

MS 5053A Designing a Messaging Infrastructure Using Microsoft Exchange Server 2007

Description: This three-day instructor-led course provides students with the knowledge and skills to design a messaging infrastructure. Students will learn to assess an existing infrastructure and determine technical and business requirements for both new Microsoft Exchange Server 2007 deployments and migrations. Students will create a design that addresses security, architecture, scalability, coexistence, and client access needs. They also will learn strategies for gaining approval for designs from stakeholders.

Days: 3

Prerequisites: Before attending this workshop, students:

- Must understand hardware concepts. For example, what redundant array of independent disks (RAID) is, what a storage area network (SAN) is, processor options, memory requirements, how disk input/output (I/O) functions and the limitations of disk I/O, and storage options for Exchange server. The differences in addressable memory spaces between 32- and 64-bit architectures.
- Must have extensive detailed knowledge of Active Directory concepts and design principles. For example, site replication, integrated authentication, schema extension, Domain Name System (DNS), group and organization unit structure and inheritance, etc.
- Have working experience with designing and implementing Active Directory in Windows Server 2003.
- Must understand Exchange architecture. For example, the purpose of server roles, functions of specific server roles, how message routing and queuing works in Exchange, standard messaging protocols (Simple Mail Transfer Protocol [SMTP], Internet Message Access Protocol version 4rev1 [IMAP4], Post Office Protocol version 3 [POP3]), how Exchange replicates data stores, client access methods, and so on.
- Have working experience with Exchange 2000 Server or Exchange Server 2003 and Exchange Server 2007. For example, must have installed, maintained, and supported a production Exchange environment.
- Must already know how to use:
 - Exchange System Manager
 - Exchange Best Practice Analyzer (ExBPA)
 - Microsoft Office Visio (to create infrastructure diagrams)
- Must have familiarity and experience with a Windows scripting or command-line scripting.

Audience: This course is intended for people with three or more years experience working with previous Exchange Server versions and experience implementing Exchange Server 2007. Most students will have managed

enterprise-level Exchange Server organizations. Students are expected to be new to participating in designing Exchange Server 2007 deployments on the job or to be planning to design Exchange Server 2007 deployments in the near future. Students may have done some design for Exchange 2000 Server or Exchange Server 2003 deployments, but want to learn how to design Exchange Server 2007 environments. Students will also have experience in designing and managing Active Directory directory services and network infrastructure deployments.

Module 1: Gathering Requirements for a Messaging Infrastructure

This module explains how to gather business and technical requirements for a messaging system.

Lessons

- Gathering Business Requirements
- Identifying Additional Requirements
- Analyzing the Current Messaging Environment
- Creating a Requirements Document

Lab: Gathering Requirements for a Messaging Infrastructure

Module 2: Designing Active Directory and Message Routing

This module explains how to design an Active Directory and message routing infrastructure.

Lessons

- Designing an Active Directory Infrastructure
- Designing Message Routing
- Designing the Message Routing Perimeter

Lab: Designing Active Directory and Message Routing

Module 3: Designing Exchange Servers

This module explains how to design Exchange Server configurations.

Lessons

- Designing Mailbox Servers

- Designing Non-Mailbox Servers
- Designing a Public Folder Architecture
- Designing a Lab Environment

Lab: Designing Exchange Servers

Module 4: Designing Security for a Messaging Environment

This module explains how to design security for a messaging environment.

Lessons

- Designing an Administrative Model
- Designing Message Security
- Designing Antivirus and Anti-spam Solutions

Lab: Designing Security for a Messaging Environment

Module 5: Designing Messaging Policies

This module explains how to design messaging policies for an Exchange Server 2007 organization.

Lessons

- Designing Exchange Recipient and Message Policies
- Designing Mobile Device Policies
- Designing Messaging Policies for Compliance

Lab: Designing Messaging Policies

Module 6: Designing Coexistence and Interoperability Strategies with Other Messaging Systems

This module explains how to design Exchange coexistence and messaging system interoperability strategies.

Lessons

- Overview of Coexistence and Interoperability with Other Messaging Systems
- Designing a Coexistence Strategy with Previous Exchange Versions
- Designing an Interoperability Strategy with Other Messaging Systems

Lab: Designing Coexistence and Interoperability Strategies with Other Messaging Systems

Module 7: Designing an Exchange Server 2007 Upgrade Strategy

This module explains how to design a strategy for upgrading to Exchange Server 2007.

Lessons

- Overview of Available Upgrade Strategies
- Designing a Transition From Previous Versions of Exchange
- Designing a Migration From Other Messaging Systems

Lab: Designing an Upgrade Strategy

Module 8: Obtaining Approval for a Messaging Infrastructure Design

This module explains how to obtain approval for a messaging infrastructure design.

Lessons

- Preparing to Obtain Approval
- Presenting and Finalizing a Design

Lab: Obtaining Approval for a Messaging Infrastructure Design

Upcoming Classes

Jun 11, 2012 - Jun 13, 2012

Jul 24, 2012 - Jul 26, 2012

Aug 15, 2012 - Aug 17, 2012

Sep 11, 2012 - Sep 13, 2012

Oct 22, 2012 - Oct 24, 2012

Nov 14, 2012 - Nov 16, 2012

Dec 04, 2012 - Dec 06, 2012