

## 20345-2 Designing and Deploying Microsoft Exchange Server 2016/2019

### Überblick

This course provides experienced Exchange Server administrators with the knowledge to design and implement an Exchange Server messaging environment. The course covers how to design and configure advanced components in an Exchange Server deployment such as site resiliency, advanced security, compliance, archiving and discovery solutions, coexistence with other Exchange organizations or Exchange Online, and migration from previous versions of Exchange server. The course also provides guidelines, best practices, and considerations that will help optimize Exchange Server deployments.

### Vorraussetzungen

- 20345-1 Administering Microsoft Exchange Server 2016

### Voraussetzungen

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).

In addition to their professional experience, students who attend this training should already have the following technical knowledge:  
Attended course 20345-1B: Administering Microsoft Exchange Server 2016/2019 or have equivalent knowledge

Minimum of two years of experience working with any version of Exchange Server

Minimum of six months of experience working with Exchange Server 2013 or Exchange Server 2016

Minimum of two years of experience administering the Windows Server operating system, including Windows Server 2016 or Windows Server 2019

Minimum of 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

[Online anmelden](#)

### Kurs Agenda

Dauer in Tagen: 5

G2R = "Kurs läuft garantiert" | OLL = "Online LIVE"  
ILT = "Klassenraumtraining"

Datum	Zeit	Ort	Methode	Nettopreis
12.07.2021	9:00AM - 5:00PM	Bremen, Germany	ILT	EUR 2450.00
11.10.2021	9:00AM - 5:00PM	Bremen, Germany	ILT	EUR 2450.00
12.07.2021	9:00AM - 5:00PM	Frankfurt	OLL	EUR 2290.00
11.10.2021	9:00AM - 5:00PM	Frankfurt	OLL	EUR 2290.00
06.12.2021	9:00AM - 5:00PM	Bremen, Germany	ILT	EUR 2450.00
06.12.2021	9:00AM - 5:00PM	Frankfurt	OLL	EUR 2290.00

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Experience working with Windows PowerShell

## Zielgruppe

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The audience for this course includes IT professionals who are experienced messaging administrators, messaging architects, or consultants. This course is designed for people in an enterprise environment who are responsible for designing and deploying Exchange Server solutions, including environments that contain previous versions of Exchange Server or Exchange Online. Students taking this course are expected to have experience with Exchange Server 2019 or previous versions of Exchange Server.

## Ziel

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After completing this course, students will be able to:

Plan for Exchange Server deployments. Plan and deploy Exchange Server hardware, virtualization, mailbox databases, and public folders. Plan message transport in Exchange Server. Plan and deploy Client Access services in Exchange Server. Design and implement a highly available Exchange Server environment. Maintain Exchange Server by using Managed Availability and Desired State Configuration (DSC). Plan for messaging security and design and implement Active Directory Rights Management Services (AD RMS) and Microsoft Azure RMS in Exchange Server. Design and implement message retention and archiving. Design and implement data loss prevention policies, In-Place Hold, and eDiscovery. Design and implement messaging coexistence among Exchange Server organizations. Plan and implement the upgrade from previous versions of Exchange Server to Exchange Server 2019. Plan a hybrid Exchange deployment.

## Agenda

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### 1 - Planning Exchange Server deployments

New features in Exchange Server 2019  
Gathering business requirements for an Exchange Server deployment  
Planning for an Exchange Server deployment  
Planning the migration of Unified Messaging to Cloud Voicemail  
Lab : Planning Exchange Server 2019 deployments

### 2 - Planning and deploying Exchange Server Mailbox services

Planning Exchange Server hardware requirements  
Planning Exchange Server for virtualization and Microsoft Azure integration  
Planning and implementing public folders  
Lab : Planning and implementing Exchange Server mailbox servers, databases, and public folders

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### 3 - Planning message transport

Designing message routing  
Designing transport services  
Designing the message-routing perimeter  
Designing transport compliance  
Lab : Planning message transport

### 4 - Planning and deploying client access

Planning for Exchange Server clients  
Planning for client access  
Planning and implementing Office Online Server  
Planning and implementing coexistence of SharePoint 2019 with Exchange Server 2019  
Designing external client access  
Lab : Planning and deploying client access solutions

### 5 - Designing and implementing high availability

Planning high availability for Exchange Server  
Planning for load balancing  
Planning for site resilience  
Lab: Designing and implementing high availability

### 6 - Maintaining Exchange Server

Using Managed Availability to improve high availability  
Implementing DSC  
Lab: Maintaining Exchange Server

### 7 - Designing messaging security

Planning messaging security  
Designing and implementing AD RMS and Azure RMS  
Lab: Designing messaging security

### 8 - Designing and implementing message retention and archiving

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

### 9 - Designing and implementing messaging compliance

Designing and implementing data loss prevention policies  
Designing and implementing In-Place Hold  
Designing and implementing In-Place eDiscovery  
Lab: Designing and implementing messaging compliance

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## 10 - Designing and implementing messaging coexistence

Designing and implementing federation  
Designing coexistence between Exchange organizations  
Designing and implementing cross-forest mailbox moves  
Lab: Implementing messaging coexistence

## 11 - Upgrading to Exchange Server 2019

Planning an upgrade from previous Exchange Server versions  
Implementing the upgrade from previous Exchange Server versions  
Lab: Upgrading from Exchange Server 2013 to Exchange Server 2019

## 12 - Planning a hybrid Exchange Server deployment

Basics of a hybrid deployment  
Planning and implementing a hybrid deployment  
Implementing Azure AD Connect  
Implementing a hybrid deployment  
Implementing advanced functionality for hybrid deployments  
Lab : Planning a hybrid Exchange deployment

## ähnliche Kurse, Prüfungen und Zertifizierungen —————

- 20345-1 Administering Microsoft Exchange Server 2016/2019

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