

Course 542

Windows Server 2003: Active Directory Security (4 days)

Who should attend...

In this advanced hands-on course in our Windows Server 2003 Series, students learn how to deploy Security Services into a Single Domain, Multiple Domain, and Multiple Forest Active Directory Environment. Specialized Topics such as Windows Server Update Services (WSUS), Microsoft Certificate Servers, Encrypted File System (EFS), Active Directory Federated Services (ADFS) and Microsoft Internet and Security Acceleration (ISA) Server will be covered. This course will benefit Active Directory Design/Management Teams, Network Administrators and Managers who need to understand built-in and optional Enterprise Security Components of Windows Server 2003 and the Active Directory.

Suggested Prerequisites...

- Course 538: Windows 2003 Essentials or equivalent knowledge
- Course 549: Windows XP and 2003 Security Foundations or equivalent knowledge
- Extensive understanding of Active Directory Management (Schema and Configuration Naming Contexts, FSMO Roles, Multi-site replication Model, External Trusts, and Group Policies)

Course Outline...

Chapter 1: Security Fundamentals

Identifying risks in a Windows Environment

Creating a Security Policy based on Organizational requirements

Workshop: Assessing a Windows Networks

Understanding Authentication and Authorization

Steps to Increasing Authentication Security

Workshop: Authentication and Authorization Workshop

Chapter 2: Leveraging the Active Directory to enhance Security

Windows Active Directory Security

Customizing the Default Security Policies

Workshop: Raising the default security of the Active Directory

Securing AD Enabled Applications: DNS and DHCP

Workshop: Secure AD Enabled DNS Zones & DHCP Registration

Maintaining a balance between Security and Interoperability

Workshop: Reducing Active Directory Security to support down-level/mixed environments



Installation and Configuring Active Directory Federation Services (ADFS)

Using ADFS for bringing together multiple forests

Workshop: Install and Configure ADFS for Single-Sign-On in a Multi-forest environment

Chapter 3: Centralized Servers and Workstations Management

Installing and Configuring Windows Server Update Services (WSUS)

Documenting Workstation and Server Update Levels

Approving Updates to Test and Production Computer Groups

Workshop: Install and Configure Windows Server Update Services

Understanding and Parsing Windows Application, Security and System Logs

Centralized Log Collection and Management

Workshop: Monitoring Multiple Servers

Microsoft Client Protection Services

Workshop: Deploying Microsoft Client Protection Services

Chapter 4: Deploying a Public Key Infrastructure (PKI)

Public/Private Key Cryptography

Digital Certificates

Workshop: Using Digital Certificates

Designing a Certificate Authority (CA) hierarchy

Enrolling and distribution of Root Certificates

Renewal, Revocation and Auditing Procedures

Workshop: Deploying an Enterprise Certificate Authority

Command Line management of Windows Public Key Infrastructures

Establishing a Key Escrow

Workshop: Management of Certificate Authorities

Chapter 5: IP Security

What is IP Security and IPSec

Enabling IPSec via a local policy

Workshop: Configure Local Policy for IPSec communication

Using IPSec within an Active Directory Environment

Workshop: Configure Local Policy for IPSec communication

Creating Custom IPSec Policies

Monitoring IPSec communication

Workshop: Customize an IPSec Policy

Chapter 6: File & Folder Security

Examining File/Folder Permissions and Ownership

Monitoring and Logging File/Folder Access

Bypassing Windows Server File/Folder Security

Workshop: Securing the File System

Understanding File Encryption

Deploying File Encryption in conjunction with an Enterprise Public Key Infrastructure

Workshop: Using EFS in an Active Directory Environment

Using Windows Server 2003 R2 File Screening & Folder Level Quota Capabilities

Workshop: Restricting File Storage based on Type



Chapter 7: Internet Security and Acceleration Server (ISA) 2004

What is an ISA Server?

Locating ISA Server on the Network

Installation and updating of ISA Server 2004

Workshop: Install and Manage an ISA Server

ISA Proxy Server Configuration

Workshop: Controlling Client Internet Access using an ISA Server

Web Server and Application Publishing with ISA Server

Workshop: Using an ISA Server to defend Web Services

Additional/Custom Topics are available - please contact your ROI representative to discuss course tailoring!!!