

6386 - Ultimate Exchange Server 2003

1. Mergers, Acquisitions, and Consolidation

- Merging Two or More Exchange Organizations
- Merging vs. Coexisting
- Upgrades vs. Migrations
- Upgrade Tools
- Migration Tools
- Synchronizing Multiple Organizations
- GAL Synchronization Tool
- Identity Integration Server
- Consolidating and Centralizing Exchange Servers
- Upgrading from Exchange Standard to Exchange Enterprise
- Consolidation Methods
- Branch Office Deployments
- Lessons We Can Learn from Exchange Service Providers
- Outlook 2003 Cache Mode
- Advanced Routing Topologies
- SMTP Connectors
- Foreign E-mail Domains

2. High Availability

- Clustering
- Storage Area Networks
- Back-end Server Configuration
- Network Load Balancing
- Front-end Server Configurations
- Geographical Clustering
- Remote Recovery Solutions
- Strategic Name Resolution Strategies
- DNS and GC Placement

3. Heightened Security

- Designing an Administrative Model
- Administrative Group Best Practices
- Delegating Exchange Roles
- Five Recipes for Delegating Exchange Administrator Rights
- Assessing Exchange's Vulnerabilities
- Well-known Vulnerabilities
- Scanning Tools
- Digitally Encrypting and Signing E-mail

- Public Key Infrastructures Overview
- Windows CA vs. Trusted Third-Party CA
- How to Obtain Certificates for Encrypting E-mail
- Encrypting E-mail Between Two Organizations
- Planning Anti-Virus Deployments
- Layered Approach
- Gateway Solutions
- Customizing Attachment Blocking
- Spam Blocking with Microsoft Intelligent Message Filter (IMF)
- Installing IMF
- Configure Ratings and Actions
- Updating and Extending IMF
- SMTP Filtering
- Real-time Block Lists
- Closing SMTP Relays
- Server Hardening
- Reducing Footprint
- Version Control
- Security Policies and GPO
- Actions Under Fire
- Throttle Connections
- Identify the Source and then Block
- Intrusion Detection vs. Intrusion Prevention
- Firewalls and Proxy Servers
- Configuring ISA Firewall and Proxy for Exchange
- OWA
- RPC over HTTP
- Transport Security (End-to-End Encryption)
- SSL/TLS
- IPSec
- Back-end Front-end Server Strategic Placement

4. Advanced Administration

- Troubleshooting and Maintenance
- Exchange Servers
- Outlook Clients
- POP3/IMAP4 Clients
- Mail Flow/Routing
- Exchange Administrator's Toolbox (10 Tools You Can't Live Without)
- Microsoft Best Practice Analyzer for Exchange
- Advanced Features
- Mobile Information Services
- OMA
- Active Sync
- Exchange Management Pack for MOM 2005

- Recovery Storage Groups
- Service Pack 1 and Post SP1 Features
- Scripting
- Pre-Built scripts
- WMI and ADSI
- Automating Common Tasks

Labs

Lab 1: Advanced Installation and Configuration

1. Install and configure GAL Synchronization Tool
2. Install and configure Inter-Org Replication Tool
3. Install and configure the Active Directory Connector
4. Merge two exchange organizations with the Exchange Migration Tools
5. Advanced Recipient Policy configurations
6. Establish dedicated SMTP connectors and configure advanced options

Lab 2: Deploying a High Availability Solution

1. Install and configure a Windows Server 2003 Cluster
2. Install and configure Exchange Server 2003 on a Cluster
3. Design a load-balancing solution for front-end server
4. Design a network services strategy for Exchange 2003
5. Design a remote recovery solution for Exchange Server 2003
6. Install and configure Double-Take© for Exchange Server 2003

Lab 3: Deploying Exchange in High Security Environments

1. Create multiple Administrative Groups
2. Delegate Exchange Administrative Roles
3. Install and configure a Certificate Authority
4. Configure clients to digitally encrypt and sign e-mails
5. Configure two organizations to send and receive encrypted e-mails to each other
6. Design an Anti-Virus Deployment for Exchange Server 2003
7. Install and configure Intelligent Message Filter (IMF)
8. Configure Connection Filters and Global Accept and Deny lists
9. Change SMTP banner in the IIS Metabase
10. Configure a GPO to lock down Exchange servers
11. Perform intrusion detection and intrusion prevention
12. Install and configure ISA for Exchange 2003
13. Implement SSL and TLS for HTTP and SMTP
14. Configure IPSec to secure back-end/front-end communications

Lab 4: Advanced Administration

1. Troubleshoot mail flow between Exchange servers
2. Troubleshoot client configuration problems
3. Troubleshoot client connectivity problems
4. Use Exchange tools to troubleshoot
5. Use the Microsoft Best Practice Analyzer for Exchange on your organization
6. Enable and connect to OMA
7. Configure Active Sync for Pocket PC devices
8. Install and configure MOM
9. Install Exchange Management Pack for MOM and configure operational tasks
10. Recover Mailbox data with Recover Storage Groups
11. Customize pre-build scripts
12. Customize OWA Forms Based Logon screen and add Themes