Designing and Deploying Microsoft Exchange Server 2016 (20345-2)

Duration: 2 Days

US Price: $895

Delivery Option: Attend via MOC On-Demand

Description

This is a Microsoft Official Course (MOC) and includes Microsoft courseware and hands-on labs. This course provides experienced Exchange Server administrators with the knowledge to design and implement an Exchange Server 2016 messaging environment. Students will learn how to design and configure advanced components in an Exchange Server 2016 deployment such as site resiliency, advanced security, compliance, archiving, and discovery solutions. In addition, students will learn about coexistence with other Exchange organizations or Exchange Online, and migration from previous versions of Exchange Server. The course will provide guidelines, best practices, and considerations that will help students optimize their Exchange Server deployment.

This course is intended for IT professionals who are experienced messaging administrators, messaging architects, or consultants. This course is designed for professionals in an enterprise environment who are responsible for designing and deploying Exchange Server 2016 solutions, including environments that contain previous versions of Exchange Server or Exchange Online. Students are expected to have experience with Exchange Server 2016 or previous versions of Exchange Server.

This course is also intended as preparation material for IT professionals who are looking to take the 70-345: Designing and Deploying Microsoft Exchange Server 2016 exam.

Prerequisites

Before attending this course, students must have:

- Attended course 20345-1A: Administering Microsoft Exchange Server 2016, or have equivalent knowledge
- Minimum two years of experience working with any version of Exchange Server
- Minimum of two years of experience administering the Windows Server 2012 R2
- Minimum two years of experience working with Active Directory Domain Services (AD

DS)
- Minimum of two years of experience working with name resolution, including Domain Name System (DNS)
- Experience working with certificates, including public key infrastructure (PKI) certificates
- Experience working with Windows Powershell

About MOC On-Demand

Microsoft Official Courses On-Demand (MOC On-Demand) uses a combination of streaming video, text, lab exercises and assessment checks throughout the course. MOC On-Demand courses are available for 90 days and recommend the following system requirements:

- Browser: Current version of Internet Explorer, Microsoft Edge, Google Chrome or Firefox
- Internet: Broadband Internet connection of over 4Mbps
- Screen Resolution: 1280 x 1024 or higher

Course Overview

Module 1: Planning Exchange Server 2016 Deployments

This module explains the requirements and considerations for planning an Exchange Server deployment.

Lessons

- New features in Exchange Server 2016
- Gathering business requirements for an Exchange Server 2016 deployment
- Planning for an Exchange Server deployment
- Designing a Unified Messaging (UM) deployment

Labs

- Evaluating an existing messaging infrastructure
- Identifying requirements
- Discussion: Deployment design for Exchange Server 2016

Module 2: Planning and Deploying Exchange Server 2016 Mailbox Services

This module explains how to plan and deploy Exchange Server hardware, virtualization, mailbox databases, and public folders.

Lessons

- Planning Exchange Server hardware requirements
- Planning Exchange Server for virtualization and Microsoft Azure integration
- Planning and implementing public folders

Labs

- Planning for virtualization
- Planning for mailbox databases
- Implementing mailbox databases
- Planning and implementing public folders

Module 3: Planning and Deploying Message Transport

This module explains how to plan and implement mail routing internally from and to the Internet, and transport-related tasks in the organization.

Lessons

- Designing message routing
- Designing transport services
- Designing the message-routing perimeter
- Designing and implementing transport compliance

Labs

- Planning for a redundant and secure message transport
- Planning for transport compliance
- Implementing transport compliance

Module 4: Planning and Deploying Client Access

This module explains how to plan for client connectivity and client access in Exchange Server 2016. This module also describes how to implement Microsoft Office Online Server, and the coexistence of SharePoint 2016 with Exchange.

Lessons

- Planning for Exchange Server 2016 clients
- Planning for client access
- Planning and implementing Office Online Server
- Planning and implementing coexistence of SharePoint 2016 with Exchange

- Designing external client access

- Planning and configuring namespaces
- Planning and configuring client access services options
- Planning and deploying Office Online Server
- Planning and implementing reverse proxy

Module 5: Designing and Implementing High Availability

This module explains how to design and implement a highly available solution for Exchange Server 2016.

Lessons

- Planning high availability for Exchange Server 2016
- Planning for load balancing
- Planning for site resilience

Labs

- Creating a lag database copy
- Recovering data from a lagged database copy
- Implementing site resilience
- Validating site resilience

Module 6: Maintaining Exchange Server 2016

This module explains how to maintain Exchange Server 2016 using Managed Availability and Desired State Configuration (DSC).

Lessons

- Using Managed Availability to improve high availability
- Implementing DSC

Labs

- Using Windows PowerShell to investigate and configure Managed Availability
- Implementing DSC

Module 7: Designing Messaging Security

This module explains how to plan for messaging security and design and implement Active Directory Rights Management Services (AD RMS) and Azure RMS in an Exchange Server organization.

Lessons

- Planning messaging security
- Designing and implementing AD RMS and Azure RMS integration

Labs

- Implementing AD RMS
- Integrating AD RMS with Exchange Server
- Creating a message transport rule to protect email
- Protecting an email with AD RMS

Module 8: Designing and Implementing Message Retention

This module explains how to plan for archiving and message retention.

Lessons

- Overview of messaging records management and archiving
- Designing In-Place Archiving
- Designing and implementing message retention

Labs

- Designing message retention and archiving
- Implementing message retention and archiving

Module 9: Designing Messaging Compliance

This module explains how to plan for and implement several Exchange features to help minimize data loss and monitor email traffic and content.

Lessons

- Designing and implementing data loss prevention
- Designing and implementing In-Place Hold
- Designing and implementing In-Place eDiscovery

Labs

- Designing messaging compliance

- Implementing data los prevention
- Implementing In-Place eDiscovery
- Comparing messaging policy and compliance options

Module 10: Designing and Implementing Messaging Coexistence

This module explains how to plan and implement federation, design coexistence between Exchange organizations, and design and move mailboxes between different forests and Exchange organizations.

Lessons

- Designing and implementing federation
- Designing coexistence between Exchange organizations
- Designing and implementing cross-forest mailbox moves

Labs

- Implementing message-routing coexistence
- Migrating user mailboxes

Module 11: Upgrading to Exchange Server 2016

This module explains how to plan and implement an upgrade from previous Exchange Server 2013 or Exchange Server versions to Exchange Server 2016.

Lessons

- Planning an upgrade from previous Exchange Server versions
- Implementing the upgrade from previous Exchange Server versions

Labs

- Documenting the Exchange Server 2013 organization
- Deploying Exchange Server 2016
- Upgrading from Exchange Server 2013 to Exchange Server 2016
- Removing Exchange Server 2013

Module 12: Planning a Hybrid Exchange Server Deployment

This module explains how to plan and implement a hybrid deployment for Exchange

Server 2016.

Lessons

- Basics of a hybrid deployment
- Planning and implementing a hybrid deployment
- Implementing advanced functionality for hybrid deployments

Lab

- Designing the integration with Exchange Online