

6433 - Planning and Implementing Windows Server 2008

Duration: 5 days

Overview:

This five day course is intended for IT Professionals who are interested in the knowledge and skills necessary to plan and implement a Windows Server 2008 and Windows Server 2008 R2 environment. It incorporates both the planning of the server infrastructure and key aspects of the implementation, management and maintenance of Active Directory and Network Infrastructure. It is the primary training resource for Exam 70-646 preparation (MCITP: Server Administrator certification). It covers the most important job tasks for Server Administrators who are responsible for the planning, operations, and day-to-day maintenance of Windows Server 2008 and Windows Server 2008 R2 servers in the enterprise.

Target Audience:

This course is intended for experienced IT Professionals looking to gain deeper insight and decision making knowledge for a variety of planning and implementation tasks typically carried out by Server Administrators. Also, this course is relevant for you if you have been working as a Server Administrator on a previous version of Windows Server and want to update your skills to the Windows Server 2008 and Windows Server 2008 R2 Sp1 environment. The course is intended to build on the student's existing skills in the areas of Active Directory and Network Infrastructure for Windows Server 2008, therefore it is not suitable for new or inexperienced server administrators.

Pre-requisites:

Before attending this course, students must possess the following skillset and knowledge:

- At least one year experience in implementing or contributing to server and

Module 1: Planning Server Deployment and Upgrade

Lessons

- Developing a Deployment Strategy
- Virtualisation Considerations
- Selecting an Automation Strategy
- Implementing an Automation Strategy

Lab : Planning and Implementing Server Deployment

- Planning a Windows Server 2008 R2 Deployment
- Modifying a Windows Server 2008 R2 Image
- Preparing to Deploy the Windows Server 2008 R2 Image

Module 2: Planning Server Management and Delegated Administration

Lessons

- Server Management Tools
- Decentralising Systems Administration

Lab : Implementing Role Based Systems Administration

- Create an administrative-level role group
- Creating an account management group
- Enable and configure auditing for sensitive groups

Module 3: Planning Network Addressing and Name Resolution

Lessons

- Provisioning IPv4 Addresses on Enterprise Networks
- Provisioning IPv6 Addresses on Enterprise Networks
- Transitioning to IPv6
- Provisioning DNS Services on Enterprise Networks

Lab : Planning and Implementing DHCP and DNS

- Planning the Deployment of DHCP and DNS Servers
- Implementing DNS
- Implementing DHCP

Module 4: Planning and Provisioning Active Directory Domain Services

Lessons

- Deploying Domain Controllers in Multi-Site Organisations
- Planning Administrative and Management Structures for AD DS
- Planning a Maintenance Strategy for AD DS
- Planning a Backup and Restore Strategy for AD DS

Lab : Planning and Provisioning AD DS

- Planning an Active Directory Structure
- Planning an AD DS Maintenance Strategy
- AD DS Backup and Recovery

Module 5: Planning Group Policy Strategy

Lessons

- Planning Group Policy Settings
- Planning Group Policy Assignment
- Planning the Management of Group Policy Objects

Lab : Planning and Implementing Group Policy

- Planning Group Policy
- Implementing the Proposed GPO Plan

Module 6: Planning Active Directory Certificate Services

Lessons

- Enterprise PKI Deployment and Administration
- Managing Certificate Templates
- Planning Certificate Enrolment and Revocation

Lab : Configuring Certificate Services

- Certificate Services Deployment Planning
- Standalone Root and Subordinate CA
- Configure Key Archiving and Recovery

Module 7: Planning and Provisioning Application Servers

Lessons

- Planning and Provisioning Web Services
- Planning and Provisioning Presentation Virtualisation
- Planning and Provisioning Application Virtualisation

Lab : Planning and Provisioning Application Servers

- Planning Application Deployment
- Configuring Remote Desktop Policies
- Configuring Recovery for Application Servers
- Configuring WSRM Policies

- client planning
- At least one year experience carrying out day to day network Infrastructure and Active Directory management and maintenance tasks
- Technology skills equivalent to moc course [6418C: Deploying Windows Server 2008](#)

At Course Completion:

After completing this course, students will be able to:

- Plan Windows Server 2008 and Windows Server 2008 R2 Sp1 deployments and upgrades
- Plan server management and delegated administration strategies
- Plan for network addressing with IPv4 and IPv6 and also the provisioning of DNS services
- Plan and provision Active Directory Domain Services
- Plan and implement Group Policy strategy
- Plan and implement Active Directory Certificate Services
- Plan and provision Application servers including Web services, presentation virtualisation and application virtualisation
- Plan and implement file and print server roles
- Plan and implement secure network access policies such as VPNs, Network Access Protection (NAP) and Direct Access
- Plan and provision data and storage
- Plan and implement an update management strategy using Windows Server Update Services (WSUS)
- Plan and implement high availability
- Plan for server performance and event monitoring
- Plan and implement a backup and recovery strategy

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Module 8: Planning File and Print Services

Lessons

- Provisioning File Services
- Provisioning and Managing Storage
- Provisioning and Managing Network Print Services
- Migrating File and Print Services

Lab : Planning and Implementing File and Print Services

- Planning File Services
- Implementing File Services in the Branch Office
- Implementing Print Services in the Branch Office

Module 9: Planning Network Access

Lessons

- Planning Network Security
- Planning Virtual Private Networks
- Planning Network Access Protection
- Planning DirectAccess

Lab : Planning and Implementing Network Access

- Planning Network Access
- Implementing Network Access

Module 10: Provisioning Data and Storage

Lessons

- Planning and Implementing Distributed File System
- Planning and Implementing BranchCache
- Provisioning Storage

Lab : Planning and Implementing Data Access

- Planning Data Access
- Installing and Configuring DFS
- Enabling and Configuring BranchCache

Module 11: Planning Update Deployment

Lessons

- WSUS Topologies
- Update Management

Lab : Multi-Site WSUS Deployment

- Analyse WSUS Deployment Plan
- Configure a Replica WSUS Server
- Configure WSUS for BranchCache and BITS

Module 12: Planning High Availability

Lessons

- Planning Network Load Balancing
- Planning Failover Clustering
- Planning for Service Availability

Lab : Planning and Implementing High Availability

- Planning High Availability
- Implementing High Availability

Module 13: Planning Performance and Event Monitoring

Lessons

- Monitoring and Analysing Server Performance
- Managing Events

Lab : Event Log Forwarding

- Planning Enterprise Event Log Management
- Configuring Event Subscriptions
- Creating Custom Views
- Creating Event Tasks

Module 14: Enterprise Backup and Recovery

Lessons

- Disaster Recovery Concepts
- Planning Windows Server Backup
- Planning and Administering Recovery

Lab : Backup and restore from VHD

- Creating a Disaster Recovery Plan
- Configure network backup with Windows Server Backup
- Mount Backup VHD and Extract Data
- Configure a Windows Server 2008 server to boot from backup VHD