LearnKey® Training

Exchange 2000 Server Design

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3 Sessions –

9 Hours of Interactive Training

This LearnKey training course provides the knowledge and skills to help you design and implement a messaging solution with Microsoft's Exchange 2000 Server. Expert instructor Michael Storm takes you through the steps from analysis of requirements and resources to design and deployment. At the conclusion of this course you'll understand how to plan and implement an Exchange 2000 messaging system and be prepared to pass exam #70-225.

Prerequisites: Working knowledge of Windows 2000 including LearnKey's Windows 2000 Directory Services Administration Course or equivalent, networking including TCP/IP, DNS, & IIS, Internet protocols including POP3, IMAP4, SMPT, HTTP, & NNTP, and knowledge of Exchange Server 5.5.

About The Author

For the past 16 years, **Michael Storm** has managed the design, security and implementation of enterprise networks for Fortune 100 companies around the globe. As the founder of Brainstorm International, Inc., Storm specializes in InfoSec Security and Internetwork Solutions Architectures. He is currently the Director of Network Engineering and Security Officer for Interface Technical Training of Phoenix, AZ and creator of the 'Hard Hat' learning process, used by countless Cisco and Microsoft Professionals for achieving technical mastery. Storm holds many IT certifications, including the Cisco CCIE Security, CCNP/CCSP/CCDP, NSA/CNSS CISSP, MCSE and MCT.

Session 1

Section A: Introduction
- Series Prerequisites
- Exchange 2000 Design Framework
- Design Process
- Case Study Introduction

Section B: Exchange 2000 & Active Directory
- Active Directory Considerations
- Multiple Forest Design
- Forest Preparation
- Design Considerations
- Exchange 5.5 Compatibility
- Active Directory Connector
- Active Directory Storage Partitions
- Sizing Active Directory

Section C: Name Resolution
- DNS & UPNs
- User Principle Name Strategy
- DS Access
- DS Access Server Detection

Section D: Windows 2000 Groups
- Group Types
- Universal Groups
- Domain Local Groups
- Global Groups
- Groups & Exchange 2000

Section E: Naming & Admin Analysis
- Organization Analysis
- Administration Analysis
- Administration Design
- Naming Design

Section F: Administrative Models
- Administrative Plan
- Centralized Model
- Distributed Model
- Hybrid Model
- Native vs. Mixed Mode
- Evaluate Its Resources
- Impact of Mergers

Section G: Administration Design
- Administrative Groups
- Managing Servers
- Managing Public Stores
- Delegating Authority
- Granting Access to Objects
- Administrative Roles
- Deploy Admin Topology

Section H: Admin Model Analysis
- Analyze Current Admin
- Design Admin Model
- Design Considerations

Session 2

Section A: Routing Group Analysis
- Routing Groups
- Analyze Business Needs
- Site Design Analysis
- Design Consideration
- Site Replication Service

Section B: Routing Group Design
- Design Decisions
- Single Routing Groups
- Multiple Routing Groups
- Public Folder Referrals
- Naming
- Message Flow
- Hub-Spoke & Full-Mess Topology

Section C: Connecting Routing Groups
- Routing Group Connector
- SMTP Connector
- X.400 Connector
- Connector Cost Design
- Optimize Connectors

Section D: Routing & Connector Analysis
- Analyze Physical Requirements
- Analyze Network Requirements
- Routing Group Solutions
- Connection Solutions

Section E: Exchange 2000 Server
- Mailbox & Public Folder Servers
- Mailbox Server Design
- Plan Storage Needs
- Fault Tolerance Planning

Section F: Server Roles
- Connector Servers
- Connector Server Hardware
- Front-end & Back-end Servers
- Front-end & Back-end Advantages
- POP3 & IMAP4 Front-end Server
- Outlook Web Access Server
- Client Access to Domain Controllers
- Global Catalog Servers
- Miscellaneous Services

Section G: Analyze Server Design
- Server Requirement Analysis
- Server Storage & Performance Analysis
- Server Design Specifications

Section H: Security
- Security Plan Design
- Security Risks
- Basic Security Solutions
- Security Design Concerns

Session 3

Section A: External Attacks
- Virus Protection
- Protect Mailboxes
- Bridgehead Servers
- Port Protection
- Perimeter Networks & Firewalls

Section B: Security Strategies
- Encryption & Authentication
- Certificate Services & KMS
- KMS
- Internet Mail Encryption
- Avoid Security Problems
- Kerberos & NTLM

Section C: Analyze Security Needs
- Analyze User Needs
- Connectivity Analysis
- Deployment Specification
- Encryption & Authentication

Section D: Designing Public Folders
- Strategy
- Functionality
- Hierarchy Design
- Default Tree
- General Purpose Trees
- Deployment Considerations

Section E: Public Folder Replication
- Frequency
- Storage Space
- Replication Issue
- Permissions
- Permission Assignments
- Full Text Indexing
- Index Overhead

Section F: Analyze Public Folder Needs;
- Case Study
- Needs Analysis

Section G: Exchange Clients
- Exchange Global Settings
- Global Setting
- Collaboration Clients

Section H: Coexistence
- Connectivity
- Exchange 5.5
- Lotus Systems
- Novell GroupWise
- MS Mail
- Issues

Section I: Exchange Migration
- Active Directory Connector
- Connection Agreement

Section J: Disaster Recovery
- Backup Strategy
- Backup Utilities
- Backup Plan
- Type of Data
- Recovery Solutions