

## Windows Server® 2008 Active Directory Domain Services: Hands-On - 4 Days

*Course 962 Overview*

- You Will Learn How To**
- Install, manage and secure Active Directory Domain Services (AD DS)
  - Restructure existing domains and migrate to Windows Server 2008 Active Directory
  - Troubleshoot domain creation and manage Flexible Single Master Operation (FSMO) failures
  - Configure Active Directory replication topology with sites
  - Leverage Read-Only Domain Controllers (RODC) to implement database security
  - Lessen the server attack surface with Windows Server Core
- Course Benefits** Windows Server 2008 Active Directory Domain Services includes features that allow organizations to simplify and secure deployment, and to administer AD DS more efficiently. In this comprehensive hands-on course, you gain the essential skills required to effectively manage and secure a high-availability AD enterprise and ensure a successful migration to Windows Server 2008 Active Directory.
- Who Should Attend** IT professionals who want to enhance their skills to support a Windows Server 2008 Active Directory. A working knowledge of Windows Server 2003 AD or Course 960, "Windows Server 2008 Comprehensive Introduction," is assumed.
- Hands-On Training** Practical hands-on exercises provide experience installing, troubleshooting and securing the Active Directory. Exercises include:
- Revealing the AD infrastructure with DNS
  - Upgrading a Windows Server 2003 Active Directory
  - Troubleshooting domain controller creation
  - Removing superfluous domain and DC objects
  - Correcting Active Directory service failures
  - Configuring a reliable replication topology
  - Creating and managing an RODC
  - Installing domain services on Server Core
  - Recovering deleted objects from the AD Recycle Bin

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## Course 962 Outline

### Windows Server 2008 AD Fundamentals

- Exploring the AD infrastructure
- The role of DNS in an AD environment

### Deploying a Windows Server 2008 AD Upgrading existing AD environments

- Planning and preparing for the upgrade
- Analyzing supported paths
- Modifying the Active Directory with ADPREP

### Managing domain controllers with Server Manager

- Adding and removing server roles
- Enhancing server functionality with features
- Analyzing security logs with Event Viewer
- Monitoring current server status

### Creating the Active Directory Forest Building domain controllers and domains

- Troubleshooting domain creation
- Working with new DC PROMO features

### Cleaning up metadata from the AD

- Properly retiring domains and domain controllers
- Removing unwanted objects with NTDSUTIL

### Managing Flexible Single Master Operation (FSMO) roles

- Documenting the role holders
- Transferring roles between domain controllers
- Recovering from FSMO failures

### Planning and configuring Active Directory sites

- Creating sites to delineate the replication topology
- Defining site properties to control replication traffic
- Assigning clients to sites dynamically

### Enumerating domain logon service requirements

- Assessing the impact of Global Catalog availability
- Analyzing the role of DNS
- Building a Kerberos time convergence hierarchy

### Managing Active Directory Replication The fundamentals of multimaster replication

- Identifying the Update Sequence Numbers (USN)
- Monitoring replication data with administrative tools
- Resolving data collision issues

### Creating and customizing replication topology

- Analyzing the role of the Knowledge Consistency Checker (KCC)
- Monitoring intra- and inter-site replication
- Troubleshooting replication failures
- Controlling replication with site-links and site-link bridges
- Configuring site-link transitivity

### Distributed File System Replication (DFSR)

- Minimizing the impact on network traffic with Remote Differential Compression (RDC)
- Migrating SYSVOL replication to DFSR

### Recovering from Active Directory disasters

- Viewing and reanimating deleted objects
- Backing up and restoring the database
- Comparing authoritative and nonauthoritative restores

### Securing the Active Directory

#### Enforcing object security

- Configuring security settings
- Utilizing inheritance to control object access

#### Leveraging AD auditing

- Monitoring object access
- Minimizing the impact of auditing on domain controller performance

### Troubleshooting Active Directory services

- Diagnosing AD service failures
- Identifying AD service malfunctions with operating system tools
- Recovering from AD service failures

### Installing a Read-Only Domain Controller (RODC)

- Setting a password replication policy
- Adding DNS and the Global Catalog to an RODC
- Delegating RODC management

### Windows Server Core benefits

- Adding supported roles
- Building a domain controller on Server Core

### Windows Server 2008 Functionality Modes

#### Domain functionality levels

- Setting the domain functionality
- Analyzing features at various domain functionality modes

#### Forest functionality levels

- Forest functionality requirements
- Setting the functionality of the forest