to administer a NetWare 5.0 network. No previous Local Area Network management experience is assumed.

Assumed Knowledge:

Sound experience in a PC and MS-DOS environment and basic familiarity with networking concepts and principles gained from a user environment or by attendance on an "MS-DOS Workshop" and "PC Networking" course.