CIW Server Administrator Series – Course 1:

Internet System Management (October 2002)

Internet System Management is a 12-hour class that teaches foundational Internet services. Students learn user management concepts in Windows 2000 and Linux, configure Domain Name System (DNS) services, and Microsoft WINS, Samba, Telnet, and FTP. Students also learn about choosing appropriate Internet system platforms and receive training on how to calculate throughput, choose appropriate Internet connections and configure Windows 2000 Server and Red Hat Linux to use TCP/IP. By the end of this course, students will be able to provide essential TCP/IP services for any business interested in establishing an effective e-commerce presence.

Topics

Systems and Services

Common IT Tasks and Services System Configuration User Management System Performance Maintenance and Backup

Internet System Installation and Configuration Issues

Administering Internet Services System Elements Bandwidth Calculating Throughput Internetworking Operating Systems Novell NetWare Operating System Issues Common System Vendors **Installing Systems**

Configuring the System

Configuring Servers Adapters and Drivers Multiple NICs Assigning IP Addresses Static Adressing Additional TCP/IP Issues & Commands Configuring DNS in NT Server 2000 Dynamic Addressing

User Management Essentials Introduction to User Management

Security Models and Authentication Peer-level and User-level Access Creating User Accounts Login Shell Permissions Windows NT, UNIX and Novell Permissions Additional Logon Account Terms Administrative Privilege **Standard Password Practices** Network Policies **Standard Operating Procedures**

Managing Users in Windows 2000

Introduction to User Management The Security Accounts Manager The Computer Management Snap-in Local Security Settings Auditing, Ownership, and Rights NTFS Permissions and Internet Users Editing and Customizing User Accounts Windows 2000 Services and User Accounts

Managing Users in Linux

Adding Accounts in Linux Manually Adding Users Linux User Accounts Puggable Authentication Modules Groups

Linux System Accounts Run Levels, ntsysv and chkconfig

Name Resolution in the LAN with DNS Troubleshooting Samba with Testparm Domain Name System Domain Name Space Accessing Hosts by DNS Name Zone Files and DNS Name Probing DNS with Nslookup Propagating Changes from the Primary Server to the Secondary Server Controlling Zone Transfers in Windows 2000 Understanding BIND Setting Up DNS in Linux Troubleshooting DNS Troubleshooting Utilities

Name Resolution - WINS and Samba

Introduction to Name Resolution with WINS and Samba NetBIOS over TCP/IP The NetBIOS Naming Convention Windows Internet Naming Service Managing WINS Static Mapping Replication Advanced WINS Options Samba, Web Administration Tool Samba and WINDS Windows Samba Share Clients Linux Samba Clients Access Levels in Samba Interoperability Issues The Homes Share Creating a New Share in Samba

Implementing Internet Services

File Transfer Protocol Servers **Anonymous Accounts** Implementing Microsoft FTP Managing FTP in IIS Creating Virtual FTP Servers Anonymous Access in IIS UNIX and FTP Anonymous FTP Setting FTP Logon Limits Telnet Telnet in UNIX Xinetd Trivial IP Services TCP Wrappers

Target Audience

Job Responsibilities

LAN/WAN administrators, systems administrators, systems Manage and tune corporate Internet and intranet managers, intranet administrators, network engineers, and internetworking engineers.

infrastructure; monitor Web server systems, FTP, news and mail servers; configure and deploy e-business solutions servers.

Prerequisites

Students must have CIW Foundations certification or equivalent experience, and have a working knowledge of Windows NT/2000 administration, including installation and configuration.

Duration

12 hours