



COMPUTER TRAINING

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WINDOWS

Course No. 6418

3 Days

Target Audience:

This course provides students with an understanding of migrating and deploying Windows Server 2008 including installation, configuration, and upgrading. It is intended for IT professionals who are experienced with Windows Server 2000 and Windows Server 2003, and who hold an MCSE or MCSA or have equivalent knowledge.

Pre-requisites:

Before attending this course, students must have the following pre-requisites:

- On-the-job experience in Microsoft Windows Server 2000 or 2003, including Active Directory and Network Infrastructure.
- Working knowledge of networking.
- Designed a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.
- Designed Security for a Microsoft Windows Server 2003 Network.
- Experience with Microsoft Windows 2000, Windows XP, or Microsoft Vista.

Purpose:

After completing this course, students will be able to install Windows Server 2008; perform initial configuration tasks for Windows Server 2008; conduct an unattended install of Windows Server 2008; configure Windows Server Core 2008; use Windows Deployment Services to deploy Windows Server 2008; utilize Windows Server Deployment Solution Accelerator; upgrade to Windows Server 2008 from Windows Server 2003; upgrade Active Directory to Windows Server 2008; upgrade Windows Server 2003 File and Print servers to Windows Server 2008; upgrade Windows Server 2003 Application and Web servers to Windows Server 2008; upgrade Windows Server 2003 Branch Office servers to Windows Server 2008; implement a Volume Licensing Strategy using KMS and MAK.

Deploying Windows Server 2008

At the end of the course the delegate will be able to complete the following:

Windows Server 2008 Installation & Configuration

- This module focuses on installation options and requirements for Windows Server 2008, including deploying Windows Server Core. This module also covers using KMS and MAK to implement a Volume License strategy.
- Improvements in setup from Windows 2003 to Windows Server 2008 and Windows 2008 Installation Requirements
- Windows Server 2008 Server Core installation
- Implement a Volume Licensing Strategy using KMS and MAK
- Lab: Install Windows Server 2008

Skills:

- Install Windows Server 2008.
- Install Windows Server Core 2008.
- List improvements in Windows Server 2008 setup.
- Plan a Volume Licensing Strategy.

Windows Server Core 2008 Configuration

- This module focuses on Windows Server Core 2008 configuration. Basic server configuration including setting the Administrator password and server TCP/IP configuration are covered in this module.
- Basic Server Core command-line configuration tasks
- Configuring the roles available on Server Core
- Lab: Configure Windows Server Core 2008

Skills:

- List commands used to configure Server Core.
- Configure Server Core roles.
- Deploy common Server Core configurations.

Windows Server 2008 Unattended Installation

- This module describes using Unattend files to install Windows Server 2008. This module also covers creating a network deployment infrastructure for unattended installation, and unattended domain controller installation.
- Unattended 2008 Install.
- Unattended deployment infrastructure.
- Unattended domain controller installation.
- Lab: Deploying Windows Server 2008 Using an Unattend File
- Lab: Install Active Directory on Server Core using an Unattend file
- Lab: Deploy an RODC in a Branch Office Using an Unattend File

Skills:

- Configure Unattend.xml files for Windows Server 2008 unattended installation.
- Configure an RODC using Unattend files.

Using Windows Deployment Services

- This module focuses on using the new WIM image format and Windows Deployment Services to create and deploy custom system images.
- Working with the WIM format
- Windows Deployment Services
- Lab: Working with Windows Deployment Services

Skills:

- Create system images using the WIM format.
- Configure WDS.
- Create custom system images using WDS.

Windows Server Deployment (WSD) Solution Accelerator

- This module introduces the WSD Solution Accelerator as a tool for low-touch operating system deployment. This module also covers creating custom system images for common server configurations.
- Introduction to WSD Solution Accelerator
- Creating Custom Windows Server 2008 builds
- Guidance for Zero-Touch deployment using WSD
- Lab: Working with WSD

Skills:

- Create custom system images using WSD.
- Use WSD to deploy Windows Server 2008.

Upgrading and Migrating Active Directory

- This module provides prescriptive guidance for upgrading and migrating active directory from Windows Server 2003 to Windows Server 2008. This module also covers upgrading specific Active Directory-related services including DNS, Certificate Services, IPSec configuration, and GPO objects. This module provides best-practices for Active Directory upgrades.
- Windows Server 2008 Upgrade Overview
- Upgrading Windows Server 2003 Domain Controllers to Windows Server 2008 Domain Controllers
- Active Directory Upgrade Best Practices
- Lab: Upgrading Windows Server 2003 Domain Controllers to Windows Server 2008 Domain Controllers
- Lab: Using WSD to deploy an RODC to a branch office.

Skills:

- List best practices for Active Directory upgrade
- Upgrade a Windows Server 2003 domain controller to Windows Server 2008.
- Upgrade a Windows Server 2003 Active Directory Forest.
- Use WSD to deploy an RODC to a branch office.



Upgrading File and Print Servers

- This module provides prescriptive guidance for upgrading and migrating file and print servers from Windows Server 2003 to Windows Server 2008. This module also covers upgrading specific file and print-related services including DFS-R, scheduled backup jobs, and clustered servers. This module provides best-practices for file and print server upgrades.
- Upgrading File and Print Servers
- Best practices for upgrading a Windows Server 2003 File and Print Server to Windows Server 2008
- Lab: Upgrading a Windows Server 2003 File and Print Server to Windows Server 2008

Skills:

- Upgrade a Windows Server 2003 print server to Windows Server 2008.
- Upgrade a Windows Server 2003 file server to Windows Server 2008.
- List best practices for upgrading a Windows Server 2003 file and print server.

Upgrading Application and Web Servers

- This module provides prescriptive guidance for upgrading and migrating application and web servers from Windows Server 2003 to Windows Server 2008. This module also covers upgrading specific application and web-related services including WebDAV, .NET frameworks and applications, Terminal Server, and Windows SharePoint Services. This module provides best-practices for application and web server upgrades.
- Upgrading Application and Web Servers
- Best practices for upgrading a Windows Server 2003 Application and Web Server to Windows Server 2008
- Lab: Upgrading a Windows Server 2003 Web Server to Windows Server 2008 and IIS7
- Lab: Upgrading a Windows Server 2003 Terminal Server to Windows Server 2008

Skills:

- Upgrade a Windows Server 2003 application and web Server to Windows Server 2008.
- List best practices for upgrading a Windows Server 2003 application and web servers.

Upgrading Branch Office Servers

- This module provides prescriptive guidance for upgrading and migrating branch office servers from Windows Server 2003 to Windows Server 2008. This module also covers implementing common branch office roles including RODC and BitLocker. This module provides best-practices for branch office server upgrades.
- Migrating or Upgrading a Windows Server 2003 branch office server to Windows Server 2008
- Low-Touch branch office server deployment
- Lab: Upgrading a Windows Server 2003 branch office server to Windows Server 2008

Skills:

- Upgrade branch office servers to Windows Server 2008.
- List best practices for upgrading a Windows Server 2003 branch office server.



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Platform:

Windows

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Configuring and Troubleshooting a Windows Server 2008 Network Infrastructure

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Course No. 6421

5 Days

Target Audience:

This course provides students with the knowledge and skills to configure and troubleshoot a Windows Server 2008 network infrastructure. It is intended for Active Directory technology specialists, network administrators or experienced server administrators aspiring to be enterprise administrators.

Pre-requisites:

Before attending this course, students must have the following pre-requisites:

- Working experience with Windows Server 2003.
- Basic knowledge of Active Directory.
- An understanding of security concepts and methodologies.
- Basic knowledge of DHCP.
- Basic knowledge of IPsec.

Purpose:

After completing this course, students will be able to install and configure servers; configure and troubleshoot DNS; configure and manage WINS; configure and troubleshoot DHCP; configure and troubleshoot IPv6 TCP/IP; configure and troubleshoot Routing and Remote Access; install, configure, and troubleshoot the Network Policy Server Role service; configure Network Access Protection; configure IPsec; monitor and troubleshoot IPsec; configure and manage Distributed File System; configure and manage storage technologies; configure availability of network resources and content; configure server security compliance.

At the end of the course the delegate will be able to complete the following:

Installing and Configuring Servers

- This module explains how to identify the appropriate usage scenario and installation type for a server and then install and configure appropriate server roles and features.
- Installing Windows Server 2008
- Managing Server Roles and Features
- Overview of the Server Core Installation Option
- Lab: Installing and Configuring Servers and Server Roles

Skills:

- Identify the system requirements and process for installing Windows Server 2008.
- Describe the difference between server roles and features.
- Describe the benefits of and roles supported by a Server Core installation.

Configuring and Troubleshooting DNS

- This module explains how to configure, manage and troubleshoot DNS server and zone properties to be used in a secure environment.
- Installing the DNS Server Role
- Configuring the DNS Server Role
- Configuring DNS Zones
- Configuring DNS Zone Transfers
- Managing and Troubleshooting DNS
- Lab: Configuring and Verifying a DNS Solution

Skills:

- Install the DNS Server role.
- Configure the DNS Server role to support various query types.
- Configure DNS zones.
- Configure DNS zone transfers.
- Manage DNS zone records and troubleshoot DNS using various tools.

Configuring and Managing WINS

- This module explains how to configure, manage and troubleshoot WINS servers.
- Installing the Windows Internet Name Service
- Managing the WINS Server
- Configuring WINS Replication
- Migrating from WINS to DNS
- Lab: Configuring a WINS Infrastructure

Skills:

- Install and configure the Windows Internet Name Service.
- Manage WINS client records.
- Configure and manage WINS replication.
- Migrate a WINS infrastructure to DNS.

Configuring and Troubleshooting DHCP

- This module explains how to configure, manage and troubleshoot a DHCP environment supporting an IPv4 infrastructure.
- Overview of the DHCP Server Role
- Configuring DHCP Scopes and Options
- Managing a DHCP Database
- Monitoring and Troubleshooting DHCP
- Securing DHCP
- Lab: Configuring and Troubleshooting the DHCP Server Role

Skills:

- Describe how DHCP works.
- Configure DHCP scopes and options.
- Manage a DHCP database.
- Monitor and troubleshoot DHCP.
- Secure DHCP.

Configuring and Troubleshooting IPv6 TCP/IP

- This module explains how to configure and troubleshoot static and dynamic IPv6 addresses, including subnet prefix lengths, gateways and DNS servers.
- Overview of IPv6
- Coexistence with IPv4
- IPv6 Tunneling Technologies
- Transitioning from IPv4 to IPv6
- Troubleshooting IPv6
- Lab: Configuring an ISATAP Router
- Lab: Converting the Network

Skills:

- Describe the benefits and considerations of IPv6.
- Describe how IPv6 can coexist with IPv4 environments.
- Describe IPv6 tunneling technologies used to interoperate with IPv4 networks.
- Describe the process used to migrate from IPv4 to IPv6.
- Troubleshoot IPv6 connectivity.

Configuring and Troubleshooting Routing and Remote Access

- This module explains how to configure and troubleshoot Routing and Remote Access Services.
- Configuring Network Access
- Configuring VPN Access
- Overview of Network Policies
- Overview of the Connection Manager Administration Kit
- Troubleshooting Routing and Remote Access
- Lab: Configuring and Managing Network Access



Skills:

- Install and configure the Routing and Remote Access service.
- Configure VPN access.
- Configure network policies.
- Configure a connection profile using the Connection Manager Administration Kit.
- Troubleshoot Routing and Remote Access.

Installing, Configuring, and Troubleshooting the Network Policy Server Role Service

- This module explains how to install, configure and troubleshoot the Network Policy Server Role service.
- Installing and Configuring a Network Policy Server
- Configuring RADIUS Clients and Servers
- NPS Authentication Methods
- Monitoring and Troubleshooting a Network Policy Server
- Lab: Configuring and Managing Network Policy Server

Skills:

- Install and configure the Network Policy Server role.
- Configure a RADIUS client and server.
- Describe NPS authentication methods.
- Monitor and troubleshoot a Network Policy server.

Configuring Network Access Protection

- This module explains how to configure and manage NAP for DHCP, VPN, and 802.1X.
- Overview of Network Access Protection
- How NAP Works
- Configuring NAP
- Monitoring and Troubleshooting NAP
- Lab: Configuring NAP for DHCP and VPN

Skills:

- Describe the benefits and uses of NAP.
- Describe how NAP works in various access scenarios.
- Configure NAP.
- Monitor and troubleshoot NAP.

Configuring IPsec

- This module explains how to configure and test IPsec.
- Overview of IPsec
- Configuring Connection Security Rules
- Configuring IPsec NAP Enforcement
- Lab: Configuring IPsec NAP Enforcement

Skills:

- Describe the benefits and uses of IPsec.
- Configure Connection Security rules.
- Configure IPsec NAP enforcement.

Monitoring and Troubleshooting IPsec

- This module explains how to monitor and troubleshoot IPsec.
- Monitoring IPsec Activity
- Troubleshooting IPsec
- Lab: Monitoring and Troubleshooting IPsec

Skills:

- Monitor IPsec activity.
- Troubleshoot IPsec.

Configuring and Managing Distributed File System

- This module explains how to configure and manage Distributed File System.
- DFS Overview
- Configuring DFS Namespaces
- Configuring DFS Replication
- Lab: Configuring DFS

Skills:

- Describe the Distributed File System.
- Manage DFS namespaces.
- Configure DFS replication.

Configuring and Managing Storage Technologies

- This module explains how to configure and troubleshoot file system storage technologies included with Windows Server 2008.
- Overview of Windows Server 2008 Storage Management
- Managing Storage Using File Server Resource Manager
- Configuring Quota Management
- Implementing File Screening
- Managing Storage Reports
- Lab: Configuring and Managing Storage Technologies

Skills:

- Describe storage management solutions included in Windows Server 2008.
- Manage storage using File Server Resource Manager (FSRM).
- Configure quota management using FSRM.
- Implement file screening using FSRM.
- Manage storage reports.

Configuring Availability of Network Resources and Content

- This module explains how to describe and configure backup and recovery methods.
- Backing Up Data
- Configuring Shadow Copies
- Providing Server and Service Availability
- Lab: Configuring Availability of Network Resources

Skills:

- Back up data.
- Configure shadow copies.
- Provide server and service availability.

Configuring Server Security Compliance

- This module explains how to configure and analyze server security and security update compliance.
- Securing a Windows Infrastructure
- Using Security Templates to Secure Servers
- Configuring an Audit Policy
- Overview of Windows Server Update Services
- Managing WSUS
- Lab: Configuring and Managing Security and Security Update Compliance

Skills:

- Secure a server role within a windows infrastructure.
- Secure servers using security templates.
- Configure an audit policy.
- Describe the use of Windows Server Update Services.
- Manage updates using WSUS.



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Platform:

Windows

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Configuring Windows Server 2008 Active Directory Domain Services

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Course No. 6425

5 Days

Target Audience:

This course provides Active Directory Technology Specialists with the knowledge and skills to configure Active Directory Domain Services in a distributed environment, implement Group Policies, perform backup and restore, and monitor and troubleshoot Active Directory related issues.

Pre-requisites:

Before attending this course, students must have the following prerequisites:

- A basic understanding of networking.
- An understanding of network operating systems.
- An awareness of security best practices.
- Basic knowledge of server hardware.
- Some experience creating objects in Active Directory.
- A knowledge of basic concepts of backup and recovery in a Windows Server Environment.
- Attended Course 6424 or have equivalent knowledge.

Purpose:

After completing this course, students will be able to implement and configure Active Directory domain services in their enterprise environment.

At the end of the course the delegate will be able to complete the following:

Installing Active Directory Domain Services

- This module explains how to install and configure Active Directory Domain Services and install and configure a read-only domain controller.
- Installing Active Directory Domain Services
- Deploying Read-Only Domain Controllers
- Configuring AD DS Domain Controller Roles
- Lab: Implementing Read-Only Domain Controllers

Skills:

- Install Active Directory Domain Services.
- Deploy Read-Only Domain Controllers.
- Configure AD DS Domain Controller Roles.

Configuring DNS for AD DS

- This module explains how to configure Domain Name Services (DNS) for Active Directory Domain Services.
- Overview of Active Directory Domain Services and DNS Integration
- Configuring Active Directory Integrated Zones
- Configuring Read Only DNS
- Lab: Configuring AD DS and DNS Integration

Skills:

- Describe Active Directory Domain Services and DNS Integration.
- Configure Active Directory Integrated Zones.
- Configure Read Only DNS.

Configuring Active Directory Objects and Trusts

- This module explains how to configure Active Directory Objects and Trusts.
- Configuring Active Directory Objects
- Automating AD DS Object Management
- Delegating Administrative Access to AD DS Objects
- Configuring AD DS Trusts
- Lab: Configuring Active Directory Objects and Trusts

Skills:

- Configure Active Directory Objects.
- Automate AD DS object management.
- Delegate Administrative access to AD DS objects.
- Configure AD DS trusts.

Configuring Active Directory Sites and Replication

- This module explains how to configure Active Directory Objects and Trusts.
- Overview of AD DS Replication
- Configuring Active Directory Domain Services Sites
- Configuring and Monitoring AD DS Replication
- Lab: Configuring Active Directory Sites and Replication

Skills:

- Describe AD DS replication.
- Configure Active Directory Domain Services sites.
- Configure and monitor AD DS replication.

Creating and Configuring Group Policies

- This module explains how to create and configure group policies.
- Overview of Group Policies
- Configuring the Scope of Group Policy Objects
- Evaluating the Application of Group Policy Objects
- Managing Group Policy Objects
- Delegating Administrative Control of Group Policies
- Lab: Creating and Configuring GPOs

Skills:

- Describe Group Policies.
- Configure the scope of Group Policy objects.
- Evaluate the application of Group Policy objects.
- Manage Group Policy objects.
- Delegate administrative control of Group Policies.

Configuring User Environments Using Group Policies

- This module explains how to configure user environments using Group Policies.
- Configuring Group Policy Settings
- Configuring Scripts and Folder Redirection Using Group Policies
- Configuring Administrative Templates
- Deploying Software Using Group Policy
- Lab Configuring User Environments Using Group Policies

Skills:

- Configure Group Policy settings.
- Configure scripts and folder redirection Using Group Policies.
- Configure administrative templates.
- Deploy software using Group Policy.

Implementing Security Using Group Policies

- This module explains how to implement security using Group Policies.
- Configuring Security Policies
- Implementing Fine-Grained Password Policies
- Restricting Group Membership and Access to Software
- Managing Security Using Security Templates
- Lab: Implementing Security by Using Group Policies



Skills:

- Configure security settings.
- Implement fine-grained password policies.
- Restrict group membership and access to software.
- Manage security using security templates.

Implementing an Active Directory Domain Services Monitoring Plan

- This module explains how to implement Active Directory Domain Services monitoring plan.
- Monitoring Active Directory Domain Services Using Event Viewer
- Monitoring Active Directory Domain Servers by Using Reliability and Performance Monitor
- Configuring Active Directory Domain Services Auditing
- Lab: Monitoring Active Directory Domain Services

Skills:

- Monitor Active Directory Domain Services using Event Viewer.
- Monitor Active Directory Domain servers using reliability and performance monitor.
- Configure Active Directory Domain Services Auditing.

Implementing an Active Directory Domain Services Maintenance Plan

- This module explains how to implement an Active Directory Domain Services maintenance plan.
- Maintaining the AD DS Domain Controllers
- Backing Up Active Directory Domain Services
- Restoring Active Directory Domain Services
- Lab: Implementing an Active Directory Domain Services Maintenance Plan

Skills:

- Maintain the AD DS Domain Controllers.
- Back up the Active Directory Domain Services.
- Restore the Active Directory Domain Services.

Troubleshooting

- This module explains how to troubleshoot Active Directory Domain Services, Domain Name Service, and Active Directory replication.
- Troubleshooting Active Directory Domain Services
- Troubleshooting DNS Integration with AD DS
- Troubleshooting AD DS Replication
- Lab: Troubleshooting Active Directory, DNS, and Replication Issues

Skills:

- Troubleshoot Active Directory Domain Services.
- Troubleshoot DNS integration with AD DS.
- Troubleshoot AD DS replication.

Troubleshooting Group Policy Issues

- This module explains how to troubleshoot the application of group policy objects.
- Introduction to Group Policy Troubleshooting
- Troubleshooting Group Policy Application
- Troubleshooting Group Policy Settings
- Lab: Troubleshooting Group Policy Issues

Skills:

- Describe Group Policy troubleshooting.
- Troubleshoot Group Policy application.
- Troubleshoot Group Policy Settings.

Implementing an Active Directory Domain Services Infrastructure

- This module explains how to implement an Active Directory Domain Services Infrastructure.
- Overview of the AD DS Deployment
- Lab: Deploying Active Directory Domain Services

Skills:

- Implement an Active Directory Domain Services infrastructure.



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Configuring Identity and Access Solutions with Windows Server 2008 Active Directory

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Course No. 6426

3 Days

Target Audience:

This course provides the knowledge and skills that IT Professionals need to configure identity and access solutions with Windows Server 2008 Active Directory. It is intended for IT Professionals interested in IDA solutions in their enterprise environment.

Pre-requisites:

Before attending this course, students must have the following pre-requisites:

- Technical background knowledge and hands-on experience of Active Directory Domain Services.
- Completed Course 6424: Fundamentals of Microsoft Server 2008 Active Directory, or have equivalent technical knowledge.
- Completed Course 6425: Configuring Windows Server 2008 Active Directory Domain Services, or have equivalent technical knowledge.

Purpose:

After completing this course, students will be able to describe identity and access solutions; configure Active Directory Certificate Services; deploy and manage certificates; configure Active Directory Lightweight Directory Services; configure Active Directory Federation Services; configure Active Directory Rights Management Services; maintain access management solutions; troubleshoot identity and access solutions.

At the end of the course the delegate will be able to complete the following:

Exploring Identity and Access Solutions

- After completing this module, students will be able to explore identity and access solutions.
- Overview of Identity and Access Management
- Active Directory Server Roles in Identity and Access Management
- Identity Lifecycle Manager
- Lab: Exploring Identity and Access Solutions 2008

Skills:

- Describe identity and access management.
- Identify Active Directory server roles in identity and access management.
- Understand Identity Lifecycle Manager.

Configuring Active Directory Certificate Services

- After completing this module, students will be able to configure Active Directory Certificate Services.
- Overview of Public Key Infrastructure
- Deploying a Certification Authority Hierarchy
- Installing Active Directory Certificate Services
- Managing a Certification Authority
- Lab: Configuring Active Directory Certificate Services

Skills:

- Describe Public Key Infrastructure.
- Deploy a Certification Authority hierarchy.
- Install Active Directory Certificate Services.
- Manage a Certification Authority.

Deploying and Managing Certificates

- After completing this module, students will be able to deploy and manage certificates.
- Deploying Certificates by Using AD CS
- Deploying Certificates by Using Autoenrollment
- Revoking Certificates
- Configuring Certificate Templates
- Configuring Certificate Recovery
- Lab: Deploying and Managing Certificates

Skills:

- Deploy certificates by using AD CS.
- Use autoenrollment to deploy certificates.
- Revoke certificates.
- Configure certificate templates.
- Configure certificate recovery.

Configuring Active Directory Lightweight Directory Services

- After completing this module, students will be able to configure Active Directory Lightweight Directory Services.
- Installing and Configuring AD LDS
- Configuring AD LDS Instances
- Configuring AD LDS Replication
- Configuring AD LDS Integration with AD DS
- Lab: Configuring Active Directory Lightweight Directory Services

Skills:

- Install and configure AD LDS.
- Configure AD LDS instances.
- Configure AD LDS replication.
- Configure AD LDS integration with AD DS.

Configuring Active Directory Federation Services

- After completing this module, students will be able to configure Active Directory Federation Services.
- Overview of AD FS
- AD FS Deployment Scenarios
- Deploying AD FS
- Implementing AD FS Claims
- Lab: Configuring AD FS

Skills:

- Describe AD FS.
- Understand AD FS deployment scenarios.
- Deploy AD FS.
- Implement AD FS claims.

Configuring Active Directory Rights Management Services

- After completing this module, students will be able to configuring Active Directory Rights Management Services.
- Overview of AD RMS
- Installing and Configuring AD RMS Server Components
- Administering AD RMS
- Implementing AD RMS Trust Policies
- Lab: Configuring Active Directory Rights Management Services

Skills:

- Describe AD RMS.
- Install and configure AD RMS server components.
- Administer AD RMS.
- Implement AD RMS trust policies.



Maintenance of Access Management Solutions

- After completing this module, students will be able to maintain access management solutions.
- Support for AD CS
- Maintenance of AD LDS
- Long-term support for AD FS
- Preservation of AD RMS
- Lab: Maintaining Access Management Solutions

Skills:

- Support AD CS.
- Maintain AD LDS.
- Provide long-term support for AD FS.
- Preserve AD RMS.

Troubleshooting Identity and Access Solutions

- After completing this module, students will be able to Design Active Directory disaster recovery in Windows Server 2008.
- Troubleshooting AD CS
- Troubleshooting AD LDS
- Troubleshooting AD FS
- Troubleshooting AD RMS
- Lab: Troubleshooting Active Directory Server Roles

Skills:

- Troubleshoot AD CS.
- Troubleshoot AD LDS.
- Resolve AD FS issues.
- Solve AD RMS problems.



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Configuring and Troubleshooting Internet Information Services in Windows Server 2008

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Course No. 6427

3 Days

Target Audience:

This course introduces students to install, configure, maintain, and troubleshoot an Internet Information Services 7.0 Web Server in Windows Server 2008. It is intended for individuals who want to become a Web Server Administrator in an enterprise environment.

Pre-requisites:

Before attending this course, students must have the following pre-requisites:

- Completed Course 6420 Foundational Series: Fundamentals of a Windows Server 2008 Network Infrastructure and Application Platform.
- A minimum of one year of experience administering and supporting a Web Server role using Windows Server 2003.
- Network + certification.

Purpose:

After completing this course, students will be able to describe the IIS 7.0 modular architecture; describe the IIS 7.0 workloads; describe the three methods for installing IIS 7.0; install IIS 7.0 using each of the three identified methods; configure common features for IIS 7.0; validate functionality of configured features.

At the end of the course the delegate will be able to complete the following:

Configuring an IIS 7.0 Web Server

- The students will be introduced to the process of installing a Web Server and configuring IIS features such as application development; health and diagnostics; HTTP features and more.
- Introducing Internet Information Services 7.0
- Installing the Web Server Role in Windows Server 2008
- Configuring Application Development, Health, and HTTP Features
- Configuring Performance, Security, and Server component Features
- Lab: Configuring an IIS 7.0 Web Server

Skills:

- Describe the IIS 7.0 modular architecture.
- Describe the IIS 7.0 workloads.
- Describe the three methods for installing IIS 7.0.
- Install IIS 7.0 using each of the three identified methods.
- Configure common features for IIS 7.0.
- Validate functionality of configured features.

Configuring IIS 7.0 Web Sites and Application Pools

- The students will be introduced to creating and managing Web sites and application pools.
- Introducing Web Sites and Application Pools
- Creating a Web Site
- Creating an Application Pool
- Maintaining an Application Pool
- Lab: Configuring IIS 7.0 Web Sites and Application Pools

Skills:

- Describe how the application pool is used.
- Describe authentication types used in IIS 7.0.
- Configure the authentication types for Web sites and application pools.
- Create a Web site and a corresponding virtual directory.
- Create a new application pool.
- Configure an existing application pool.

Configuring IIS 7.0 Application Settings

- The students will be introduced configuring application settings using ASP.NET.
- Configuring Application Settings
- Configuring ASP.NET Security
- Lab: Configuring IIS 7.0 Application Settings

Skills:

- Describe ASP.NET application development settings.
- Configure ASP.NET.
- Configure ASP.NET Web application development settings.

- Configure a Web Server to host multiple Web applications with separate application pools using ASP.NET.
- Configure ASP.NET security.

Configuring IIS 7.0 Modules

- The students will be introduced to configuring IIS modules.
- Configuring Native Modules
- Configuring Managed Modules
- Lab: Configuring IIS 7.0 Modules

Skills:

- Configure native modules.
- Configure managed modules.
- Edit managed and native modules.

Securing the IIS 7.0 Web Server and Web Sites

- The students will be introduced to configuring a secure Web Server and Web sites and to using logging as a tool for monitoring security.
- Configuring Secure Web Sites and Servers
- Configure Other Aspects of Web Server Security
- Configuring Logging for IIS 7.0
- Lab: Securing IIS 7.0 Web Server and Web Sites

Skills:

- Configure a secure Web Server.
- Configure authorization for IIS Web Server.
- Configure authentication for IIS Web Server.
- Configure access for IIS Web Server.
- Configure a secure Web site.
- Configure logging for IIS 7.0.

Configuring Delegation and Remote Administration

- The students will be introduced to assigning rights to Web site users and configuring users to serve as remote administrators of a server and its corresponding Web sites.
- Configuring Remote Administration
- Configuring Delegated Administration
- Configuring Feature Delegation
- Lab: Configuring Delegation and Remote Administration

Skills:

- Describe remote administration service.
- Configure remote administration.
- Describe the new distributed, configuration system, applicationHost.config.
- Describe how configuration files are distributed down to the application level Web.config for IIS settings.
- Configure delegated administrative rights to a Web site.
- Configure feature delegation for a specific Web site.



Using Command-line and Scripting for IIS 7.0 Administration

- The students will learn basic scripting methods for completing IIS 7.0 administrative tasks needed to maintain Web sites and Web servers.
- Tools for Running Administrative Tasks in IIS
- Executing Scripts for Administrative Tasks
- Managing IIS Task
- Lab: Using Command-line and Scripting for IIS 7.0 Administration

Skills:

- Maintain Web servers with command line tools.
- Identify when and how to run scripts using PowerShell.
- Identify when and how to run scripts using the Microsoft Web Administration Provider.
- Identify when and how to run scripts using command-line.
- Execute an IIS script using PowerShell.
- Execute an IIS script using Microsoft Web Administration Provider.
- Execute an IIS script using command-line.
- Automate IIS administration tasks using scripts.
- Navigate IIS tasks using WMI Provider and appcmd.exe.

Tuning IIS 7.0 for Improved Performance

- The students will be introduced to techniques for improving Web Server performance.
- Implementing Best Practices for Improving IIS Performance
- Configuring Options to Improve IIS Performance
- Managing Application Pools to Improve IIS Performance
- Lab: Tuning IIS 7.0 for Performance

Skills:

- Describe best practices for improving performance.
- Configure options to improve IIS performance.
- Manage application pools to improve IIS performance.

Ensuring Web Site Availability with Web Farms

- The students will learn to ensure Web site availability in a Web farm topology.
- Backing Up and Restoring Web Sites
- Working with Shared Configurations
- Configuring Network Load Balancing for IIS
- Lab: Ensuring Web Site Availability with Web Farms

Skills:

- Back up an IIS 7.0 Web site.
- Restore an IIS 7.0 Web site.
- Enable shared configurations.
- Ensure Web site availability using Network Load Balancing.

Troubleshooting IIS 7.0 Web Servers

- The students will learn to use audit logs to troubleshoot common Web Server related authentication, authorization, communication, and configuration error messages.
- Using IIS 7.0 Logging for Troubleshooting
- Troubleshooting Authentication
- Troubleshooting Authorization
- Troubleshooting Communication
- Troubleshooting Configuration
- Lab: Troubleshooting IIS 7.0 Web Servers

Skills:

- Audit logs to troubleshoot IIS.
- Troubleshoot authentication based on common error messages.
- Troubleshoot authorization types for IIS 7.0.
- Troubleshoot communication when managing a Web Server.
- Troubleshoot configuration based on common error messages.



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Cost:

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Platform:

Windows

Numbers:

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Configuring and Troubleshooting Windows Server 2008 Terminal Services

COMPUTER TRAINING

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Course No. 6428

2 Days

Target Audience:

This course provides students with the knowledge and skills to configure, manage, monitor, and troubleshoot a Terminal Services (TS) environment. It is intended for Technology Specialists in an enterprise environment.

Pre-requisites:

Before attending this course, students must have the following pre-requisites:

- Completion of Course 6420.
- Windows Server 2003 Terminal Server experience in an enterprise environment.
- Experience administering and supporting TS.
- Experience administering and supporting Windows Server 2003.
- Experience administering certificate services.
- Network + certification.

Purpose:

After completing this course, students will be able to configure TS settings; identify the appropriate licensing scope and configure licensing; identify when to use licensing modes; configure TS licensing for per-user and device licenses; manage the licensing lifecycle; configure TS connection properties; troubleshoot TS connection properties; identify the considerations for types of applications; install applications on TS; configure TS Web Access; configure TS Easy Print; install and configure TS Web Access role service; configure a TS session broker for a load-balanced TS farm; configure TS Gateway properties; monitor active connections; troubleshoot a TS Gateway; manage TS connections; resolve client connectivity issues using Remote Desktop Connection (RDC); monitor TS connections; identify monitoring methods; configure resource allocation policies using

Microsoft Official
Curriculum

At the end of the course the delegate will be able to complete the following:

Configuring Terminal Services Core Functionality

- This module explains how to install TS and configure core functionality.
- Configuring TS Role
- Configuring TS Settings
- Lab: Configuring TS Core Functionality

Skills:

- Install and configure the TS role.
- Configure TS settings.

Configuring and Managing Terminal Services Licensing

- This module explains how to configure and manage TS Licensing.
- Configuring TS Licensing
- Managing TS Licenses
- Lab: Configuring and Managing TS Licensing

Skills:

- Identify the appropriate licensing scope.
- Configure the license server scope: forest, domain, and workgroup licensing.
- Identify when to use the per-user and per-device licensing modes.
- Install the TS Licensing Role.
- Configure TS licensing for per-user licenses.
- Identify considerations when configuring TS licensing for per-device licenses.
- Manage the licensing lifecycle.

Configuring and Troubleshooting Terminal Services Connections

- This module explains how to configure and troubleshoot connection properties using TS.
- Configuring TS Connection Properties
- Configuring TS Properties Using Group Policy
- Troubleshooting TS
- Lab: Configuring and Troubleshooting TS Connections

Skills:

- Configure TS connection properties using the TS console.
- Configure TS properties using Group Policy.
- Troubleshoot TS connection properties for a single-user.
- Troubleshoot TS connection properties for multiple- users.

Configuring Terminal Services Resources

- This module explains how to configure TS Easy Print and TS RemoteApp.
- Installing Applications
- Configuring Remote Applications
- Configuring Printers
- Lab: Configuring TS Resources

Skills:

- Identify the considerations for the types of applications that can be installed in a TS environment.
- Install applications in a TS environment.
- Configure TS Web Access to make TS RemoteApp programs available through a Web site.
- Configure TS Easy Print.

Configuring Terminal Services Web Access

- This module explains how to configure TS Web Access.
- Installing the TS Web Access Role Service
- Lab: Configuring TS Web Access

Skills:

- Install the TS Web Access role service.
- Configure TS Web Access.
- Configure TS RemoteApp programs for TS Web Access.

Configuring Session Broker

- This module explains how to configure TS Session Broker.
- Configuring a TS Session Broker for a Load-Balanced Farm
- Lab: Configuring a Session Broker

Skills:

- Configure a TS session broker for a load-balanced TS farm.

Configuring and Troubleshooting Terminal Services Gateway

- This module explains how to configure and troubleshoot TS Gateway.
- Configuring TS Gateway
- Troubleshooting TS Gateway Connectivity Issues
- Lab: Configuring and Troubleshooting TS Gateway

Skills:

- Define when to use TS Gateway.
- Configure TS Gateway properties.
- Monitor active connections using TS Gateway console.
- Troubleshoot a TS Gateway connectivity issue.

Managing and Monitoring Terminal Services

- This module explains how to manage and monitor TS connections post installation and configuration. The students will also be introduced to configuring WSRM for TS.
- Managing Current TS Connections
- Monitoring TS Connections
- Configuring WSRM for TS
- Lab: Managing and Monitoring TS

Skills:

- Manage TS connections to ensure availability of the TS.
- Resolve client connectivity issues by verifying end-user configuration using RDC.
- Monitor TS connections to determine when to force client disconnect.
- Identify monitoring methods for TS role specific instances.
- Configure resource allocation policies using WSRM based on the environment.
- Monitor WSRM performance using the WSRM Monitoring TS tool.



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£700 plus VAT

Platform:

Windows

Numbers:

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Installing and Configuring the Windows Vista Operating System

COMPUTER TRAINING

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Course No. 5115

3 Days

Target Audience:

This course provides students with the knowledge and skills to install and configure Windows Vista desktops. It is designed for IT Professionals wishing to become technology specialists.

Pre-requisites:

Before attending this course, students must have the following pre-requisites:

- Familiarity with PC hardware and devices.
- Basic TCP/IP knowledge.
- Basic Windows and Active Directory knowledge.
- Experience with mapping network file shares.
- Experience with running commands from a command window.
- Experience with reviewing BIOS settings.
- It is recommended, but not required, that students have completed First Look Clinic 5056 and Hands-on-Lab 5057.

Purpose:

After completing this course, students will be able to install Windows Vista; upgrade to Windows Vista Ultimate Edition; configure post-installation system settings; configure basic networking; configure advanced networking; configure user account security; configure network security; configure Internet Explorer 7.0.

At the end of the course the delegate will be able to complete the following:

Installing Windows Vista

- This module describes the new features of the Windows Vista operating system and then explains how to perform a clean installation. This module also explains how to install and configure Windows Vista device drivers.
- Introduction to Windows Vista
- Performing a Clean Installation of Windows Vista
- Installing and Configuring Windows Vista Device Drivers
- Lab: Installing Windows Vista

Skills:

- Describe the Windows Vista operating system.
- Perform a clean installation of Windows Vista.
- Install and configure Windows Vista device drivers.

Upgrading and Migrating to Windows Vista Ultimate Edition

- This module explains how to upgrade and migrate to Windows Vista Ultimate edition from previous versions of Windows and from other Windows Vista editions.
- Upgrading and Migrating to Windows Vista from a Previous Version of Windows
- Upgrading Between Windows Vista Editions
- Lab: Upgrading and Migrating to Windows Vista Ultimate Edition

Skills:

- Upgrade or migrate to Windows Vista from a previous version of Windows.
- Upgrade or migrate between Windows Vista editions.

Configuring Post-Installation System Settings

- This module explains how to configure the Windows Aero Experience and the Accessibility features of Windows Vista. This module also explains how to configure Parental Controls.
- Configuring the Windows Aero Experience
- Configuring Accessibility Features
- Configuring Parental Controls
- Lab: Configuring Post-Installation Options

Skills:

- Configure the Windows Aero experience.
- Configure the accessibility features of Windows Vista.
- Configure Windows Vista Parental Controls.

Sharing Files by Using Windows Vista

- This module explains how to use Windows Vista to share files with others and also describes how to manage the various file types that Windows Vista supports.
- Sharing Data with Others
- Managing Windows Vista Files
- Lab: Sharing Files by Using Windows Vista

Skills:

- Share data with others.
- Manage Windows Vista files.

Configuring Advanced Networking

- This module explains how to connect Windows Vista to a network and also explains how to configure and troubleshooting the Remote Access features of Windows Vista.
- Configuring Network Connectivity
- Configuring Remote Access
- Lab: Configuring Advanced Networking

Skills:

- Configure network connectivity.
- Configure Remote Access.

Configuring User Account Security

- This module explains how to configure and troubleshoot User Account Control in Windows Vista.
- Configuring User Account Control
- Troubleshooting User Account Control
- Lab: Configuring User Account Security

Skills:

- Configure Windows Vista User Account Control.
- Troubleshoot User Account Control.

Configuring Network Security

- This module explains how to configure the Windows Defender and Windows Firewall applications in Windows Vista.
- Configuring Windows Defender in Windows Vista
- Configuring Windows Vista Firewall Settings
- Lab: Configuring Network Security

Skills:

- Configure Windows Defender in Windows Vista.
- Configure the Windows Firewall settings.

Configuring Internet Explorer 7.0

- This module explains how to configure the Internet Explorer 7.0 options and explains how to configure the dynamic security settings.
- Configuring Internet Explorer 7.0
- Configuring Dynamic Security for Internet Explorer 7.0
- Lab: Configuring Internet Explorer 7.0

Skills:

- Configure Internet Explorer 7.0.
- Configure dynamic security for Internet Explorer 7.0.





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Platform:

Windows

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Configuring Windows Vista Mobile Computing and Applications

COMPUTER TRAINING

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WINDOWS

Course No. 5116

2 Days

Target Audience:

This course provides students with the knowledge and skills to successfully configure mobile computers and applications that run Windows Vista. It is intended for IT Professionals wishing to become technology specialists.

Pre-requisites:

Before attending this course, students must have the following pre-requisites:

- Completed 5115: Installing and Configuring the Windows Vista Operating System, or have equivalent knowledge and skills.
- Familiarity with PC hardware and devices.
- Basic TCP/IP knowledge.
- Basic Windows and Active Directory knowledge.
- Experience with mapping network file shares.
- Experience with running commands from a command window.
- Experience with reviewing BIOS settings.
- It is recommended, but not required, that students have completed First Look Clinic 5056 and Hands-on-Lab 5057.

Purpose:

After completing this course, students will be able to maintain and optimize Windows Vista systems; configure Windows Vista Media Applications; configure Windows Vista Productivity Applications.

At the end of the course the delegate will be able to complete the following:

Maintaining and Optimizing Windows Vista Systems

- This module explains how to use the performance tools and diagnostics tools to maintain and optimize Windows Vista systems. This module also explains how to configure Windows Update.
- Maintaining Performance by Using Windows Vista Performance Tools
- Optimizing Windows by Using Windows Vista Diagnostics Tools
- Configuring the Windows Update Tool
- Lab: Maintaining and Optimizing Windows Vista

Skills:

- Maintain performance by using Windows Vista performance tools.
- Optimize reliability by using Windows Vista diagnostic tools.
- Configure the Windows Update tool.

Configuring Windows Vista Media Applications

- This module explains how to configure the Windows Media Player and the Windows Media Center.
- Configuring Windows Vista Media Player
- Configuring Windows Media Center
- Lab: Configuring and Troubleshooting Windows Vista Media Applications

Skills:

- Configure Windows Vista Media Player.
- Configure Windows Media Center.

Configuring Windows Vista Productivity Applications

- This module explains how to configure the productivity tools included with every edition of Windows Vista.
- Configuring Windows Sidebar
- Configuring Windows Mail
- Configuring Windows Meeting Space
- Configuring Windows Calendar
- Configuring Windows Fax and Scan
- Lab: Configuring Windows Vista Productivity Applications

Skills:

- Configure Windows Sidebar.
- Configure Windows Mail.
- Configure Windows Meeting Space.
- Configure Windows Calendar.
- Configure Windows Fax and Scan.

Configuring Mobile Computers

- This module explains how to configure the settings in Windows Vista specifically for mobile computers, and also explains how to configure power management.
- Configuring Mobile Computer Settings
- Configuring Mobile Devices
- Configuring Power Options
- Lab: Configuring Mobile Computers

Skills:

- Configure mobile computer settings.
- Configure mobile devices.
- Configure power options.

Configuring Windows Vista Tablet PC Settings

- This module explains how to configure the options in Windows Vista specifically for a Tablet PC.
- Configuring Windows Vista Tablet PC Settings
- Configuring Pen and Input Devices
- Lab: Configuring a Windows Vista Tablet PC

Skills:

- Configure Windows Vista Tablet PC settings.
- Configure Pen and Input Devices.

Networking Mobile Computers

- This module explains how to configure wireless networking and how to use Windows Vista tools to use offline files.
- Networking Without Wires
- Connecting to a Wireless Network
- Working with Offline Files
- Lab: Networking Mobile Computers

Skills:

- Configure networks without wires.
- Configure a connection to a wireless network.
- Configure Offline Files.





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Platform:

Windows

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Course No. 6435

5 Days

Target Audience:

This course will provide students with an understanding of how to design a Windows Server 2008 Network Infrastructure that meets business and technical requirements for network services. It is intended for IT professionals interested in becoming a Windows Server 2008 Enterprise Administrator using network solutions.

Pre-requisites:

Before attending this course, students must have the following prerequisites:

- Active Directory Technology Specialist level skills and concepts.
- Network Infrastructure Technology Specialist level skills and experience.
- Applications Infrastructure Technology Specialist level skills and experience.
- Windows Vista Technology Specialist level skills and experience.
- Intermediate understanding of networking concepts.
- Intermediate understanding of security best practices.
- Intermediate understanding of server and network hardware.

Purpose:

After completing this course, students will be able to describe key components of network infrastructure design; describe how to design a secure network; design a plan for allocating IP addresses; design a network topology; describe the internal considerations for network security; design an appropriate name resolution system that incorporates Domain Name System (DNS); optimize a name resolution system that incorporates DNS and Windows Internet Name Service (WINS); design a solution for network access; design a Network Access Protection (NAP) solution; design a solution for operating system deployment and maintenance; design the deployment of file services; design print services in Windows Server 2008; design high availability for applications and services..



Designing a Windows Server 2008 Network Infrastructure

At the end of the course the delegate will be able to complete the following:

Overview of Network Infrastructure Design

- This module describes the key components of network infrastructure design.
- Preparing for Network Infrastructure Design
- Designing the Network Topology
- Designing Network Infrastructure for Virtualization
- Designing a Change Management Structure for a Network
- Lab: Designing Network Infrastructure in Windows Server 2008

Skills:

- Describe the network infrastructure design.
- Design the network topology.
- Design network infrastructure for virtualization.
- Design a change management structure for a network.

Designing Network Security

- This module explains how to design a secure network.
- Overview of Network Security Design
- Creating a Network Security Plan
- Identifying Threats to Network Security
- Analyzing Security Risks
- Defense-in-Depth Model Overview
- Lab: Designing a Network Security Plan

Skills:

- Describe the security design process.
- Describe the components of a security plan.
- Describe how to identify threats.
- Describe how to assess risk.
- Describe the defense-in-depth model.

Designing IP Addressing

- This module describes how to design a plan for allocating IP addresses to workstations and servers.
- Designing an IPv4 Addressing Scheme
- Designing an IPv6 Addressing Scheme
- Designing DHCP Implementation
- Designing DHCP Configuration Options
- Lab: Designing IP Addressing in Windows Server 2008

Skills:

- Describe how to integrate IPv4 and IPv6.
- Describe how to allocate IPv4 and IPv6 addresses.
- Describe how to implement DHCP placement.
- Describe how to determine DHCP options

Designing Routing and Switching

- This module explains how to design a network topology.
- Preparing for Designing a Network Routing Topology
- Selecting Network Devices
- Designing Internet Connectivity and Perimeter Networks
- Designing Routing Communications
- Evaluating Network Performance
- Lab: Designing a Network Routing Topology

Skills:

- Prepare for designing a network routing topology.
- Design the placement of routers.
- Design a perimeter network.
- Design routing communications.
- Evaluate network performance.

Designing Security for Internal Networks

- This module explains the internal considerations for network security and how they can be addressed.
- Designing Windows Firewall Implementation
- Overview of IPSec
- Designing IPSec Implementation
- Lab: Designing a Secure Internal Network

Skills:

- Describe how Windows Firewall can be used to secure networks
- Describe how IPSec can be used to secure networks.
- Design an IPSEC implementation.

Designing Name Resolution

- This module explains how to design an appropriate name resolution system that incorporates DNS.
- Collecting Information for a Name Resolution Design
- Designing a DNS Server Strategy
- Designing a DNS Namespace
- Designing DNS Zone Implementation
- Designing Zone Replication and Delegation
- Lab: Designing a Name Resolution Strategy in Windows Server 2008

Skills:

- Determine the information required to plan name resolution.
- Describe how to design a DNS server strategy.
- Describe how to design a DNS namespace
- Describe how to design a DNS zone strategy.
- Describe how to design a DNS zone replication strategy.

Designing Advanced Name Resolution

- This module explains an appropriate name resolution system that incorporates DNS and WINS.
- Optimizing DNS Queries
- Designing DNS for High Availability
- Designing a WINS Name Resolution Strategy
- Lab: Designing a Name Resolution Strategy in Windows Server 2008

Skills:

- Optimize DNS resolution.
- Design DNS for high availability.
- Design a WINS Name resolution strategy.

Planning and Deploying the Application Virtualization Management System

- This module explains how to design a solution for network access.
- Gathering Data for Designing Network Access Solutions
- Securing and Controlling Network Access
- Designing Remote Access Services
- Designing RADIUS Authentication with Network Policy Services
- Designing Wireless Access
- Lab: Designing a Network Access Solution

Skills:

- Describe how to gather data for designing network access solutions.
- Describe how to secure and control network access.
- Describe how to design remote access services.
- Describe how to design a RADIUS solution.
- Describe how to design wireless access.

Designing Network Access Protection

- This module explains how to design a NAP solution.
- Designing the NAP Platform Architecture
- NAP Architecture
- NAP Enforcement
- Designing NAP Policy
- Designing NAP Enforcement and Remediation
- Lab: Designing Network Access Protection

Skills:

- Describe how to design the NAP platform architecture.
- Describe NPS design for NAP.
- Describe how to design NAP enforcement point and client component requirements.
- Describe IPSec based NAP.

Designing Operating System Deployment and Maintenance

- This module explains how to design a solution for operating system deployment and maintenance.
- Determining Operating System Deployment Requirements
- Deploying an Operating System by Using WDS
- Planning for the Creation and Modification of Images
- Designing Multicast Transmission of Images
- Lab: Designing Operating System Deployment and Maintenance

Skills:

- Determine operating system deployment requirements
- Describe operating system deployment using Windows Deployment Services.
- Plan the creation and modification of images.
- Design multicast transmission of images.

Designing File Services and DFS in Windows Server 2008

- This module explains how to design the deployment of file services and DFS.
- Designing File Services
- Designing DFS
- Designing the FSRM Configuration
- Lab: Designing File Services and DFS in Windows Server 2008

Skills:

- Describe the design of file services.
- Describe the design of Distributed File System (DFS).
- Describe the design of File Server Resource Manager (FSRM).

Designing High Availability in Windows Server 2008

- This module explains how to design high availability for applications and services.
- Overview of High Availability
- Designing Network Load Balancing for High Availability
- Designing Failover Clustering for High Availability
- Designing Geographically Dispersed Failover Clusters
- Lab: Designing High Availability in Windows Server 2008

Skills:

- Describe the need for high availability.
- Describe how to design Network Load Balancing for high availability
- Describe how to design Failover Clustering for high availability
- Describe how to design geographically dispersed failover clustering.

Designing Print Services in Windows Server 2008

- This module explains how to design print services in Windows Server 2008.
- Overview of a Print Services Design
- Windows Server 2008 Printing Features
- Designing Print Services
- Lab: Designing Shared Resources in Windows Server 2008

Skills:

- Describe the print services design.
- Describe Windows Server 2008 printing features.
- Design print services.



Designing a Windows Server 2008 Active Directory Infrastructure and Services

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Course No. 6436

5 Days

Target Audience:

This course will provide students with an understanding of how to design an Active Directory Infrastructure in Windows Server 2008. It is intended for Windows Server 2008 IT professionals who want to become Windows Server 2008 enterprise administrators and move into the role of designing Active Directory Domain Services (AD DS) environments.

Pre-requisites:

Before attending this course, students must have the following prerequisites:

- Completion of Microsoft Certified Technology Specialist (MCTS) Windows Server 2008 curriculum or equivalent knowledge and skills.
- Knowledge of Windows Vista Terminal Services or Deployment Terminal Services.

Purpose:

After completing this course, students will be able to design an Active Directory infrastructure and services in Windows Server 2008.

At the end of the course the delegate will be able to complete the following:

Designing an Active Directory Forest Infrastructure in Windows Server 2008

- This module explains how to design an Active Directory forest based on business and technical requirements.
- Determining Active Directory Forest Design Requirements
- Designing an Active Directory Forest
- Designing Active Directory Forest Trusts
- Managing the Active Directory Schema
- Understanding Windows Time Service
- Lab : Designing an Active Directory Forest Infrastructure in Windows Server 2008

Skills:

- Determine Active Directory Forest Design Requirements.
- Design an Active Directory Forest.
- Design Active Directory Forest Trusts.
- Manage the Active Directory Schema.
- Understand Windows Time Service.

Designing an Active Directory Domain Infrastructure in Windows Server 2008

- This module explains how to design an Active Directory domain infrastructure based on business and technical requirements.
- Designing Active Directory Domains
- Designing the Integration of DNS Namespaces
- Designing the Placement of Domain Controllers
- Designing Active Directory Domain Trusts
- Lab: Designing an Active Directory Domain Infrastructure in Windows Server 2008

Skills:

- Design Active Directory domains
- Design the integration of DNS namespaces
- Design the placement of domain controllers
- Design Active Directory domain trusts

Designing Active Directory Sites and Replication in Windows Server 2008

- This module explains how to design Active Directory sites and replication roles.
- Designing Active Directory Sites
- Designing AD DS Replication
- Designing the Placement of Domain Controllers in AD DS Sites
- Lab: Designing AD DS Sites and Replication in Windows Server 2008

Skills:

- Design Active Directory sites
- Design Active Directory replication
- Design the placement of domain controllers in Active Directory sites

Designing Active Directory Domain Administrative Structures in Windows Server 2008

- This module explains how to design Active Directory domain administrative structures in Windows Server 2008.
- Planning an Active Directory Domain Administrative Structure
- Designing Organizational Unit Structures
- Designing an Active Directory Group Strategy
- Planning for User and Computer Account Management
- Lab: Designing AD DS Administrative Structures in Windows Server 2008

Skills:

- Plan an Active Directory domain administrative structure
- Design organizational unit structures
- Design an Active Directory group strategy
- Plan for User and Computer Account management

Designing Active Directory Group Policy in Windows Server 2008

- This module explains how to design Active Directory Group Policies in Windows Server 2008.
- Gathering Information for Group Policy Deployment
- Designing Group Policy Settings
- Designing Group Policy Processing
- Designing Group Policy Management
- Lab: Designing Active Directory Administrative Structures in Windows Server 2008

Skills:

- Gather information for designing the Group Policy deployment.
- Design Group Policy settings
- Design Group Policy processing
- Design Group Policy management

Designing AD DS Security in Windows Server 2008

- This module explains how to design AD DS security in Windows Server 2008.
- Designing Active Directory Security Policies
- Designing Active Directory Domain Controller Security
- Designing Administrator Security and Delegation
- Lab: Designing AD DS Security in Windows Server 2008

Skills:

- Design Active Directory security policies
- Design Active Directory domain controller security
- Design administrator security and delegation



Designing Active Directory High Availability in Windows Server 2008

- This module explains how to design Active Directory high availability and disaster recovery in Windows Server 2008.
- Understanding AD DS High Availability
- Designing an AD DS High Availability Strategy
- Lab: Designing AD DS Availability in Windows Server 2008

Skills:

- Understand AD DS high availability
- Design an AD DS high availability strategy

Designing AD DS Disaster Recovery in Windows Server 2008

- This module explains how to design AD DS disaster recovery in Windows Server 2008.
- Designing an Active Directory Database Maintenance Strategy
- Designing an Active Directory Backup and Recovery Strategy
- Designing an AD DS Monitoring Strategy
- Lab: Designing Active Directory Disaster Recovery in Windows Server 2008

Skills:

- Design an Active Directory database maintenance strategy
- Design an Active Directory backup and recovery strategy
- Design an Active Directory monitoring strategy

Designing Public Key Infrastructure in Windows Server 2008

- This module explains how to design Public Key Infrastructure in Windows Server 2008.
- Overview of PKI and Active Directory Certificate Services
- Designing a Certification Authority Hierarchy
- Designing Certificate Template
- Designing Certificate Distribution and Revocation
- Lab: Designing Public Key Infrastructure in Windows Server 2008

Skills:

- Describe PKI and Active Directory Certificate Services
- Design a Certification Authority hierarchy
- Design certificate template
- Design certificate distribution and revocation

Designing an AD RMS Infrastructure in Windows Server 2008

- This module explains how to design AD RMS infrastructure in Windows Server 2008.
- Gathering Information for an Active Directory Rights Management Services (AD RMS) Design
- Designing AD RMS Clusters and Access
- Designing AD RMS Backup and Recovery
- Lab: Designing an AD RMS Infrastructure in Windows Server 2008

Skills:

- Gather information for an AD RMS design
- Design AD RMS clusters and access
- Design AD RMS backup and recovery

Designing an Active Directory Federation Services Implementation in Windows Server 2008

- This module explains how to design an Active Directory Federation Services (AD FS) implementation.
- Overview of an Active Directory Federation Services Design
- Designing a Business-to-Business Federation
- Designing Active Directory Federation Services Claims and Applications
- Lab: Designing an Active Directory Federation Services Implementation in Windows Server 2008

Skills:

- Describe an AD FS design.
- Design a business-to-business federation.
- Design AD FS claims and applications.

Designing an AD LDS Implementation

- This module explains how to design an AD LDS implementation.
- AD LDS Deployment Scenarios
- Overview of an AD LDS Implementation Design
- Designing AD LDS Schema and Replication
- Integrating AD LDS with AD DS
- Lab: Designing an AD LDS Implementation

Skills:

- Describe the AD LDS deployment scenarios
- Describe the AD LDS implementation design
- Design AD LDS schema and replication
- Integrate AD LDS with AD DS

Designing Active Directory Migrations in Windows Server 2008

- This module explains how to design Active Directory migrations in Windows Server 2008.
- Choosing an Active Directory Migration Strategy
- Designing a Domain Upgrade Strategy
- Designing a Domain Restructure Strategy
- Lab: Designing Active Directory Migrations in Windows Server 2008

Skills:

- Choose an Active Directory migration strategy
- Design a domain upgrade strategy
- Design a domain restructure strategy



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LONDON BATH OR ONSITE

PARTICULARS

Cost:

£1550 plus VAT

Platform:

Windows

Numbers:

Maximum of 6 people on each course at F1's training facilities in London and Bath



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WINDOWS

Course No. 6437

3 Days

Target Audience:

This course will provide students with an understanding of how to design application infrastructure solutions based on Windows Server 2008 to meet varying business and technical requirements. It is intended for IT professionals interested in becoming a Windows Server 2008 Enterprise Administrator with a focus on application infrastructure such as Web and Terminal Services.

Pre-requisites:

Before attending this course, students must have the following prerequisites:

- Intermediate understanding of networking.
- Intermediate understanding of network operating systems.
- Intermediate understanding of security best practices.
- Intermediate knowledge of server and network hardware.
- Conceptual understanding of Active Directory (AD).
- Hands-on experience with more than one application service such as: IIS; Terminal Services; Windows Media Services; Virtual Server; Hyper-V; System Center Virtual Machine Manager.

Purpose:

After completing this course, students will be able to design IIS 7 Web farms; optimize IIS 7 for performance and stability; design IIS 7 for security; design IIS 7 for reliability, recovery, and monitoring; design and prepare a Terminal Services infrastructure; design a Terminal Services maintenance strategy; plan and configure a Windows Media Services infrastructure for live and on-demand delivery; implement virtualization to consolidate servers, support legacy applications, and create a test environment; determine virtualization appropriateness and virtual server provisioning.



Designing a Windows Server 2008 Applications Infrastructure

At the end of the course the delegate will be able to complete the following:

Designing IIS Web Farms

- This module teaches students the process of designing IIS Web Farms with Windows Server 2008 and IIS 7.
- Overview of Hardware and Platform Options
- Design Web Farm Availability and Scalability
- Design Content Storage
- Lab: Designing IIS Web Farms

Skills:

- Design an appropriate platform.
- Design Web farm availability and scalability.
- Design content storage.

Optimizing IIS Performance and Stability

- In this module, students will learn about optimizing IIS performance and stability.
- Designing Application Pools
- Designing Script Mapping
- Designing Bandwidth Allocation
- Design Web Site Logging
- Lab: Optimizing IIS Performance and Stability

Skills:

- Plan new application pools.
- Plan to deploy script mapping.
- Plan bandwidth allocation per site or application.
- Plan Web site logging.

Designing IIS Security

- In this module, students will learn to establish and maintain very tight security using Microsoft IIS 7.
- Design and Verify Transport Security
- Design Authentication and Authorization
- Design Delegation Administration
- Lab: Designing IIS 7 Security

Skills:

- Design and verify Transport Security (SSL).
- Plan site authentication and authorization.
- Plan delegation permissions and administrative access.

Design IIS Maintenance and UDDI

- In this module, students will learn how to plan for an IIS installation, taking into account these new features. They will also learn how to deploy UDDI services.
- Designing Internet Information Services Backup and Recovery
- Specify Monitoring Requirements
- Deploying UDDI Services
- Tuning and Troubleshooting IIS 7
- Lab: Design IIS Maintenance and UDDI

Skills:

- Design a Web server backup and recovery plan.
- Design for and utilize the IIS management pack for System Center.
- Design and test UDDI services.
- Troubleshoot IIS caching behaviour.

Designing a Terminal Services Infrastructure

- In this module, students will learn how to design a terminal services infrastructure including how to design a terminal services licensing strategy and how to design for remote access with TS Gateways, TS Session Broker, RemoteApp programs, and TS Web Access.

- Design Terminal Services Licensing
- Specify Terminal Services Connection Properties
- Design Device Redirection
- Design Terminal Services Gateways
- Design Terminal Services Broker
- Design RemoteApp Programs
- Design Web Access
- Lab: Designing a Terminal Services Infrastructure

Skills:

- Design Terminal Services (TS) Licensing.
- Specify Terminal Services Connection Properties.
- Design Device Redirection.
- Design Terminal Services Gateways.
- Design Terminal Services Broker.
- Design RemoteApp Programs.
- Design Web Access.

Designing a Terminal Services Maintenance Strategy

- In this module, students will be introduced to design and implementation planning using Windows System Resource Manager (WSRM) policies for application resource and reporting.
- Design Windows System Resource Manager (WSRM) Policies for Application Resource and Reporting
- Specify Group Policy Settings for Terminal Servers
- Design High Availability
- Specify Monitoring Requirements
- Specify Maintenance and Recovery
- Lab: Designing Terminal Services Maintenance

Skills:

- Design Windows System Resource Manager (WSRM) policies for application resource and reporting.
- Specify Group Policy settings for terminal servers.
- Design high availability (both terminal servers and session directory servers).
- Specify monitoring requirements.
- Specify maintenance and recovery.

Design Windows Media Services Infrastructure Administration

- In this module, students will learn about designing Windows Media Services in Windows Server 2008.
- Design Windows Media for Live Streaming
- Windows Media Services for On-Demand Content
- Improving Performance for On-Demand Content
- Monitoring Windows Media Services
- Lab: Design a Windows Media Services Infrastructure

Skills:

- Design Windows Media Services infrastructure for live streaming.
- Design Windows Media Services infrastructure for on-demand content.
- Troubleshoot poor performance of on-demand content.
- Plan for monitoring of Windows Media Services.

Design Virtualization Infrastructure

- In this module, students will implement virtualization to consolidate servers, deploy branch office infrastructure servers, support legacy applications, and create a test environment.
- Virtualization of a Test Server Environment
- Virtualization and Migration of Legacy Applications
- Design and Test a Virtualized Development Environment
- Lab: Design Virtualization Infrastructure

Skills:

- Create a design document for server consolidation and virtualization.
- Create a design document for legacy server hosting.
- Identify and document key business and technical requirements for creating an isolated development environment.

Designing Virtualization Provisioning

- In this module, students will learn how to determine virtualization appropriateness and virtual server provisioning.
- Design Virtual Server Provisioning Workflow Model
- Evaluate Appropriateness for Virtualization
- Evaluate Customization to Standard Configuration
- Design Deployment for Virtualization
- Lab: Design Virtualization Provisioning

Skills:

- Design virtual server provisioning workflow model.
- Evaluate appropriateness for virtualization.
- Evaluate customization to standard configuration.
- Design Windows Deployment Services.



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