

# 20345-1 Administering Microsoft Exchange Server 2016/2019

## Course Overview

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This is a 5-day class

This course teaches IT professionals how to administer and support Exchange Server. The course covers how to install and configure Exchange Server. It also covers how to manage mail recipients and public folders, including how to perform bulk operations by using Exchange Management Shell. In addition, the course covers how to manage client connectivity, message transport and hygiene, and highly available Exchange Server deployments. It also covers how to implement disaster recovery solutions. Finally, the course covers how to maintain and monitor an Exchange Server deployment and how to administer Exchange Online in an Office 365 deployment.

## Who Should Attend

The audience for this course includes enterprise-level messaging administrators on Exchange Server. IT generalists and helpdesk professionals who want to learn about Exchange Server may also take this course. Students taking this course are expected to have at least two years of experience working in the IT field—typically in the areas of Windows Server administration, network administration, helpdesk, or system administration. They are also expected to have some experience with Exchange Server concepts but previous experience managing Exchange Server is not a requirement.

## Course Objectives

After completing this course, students will be able to:

- Deploy Exchange Server.
- Plan and configure storage for Exchange Server.
- Create and manage various recipient objects in Exchange Server.
- Perform recipient management and Exchange server management tasks by using Exchange Server cmdlets.
- Deploy Client Access services in Exchange Server.
- Manage high availability in Exchange Server.
- Implement disaster recovery for Exchange Server.
- Configure and manage message transport in Exchange Server.
- Configure message security in Exchange Server.
- Monitor and troubleshoot Exchange Server.
- Configure Exchange Server role-based access control permissions and configure audit logging for both administrators and users.
- Implement and manage integration with Exchange Online.

## Other Prerequisites

Before attending this course, students must have:

- A minimum two years of experience administering Windows Server, including Windows Server 2012 R2 or Windows Server 2016.
- A minimum two years experience working with active Directory Domain Services (AD DS). A minimum two years of experience working with name resolution including Domain Name System (DNS).
- Understanding of TCP/IP and networking concepts.
- Understanding of Windows Server 2012 R2 or later, and AD DS, including planning, designing, and deploying.
- Understanding of security concepts such as authentication and authorization.
- Understanding of Simple Mail Transfer Protocol (SMTP).
- Working knowledge of public key infrastructure (PKI) technologies, including Active Directory Certificate Services (AD CS).

## Course Outline



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## 1 Deploying Exchange Server

Overview of Exchange Server  
Exchange Server architecture  
Requirements for Exchange Server  
Deploying Exchange Server Exchange Server  
Exchange Server Management Tools  
Lab : Deploying Exchange Server

## 2 Managing Exchange Server 2016 storage

Exchange Server mailbox databases  
Exchange Server storage  
Configuring Exchange Server mailbox databases and storage  
Lab : Configuring Exchange Server storage

## 3 Managing recipient objects

Managing user mailboxes  
Managing other types of mailboxes  
Managing other recipients objects  
Configuring policies and address lists  
Lab : Managing recipient objects  
Lab : Configuring address lists and policies

## 4 Managing recipients and Exchange servers by using Exchange Server cmdlets

Overview of the Exchange Management Shell  
Managing Exchange Servers by using Exchange Management Shell cmdlets  
Managing Exchange servers by using scripts  
Lab : Managing Exchange Server and recipient objects by using Exchange Management Shell

## 5 Implementing client connectivity

Configuring client access services  
Managing client access services  
Client connectivity in Exchange Server  
Configuring Outlook on the web  
Configuring mobile messaging  
Lab : Configuring client access services  
Lab : Deploying and configuring client access services on Exchange Server

## 6 Managing high availability in Exchange Server

High availability on Exchange Server  
Configuring highly available mailbox databases  
Configuring high availability of Client Access services  
Lab : Implementing DAGs  
Lab : Implementing and testing high availability

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## 7 Implementing disaster recovery for Exchange Server

Implementing Exchange Server backup  
Implementing Exchange Server recovery  
Lab : Backing up Exchange Server data  
Lab : Restoring Exchange Server data

## 8 Configuring and managing message transport

Overview of message transport  
Configuring message transport  
Managing transport rules  
Lab : Configuring and managing message transport

## 9 Configuring message security

Deploying and managing an Edge Transport server for message security  
Implementing an antivirus solution for Exchange Server  
Implementing an antispam solution for Exchange Server  
Lab : Configuring message security in Exchange Server

## 10 Monitoring and troubleshooting Exchange Server

Monitoring Exchange Server  
Troubleshooting Exchange Server  
Lab : Monitoring and troubleshooting Exchange Server

## 11 Securing and maintaining Exchange Server

Securing Exchange Server by using RBAC  
Configuring audit logging in Exchange Server  
Maintaining Exchange Server  
Lab : Securing and maintaining Exchange Server

## 12 Implementing and managing Exchange Online deployments

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