Publication date : 01/12/2024

Course : Windows 2019, Active Directory administration

Practical course - 4d - 28h00 - Ref. WAA
Price : 2410 € E.T.

4,5 / 5

BEST

Master the Active Directory environment under Windows Server 2019 with this training course. You'll learn how to install and configure an Active Directory, and perform all administration tasks using graphical interfaces and PowerShell.

Teaching objectives

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

- Installing and configuring an Active Directory under Windows Server 2019
- Deploying domain controllers
- Perform routine administration tasks via interfaces and PowerShell
- Deploy GPOs to administer workstations and servers
- Deploy dynamic access control to fine-tune resource permissions
- Backing up and restoring Active Directory

Intended audience

Systems and network technicians, administrators and engineers.

Prerequisites

Basic knowledge of Windows server administration.

Course schedule

1 Active directory architecture

- Active Directory roles and services.
- What's new in AD domain services 2019.
- AD services and Cloud orientation.

PARTICIPANTS

Systems and network technicians, administrators and engineers.

PREREQUISITES

Basic knowledge of Windows server administration.

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.

2 Installing the active directory

- Directory deployment.
- DNS and Active Directory.
- Integrated, secure DNS zones.
- DNS records linked to AD.

Hands-on work

AD installation. DNS configuration. Record management.

3 Deploying the domain controller

- Remote deployment and PowerShell.
- Domain controller cloning.
- Child domain implementation.
- Deployment of read-only DCs (RODCs).

Hands-on work

RODC and remote DC deployment.

4 Object management

- Management interfaces.
- Managing objects in PowerShell.
- Managed services accounts.
- Privileged Access Management (PAM).
- Authentication silos and strategies.

Hands-on work

Create and modify AD objects. Create service accounts. Implement authentication strategies.

5 Group strategies

- The operating principle.
- The central store. WMI filtering.
- Inheritance, blocking and filtering.

Hands-on work

Creation of the central store. Creation of GPOs to secure stations and servers.

6 Dynamic access control

- Overview of dynamic access control.
- Claims principles.
- Principles of rules, centralized access strategies.
- FSRM resource manager, authorizations.
- The operating principle.

Hands-on work

DAC implementation to specify access to resources.

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.

7 Sites, services and approval relationships

- AD site roles.
- Site and replication management.
- Approval relationships: overview and configuration.

Hands-on work
Creation of AD sites and replications. Implement approval relationships.

8 Service maintenance and troubleshooting

- Backup and restore services.
- AD database maintenance procedures.
- Troubleshooting replications.
- FSMO role management.

Hands-on work
AD maintenance and backup. Implementation of monitoring tools.

Dates and locations

REMOTE CLASS
2026 : 10 Mar., 26 May, 16 June, 21 July, 1 Sep., 15 Sep., 27 Oct., 3 Nov.

PARIS LA DÉFENSE
2026 : 26 May, 21 July, 1 Sep., 3 Nov.