Publication date : 02/19/2024

Course : Exchange 2019, implementation and administration

Practical course - 5d - 35h00 - Ref. EXN
Price : 2840 € E.T.

BEST

Implement and administer Microsoft Exchange 2019 servers and connect them to heterogeneous clients. You'll see how to set them up, manage mailboxes and addresses, store and archive data, and secure the messaging solution in place.

Teaching objectives

At the end of the training, the participant will be able to:

- Installing and configuring an Exchange 2019 server
- Perform routine administrative tasks
- Configure Outlook and Outlook Web App (OWA)
- Set up message tracking and archiving
- Implement database availability group (DAG)

Intended audience

System administrators, operators and integrators.

Prerequisites

Basic knowledge of Windows Server 2012 or 2008 administration in a domain environment. Basic knowledge of AD.

Course schedule

PARTICIPANTS

System administrators, operators and integrators.

PREREQUISITES

Basic knowledge of Windows Server 2012 or 2008 administration in a domain environment. Basic knowledge of AD.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

1 Presentation and news

- The different Exchange 2019 editions, license types.
- Discover the new features of Exchange 2019.
- The various administration tools available.
- Tools: Exchange Administration Center (EAC) and PowerShell.
- The Exchange Management Shell (EMS) environment.
- The new Exchange 2019 architecture.
- Interconnection with the Internet.
- Positioning of the different Exchange server roles.
- Different migration scenarios: Exchange 2013 to 2019.

Hands-on work

Create an Exchange 2019 interconnection plan with the Internet.

2 Installing Exchange 2019

- Exchange role definition.
- Hardware and software requirements.
- Virtualization and best practices for virtualizing Exchange server 2019.
- Installation methods: GUI or PowerShell.
- Setting up the system's physical platform.
- Active Directory integration.
- Install Exchange 2019. Check that the installation is running smoothly.
- Setting up a client workstation with Outlook.
- Finalize deployment to prepare production environment.

Hands-on work

Setting up the physical system platform. Installation of Exchange 2019.

3 Basic administration

- Administration via the Exchange Administration Center (EAC).
- Manage roles and authorizations.
- Create and manage mailboxes and address lists.
- Create distribution groups, contacts, resource BALs and rooms.
- Create and manage multiple domain names.
- Manage different e-mail addresses.

Hands-on work

Configure addresses, strategies and protocols.

4 Storage, database and archiving management

- Storage and archiving management.
- Exchange database principles.
- Database creation and administration.
- Implementation of archive mailboxes.
- Configure legal archiving.

Hands-on work

Create and administer databases for storage and archiving. Move mailboxes.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.

• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.

• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

5 Customer access management

- Customer access management: new features.
- Automatic discovery management.
- Configure different URLs and namespaces.
- Certificate and PKI management.
- Access messages via Outlook 2019 and MAPI Over HTTP.
- Outlook and MAPI Over HTTP configuration.
- Configure Outlook on the Web (OWA)/Outlook user interface via the Web.
- Configure mobile access on iPhone, Android, Windows Phone.

Hands-on work

URL, OWA and Outlook configuration and certificate installation.

6 Message transport management

- Introduction to message transport.
- Configure transport for external connectivity.
- Configure transport rules.
- Set up message tracking and archiving.
- Internet connectivity.
- Antivirus management and anti-spam configuration.
- Secure SMTP, POP and IMAP protocols.

Hands-on work

Configure Exchange transport and Internet connectivity. Set up message tracking and archiving.

7 Setting up High Availability

- Introduction to High Availability on Exchange.
- The DAG (database availability group) operating principle.
- High availability solutions for customer access.
- High Availability for transport and Active Directory.
- Setting up the Database Availability Group (DAG).
- Configuration and switchover tests.
- Site resilience and geo-clusters.

Hands-on work

Setting up the database availability group (DAG). Set up and test failover.

8 Security in Exchange Server 2019

- Backup and restore: schedule backup and restore.
- Different backup strategies, disaster recovery.
- Performance monitoring. Server monitoring.
- Introduction to role-based access control (RBAC).
- Configure RBAC access control.
- Message monitoring and follow-up.

Hands-on work

Install and configure anti-spam and anti-virus software. Backup and restore. Message monitoring and tracking.

9 Interconnecting Exchange 2019

- Voice interconnection: introduction to unified messaging (VoIP).
- Interconnection with Skype for Business.
- Interconnection with SharePoint.

Dates and locations

REMOTE CLASS
2026 : 1 June, 14 Sep., 23 Nov.

PARIS LA DÉFENSE
2026 : 1 June, 14 Sep., 23 Nov.