

Designing a Microsoft Exchange Server 2003 Organization

Course Outline

Module 1: Analyze Active Directory and Design an Administrative Plan

This module explains how to analyze the existing Active Directory infrastructure to ensure optimal performance for Exchange users. It also explains how to create a well-designed administrative plan and group strategy, which will enable the student to effectively plan and manage resources, allocate administrative responsibilities, and provide secure access.

Lessons

- Analyzing Your Current Environment
- Designing Active Directory Groups for an Exchange Server 2003 Organization
- Designing an Administrative Plan

Lab A: Identifying Active Directory Design Considerations

- Identifying Active Directory Forest Model

Lab B: Designing an Administrative Plan

- Defining Administrative Group Boundaries
- Defining Administrative Roles

After completing this module, students will be able to:

- Understand how to analyze your current environment.
- Understand how to design Active Directory groups for an Exchange Server 2003 organization.
- Understand how to design an administrative plan.

Module 2: Design a Routing Topology and Server Roles and Placement

This module provides the knowledge and skills needed to design an effective routing topology. This process includes determining how many routing groups are needed, where to locate each group, how messages will flow through the various groups, and how to connect them to one another. In addition, the roles that Exchange servers can hold in an Exchange organization and the placement of servers are examined.

Lessons

- Planning Routing Group Boundaries
- Planning Connectors Between Routing Groups
- Discussion: Planning Connectors and Cost
- Planning Server Roles and Placement
- Discussion: Planning Server Placement

Lab A: Designing Routing Group Boundaries

- Defining Your Routing Topology

Lab B: Designing a Routing Group Connector Topology

- Defining a Connector Topology

After completing this module, students will be able to:

- Understand how to plan routing group boundaries.
- Understand how to plan connectors between routing groups.
- Understand how to plan server roles and placement.

Module 3: Design a Public Folder and Client Connectivity Strategy

This module explains how to design a public folder strategy that includes placement and replication of public folders. In addition, it also discusses the hardware requirements needed to effectively configure a public folder server.

Lessons

- Planning Business and Logistical Requirements for Public Folders
- Planning Administrative and Permission Requirements for Public Folders
- Planning Hardware Requirements for Public Folders

Lab A: Planning Public Folder Content Replication and Referral

- Designing a Public Folder Replication Topology

After completing this module, students will be able to:

- Understand how to plan business and logistical requirements for public folders.
- Understand how to plan administrative and permission requirements for public folders.
- Understand how to plan hardware requirements for public folders.

Module 4: Design an Exchange Server 2003 Security Strategy

This module explains how to identify security risks and design a security strategy that protects from both internal and external attacks. In addition, the requirements for an encryption strategy and rights management are discussed.

Lessons

- Designing a Security Strategy
- Planning Exchange Server 2003 Perimeter Security
- Planning Exchange Server 2003 Intranet Security
- Planning an Encryption Strategy
- Discussion: Designing an Encryption Strategy

Lab A: Planning Northwind Traders' Perimeter Security

- Identifying a Perimeter Security Strategy

Lab B: Planning Northwind Traders' Intranet Security

- Identifying an Intranet Security Strategy

After completing this module, students will be able to:

- Understand how to identify security risks and describe security best practices.
- Understand how to plan Exchange Server 2003 perimeter security.
- Understand how to plan Exchange Server 2003 intranet security.
- Understand how to plan an encryption strategy.

Module 5: Design for High Availability and Reliability

This module explains how to design a highly available and reliable messaging system, including front-end and back-end servers, reliable Domain Name System (DNS) infrastructure, storage technologies, and clustering.

Lessons

- Introduction to Designing a Highly Available Exchange Server Organization
- Providing Redundant Supporting Services for the Exchange Server Organization
- Designing a Highly Available Internet Client Access Strategy
- Designing a Highly Available Back-End Server Strategy
- Designing a Highly Available Data Storage Strategy

Lab A: Planning for a Highly Available Exchange Server 2003 Organization

- Planning a Front-End Solution
- Planning a Clustering Solution
- Justifying an Exchange Server 2003 Clustering Solution

After completing this module, students will be able to:

- Understand how to design a highly available Exchange Server organization.
- Understand how to provide redundant supporting services for the Exchange Server organization.
- Understand how to design a highly available Internet client access strategy.
- Understand how to design a highly available back-end server strategy.

- Understand how to design a highly available data storage strategy.

Module 6: Design Inter-organizational Connectivity

This module explains how to design a global directory system by propagating users, contacts, and groups from one forest GAL as contacts into the GAL of the other forest so Exchange Server users in one forest can search for employees from another forest in their local GAL which is stored in their forest's Active Directory.

Lessons

- Identifying Requirements for Inter-organizational Connectivity
- Planning for Inter-organizational Global Address List (GAL) Synchronization Strategy
- Planning an Inter-organizational Public Folder Strategy

Lab A: Designing an Inter-organizational Connectivity Strategy

- Defining Your Inter-organizational Connectivity Strategy

After completing this module, students will be able to:

- Understand how to identify requirements for inter-organizational connectivity.
- Understand how to plan for inter-organizational e-mail connectivity.
- Understand how to design a message routing strategy.
- Understand how to design a messaging connector strategy.

Module 7: Design an Exchange Server 5.5 to Exchange Server 2003 Deployment Strategy

This module explains how to design an upgrade or migration strategy that minimizes costs and downtime, and ensures that the upgrade or migration is performed in an efficient manner.

Lessons

- Preparing to Migrate from Exchange Server 5.5
- Planning a Directory Upgrade Strategy
- Planning a Server Migration Strategy
- Planning to Switch from a Mixed Mode to Native Mode Organization

Lab A: Developing a Deployment Strategy for Northwind Traders

- Developing a Deployment Plan

After completing this module, students will be able to:

- Understand how to prepare to migrate from Exchange Server 5.5.
- Understand how to plan a directory upgrade strategy.
- Understand how to plan a connector upgrade strategy.
- Understand how to plan a mailbox and public folder migration strategy.
- Understand how to plan to switch from a mixed mode to native mode organization.