

Designing a Messaging Infrastructure using Microsoft Exchange Server 2007 (MS5053)

Duration: 3 days

Introduction

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

Audience

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 new to participating in designing Exchange Server 2007 deployments or are planning to design Exchange Server 2007 deployments. 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 services and network infrastructure deployments.

Prerequisites

Before attending this course, students should:

- Understand hardware concepts; RAID, SAN, processor options, memory requirements, I/O functions and limitations, and storage options for Exchange server
- Understand differences in addressable memory spaces between 32- and 64-bit architectures
- 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
- Understand Exchange architecture including the purpose of server roles, functions of specific server roles, how message routing and queuing works in Exchange, SMTP, IMAP4, POP3, how Exchange replicates data stores, client access methods
- Have working experience with Exchange 2000 Server or Exchange Server 2003 and Exchange Server 2007 including installed, maintained, and supported a production Exchange environment
- Should know how to use Exchange System Manager, Exchange Best Practice Analyzer (ExBPA), Microsoft Office Visio (to create infrastructure diagrams) and be familiar with Windows scripting or command-line scripting.

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Topics

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

Lab: Gathering Requirements for a Messaging Infrastructure

- Exercise 1: Evaluating an Existing Messaging Infrastructure
- Exercise 2: Creating a Requirements Document
- Exercise 3: Discussion: Real-World Best Practices for Setting Budget Expectations

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

- Exercise 1: Designing a Message Routing Topology

- Exercise 2: Designing a Messaging Perimeter
- Exercise 3: Discussion: Improving an Active Directory and Message Routing Design

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

- Exercise 1: Planning an Exchange Server Deployment Exercise 2: Defining Test Lab Requirements

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

- Exercise 1: Designing an Administrative Model
- Exercise 2: Designing Message Security
- Exercise 3: Designing Antivirus and Anti-spam Solutions

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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

- Exercise 1: 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

- Exercise 1: Designing a Coexistence Strategy with Exchange 2000 Server
- Exercise 2: Designing an Interoperability Strategy

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

- Exercise 1: Discussion: Reviewing the Exchange Server 2007 Design
- Exercise 2: 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

- Exercise 1: Presenting a Messaging Infrastructure Design
- Exercise 2: Discussion: Characteristics of Effective Design Review Processes