

CIW Security Professional Series – Course 2: Operating System Security (October 2002)

Operating System Security is a course designed to teach students the latest security industry recommendations and how to properly protect Windows 2000 and Linux servers in a variety of settings. Students will learn how to protect Windows 2000 and Linux systems from attacks, reconfigure the operating system to fully protect it, and scan hosts for known security problems. By the end of the course, students will have a solid understanding of the security architectures used by Windows 2000 and Linux.

Topics

Security Principles

- Overview of Security Principles
- Definition of Security
- Evaluation Criteria
- Security Levels
- Security Mechanisms
- Security Management
- Windows 2000 Security
- Windows 2000 Security Architecture
- Linux Security
- Pluggable Authentication Modules (PAMs)

Account Security

- Securing Accounts: An Overview
- Passwords
- Verifying System State
- Password Aging in Linux

File System Security

- File System Security Overview
- Windows 2000 File System Security
- Remote File Access Control
- Linux File System Security

Assessing Risk

- Risk Assessment Basics
- Security Threats
- Windows 2000 Security Risks
- General UNIX Security Vulnerabilities
- Keyloggers
- System Port Scanning
- UNIX Security Risks
- NIS Security Concerns
- NFS Security Concerns

Reducing Risk

- Reducing Risk through Simplification
- Patches and Fixes
- Windows 2000 Registry Security
- Disabling and Removing Unnecessary Services in Windows 2000
- Reducing Risk in Linux Systems

Target Audience

Network server administrators, firewall administrators, systems administrators, application developers, and IT security officers.

Job Responsibilities

Implement e-business solutions security policies; identify security threats and develop countermeasures using firewall systems and attack recognition technologies; and manage the deployment of security solutions.

Prerequisites

Students must have completed Network Security and Firewalls or be able to demonstrate equivalent knowledge.

Duration

6 hours