Windows 2016: Implementation and Administration

Hands-on course of 4 days - 28h
Ref.: OWM - Price 2024: CHF2 550 (excl. taxes)

EDUCATIONAL OBJECTIVES
At the end of the training, the trainee will be able to:

Install, configure, and apply settings to a server with Windows Server 2016

Perform admin tasks via the new interfaces and PowerShell

Implement architecture security

Maintaining and troubleshooting a server: Creating a backup and using recovery tools

THE PROGRAMME

last updated: 01/2018

1) Architecture and installation
- New features (Windows Defender, Windows Container, interface, etc.).
- CoreServer, NanoServer modes.
- Deployment tools and methods (WDS, MDT 2013, etc.).
- Hands-on work ¤Installing Windows Server 2016, roles, Nano Server 2016.
Install Windows Server 2016, roles, Nano Server 2016.

2) Administrative tools and configuration
- ADAC manager, roles.
- Windows PowerShell Web Access.
- Hands-on work ¤Managing server groups. Remote installation of roles. Using PowerShell.
Managing groups of servers. Remote installation of roles. Using PowerShell.

3) NanoServer
- WIM, VHD deployment.
- Adding packages and managing roles.
- Network, firewall (Nano Server Recovery console).
- Hands-on work ¤Carrying out administrative tasks with CorePowerShell.
Conducting administrative tasks with CorePowerShell

4) Network management
- DNS, DHCP and DHCP Failover, IPv4 and IPv6, IPAM.
- Network management with PowerShell.
- Hands-on work ¤Setting up a DHCP Failover. Managing DNS zones and records with PowerShell and graphical tools.
Setting up a DHCP Failover. Creating and managing DNS zones and records with PowerShell and graphical tools.

5) User accounts and groups
- Overview of Active Directory, ADAC.
- Local accounts and groups, user profiles.
- Creating objects with PowerShell.

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.

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.

- Hands-on work ¤Working with profiles. Creating groups, users, and UOs, and AD queries.
Working with profiles. Creating of groups, users and UOs, queries to the AD.

6) Resource management
- Disks, per-folder quotas, data de-duplication, FSRM.
- Detailed alerts on folder and file usage.
- Security: Bitlocker, TPM, Windows Defender malware protection, ReFS.
- Hands-on work ¤Setting up FSRM and report management. Attaching virtual hard drives. Managing folders and files with Pow
Setting up FSRM and report management. Attaching virtual hard drives. Manage folders and files with PowerShell.

7) Troubleshooting and performance
- Installation and configuration of troubleshooting tools.
- Managing DHCP with PowerShell. BranchCache mode.
- Restoring with cloud backup.
- Hands-on work ¤Using PowerShell to manage and troubleshoot your servers.
Using PowerShell scripts to manage and troubleshoot your servers.

8) Virtualization
- Hyper-V Container, Hyper-V in Hyper-V, Docker.
- Management of virtual machines (VMs), switches and other hardware.
- Hands-on work ¤Creating VMs, snapshots. Installing Windows 2016 on Hyper-V.
VM creation, snapshots. Installing Windows 2016 on hyper-V.

DATES

REMOTE CLASS
2025 : 04 Feb, 03 Jun, 09 Sep, 25 Nov