Course : Windows 2019, what's new for administrators

Practical course - 3d - 21h - Ref. WRF
Price : 1800 € E.T.

Enhanced security, greater reliability, interconnection with the Cloud, improved container management... Windows Server 2019 offers a host of new features. This training course will enable you to discover the new environment, learn how to implement it and evaluate its behavior.

◎ Teaching objectives

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

- ✔ Learn how to install Windows Server 2019
- ✔ Installing and administering WAC
- ✔ Understanding what's new in Hyper-V 2019
- ✔ Managing IPv4 and IPv6 addresses
- ✔ Implementing Windows Server 2019 disk manager

Intended audience
Systems and network technicians, administrators and engineers.

Prerequisites
Good knowledge of Windows 2016 or 2012 server administration and Active Directory. Experience in system administration desirable.

Course schedule

1 Windows Server 2019 installation or upgrade

- Introduction to Windows Server 2019.
- Windows Server 2019 licenses.
- GUI, CORE and NanoServer modes.
- Activation models.
- New interface features.

Hands-on work
Discover the different installation and parameterization modes.

PARTICIPANTS
Systems and network technicians, administrators and engineers.

PREREQUISITES
Good knowledge of Windows 2016 or 2012 server administration and Active Directory. Experience in system administration desirable.

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

- Installation of the Windows Admin Center (WAC) console.
- WAC UI extensions.
- Windows System Insights modules.
- Azure memberships and interconnections.
- Hyperconvergence and what's new.
- Advanced storage technologies.
- Audits and monitors. QoS.

Hands-on work
Installation and configuration of WAC. Administration via WAC.

3 Hyper-V 2019

- Failover Clustering.
- Hyper-V Replica.

Hands-on work
Installing and configuring a cluster.

4 Protecting and securing your infrastructure 2019

- Identity concepts and what's new in 2019.
- WAC: an alternative to MMC.
- Hybrid scenarios.
- Windows ATP.
- Analysis of methods for compromising security.
- Service protection methods and features.
- Enhanced security and improved network support.
- What's new in SDN.
- Windows Defender Advanced Threat Protection.

Hands-on work
Implementation of a protection policy using Windows Defender Advanced Threat Protection.

5 Application platform

- New applications.
- Containers and their upgrades.
- Linux/Microsoft interaction.

6 Infrastructure, networks, clustering and high availability

- High availability and clusters: what's new?
- DHCP and DHCP FailOver, DNS and DNS Secure.
- IPv4 and IPv6 servers and protocols.
- IP address manager.
- Creating DNS record zones with PowerShell.
- Bandwidth optimization with NIC Teaming.

Hands-on work
DHCP server setup. IPv4 and IPv6 address management (IPAM and FailOver).

(7) Disks, shares and file systems

- The ReFS (Resilient File System) file system.
- File system availability.
- Configure storage spaces.
- Dynamic access control (DAC).
- Windows Defender Malware Protection.
- File and folder security.
- Storage Migration Services.

Hands-on work
Implementing the Windows Server 2019 disk manager.

(8) PowerShell interactions

- What's new in PowerShell 6.
- PowerShell features in Windows Server 2019.
- Best practices.

Dates and locations

REMOTE CLASS
2026 : 22 June, 16 Sep.

PARIS LA DÉFENSE
2026 : 22 June, 16 Sep.