

## Windows Server® 2008: A Comprehensive Hands-On Introduction - 4 Days

*Course 960 Overview*

- You Will Learn How To**
- Install, manage and support Windows Server 2008 R2 in your enterprise
  - Upgrade and administer domain controllers to build a reliable Active Directory
  - Configure server and workstation settings with PowerShell and Group Policies
  - Secure file system resources and restore servers from full backups
  - Create and maintain Organizational Units (OUs), users and groups
  - Streamline administration with virtualisation, Remote Desktop and Server Core

**Course Benefits** Windows Server 2008 provides organisations with a reliable and flexible enterprise infrastructure with dynamic management capabilities and location-independent, highly available resources. This course provides a solid foundation for managing and supporting Windows Server 2008. You gain the skills needed to harness the power of this sophisticated operating system and its numerous tools.

**Who Should Attend** Those responsible for setting up and maintaining Windows Server 2008 and those migrating from other operating systems. Those with strong experience in Windows Server 2003 should consider taking the advanced Windows Server 2008 courses.

**Hands-On Training** Practical exercises reinforce the knowledge you gain in class, including:

- Performing a full Windows Server 2008 installation
- Setting up an Active Directory domain controller
- Generating server reports with PowerShell scripts
- Recovering from disaster with a complete restore
- Securing files and folders with effective permissions
- Deploying FSRM to maximise accessibility
- Restricting users' desktop settings with Group Policies
- Imposing quotas and screening files
- Remotely running applications on RDS

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## Course 960 Outline

### Operating System Overview

- Benefits of upgrading to Windows Server 2008
- Analysing and implementing the components and features

### Installing and Upgrading Servers

#### Migrating to Windows Server 2008

- Selecting the appropriate deployment method
- Multiple Activation Key
- Key Management Server

### Adding and configuring server roles and features

- Keeping current with service packs and hotfixes
- Assigning roles with the Initial Configuration Tool (ICT)

### Building and Populating the Active Directory

#### Active Directory Domain Services (AD DS)

- Architecting the infrastructure with forests, domains, sites, domain controllers and replication
- Analysing Flexible Single Master Operations (FSMO) roles, functional levels, schema, DNS requirements

#### Constructing domain controllers

- Maximising security with Read-Only domain controllers
- Preparing forest and domain for upgrade with ADPREP

#### Organizational Units, users and groups

- Managing user account properties and profiles
- Optimising resource access with role-group nesting
- Publishing share and printer objects in the AD

### Configuring and Managing the System Leveraging the Windows Server Manager

- Event Viewer
- Windows Firewall
- Device Manager
- Task Scheduler
- Users and groups
- Services
- Centralising events from multiple server event logs

### Introducing PowerShell for administrative tasks

- PowerShell Integrated Scripting Environment (ISE)
- Creating multiple user accounts and groups

### Monitoring performance and ensuring reliability

- Remote Management (WinRM)
- Reliability Monitor
- Troubleshooting the OS with Windows Recovery Disk

### Implementing File System Security

#### Managing discs, full backup and restore

- Master Boot Record (MBR)
- GUID Partition Table (GPT)
- Saving the system and data with Windows Server Backup
- Recovering files, folders, applications and volumes

#### Securing files with Access Control Lists

- Encrypting File System (EFS)
- Bitlocker Drive Encryption
- Inherited vs. explicit Access Control Entries
- Detecting object access problems with auditing
- Calculating effective permissions

### Controlling Network Components and Services

#### Managing network settings

- Configuring the Network and Sharing Center
- Integrating IPv4 and IPv6 protocols
- DirectAccess
- VPN Reconnect

#### Sharing resources across the network

- Managing shared folders and printers
- Enabling Shadow Copies and Previous Versions for recovery
- Increasing file access responsiveness with BranchCache

#### File Server Resource Manager (FSRM)

- Creating quotas based on prebuilt templates
- Filtering extraneous files with screening technologies

### Administering the Active Directory Distributing and delegating administrative power

- Leveraging the Active Directory Best Practices Analyzer (BPA)

- Allocating responsibilities for simplified administration
- Investigating the object security model

### Configuring user and computer environments with Group Policies

- Planning the policy hierarchy with OUs
- Identifying common settings with the Group Policy Management Console (GPMC)
- Enhancing security with desktop lockdown
- Assigning and publishing applications

### Extending Windows Server 2008

#### Features

#### Creating synergy with enterprise technologies

- Consolidating multiple servers with Hyper-V
- Maximising security with Windows Server Core
- Keeping the network healthy with Network Access Protection (NAP)

#### Deploying Remote Desktop Services (RDS)

- Solving application compatibility issues
- RD Connection Broker
- RD Gateway
- RD Web Access
- Publishing applications with RD RemoteApp