

# MCTS Self-Paced Training Kit (Exam 70-236): Configuring Microsoft® Exchange Server 2007™

...

...

...

...

...

# Table of Contents

Introduction.....	xxiii
Hardware Requirements.....	xxiii
Software Requirements.....	xxiv
Using the CD and DVD.....	xxiv
How to Install the Practice Tests.....	xxv
How to Use the Practice Tests.....	xxv
How to Uninstall the Practice Tests.....	xxvii
Microsoft Certified Professional Program.....	xxvii
Technical Support.....	xxvii
1 Preparing for Exchange Installation.....	1
Before You Begin.....	1
Lesson 1: Preparing the Infrastructure for Exchange Installation.....	3
Preparing Active Directory.....	3
Configuring Exchange Administrator Roles.....	11
Link State and Coexistence with Previous Versions of Exchange.....	12
Practice: Preparing the Network Infrastructure for the Installation of Exchange Server 2007.....	13
Lesson Summary.....	19
Lesson Review.....	19
Lesson 2: Preparing the Servers for Exchange Installation.....	22
Exchange 2007 Operating System and Hardware Requirements.....	22
Exchange Server 2007 on Domain Controllers.....	26
Networking Configuration.....	26
Security Configuration Wizard.....	27
The Exchange Best Practices Analyzer.....	28

**What do you think of this book? We want to hear from you!**

Microsoft is interested in hearing your feedback so we can continually improve our books and learning resources for you. To participate in a brief online survey, please visit:

[www.microsoft.com/learning/booksurvey/](http://www.microsoft.com/learning/booksurvey/)

Table of Contents

	Multiple Volumes . . . . .	29
	Practice: Preparing the Server for the Installation of Exchange Server 2007. . . . .	31
	Lesson Summary. . . . .	39
	Lesson Review. . . . .	40
VIKX	Chapter Review. . . . .	42
vhftt .	Chapter Summary. . . . .	42
VXX .	Key Terms. . . . .	42
	Case Scenarios. . . . .	43
. N X .	Case Scenario 1: Preparing the Active Directory Environment and Network Infrastructure at Taitspintoys for Exchange Deployment . . . .	43
	Case Scenario 2: Preparing a Windows Server 2003 Computer for Exchange Server Installation. . . . .	43
	Suggested Practices. . . . .	44
	Prepare the Infrastructure for Exchange Installation. . . . .	44
	Prepare Servers for Exchange Installation. . . . .	44
	Take a Practice Test. . . . .	44
	<b>Installing Exchange Server and Configuring Server Roles. . . . .</b>	<b>47</b>
	Before You Begin. . . . .	47
	Lesson 1: Installing Exchange Server 2007. . . . .	49
	Choosing the Appropriate Role or Roles for the Server. . . . .	49
	Preparing an Exchange Server 2007 Cluster. . . . .	54
	Load Balancing. . . . .	54
1	Installing Exchange Server 2007 Using the GUI . . . . .	55
	Command-Line and Unattended Installations of Exchange Server 2007 . . . .	57
	Installing an Edge Transport Server. . . . .	59
	Postinstallation Tasks. . . . .	60
	Enter the Product Key. . . . .	63
	Installing Antivirus and Anti-spam. . . . .	64
	Securing Communication. . . . .	65
	Practice: Exchange Server 2007 Installation and Setup . . . . .	67
	Lesson Summary. . . . .	79
	Lesson Review. . . . .	79

Lesson 2: Configuring Exchange Server Roles . . . . .	82
Configuring the Edge Transport Server Role. . . . .	83
Configuring the Hub Transport Server Role. . . . .	85
Configuring the Client Access Server Role. . . . .	87
Configuring the Mailbox Server Role. . . . .	93
Removing Exchange Server 2007. . . . .	97
Practice: Exchange Server Role Configuration. . . . .	101
Lesson Summary. . . . .	108
Lesson Review. . . . .	109
Chapter Review. . . . .	112
Chapter Summary. . . . .	112
Key Terms. . . . .	112
Case Scenarios. . . . .	113
Case Scenario 1: Wingtip Toys Exchange Server 2007 Deployment. . . . .	113
Case Scenario 2: Contoso Postdeployment Role Configuration. . . . .	113
Suggested Practices. . . . .	114
Install Exchange. . . . .	114
Configure Exchange Server Roles. . . . .	114
Take a Practice Test . . . . .	115
Configuring Recipients, Groups, and Mailboxes. . . . .	117
Before You Begin. . . . .	118
Lesson 1: Configuring Recipients. . . . .	120
Creating and Configuring Mailbox-Enabled User Accounts. . . . .	120
Creating and Configuring Mail-Enabled User Accounts. . . . .	130
Configuring Mail-Enabled Contacts. . . . .	135
Practice: Configuring Recipient Accounts. . . . .	138
Lesson Summary. . . . .	146
Lesson Review. . . . .	146
Lesson 2: Configuring Mail-Enabled Groups. . . . .	149
Creating Distribution Groups. . . . .	149
Creating a Universal Distribution Group. . . . .	151
Creating a Dynamic Distribution Group. . . . .	152

££	Disabling, Enabling, and Removing Distribution Groups	154
£3..	Modifying Distribution Group Properties	156
3	Configuring Mail-Enabled Security Groups	158
	Practice: Creating a Dynamic Distribution Group	160
,',..	Lesson Summary	164
XQ	Lesson Review	165
-..	Lesson 3: Configuring Resource Mailboxes	167
, { . . . ,	Creating Resource Mailboxes	168
/ ..	Modifying Resource Mailboxes	169
l	Practice: Creating and Configuring a Room Mailbox	171
f^	Lesson Summary	175
•	Lesson Review	175
	Chapter Review	177
	Chapter Summary	177
	Key Terms	177
	Case Scenarios	178
	Case Scenario 1: Creating Recipients	178
	Case Scenario 2: Creating Mail-Enabled Groups and Resource Mailboxes	179
	Suggested Practices	179
	Add and Configure Recipients	179
	Create and Configure Groups and Resource Mailboxes	180
	Take a Practice Test	180
4	Configuring Public Folders	183
	Before You Begin	183
	Lesson 1: Configuring Public Folders	185
	Using Public Folders	185
	Public Folder Hierarchy	188
	Mail-Enabled Public Folders	192
	Using the Exchange Management Shell to Manage Public Folders	193
	Creating Public Folders	200
	Removing Public Folders	203
	Modifying Public Folder Properties	203

Practice: Creating and Configuring Public Folders . . . . .	210
Lesson Summary . . . . .	217
Lesson Review . . . . .	217
Chapter Review . . . . .	220
Chapter Summary . . . . .	220
Key Terms . . . . .	220
Case Scenarios . . . . .	221
Case Scenario 1: Creating and Mounting a Public Folder Database . . . . .	221
Case Scenario 2: Creating, Configuring, and Mail-Enabling Public Folders . . . . .	221
Suggested Practices . . . . .	222
Configure Public Folders . . . . .	222
Configure Public Folder E-Mail Settings . . . . .	222
Take a Practice Test . . . . .	223
<b>Moving Mailboxes and Implementing Bulk Management . . . . .</b>	<b>225</b>
Before You Begin . . . . .	225
Lesson 1: Moving Mailboxes . . . . .	227
Investigating Scenarios That Require Mailbox Moves . . . . .	227
Creating Multiple Mailbox-Enabled Users . . . . .	231
Moving Mailboxes and Scheduling Mailbox Moves . . . . .	234
Setting and Verifying Applicable Policies . . . . .	245
Practice: Creating and Moving Mailboxes in Bulk . . . . .	251
Lesson Summary . . . . .	257
Lesson Review . . . . .	257
Lesson 2: Implementing Bulk Management of Mail-Enabled Objects . . . . .	260
Configuring Bulk Management . . . . .	260
Using PowerShell Scripts for Bulk Management . . . . .	268
Scheduling Bulk Management . . . . .	274
Practice: Using and Scheduling a PowerShell Script to Create Mailbox-Enabled Users . . . . .	277
Lesson Summary . . . . .	282
Lesson Review . . . . .	282
Chapter Review . . . . .	286
Chapter Summary . . . . .	286

0<'. vi •» siS, . . . . 0»\ 0*S WS . . . . IIS. . . . . ^	Key Terms . . . . . Case Scenarios. . . . . Case Scenario 1: Configuring and Moving Mailboxes. . . . . Case Scenario 2: Implementing Bulk Management . . . . . Suggested Practices. . . . . Moving Mailboxes. . . . . Bulk Management . . . . . Take a Practice Test . . . . .	286 287 287 287 288 288 289 289
	<b>Spam, Viruses, and Compliance. . . . .</b>	<b>291</b>
"	Before You Begin. . . . .	292
"	Lesson 1: Configuring the Antivirus and Anti-Spam System. . . . .	293
" "	Configuring Exchange Server 2007 Anti-Spam Features. . . . .	293
	Forefront Security for Exchange Server. . . . .	303
	Practice: Setting Up the Antivirus and Anti-Spam Features of Exchange Server 2007. . . . .	306
	Lesson Summary. . . . .	310
	Lesson Review. . . . .	310
	Lesson 2: Configuring Transport and Message Compliance. . . . .	313
	Configuring Message Compliance. . . . .	313
	Configuring Transport Rules. . . . .	320
	Message Screening. . . . .	325
	Practice: Setting Up Transport and Message Compliance. . . . .	328
	Lesson Summary. . . . .	332
	Lesson Review. . . . .	332
	Chapter Review. . . . .	335
	Chapter Summary. . . . .	335
	Key Terms. . . . .	336
	Case Scenarios. . . . .	336
	Case Scenario 1: Exchange Server 2007 as an Anti-Spam Solution for Coho Vineyard. . . . .	336
	Case Scenario 2: Configuring Message and Transport Compliance for a Law Firm. . . . .	337
	Suggested Practices. . . . .	337

Configure the Antivirus and Anti-spam System. . . . .	337
Transport Rules and Message Compliance. . . . .	338
Take a Practice Test . . . . .	338
<b>Connectors and Connectivity. . . . .</b>	<b>339</b>
Before You Begin. . . . .	339
Lesson 1: Configuring Connectors. . . . .	341
Receive Connectors. . . . .	341
Send Connectors. . . . .	347
Using Telnet to Test SMTP Communication. . . . .	349
Practice: Connector Configuration. . . . .	350
Lesson Summary. . . . .	354
Lesson Review. . . . .	354
Lesson 2: Configuring Client Connectivity. . . . .	357
Configuring Mobile Device Policies. . . . .	357
Configuring Autodiscover. . . . .	363
Configuring the Availability Service. . . . .	365
Configuring and Managing IMAP4 and POP3. . . . .	366
Practice: Managing Client Connectivity. . . . .	370
Lesson Summary. . . . .	372
Lesson Review. . . . .	373
Chapter Review. . . . .	376
Chapter Summary. . . . .	376
Key Terms. . . . .	377
Case Scenarios. . . . .	377
Case Scenario 1: Contoso Connector Configuration. . . . .	377
Case Scenario 2: Coho Vineyard Mobile Devices. . . . .	378
Suggested Practices. . . . .	378
Adding, Removing, and Modifying Connectors. . . . .	378
Configuring Client Connectivity. . . . .	379
Take a Practice Test . . . . .	379
<b>Policies and Public Folders. . . . .</b>	<b>381</b>
Before You Begin. . . . .	381



Lesson 1: Configuring Policies . . . . .	383
E-Mail Address Policies . . . . .	383
Address Lists . . . . .	387
Address Books . . . . .	389
Out-of-Office Policies . . . . .	392
Managing Mobile Device Policies . . . . .	394
Content Indexing . . . . .	397
Practice: Setting Policies . . . . .	400
Lesson Summary . . . . .	406
Lesson Review . . . . .	406
Lesson 2: Configuring Public Folders . . . . .	409
Public Folder Replication . . . . .	409
Public Folder Permissions . . . . .	411
Mail-Enabled Public Folder Settings . . . . .	412
Practice: Public Folder Management . . . . .	413
Lesson Summary . . . . .	415
Lesson Review . . . . .	416
Chapter Review . . . . .	418
Chapter Summary . . . . .	418
Key Terms . . . . .	418
Case Scenarios . . . . .	419
Case Scenario 1: Address Lists at Coho Vineyard . . . . .	419
Case Scenario 2: Public Folder Management at Fabrikam . . . . .	419
Suggested Practices . . . . .	420
Configuring Exchange Server 2007 Policies . . . . .	420
Managing Exchange Server 2007 Public Folders . . . . .	420
Take a Practice Test . . . . .	421
<b>Monitoring . . . . .</b>	<b>423</b>
Before You Begin . . . . .	423
Lesson 1: Monitoring Mail Queues . . . . .	425
Managing and Monitoring Queues . . . . .	425
* Deleting Messages from Queues . . . . .	432
Finding Specific Messages in a Queue . . . . .	435

	Forcing Retry Messages in a Queue . . . . .	443
	Monitoring Queue Thresholds . . . . .	445
	Practice: Locating and Monitoring E-Mail Messages . . . . .	453
	Lesson Summary . . . . .	461
	Lesson Review . . . . .	461
	Lesson 2: Monitoring System Performance . . . . .	464
	Monitoring Hardware . . . . .	465
	Monitoring with Event Viewer, HTTPMon, and PowerShell . . . . .	470
	Monitoring Network Activities by Using Network Monitor . . . . .	478
	Using Exchange Troubleshooting Assistant . . . . .	484
	Practice: Installing Exchange Troubleshooting Assistant and Using the Message Tracking Tool . . . . .	492
	Lesson Summary . . . . .	497
	Lesson Review . . . . .	497
	Chapter Review . . . . .	500
	Chapter Summary . . . . .	500
	Key Terms . . . . .	500
	Case Scenarios . . . . .	501
	Case Scenario 1: Checking Message Queues . . . . .	501
	Case Scenario 2: Monitoring Exchange Server 2007 Servers . . . . .	501
	Suggested Practices . . . . .	502
	Monitor Mail Queues . . . . .	502
	Monitor System Performance . . . . .	503
	Take a Practice Test . . . . .	503
10	Message Tracking and Mailbox Health . . . . .	505
	Before You Begin . . . . .	506
	Lesson 1: Performing Message Tracking . . . . .	508
	Tracking Messages . . . . .	508
	Configuring Message Tracking . . . . .	519
	Reading and Interpreting the Message Tracking Log . . . . .	530
	Practice: Changing the Location of the Message Tracking Log and Tracking Messages . . . . .	532
	Lesson Summary . . . . .	538



Lesson Review	538
... Lesson 2: Monitoring Client Connectivity	540
Viewing Mailbox Statistics	540
Filtering and Analyzing Mailbox Statistics	548
Viewing Perfmon Counters	550
Managing Protocol Logging	557
Configuring Protocol Logs	560
Reading and Interpreting Protocol Logs	563
Testing POP3 and IMAP4 Connectivity	565
Practice: Reading and Filtering Mailbox Statistics	570
Lesson Summary	576
Lesson Review	576
Chapter Review	579
Chapter Summary	579
Key Terms	579
Case Scenarios	580
Case Scenario 1: Tracking Messages	580
Case Scenario 2: Configuring Baseline Counter Logs	581
Suggested Practices	581
Message Tracking	581
Monitoring Client Connectivity	582
Take a Practice Test	583
<b>11 Reporting</b>	<b>585</b>
Before You Begin	586
Lesson 1: Creating Server Reports	588
Creating Server Availability Reports	588
Using the Reports View in Performance Logs and Alerts	591
Creating Reports by Using EXBPA	593
Creating Database Reports	599
Creating Message Queue Reports	601
Practice: Using EXBPA to Generate a Health Report	605
Lesson Summary	608
Lesson Review	609

Lesson 2: Creating Usage Reports . . . . .	611
Using Microsoft Operations Management to Create Mailbox Usage Reports . . . . .	612
Creating User Reports . . . . .	616
Creating Mailbox Reports . . . . .	618
Creating Top Receivers and Top Senders Reports . . . . .	621
Creating Number of Virus, Spam, and External Messages Reports . . . . .	623
Creating Reports on Number of Users of a Particular Protocol . . . . .	630
Practice: Creating Mailbox Reports . . . . .	633
Lesson Summary . . . . .	636
Lesson Review . . . . .	636
Chapter Review . . . . .	638
Chapter Summary . . . . .	638
Key Terms . . . . .	638
Case Scenarios . . . . .	639
Case Scenario 1: Creating Server Reports . . . . .	639
Case Scenario 2: Creating Usage Reports . . . . .	639
Suggested Practices . . . . .	640
Creating Server Reports . . . . .	640
Creating Usage Reports . . . . .	641
Take a Practice Test . . . . .	641
<b>Configuring Disaster Recovery . . . . .</b>	<b>643</b>
Before You Begin . . . . .	644
Lesson 1: Configuring Backups . . . . .	646
Selecting a Backup Type . . . . .	647
Creating Backup Jobs . . . . .	650
Modifying Backup Jobs . . . . .	660
Performing Restore to Confirm Backup Validity . . . . .	661
Monitoring Backups for Successful Completion . . . . .	663
Using Shadow Copy Backup . . . . .	667
Practice: Performing a Backup and Restore . . . . .	673
Lesson Summary . . . . .	677
Lesson Review . . . . .	678

	Lesson 2: Recovering Messaging Data . . . . .	680
	Recovering Messages . . . . .	681
	Recovering Mailboxes . . . . .	686
	Using Recovery Storage Groups . . . . .	689
	Recovering Databases with Dial Tone Recovery . . . . .	694
	Repairing a Damaged Database . . . . .	699
	Practice: Recovering a Hard Deleted Message from Backup . . . . .	706
	Lesson Summary . . . . .	710
	Lesson Review . . . . .	711
	Chapter Review . . . . .	714
	Chapter Summary . . . . .	714
	Key Terms . . . . .	714
	Case Scenarios . . . . .	715
	Case Scenario 1: Designing a Backup Regime . . . . .	715
	Case Scenario 2: Restoring Data . . . . .	716
	Suggested Practices . . . . .	716
	Performing Backups . . . . .	716
	Performing Restores . . . . .	717
	Take a Practice Test . . . . .	717
<b>13</b>	<b>Recovering Server Roles and Configuring High Availability . . . . .</b>	<b>719</b>
	Before You Begin . . . . .	719
	Lesson 1: Recovering Exchange Server Roles . . . . .	721
	Basic Recovery Procedure . . . . .	721
	Recover a Client Access Server . . . . .	723
	Recover a Hub Transport Server . . . . .	723
	Recover an Edge Transport Server . . . . .	725
	Recovering a Mailbox Server . . . . .	727
	Practice: Exchange Server 2007 Role Recovery . . . . .	728
	Lesson Summary . . . . .	729
	Lesson Review . . . . .	730
	Lesson 2: Exchange Server 2007 High Availability . . . . .	732
	Implementing Local Continuous Replication . . . . .	732
	Implementing Cluster Continuous Replication . . . . .	734

Single Copy Clustering . . . . .	737
Implementing Network Load Balancing . . . . .	740
Implementing DNS Round-Robin . . . . .	740
High Availability and Exchange Management Shell . . . . .	741
Practice: Configuring and Managing Local Continuous Replication . . . . .	743
Lesson Summary . . . . .	747
Lesson Review . . . . .	748
Chapter Review . . . . .	750
Chapter Summary . . . . .	750
Key Terms . . . . .	750
Case Scenarios . . . . .	751
Case Scenario 1: Recovering the Fabrikam Client Access Server . . . . .	751
Case Scenario 2: A High Availability Solution for Coho Vineyard . . . . .	751
Suggested Practices . . . . .	752
Recover Server Roles . . . . .	752
Configure High Availability . . . . .	752
Take a Practice Test . . . . .	753
Answers . . . . .	755
Glossary . . . . .	817
Index . . . . .	825

x x i



**What do you think of this book? We want to hear from you!**

P 11-

Microsoft is interested in hearing your feedback so we can continually improve our books and learning resources for you. To participate in a brief online survey, please visit:

[www.microsoft.com/learning/booksurvey/](http://www.microsoft.com/learning/booksurvey/)