20342 - Advanced Solutions of Microsoft Exchange Server 2013

Duration: **5 days**

Overview:

This course will provide you with the knowledge and skills to configure and manage a Microsoft Exchange Server 2013 messaging environment. This course will teach you how to configure Exchange Server 2013, and it will provide guidelines, best practices, and considerations that will help you optimise your Exchange Server deployment.

Target Audience:

This course is intended for people aspiring to be enterprise-level messaging administrators. Others who may take this course include IT generalists and help desk professionals who want to learn about Exchange Server 2013. People coming into the course are expected to have at least 3 years of experience working in the IT field—typically in the areas of network administration, help desk, or system administration. Students are expected to have experience with Exchange Server 2013 or with previous versions of Exchange Server
In addition, this course is intended as preparation material for IT professionals who are looking to take the exam 70-342: Microsoft Exchange Server 2013, Advanced Solutions, as a stand-alone, or as part of the requirement for the MCSE: Microsoft Exchange Server 2013 certification.

Pre-requisites:

In addition to their professional experience, students who attend this training should already have attended course 20341: Core Solutions of Microsoft Exchange Server 2013 or have the following equivalent technical knowledge:

- Minimum of two years of experience working with Exchange Server
- Minimum of six months of experience working with Exchange Server 2010 or Exchange Server 2013
- Minimum of two years of experience administering Windows Server, including Windows Server

Module 1: Overview of Exchange Server 2013 Unified Messaging

Lessons
- Lesson 1: Telephony technologies overview
- Lesson 2: Unified Messaging in Exchange Server 2013
- Lesson 3: Unified Messaging components

Lab : Unified Messaging Overview
- Exercise 1: Identifying Unified Messaging components

Module 2: Designing and implementing Exchange Server 2013 Unified Messaging

Lessons
- Lesson 1: Designing a Unified Messaging deployment
- Lesson 2: Deploying and configuring Unified Messaging components
- Lesson 3: Integrating Exchange Server 2013 Unified Messaging with Lync

Lab : Designing and Implementing Exchange Server 2013 Unified Messaging
- Exercise 1: Designing the Unified Messaging implementation
- Exercise 2: Configuring Unified Messaging features
- Exercise 3: Configuring Unified Messaging integration with Lync Server 2013

Module 3: Designing and implementing site resiliency

Lessons
- Lesson 1: Site resiliency in Exchange Server 2013
- Lesson 2: Planning a site resilient implementation
- Lesson 3: Implementing site resiliency

Lab : Designing and implementing site resiliency
- Exercise 1: Designing a site resilient solution
- Exercise 2: Implementing site resiliency
- Exercise 3: Validating site resiliency

Module 4: Planning virtualisation for Exchange Server 2013

Lessons
- Lesson 1: Hyper-V 3.0 overview
- Lesson 2: Virtualising Exchange Server 2013 server roles

Lab : Planning virtualisation of Exchange Server roles
- Exercise 1: Designing an Exchange Server 2013 deployment for a large organisation
- Exercise 2: Designing an Exchange Server 2013 deployment for a medium organisation
- Exercise 3: Designing an Exchange Server 2013 deployment for a medium complex organisation

Module 5: Designing and implementing message transport security

Lessons
- Lesson 1: Overview of policy and compliance requirements
- Lesson 2: Designing and implementing transport compliance
- Lesson 3: Designing and implementing AD RMS integration with Exchange Server 2013

Lab : Designing and implementing message transport security
- Exercise 1: Planning a message transport implementation
- Exercise 2: Implementing message transport security
- Exercise 3: Implementing AD RMS and Exchange Server integration

Module 6: Designing and implementing message retention

Lessons
- Lesson 1: Message records management and archiving overview
- Lesson 2: Designing in-place archiving
- Lesson 3: Designing and implementing message retention

Lab : Designing and implementing message retention
- Exercise 1: Designing message retention and archiving
- Exercise 2: Implementing message retention and archiving

2008 R2 or Windows Server 2012
- Minimum of two years of experience working with Active Directory
- Minimum of two years of experience working with name resolution, including DNS
- Experience working with certificates, including public key infrastructure (PKI) certificates
- Experience working with Windows PowerShell

At Course Completion:

After completing this course, students will be able to:

- Design and implement Exchange Server 2013 Unified Messaging
- Design and implement site resiliency for Exchange Server 2013
- Plan a virtualisation strategy for Exchange Server 2013 roles
- Design and implement message transport security
- Design and implement message retention in Exchange Server 2013
- Design and implement messaging compliance
- Design and implement administrative security in an Exchange Server 2013 environment
- Use Windows PowerShell 3.0 to manage Exchange Server 2013
- Design and implement integration with Exchange Online
- Design and implement messaging coexistence
- Design and implement Exchange Server migrations from non-Exchange messaging systems, and upgrades from previous Exchange Server versions

Module 7: Designing and implementing messaging compliance

Lessons
- Lesson 1: Designing and implementing data loss prevention
- Lesson 2: Designing and implementing an in-place hold
- Lesson 3: Designing and implementing in-place e-discovery

Lab : Designing and implementing messaging compliance
- Exercise 1: Designing messaging compliance
- Exercise 2: Implementing data loss prevention
- Exercise 3: Implementing in-place e-discovery
- Exercise 4: Comparing messaging policy and compliance options

Module 8: Designing and implementing administrative security and auditing

Lessons
- Lesson 1: Designing and implementing role based access control
- Lesson 2: Designing and implementing split permissions
- Lesson 3: Planning and implementing audit logging

Lab : Designing and implementing administrative security and auditing
- Exercise 1: Designing a solution to fulfill requirements
- Exercise 2: Implementing role based access control
- Exercise 3: Implementing mailbox access and administrative logging
- Exercise 4: Implementing and testing split permissions

Module 9: Managing Exchange Server 2013 with Exchange Management Shell

Lessons
- Lesson 1: Overview of Windows PowerShell 3.0
- Lesson 2: Using Exchange Management Shell to manage Exchange Server recipients
- Lesson 3: Managing Exchange Server 2013 with Exchange Management Shell

Lab : Managing Exchange Server 2013 with Exchange Management Shell
- Exercise 1: Exploring Exchange Management Shell
- Exercise 2: Using Exchange Management Shell to manage recipients

Module 10: Designing and implementing integration with Exchange Online

Lessons
- Lesson 1: Planning for Exchange Online
- Lesson 2: Planning and implementing the migration to Exchange Online
- Lesson 3: Planning coexistence with Exchange Online

Lab : Designing integration with Exchange Online
- Exercise 1: Designing integration with Exchange Online
- Exercise 2: Implementing integration with Exchange Online

Module 11: Designing and implementing messaging coexistence

Lessons
- Lesson 1: Designing and implementing federation
- Lesson 2: Designing coexistence between Exchange organisations
- Lesson 3: Designing and implementing cross-forest mailbox moves

Lab : Implementing messaging coexistence
- Exercise 1: Implementing Message Routing Coexistence
- Exercise 2: Migrating user mailboxes
- Exercise 3: Configuring administrative coexistence

Module 12: Designing and implementing Exchange Server migrations and upgrades

Lessons
- Lesson 1: Designing migration from non-Exchange email systems
- Lesson 2: Planning the upgrade from previous Exchange versions
- Lesson 3: Implementing the migration from previous Exchange versions

Lab : Designing and implementing Exchange Server migrations
- Exercise 1: Planning the migration strategy
- Exercise 2: Deploying Exchange Server 2013 in an Exchange Server 2007 organisation
- Exercise 3: Migrating all messaging components to Exchange Server 2013
- Exercise 4: Removing the Exchange Server 2007 server