

Course : Windows 2022, what's new for administrators

Practical course - 4d - 28h00 - Ref. W2A

Price : 2650 CHF E.T.

 4,7 / 5

Teaching objectives

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

- ✓ Learn how to install Windows Server 2022
- ✓ Administering a server farm with Windows Admin Center
- ✓ Understanding what's new in Hyper-V 2022
- ✓ Understanding the new storage features of Windows Server 2022
- ✓ Understanding the new security features in Windows Server 2022

Intended audience

Systems and network technicians, administrators and engineers

Prerequisites

Good knowledge of 2012R2 and/or 2016/2019 server management.

Course schedule

1 Windows Server 2022 installation or upgrade

- What's new in Windows Server 2022.
- Windows Server 2022 license management.
- Version differences between Windows Server 2022 OnPremise and Azure Edition
- Windows Server 2022 Server adherence and interconnections with Azure.
- UEFI secure boot.
- FOD tools for minimal-installation servers.

Hands-on work

Installing and deploying Windows Server 2022. Deploy FOD tools on a minimal installation server. Deploy Windows Server 2022 in Azure.

PARTICIPANTS

Systems and network technicians, administrators and engineers

PREREQUISITES

Good knowledge of 2012R2 and/or 2016/2019 server management.

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 New features for local and remote administration

- Deployment of Windows Admin Center (WAC).
- Use WAC to administer servers.
- Take advantage of Windows System Insights and its new features.
- Virtualization-based security, CredentialGuard.
- Managing Windows Server 2022 hybrid with Azure Arc.

Hands-on work

Install and operate WAC, connect WAC with Azure AD. Administer and configure servers with Powershell. Deploy credential Guard.

3 Hyper-V 2022

- What's new in Hyper-V.
- SDN (Software Defined Networking) and SDDC (Software Defined DataCenter)
- Improvements in virtual switches, RSC.
- What's new in SDN networks in Hyper-V.
- Azure Stack HCI and its new features.

Hands-on work

Deploy Hyper-V, Optimize SDN networks

4 Storage enhancements for Windows Server 2022

- Disk and volume management in Windows Server 2022.
- Snapshots on ReFS volumes.
- Storage pools and new features, Storage Bus Cache.
- What's new in the SMB protocol, compression, SMB on QUIC.
- Storage migration service.
- Storage replicas.

Hands-on work

Deploy storage pools and Storage Bus Cache. Deploy SMB compression and SMB on QUIC. Implement storage migration service.

5 Windows Server 2022 application platform.

- What's new in Windows Server 2022 applications.
- Windows Container and its improvements, gMSA integration, image optimization.
- Windows Container with Kubernetes.
- Linux interaction with Windows Server 2022.

Hands-on work

Deploying Windows Containers

6 High availability under Windows Server 2022

- Overview of high availability.
- What's new in Windows Server 2022 clusters.
- Best practices for clustering under Windows.
- Backup and restore.

Hands-on work

Setting up an HA cluster.

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 Security under Windows Server 2022

- Overview of securing a Windows Server 2022 infrastructure
- Secured-Score server.
- Virtualization-based security, VBS and HVCI, Credential Guard.
- Secure DNS over HTTPS (DoH).
- Identity security.
- Windows Defender Malware Protection.
- Azure Automanage - Hotpatch.
- Deploy JEA for secure administration.

Hands-on work

Define a security policy. Deploy CredentialGuard and VBS. Implement DNS DoH. Implement JEA sessions.

Dates and locations

REMOTE CLASS

2026: 31 Mar., 26 May, 13 Oct., 17 Nov.