

70-662: Deploying Microsoft Exchange Server 2010

Course Introduction

3m

Course Introduction

Chapter 01 - Active Directory and Supporting Infrastructure

2hr 2m

Active Directory and Supporting Infrastructure

Network Infrastructure

Active Directory

Active Directory Infrastructure

Active Directory Topology

Trust Relationships

Active Directory Components

Active Directory Components - Domains and Domain Tree

Active Directory Components - Forests

Active Directory Components - Trusts

Active Directory Components - Domain Controller

Active Directory Components - Global Catalog

Active Directory Components - Sites

Active Directory Components - Replication

Active Directory Partition - Domain

Active Directory Partition - Configuration

Active Directory Partitions - Schema

Active Directory Partitions - Application

Active Directory Hierarchy

Demo - Prepare Active Directory

Network Based Services

DNS

Types of DNS Zones

DHCP

Time Servers

DNS Requirements for Exchange Server 2010

Preparing Active Directory for Exchange Server 2010

Exchange Server 2010 Editions & Licensing

Server Roles in Exchange Server 2010

Server Roles - Expanded

Simple Organizations

Standard Organization Deployments

Complex Organization Deployment

Hardware Recommendations for Combining Server Roles

Integration with Exchange Online Services

Infrastructure Requirements for Exchange Server 2010

Hardware Requirements for Install

Installation Software Requirements

Process for Installing Exchange Server 2010

Demo - Install Exchange Server

Demo - Install a Second Exchange Server

Unattended Installation Options

Demo - Install Exchange Server Updates

Chapter 01 Review

Chapter 02 - Mailbox Servers and Recipients

2hr 51m

- Mailbox Servers and Recipients
- Exchange Management Console
- Demo - Exchange Management Console
- Exchange Management Shell & PowerShell
- Remote Windows PowerShell
- Exchange Management Shell Cmdlets
- Using Cmdlets Together
- Demo - Exchange Management Shell
- EMS Examples
- Exchange Control Panel (ECP)
- Demo - Exchange Control Panel
- Initial Mailbox Configuration Tasks
- Demo - Configure Mailbox Management Options
- Secure the Server
- Create and Configure Database
- Demo - Create Mailbox and Public Folders
- Configure Public Folders
- Demo - Public Folders
- Demo - Public Folder Toolbox
- Configure Recipients
- Configure the Offline Address Book
- Database Key-Points
- Database File Types
- Mailbox Database Update Process
- Storage Improvements
- Options for Database Storage
- Data Storage Options - Direct Attached Storage
- Data Storage Options: Storage Area Networks
- Public Folder Replication
- How Clients Access Public Folders
- Sharepoint Vs. Public Folders
- Demo - Configuring Public Folder Replication
- Public Folder Process for MAPI Clients
- Exchange Recipients - User Mailboxes
- Exchange Recipients - Resource Mailbox
- Exchange Recipients - Mail Users
- Exchange Recipients - Mail Contact
- Exchange Recipients - Mail-Enabled Security and Distribution Groups
- Types of Distribution Groups
- Distribution Group Features
- Some Options for Configuring Distribution Groups
- Exchange Recipients - Linked Mailboxes
- Moving Mailboxes
- Resource Mailboxes
- Booking Attendants
- Designing Resource Booking Policies
- Demo - Resource Mailbox
- E-Mail Address Policies
- Creating an E-mail Policy for Distribution Groups
- Demo - E-mail Address Policies
- Address Lists
- Demo - Configuring Address Lists
- Configuring Offline Address Books
- Options for Deploying Offline Address Books
- Distribution Options - Address Book
- Chapter 02 Review

Chapter 03 - Managing Client Access

1hr 47m

Managing Client Access
Client Access Servers
Client Access Server Deployment Options
Deploy Client Access Servers
Demo - Configuring a Client Access Server
Securing a Client Access Server
Using Application Layer Firewall
Best Practices: Implementing Client Access Server Certificates
Demo - Configuring Certificates for Client Access Servers
POP3 and IMAP4 Options
Configuring the Client Access Server for Internet Access
Client Access Server Services for Outlook Clients
Autodiscover
Configuring Autodiscover
Availability Service
MailTips
Demo - Configuring MailTips
Outlook Anywhere
Demo - Enable Outlook Anywhere
Outlook Client Connectivity Troubleshooting
Outlook Web App
Configuration Options for Outlook Web App
File and Data Access for Outlook Web App
File and Data Access Configuration
Demo - Configure Outlook Web App
Exchange ActiveSync
Exchange ActiveSync Security Options
Chapter 03 Review

Chapter 04 - Managing Message Transports

2hr 23m

Managing Message Transports
SMTP
One-way SMTP Connections
Demo - SMTP Connectors
Changing Default Message Flow
Troubleshooting SMTP Message Delivery
SMTP E-Mail Security Options
Demo - Configuring SMTP Security
Domain Security
Domain Security Process
Domain Security Configuration
Demo - Configuring Domain Security
How S/MIME Works
Message Transport Components
Routing Messages Within an Exchange Organization: Message Sent
Routing Messages Within an Exchange Organization: Microsoft Exchange Mail Submission Service
Routing Messages Within an Exchange Organization: Store Driver
Routing Messages Within an Exchange Organization: Mail Delivery Within AD
Routing Messages Within an Exchange Organization: Mail Delivery to Internet
Shadow Redundancy - Transport Dumpster
Configuring Shadow Redundancy
Process for Configuring Hub Transport Servers
Options for Configuring Message Transport
Remote Domains
Demo - Configuring Accepted and Remote Domains

Back Pressure - System Monitoring
Back Pressure
Edge Transport Server Role
Edge Transport Role
Edge Transport Server Role Infrastructure Requirements
AD LDS
Edge Synchronization
Cloned Configuration
Edge Transport Server Security
Antivirus Features
Forefront Protection 2010 for Exchange Server
Forefront Protection 2010 Options
Defense in Depth
Overview of Spam-Filtering Features
How Exchange Server 2010 Applies Spam Filters
Sender ID Filtering
Sender Reputation Filtering
Content Filtering
Demo - Configuring Anti-Spam Options
Chapter 04 Review

Chapter 05 - Exchange Security

2hr 58m

Exchange Security
Role Based Access Control (RBAC)
Role Based Access Control Options
Management Role Groups
Built-In Management Role Groups
Demo - Managing Permissions
Process for Configuring Custom Role Groups
Demo - Configuring Custom Role Groups
Management Role Assignment Policies
Working with Management Role Assignment Policies
Managing Permissions on Edge Transport Servers
Exchange Server Security Risks
Exchange Server Security Guidelines
Secure Internet Access Components
Designing Security - Client to Internet
Designing Security - Internal Network
Common Port Assignments for Firewall
Securing Client Access Traffic from the Internet
SMTP Connections
Reverse Proxy
Messaging Policy and Compliance
Governing Compliance
Compliance Examples
Exchange Messaging Policy and Compliance
Transport Rules - Hub Transport Server
Transport Rules - Edge Transport Server
Transport Rule Components - Conditions
Transport Rule Components - Actions
Transport Rule Components - Exceptions
Transport Rule Component - Predicates
Demo - Configuring Transport Users
Message Classifications
AD RMS
How AD RMS Works

Exchange Server 2010 Integration
Moderated Transport
Message Journaling - Messaging Records Management
Demo - Configuring Message Journaling
Considerations for Managing the Message Journal Mailbox
Multi-Mailbox Search
Demo - Configuring Multi-Mailbox Search
What Are Retention Tags and Retention Policies?
AutoTagging
Demo - Configuring Retention Tags and Policies
Managed Folders
Process for Deploying Managed Folders
Demo - Implementing Custom Folders
Considerations for Implementing Messaging Records Management
Personal Archives in Exchange Server 2010
Demo - Configuring Personal Archives
Best Practices: Personal Archives
Chapter 05 Review

Chapter 06 - Implementing High Availability

2hr 28m

Implementing High Availability
High Availability
Types of Downtime
High Availability - Mailbox Servers
High Availability - Non-Mailbox Servers
Database Availability Group
Active Manager
Continuous Replication Process
DAG Database Protection
Exchange Server 2007 and 2010 Mailbox Availability Options
Create and Configure DAG
DAG Network
Demo - Creating and Configuring a DAG
Demo - DAG LAG
Transport Dumpster
Understanding the Failover Process
Client Access Servers - High Availability
Shadow Redundancy for Hub Transport Servers
Shadow Redundancy Manager (SRM)
Edge Transport Servers - High Availability
Disaster Mitigations Options (1/4)
Disaster Mitigations Options (2/4)
Disaster Mitigations Options (3/4)
Disaster Mitigations Options (4/4)
Disaster Recovery: Mailbox Servers
Backup and Restore Scenarios
Backup in Exchange Server 2010 - Differences from Previous Versions
Backup Requirements for Exchange Server 2010
Backup Strategies
Volume Shadow Copy Service (VSS)
VSS Component Definitions
How to Pick a Backup Solution
Restore Strategies
Process for Recovering Data Using the Recovery Database
Dial-Tone Recovery
Process for Implementing Dial-Tone Recovery

Database Mobility
Recovering Exchange Servers
Performance Monitoring
Monitoring Exchange Server
Performance Counters for Exchange Server
Performance Counters for Mailbox Servers
Performance Counters for Hub and Edge Transport Servers
Performance Counters for Client Access Servers
Network and Performance Guidelines
Change Management
Software Updates vs. Hotfixes
Deploying Software Updates
Determining the Need for Hardware Upgrades
Process for Implementing Hardware Upgrades
Developing a Troubleshooting Methodology
Troubleshooting Tools
Chapter 06 Review
Course Closure

Total Duration: 14hr 30m