

Course 6433A:

Planning and Implementing Windows Server 2008

Course Details

Course Outline

Module 1: Planning Server Deployment and Upgrade

This module explains how to plan Windows Server 2008 and Windows Server 2008 R2 deployments and upgrades.

Lessons

- Developing a Deployment Strategy
- Virtualization 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

After completing this module, students will be able to:

- Develop a deployment strategy.
- Determine factors that affect the implementation of virtualization within your organization.
- Select a strategy for deployment automation.
- Implement the selected automation strategy.

Module 2: Planning Server Management and Delegated Administration

This module explains how to plan for server management and delegated administration on Windows Server 2008 and Windows Server 2008 R2 environments

Lessons

- Remote Server Management Tools
- Decentralizing 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

After completing this module, students will be able to:

- Plan for the implementation and use of Windows Server 2008 and Windows Server 2008 R2 remote management tools.
- Plan and Implement decentralized systems administration.

Module 3: Planning Network Addressing and Name Resolution

This module explains how to plan for IPv4 and IPv6 addressing in your network and to plan and implement DNS and DHCP in a Windows Server 2008 and Windows Server 2008 R2 environment

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

After completing this module, students will be able to:

- Provision an IPv4 addressing scheme within your organization.
- Provision an IPv6 addressing scheme within your organization.
- Plan the transition to IPv6.
- Plan and implement DNS name resolution services within your organization's network.

Module 4: Planning and Provisioning Active Directory Domain Services

This module explains how to plan and provision Active Directory Domain Services in Windows Server 2008 and Windows Server 2008 R2 environments.

Lessons

- Deploying Domain Controllers in Multi-Site Organizations
- 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 for Active Directory Domain Services

- Planning an Active Directory Structure
- AD DS Backup and Recovery
- Configuring Active Directory Recycle Bin

After completing this module, students will be able to:

- Identify considerations for deploying domain controllers in multi-site organizations.
- Plan administrative and management structures for AD DS
- Plan a maintenance strategy for AD DS
- Plan a backup and recovery strategy for AD DS.

Module 5: Planning Group Policy Strategy

This module explains how to plan and implement Group Policy strategy in Windows Server 2008 and Windows Server 2008 R2 environments

Lessons

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

Lab : Planning and Implementing Group Policy

- Planning Group Policy
- Implementing the Proposed GPO Plan

After completing this module, students will be able to:

- Plan GPO settings.
- Plan the assignment of group policy objects to AD DS containers.
- Plan how to manage GPOs within your organization.

Module 6: Planning Active Directory Certificate Services

This module explains how to plan Active Directory Certificate Services in Windows Server 2008 and Windows Server 2008 R2 environments.

Lessons

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

Lab : Configuring Certificate Services

- Planning Certificate Services Deployment
- Configure Stand-alone Root and Enterprise Subordinate CA
- Configure Key Archiving and Recovery
- Configure Online Certificate Status Protocol Array

After completing this module, students will be able to:

- Plan enterprise PKI deployment and administration
- Manage Certificate templates
- Plan certificate enrollment and revocation

Module 7: Planning and Provisioning Application Servers

This module explains how to plan and provision application servers in Windows Server 2008 and Windows Server 2008 R2 environments.

Lessons

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

Lab : Planning and Provisioning Application Servers

- Planning Application Deployment
- Configuring Remote Desktop Policies
- Installing and Configuring a Remote Desktop Gateway

After completing this module, students will be able to:

- Plan and provision web application servers.
- Plan and provision remote desktop services
- Plan and provision application virtualization servers.

Module 8: Planning File and Print Services

This module explains how to plan and implement File and Print services in your Windows Server 2008 and Windows Server 2008 R2 environment.

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

After completing this module, students will be able to:

- Plan and implement the file service role.
- Plan and manage storage.
- Plan and manage shared printers.
- Plan the migration of file and print services to Windows Server 2008 R2

Module 9: Planning Network Access

This module explains how to plan and implement your network infrastructure components in your Windows Server 2008 and Windows server 2008 R2 environment.

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

After completing this module, students will be able to:

- Plan network infrastructure components to improve network security
- Plan and implement VPNs
- Plan and implement NAP
- Plan DirectAccess

Module 10: Provisioning Data and Storage

This module explains how to provision data and storage in your Windows Server 2008 and Windows server 2008 R2 environment.

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

After completing this module, students will be able to:

- Plan and implement the Distributed File System.
- Plan and implement BranchCache.
- Provision an appropriate storage solution.

Module 11: Planning Update Deployment

This module explains how to plan and implement a Windows Server Update Service topology and how to deploy and manage updates in your Windows Server 2008 and Windows Server 2008 R2 environment.

Lessons

- WSUS Topologies
- Update Management

Lab : Multi-Site WSUS Deployment

- Analyze WSUS Deployment Plan
- Configure a Replica WSUS Server
- Configure WSUS for BranchCache

After completing this module, students will be able to:

- Plan an appropriate Windows Server Update Services (WSUS) topology
- Deploy and manage updates

Module 12: Planning High Availability

This module explains how to plan and implement High Availability in your Windows Server 2008 and Windows Server 2008 R2 environment.

Lessons

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

Lab : Planning and Implementing High Availability

- Planning High Availability
- Implementing High Availability

After completing this module, students will be able to:

- Plan and deploy network load balancing.
- Plan and deploy failover clustering.
- Plan for high service availability.

Module 13: Planning Performance and Event Monitoring

This module explains how to plan for performance and event monitoring in your Windows Server 2008 and Windows Server 2008 R2 environment.

Lessons

- Monitoring and Analyzing Server Performance
- Managing Events

Lab : Planning and Implementing Event Log Management

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

After completing this module, students will be able to:

- Monitor and analyze server performance.
- Manage events.

Module 14: Enterprise Backup and Recovery

This module explains how to plan for back ups and disaster recovery in your Windows Server 2008 and Windows Server 2008 R2 environment

Lessons

- Disaster Recovery Concepts
- Planning Windows Server Backup
- Planning Recovery of Data and servers

Lab : Backing Up and Restoring 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

After completing this module, students will be able to:

- Understand Disaster Recovery Concepts
 - Plan Windows Server Backup
 - Plan recovery of data and servers
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