

KOENIG SOLUTIONS • COURSE OUTLINE

20345-1B: Administering Microsoft Exchange Server 2016/2019

Learn to deploy, manage and secure Exchange Server 2016/2019, from storage and recipients to high availability and Exchange Online.

4 Days

32 HOURS

12

MODULES

40

TOPICS

36

HANDS-ON ACTIVITIES

COURSE OVERVIEW

The 20345-1B: Administering Microsoft Exchange Server 2016/2019 course is a comprehensive training program designed for IT professionals who aspire to administer and support Exchange Server 2016/2019 environments. Covering both the deployment and management aspects of Exchange Server, the course provides learners with the necessary skills to maintain, optimize, and troubleshoot Exchange Server infrastructure for efficient and secure operations. Starting with an overview of Exchange Server, learners gain insight into the architecture and requirements for deploying Exchange Server, including the Exchange Server 2016 and Exchange Server 2019 cost considerations. Practical labs reinforce the deployment process, including the use of Exchange Server Management Tools. As the course progresses, students learn to manage storage, recipient objects, and Client connectivity, leveraging both the graphical interface and Exchange Management Shell cmdlets. High availability, disaster recovery, Message transport, security, and compliance are also key components, ensuring that students can secure and maintain a robust messaging environment. The course concludes with modules on monitoring, troubleshooting, and managing Exchange Online deployments, equipping learners with the versatility to handle both on-premises and cloud-based Exchange infrastructures.

Who Should Attend

The course 20345-1B prepares IT professionals to manage and administer Microsoft Exchange Server 2016/2019, enhancing enterprise communication.

IT professionals responsible for managing Exchange Servers

Systems administrators

Network administrators

Messaging administrators

Support technicians working with Exchange Server environments

Technical consultants who design and implement messaging solutions for enterprises

IT generalists who wish to learn about Exchange Server 2016/2019

Help desk professionals looking to advance their skills in Exchange Server management

IT professionals seeking certification in Microsoft Exchange Server as part of career growth

LEARNING OBJECTIVES

- Explain Exchange Server architecture and deployment requirements
- Configure Exchange Server mailbox databases and storage
- Manage recipient objects, address lists and policies
- Apply Exchange Management Shell cmdlets and scripts for administration
- Configure client connectivity including Outlook on the web
- Implement high availability and disaster recovery for Exchange Server
- Configure message transport, transport rules and message security
- Secure Exchange Server using RBAC and manage Exchange Online migrations

COURSE SYLLABUS

12 Modules, 40 Topics

01

4 Activities

Deploying Exchange Server

This module explains the key features and architecture of Exchange Server. It also explains the prerequisites and requirements for deploying Exchange Server. Additionally, it explains how to use the Exchange admin center and the Exchange management shell to manage Exchange Server.

TOPICS

Overview of Exchange Server · Exchange Server architecture · Requirements for Exchange Server · Deploying Exchange Server Exchange Server · Exchange Server Management Tools

02**Activity**

Managing Exchange Server 2016 Storage

This module explains the features of Exchange Server mailbox databases and the storage options available for Exchange Server. It also explains how to configure Exchange Server mailbox databases and storage.

TOPICS

- Exchange Server mailbox databases
- Exchange Server storage
- Configuring Exchange Server mailbox databases and storage

03**2 Activities****2 Activities**

Managing Recipient Objects

This module explains how to manage the user, shared, resource, public folder, arbitration mailboxes in Exchange Server. It also explains how to manage contacts, mail users, and distribution groups in Exchange Server. Finally, it explains how to configure address lists and email address and address book policies in Exchange Server.

TOPICS

Managing user mailboxes · Managing other types of mailboxes · Managing other recipients' objects · Configuring policies and address lists

04**2 Activities**

Managing Recipients and Exchange Servers by Using Exchange Server Cmdlets

This module describes how to manage recipients by using Exchange Server cmdlets. It also explains how to manage Exchange servers by using Exchange Server cmdlets and scripts.

TOPICS

- Overview of the Exchange Management Shell
- Managing Exchange Servers by using Exchange Management Shell cmdlets
- Managing Exchange servers by using scripts

05**3 Activities****3 Activities**

Implementing Client Connectivity

This module explains how to configure and manage client access services in Exchange Server. It also explains the client connectivity options for Exchange Server and how to configure Outlook on the web. Additionally, it explains how to configure mobile messaging for Exchange Server.

TOPICS

Configuring client access services · Managing client access services · Client connectivity in Exchange Server · Configuring Outlook on the web · Configuring mobile messaging

06

Activity

2 Activities

Managing High Availability in Exchange Server

This module describes the high availability options for Exchange Server. It also explains how to configure highly available mailbox databases and Client Access services by using load balancing methods.

TOPICS

- High availability on Exchange Server
- Configuring highly available mailbox databases
- Configuring high availability of Client Access services

07

Activity

2 Activities

Implementing Disaster Recovery for Exchange Server

This module describes Exchange Server backup and restore features and the details that you need to consider when you create a backup plan.

TOPICS

Implementing Exchange Server backup · Implementing Exchange Server recovery

08

4 Activities

Configuring and Managing Message Transport

This module explains messaging transport in Exchange Server. It also explains how to configure message transport in Exchange Server and manage transport rules in Exchange Server.

TOPICS

Overview of message transport · Configuring message transport · Managing transport rules

09

2 Activities

Configuring Message Security

This module describes how to deploy and manage an Edge Transport server for message security. It also explains how to implement antivirus and antispam solutions for Exchange Server.

TOPICS

- Deploying and managing an Edge Transport server for message security
- Implementing an antivirus solution for Exchange Server
- Implementing an antispam solution for Exchange Server

10**3 Activities**

Monitoring and Troubleshooting Exchange Server

This module explains how to configure performance monitoring and troubleshoot issues in Exchange Server.

TOPICS

Monitoring Exchange Server · Troubleshooting Exchange Server

11**3 Activities**

Securing and Maintaining Exchange Server

This module explains how to secure Exchange Server by using role-based access control (RBAC). It also explains how to configure audit logging in Exchange Server and how to maintain and update Exchange Server.

TOPICS

Securing Exchange Server by using RBAC · Configuring audit logging in Exchange Server · Maintaining Exchange Server

12**Activity**

Implementing and Managing Exchange Online Deployments

This module explains Exchange Online and Office 365 and how to manage it. It also explains how to implement a migration to Exchange Online.

TOPICS

Overview of Exchange Online and Office 365 · Managing Exchange Online · Implementing the migration to Exchange Online · Managing a hybrid environment

Practise What You Learn

#	MODULE	ACTIVITY
01	Deploying Exchange Server	LAB: DEPLOYING EXCHANGE SERVER - Evaluating requirements and prerequisites for an Exchange Server 2019 installation - Deploying Exchange Server 2019 - Verifying Exchange Server functionality - Installing Exchange Server 2019 on Windows Server Core 2019 (optional)
02	Managing Exchange Server 2016 Storage	Lab: Configuring Exchange Server storage: Creating and configuring mailbox databases
03	Managing Recipient Objects	LAB: MANAGING RECIPIENT OBJECTS - Configuring recipient objects - Managing public folder mailboxes LAB: CONFIGURING ADDRESS LISTS AND POLICIES - Managing email address policies - Managing address lists and address book policies
04	Managing Recipients and Exchange Servers by Using Exchange Server Cmdlets	LAB: MANAGING EXCHANGE SERVER AND RECIPIENT OBJECTS BY USING EXCHANGE MANAGEMENT SHELL - Using Exchange Management Shell to manage recipients - Using Exchange Management Shell to manage Exchange Server
05	Implementing Client Connectivity	LAB: CONFIGURING CLIENT ACCESS SERVICES - Configuring namespaces for client access - Configuring certificates for client access - Configuring custom MailTips LAB: DEPLOYING AND CONFIGURING CLIENT ACCESS SERVICES ON EXCHANGE SERVER - Configuring Exchange Server for Outlook - Configuring Outlook on the web - Configuring Microsoft Exchange ActiveSync
06	Managing High Availability in Exchange Server	Lab: Implementing DAGs: Creating and configuring a DAG LAB: IMPLEMENTING AND TESTING HIGH AVAILABILITY - Deploying a high availability solution for Client Access services - Testing the high availability configuration
07	Implementing Disaster Recovery for Exchange Server	Lab: Backing up Exchange Server data: Backing up an Exchange Server mailbox database LAB: RESTORING EXCHANGE SERVER DATA - Restoring Exchange Server mailbox - Restoring a database availability group (DAG) member (optional)

#	MODULE	ACTIVITY
08	Configuring and Managing Message Transport	LAB: CONFIGURING AND MANAGING MESSAGE TRANSPORT ■ Configuring message transport ■ Monitoring and verifying message delivery ■ Configuring a disclaimer transport rule ■ Configuring a DLP policy for financial data
09	Configuring Message Security	LAB: CONFIGURING MESSAGE SECURITY IN EXCHANGE SERVER ■ Configuring and testing EdgeSync ■ Configuring antivirus, antispam and malware protection features
10	Monitoring and Troubleshooting Exchange Server	LAB: MONITORING AND TROUBLESHOOTING EXCHANGE SERVER ■ Monitoring Exchange Server ■ Troubleshooting database availability ■ Troubleshooting Client Access servers
11	Securing and Maintaining Exchange Server	LAB: SECURING AND MAINTAINING EXCHANGE SERVER ■ Configuring Exchange Server permissions ■ Configuring audit logging ■ Maintaining Exchange Server
12	Implementing and Managing Exchange Online Deployments	Lab: Managing Exchange Online: Managing Exchange Online

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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