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Fundamentals of a Windows Server® Infrastructure

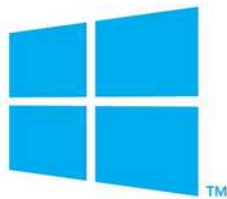
2021

5 jours

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Durée:

5 jours

Langue

Anglais

Formations dirigées par un instructeur**Objectif**

Learn the fundamental knowledge and skills that you need to build a Windows Server infrastructure with Windows Server 2012.

This five day course provides the networking, security, and system administration information that you need to implement a Windows Server infrastructure. It covers the basics of installation and configuration, storage, network infrastructure, network components, network protocols, server roles, Active Directory Domain Services (AD DS), Group Policy, IT security, server security, network security, security software, monitoring server performance, and maintaining a Windows Server.

This course includes the foundational level knowledge to prepare students to start a career or cross train in Microsoft Windows Server technologies.

Profil population cible

Students for this course are just starting their Information Technology (IT) careers or want to change careers into Windows Server technologies. This fundamental knowledge and skills can be used by home computer users, small business owners, academic students, information workers, technical managers, help desk technicians, or students who want to cross train from another technology.

Examen de certification

Préparation pour examen : N/A

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Prérequis :

Before attending this course, students must have:
A basic knowledge of general computing concepts.
Some experience working with Windows Client operating systems such as Windows 7 or Windows 8

Plan du cours

Module 1

Installing and Configuring Windows Server 2012

This module explains how the Windows Server 2012 editions, installation options, optimal service and device configuration and general post-installation configuration all contribute to the functionality and effectiveness of your Windows Server implementation.

Leçons

- Describe Windows Server components and architecture.
- Install Windows Server 2012.
- Configure services.
- Configure devices and device drivers.

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Module 2

Implementing Storage in Windows Server

This module will introduce you to different storage technologies and discuss how to implement the storage solutions in Windows Server. There is also a discussion on how to create a resilient strategy for your storage, helping to avoid unplanned downtime and loss of data.

Leçons

- Identify a suitable storage technology.
- Manage storage within Windows Server.
- Implement disk fault tolerance.

Module 3

Understanding Network Infrastructure

In this module, students will learn how to describe fundamental network component and terminology thus enabling the student to select an appropriate network component in a particular scenario.

Leçons

- Describe physical network topologies and standards.
- Define local area networks (LANs).
- Define wide area networks (WANs).
- Describe wireless networking technologies.
- Explain how to connect a network to the Internet.
- Describe how technologies are used for remote access.

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Module 4

Connecting Network Components

This module explores the functionality of low-level networking components, including switches and routers. In addition, the module provides guidance on how best to connect these and other components together to provide additional network functionality.

Leçons

- Describe the industry standard protocol model.
- Describe wiring methodologies and standards.
- Describe adapters, hubs, and switches.
- Describe routing technologies and protocols.

Module 5

Implementing TCP/IP

This module describes the requirements of a protocol stack and then focuses on the Transmission Control Protocol/Internet Protocol (TCP/IP) protocol stack.

Leçons

- Describe the Functionality of the TCP/IP Suite.
- Describe IPv4 Addressing.
- Configure an IPv4 Network.
- Describe IPv6 Addressing and Transition.
- Describe the Various Name Resolution Methods Used by TCP/IP Hosts.

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Module 6

Implementing Windows Server Roles

This module explains the functional requirements of a server computer and how to select and deploy appropriate server roles to support these functional requirements.

Leçons

- Describe role-based deployment.
- Deploy role-specific servers.
- Describe deployment options for server roles.

Module 7

Implementing Active Directory

This module explains that, as a directory service, how AD DS stores information about objects on a network and makes this information available to users and network administrators.

Leçons

- Describe the fundamental features of AD DS.
- Implement AD DS.
- Implement organizational units (OUs) for managing groups and objects.
- Configure client computers centrally with group policy objects (GPOs).

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Module 8

Implementing IT Security Layers

This module explains how, in addition to file and share permissions, you can also use data encryption to restrict data access.

Leçons

- Describe the risks posed by connecting to the Internet.
- Describe possible mitigations to these risks.
- Describe the Windows Server components and features that can help provide his Internet security.

Module 9

Implementing Security in Windows Server

This module reviews the tools and concepts available for implementing security within a Microsoft Windows infrastructure.

Leçons

- Describe the Windows Server features that help improve your network's security.
- Explain how to secure files and folders in the Windows Server environment.
- Explain how to use the Windows Server encryption features to help secure access to resources.

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Module 10

Implementing Network Security

This module explains possible threats when you connect your computers to a network, how to identify them, and how implement appropriate Windows network security features to help to eliminate them.

Leçons

- Identify network-based security threats.
- Implement Windows Firewall to secure Windows hosts.
- Explain how to enforce corporate compliance.

Module 11

Implementing Security Software

This module explains how an information technology (IT) administrator can account for and mitigate the risks of malicious code, unauthorized use, and data theft.

Leçons

- Implement Windows Server technologies and features to improve client security.
- Describe security threats posed by e-mail and how to reduce these threats.
- Explain how to improve server security using Windows Server security analysis and hardening tools.

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Module 12

Monitoring Server Performance

This module discusses the importance of monitoring the performance of servers, and how you monitor servers to ensure that they run efficiently and use available server capacity. It also explains performance monitoring tools to identify components that require additional tuning and troubleshooting, so that you can improve the efficiency of your servers.

Leçons

- Use the Event Viewer to identify and interpret Windows Logs, and Application and Services Logs.
- Measure system resource usage and identify component bottlenecks

Module 13

Implementing Security Software

This module explains the importance of system updates, how to troubleshoot the Windows Server boot process, and how to implement high availability and recovery technologies to improve system availability.

Leçons

- Troubleshoot the Windows Server boot process.
- Implement high availability and recovery technologies to improve system availability.
- Explain the importance of system updates.
- Implement an appropriate troubleshooting methodology to resolve problems with Windows Server.

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