

## Administering Microsoft Exchange Server 2019

This 4-day instructor-led course teaches IT professionals how to administer and support Exchange Server 2019. Students will learn how to install Exchange Server 2019, and how to configure and manage an Exchange Server environment. The course covers how to manage mail recipients and public folders, including how to perform bulk operations using Exchange Management Shell. Students also will learn how to manage client connectivity, message transport and hygiene, how to implement and manage highly available Exchange Server deployments, and how to implement back up and disaster recovery solutions.

The course also teaches students how to maintain and monitor an Exchange Server 2019 deployment. In addition, students will learn how to administer Exchange Online in an Office 365 deployment.

This course is primarily intended for people aspiring to become enterprise-level messaging administrators for Exchange Server 2019.

### Détails

- **Code** : AMES2016
- **Durée** : 4 jours ( 28 heures )

Public

#### Pré-requis

- A minimum two years of experience administering Windows Server 2012 or 2016, working with active Directory Domain Services (AD DS), working with name resolution including Domain Name System (DNS).
- Understanding of TCP/IP and networking concepts, Windows Server 2012 R2 or later.

### Objectifs

- Perform deployment and basic management of Exchange Server 2016, Manage Exchange Server 2016, Create and manage various recipient objects in Exchange Server 2019
- Use Exchange Management Shell to create and manage various recipient objects in Exchange Server 2016, and perform various tasks to automate Exchange management procedures, Configure client connectivity to Exchange Server 2016, and manage Client Access services.
- Implement and manage high availability, Implement backup and disaster recovery for Exchange Server 2019
- Configure message transport options, Configure message hygiene and security options, Implement and manage Exchange Online deployments.
- Monitor and troubleshoot Exchange Server 2016, Secure and maintain Exchange Server 2019

### Programme

#### Module 1: Deploying Microsoft Exchange Server 2019

- Description
  - This module describes the key features and enhancements in Exchange Server 2019
  - The module also describes the deployment requirements and options for implementing Exchange Server 2019
- Lessons
  - Overview of Exchange Server 2019
  - Requirements and deployment options for Exchange Server 2019
- Lab: Deploying Microsoft Exchange Server 2019
  - Evaluating requirements and prerequisites for an Exchange Server 2019 installation
  - Deploying Exchange Server 2019
- After completing this module, students will be able to:
  - Describe the features and functionality of Exchange

Server 2019

- Describe the requirements and deployment options for Exchange Server 2019

#### Module 2: Managing Microsoft Exchange Server 2019 servers

- Description
  - This module describes the built-in management tools that you can use to manage maintain and maintain Exchange Server 2019
  - The module also explains the features and functionality of a Mailbox server role and procedures for configuring a Mailbox server
- Lessons
  - Exchange Server 2019 management
  - Overview of the Exchange 201 Mailbox server
  - Configuring Mailbox servers

- Lab: Configuring Mailbox servers
  - Creating and configuring mailbox databases
- After completing this module, students will be able to:
  - Describe Microsoft Exchange Server 2019 management
  - Describe the Exchange Server 2019 Mailbox server role
  - Configure mailbox servers

### Module 3: Managing recipient objects

- Description
  - This module describes the types of recipient objects in Exchange Server 2019, and explains how to manage these objects
  - The module also describes how to manage address lists and policies on the Mailbox server role
- Lessons
  - Exchange Server 2019 recipients
  - Managing Exchange Server recipients
  - Configuring address lists and policies
- Lab: Managing Exchange Server recipients and public folders
  - Managing recipients
  - Managing public folder mailboxes
- Lab: Managing Exchange Server email address lists and policies
  - Managing email-address policies
  - Managing address lists and address book policies
- After completing this module, students will be able to:
  - Describe the different Microsoft Exchange Server 2016 recipients
  - Manage Exchange Server 2019 recipients
  - Configure address lists and policies

### Module 4: Managing Microsoft Exchange Server 2019 and recipient objects by using Exchange Management Shell

- Description
  - This module provides an overview of the Exchange Management Shell, and describes how to use it to manage Exchange Server 2019 configuration and recipient objects
- Lessons
  - Overview of the Exchange Management Shell
  - Managing Exchange Server 2019 by using Exchange Management Shell
  - Managing Exchange Server 2019 by using Exchange Management Shell scripts
- 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
- After completing this module, students will be able to:
  - Explain the Exchange Management Shell cmdlets that you can use to configure and manage Microsoft Exchange Server 2019
  - Manage Exchange Server and recipient objects by

- using the Exchange Management Shell
- Manage Exchange Server and recipient objects by using the Exchange Management Shell scripts

### Module 5: Implementing client connectivity

- Description
  - This module describes how to configure and manage Client Access Services in Exchange Server 2019
  - The module also explains the options for configuring client connectivity, Microsoft Outlook on the web, and mobile messaging
- Lessons
  - Configuring client access services in Exchange Server 2019
  - Managing client services
  - Client connectivity and publishing of Exchange Server 2019 services
  - Configuring Outlook on the web
  - Configuring mobile messaging on Exchange Server 2019
- Lab: Deploying and configuring client access services on Exchange Server 2019
  - Configuring certificates for client access
  - Configuring client access options
  - Configuring custom MailTips
- Lab: Deploying and configuring client access services on Exchange Server
  - Configuring Exchange Server 2019 for Outlook
  - Configuring Outlook on the web
  - Configuring Microsoft Exchange ActiveSync
- After completing this module, students will be able to:
  - Configure client access services in Microsoft Exchange Server 2019
  - Manage client services
  - Describe client connectivity and publishing of Exchange Server 2019 services
  - Configure Microsoft Outlook on the web
  - Configure mobile messaging on Exchange Server 2019

### Module 6: Managing high availability in Exchange Server 2019

- Description
  - This module describes the high availability options built into Exchange Server 2019
  - The module also explains how to configure high availability for Mailbox databases and Client Access services
- Lessons
  - High availability on Exchange Server 2019
  - Configuring highly available mailbox databases
  - Configuring high availability of Client Access services
- Lab: Implementing DAGs
  - Creating and configuring a database availability group
- Lab: Implementing and testing high availability
  - Deploying a high availability solution for client

- access services
- Testing the high availability configuration
- After completing this module, students will be able to:
  - Describe the high availability options in Exchange Server 2019
  - Configure highly available mailbox databases
  - Configure highly available client access services

## Module 7: Implementing disaster recovery for Microsoft Exchange Server 2019

- Description
  - This module describes the backup and recovery options in Exchange Server 2019 and explains the factors you must consider when you use these options
- Lessons
  - Implementing Exchange Server 2019 backup
  - Implementing Exchange Server 2019 recovery
- Lab: Backing up Exchange Server 2019
  - Backing up Exchange Server 2019
- Lab: Implementing disaster recovery for Exchange Server 2019
  - Restoring Exchange Server 2019 data
  - Restore an Exchange Server DAG member (optional)
- After completing this module, students will be able to:
  - Explain how to implement Microsoft Exchange Server 2019 backup
  - Explain how to implement Exchange Server 2019 recovery

## Module 8: Configuring and managing message transport

- Description
  - This module provides an overview of message transport, and describes how to configure message transport
  - The module also describes how to configure transport rules and DLP policies to manage message transport
- Lessons
  - Overview of message transport
  - Configuring message transport
  - Managing transport rules
- Lab: Configuring message transport
  - Configuring message transport
  - Troubleshooting message delivery
  - Configuring a disclaimer transport rule
  - Configuring a DLP policy for financial data
- After completing this module, students will be able to:
  - Describe message transport
  - Configure message transport
  - Manage transport rules

## Module 9: Configuring antivirus, antispam, and malware protection

- Description
  - This module describes the key features and functionality of an Edge Transport server role in

### Exchange Server 2019

- The module also explains how to configure message security by implementing an antivirus and antispam solution
- Lessons
  - Deploying and managing an Edge Transport server for message security
  - Implementing an antivirus solution for Exchange Server 2019
  - Implementing an antispam solution for Exchange Server 2019
- Lab: Configuring message security
  - Configuring and testing EdgeSync
  - Configuring antivirus, antispam, and malware protection features on Exchange Server 2019
- After completing this module, students will be able to:
  - Deploy and manage an Edge Transport server role for message security
  - Implement an antivirus solution for Microsoft Exchange Server 2019
  - Implement an antispam solution for Exchange Server 2019

## Module 10: Implementing and managing Microsoft Exchange Online deployments

- Description
  - This module describes the key features of Exchange Online and Office 365
  - The module also describes how to manage and migrate to Exchange Online
- Lessons
  - Overview of Exchange Online and Office 365
  - Managing Exchange Online
  - Implementing the migration to Exchange Online
- Lab: Managing Exchange Online
  - Managing Exchange Online
- After completing this module, students will be able to:
  - Provide an overview of Exchange Online and Office 365
  - Manage Exchange Online
  - Implement a migration to Exchange Online

## Module 11: Monitoring and troubleshooting Microsoft Exchange Server 2019

- Description
  - This module describes how to monitor and troubleshoot Exchange Server 2019
  - The module explains how to collect and analyze performance data for various Exchange Server recipients and objects
  - The module also describes how to troubleshoot database issues, connectivity issues, and performance issues
- Lessons
  - Monitoring Exchange Server 2019
  - Troubleshooting Exchange Server 2019
- Lab: Monitoring and troubleshooting Exchange Server 2019
  - Monitoring Exchange Server
  - Troubleshooting database availability

- Troubleshooting client access services
- After completing this module, students will be able to:
  - Monitor Exchange Server 2019
  - Troubleshoot Exchange Server 2019

## Module 12: Securing and maintaining Exchange Server 2019

- Description
  - This module describes how to maintain and update an Exchange Server organization
  - The module explains how to plan and configure administrative security and administrative auditing in Exchange Server 2019
- Lessons

- Securing Exchange Server with role-based access control (RBAC)
- Configuring audit logging on Exchange Server 2019
- Maintaining Exchange Server 2019
- Lab: Securing and maintaining Exchange Server 2019
  - Configuring Exchange Server permissions
  - Configuring audit logging
  - Maintaining updates on Exchange Server 2019
- After completing this module, students will be able to:
  - Configure RBAC on Microsoft Exchange Server 2019
  - Configure options related to user and administrator audit logging
  - Maintain and update Exchange Server 2019

### Modalités

- **Type d'action** :Acquisition des connaissances
- **Moyens de la formation** :Formation présentielle – 1 poste par stagiaire – 1 vidéo projecteur – Support de cours fourni à chaque stagiaire
- **Modalités pédagogiques** :Exposés – Cas pratiques – Synthèse
- **Validation** :Exercices de validation – Attestation de stages