



## Configuring, Managing and Maintaining Windows Server 2008-based Servers (6419B)

*Durata: 5 giorni – Orario: 8:30 – 12:00 / 13:30 -17.00 – Costo per persona: CHF 1'900.-- (Min. 5 partecipanti)*

### Obiettivi di formazione

Al termine del corso gli allievi saranno in grado di:

- descrivere gli strumenti di amministrazione disponibili in Windows Server 2008
- configurare account utenti e computer
- creare gruppi e unità organizzative
- gestire gli accessi alle risorse condivise
- creare e configurare Group Policy
- implementare la sicurezza mediante le Group Policy
- configurare e analizzare la sicurezza del server
- configurare e gestire le tecnologie di storage
- configurare e gestire il Distributed File System
- configurare il Network Access Protection
- configurare la disponibilità delle risorse di rete
- monitorare e mantenere i server Windows 2008
- gestire backup e restore

### Criteri di ammissione

- conoscenza di base delle tecnologie di rete
- conoscenza intermedia sui sistemi operativi di rete
- un anno di esperienza nell'utilizzo di Windows Server
- conoscenza di base di Active Directory
- comprensione dei concetti di base di sicurezza
- conoscenza di base di TCP/IP
- conoscenza di base strumenti di scripting quali PowerShell e WMI

### Condizioni di rinuncia

Se annullate o rinviare la vostra iscrizione (su un altro corso o su un'altra sessione) per iscritto, al più tardi 10 giorni lavorativi prima dell'inizio di corso, siete liberati completamente dal pagamento della quota d'iscrizione al corso. Se annullate o rinviare la vostra iscrizione alla scadenza del termine, i costi vi saranno fatturati, come quanto segue:

- meno di 10 giorni lavorativi prima dell'inizio del corso 50% della quota
- meno di 3 giorni lavorativi prima dell'inizio del corso 100% della quota
- assenza del corso 100% della quota

### Certificazione

Possibilità di sostenere alla fine della formazione la certificazione 6419B



## Contenuti di formazione

### **Module 1: Overview of the Windows Server 2008 Management**

In this module, students learn the Windows Server 2008 environment including the roles, features, and the tools used to perform effective server management.

Lesson 1: Understanding the Windows Server 2008 Environment

Lesson 2: Overview of Windows Server 2008 Server Roles and Features

Lesson 3: Windows Server 2008 Administration Tools

Lesson 4: Managing Windows Server 2008 Server Core

### **Lab : Managing Server Roles in a Windows Server 2008 Environment**

Exercise 1: Determining Server Roles and Installation Types

Exercise 2: Installing Windows Server 2008 Server Roles and Features

Exercise 3: Managing Windows Server 2008 Server Core

After completing this module, students will be able to:

Describe the considerations for implementing and managing a Windows Server 2008 environment.

Explain Windows Server 2008 server roles and features.

Describe Windows Server 2008 administration tools.

Manage Windows Server 2008 Server Core.

### **Module 2: Managing Windows Server 2008 Infrastructure Roles**

In this module, students learn about IPv6 addressing and how to install and configure the DNS and DHCP server infrastructure roles.

Lesson 1: Understanding IPv6 Addressing

Lesson 2: Overview of the Domain Name System Server Role

Lesson 3: Configuring DNS Zones

Lesson 4: Overview of the DHCP Server Role

Lesson 5: Configuring DHCP Scopes and Options

### **Lab : Lab A: Installing and Configuring the DNS Server Role**

Exercise 1: Installing and Configuring the DNS Server Role

Exercise 2: Configuring Primary Zones and Resource Records

Exercise 3: Monitoring and Troubleshooting DNS

### **Lab : Lab B: Installing and Configuring the DHCP Server Role**

Exercise 1: Installing and authorizing the DHCP Server Role

Exercise 2: Configuring DHCP Scopes and Options

After completing this module, students will be able to:

Describe IPv6 addressing.

Describe the features and concepts related to the DNS server role.

Configure DNS zones.

Describe the features and concepts related to the DHCP server role.

Configure DHCP Scopes and options.

### **Module 3: Module 3: Configuring Access to File Services**

In this module, students learn how to configure secure and efficient access to file services.

Lesson 1: Overview of Access Control

Lesson 2: Managing NTFS File and Folder Permissions

Lesson 3: Managing Permissions for Shared Resources

Lesson 4: Determining Effective Permissions

### **Lab : Managing Access to File Services**

Exercise 1: Planning a Shared Folder Implementation (Discussion)

Exercise 2: Implementing a Shared Folder Implementation

Exercise 3: Evaluating the Shared Folder Implementation

After completing this module, students will be able to:

Describe the concept of access control for file services.



Manage NTFS file system and folder permissions.  
Manage permissions for shared resources.

Determine effective permissions.

#### **Module 4: Configuring and Managing Distributed File System**

In this module, students will learn how to configure and manage a Distributed File System infrastructure

Lesson 1: Distributed File System Overview

Lesson 2: Configuring DFS Namespaces

Lesson 3: Configuring DFS Replication

#### **Lab : Installing and Configuring Distributed File System**

Exercise 1: Installing the Distributed File System Role Service

Exercise 2: Creating a DFS Namespace

Exercise 3: Configuring Folder Targets and Folder Replication

Exercise 4: Viewing Diagnostic Reports for Replicated Folders

After completing this module, students will be able to:

Describe the Distributed File System.  
Configure DFS Namespaces.

Configure DFS Replication.

#### **Module 5: Managing File Resources by Using File Server Resource Manager**

In this module, students will learn how to use File Server Resource Manager to assist in data storage capacity management.

Lesson 1: Overview of File Server Resource Manager

Lesson 2: Configuring Quota Management

Lesson 3: Implementing File Screening

Lesson 4: Managing Storage Reports

Lesson 5: Implementing Classification Management and File Management Tasks

#### **Lab : Lab A: Installing FSRM and Implementing Quota Management**

Exercise 1: Installing the FSRM Role Service

Exercise 2: Configuring Storage Quotas

#### **Lab : Lab B: Configuring File Screening and Storage Reports**

Exercise 1: Configuring File Screening

Exercise 2: Generating Storage Reports

#### **Lab : Lab C: Configuring Classification and File Management Tasks**

Exercise 1: Configuring Classification Management

Exercise 2: Implementing File Management Tasks

After completing this module, students will be able to:

Describe File Server Resource Manager.

Configure quota management.

Implement file screening.

Implement classification management and file management tasks.

Manage storage reports.

#### **Module 6: Configuring and Securing Remote Access**

In this module, students will learn how to secure remote access using features such as a Virtual Private Networks, Network Access Protection (NAP), and DirectAccess.

Lesson 1: Configuring a Virtual Private Network Connection

Lesson 2: Overview of Network Policies

Lesson 3: Integrating Network Access Protection with VPNs

Lesson 4: Configuring VPN Enforcement by Using NAP

Lesson 5: Overview of DirectAccess

Lesson 6: Deploying DirectAccess

#### **Lab : Lab A: Implementing a Virtual Private Network**

Exercise 1: Configuring Routing and Remote Access as a VPN Remote

Exercise 2: Configuring a Custom Network Policy

#### **Lab : Lab B: Implementing NAP into a VPN Remote Access Solution**



Exercise 1: Configuring NAP Components  
Exercise 2: Configuring Client Settings to support NAP

### **Lab : Lab C: Implementing DirectAccess**

Exercise 1: Reviewing the Existing Infrastructure Configuration  
Exercise 2: Configuring Infrastructure Services for DirectAccess  
Exercise 3: Configuring the DirectAccess Server and Verifying Connectivity

After completing this module, students will be able to:

- Configure a VPN connection.
- Explain network policies.
- Integrate NAP with VPNs.
- Configure and monitor NAP.
- Describe DirectAccess.

### **Module 7: Managing Active Directory Domain Services**

In this module, students will learn about the Active Directory infrastructure and how to manage AD DS objects.

- Lesson 1: Overview of the Active Directory Infrastructure
- Lesson 2: Working with Active Directory Administration Tools
- Lesson 3: Managing User Accounts
- Lesson 4: Managing Computer Accounts
- Lesson 5: Managing Groups
- Lesson 6: Using Queries to Locate Objects in AD DS

### **Lab : Lab A: Creating and Managing User and Computer Accounts**

- Exercise 1: Creating and Configuring User Accounts
- Exercise 2: Creating and Configuring Computer Accounts

### **Lab : Lab B: Managing Groups and Locating Objects in AD DS**

- Exercise 1: Implementing Role-Based Management Using Groups
- Exercise 2: Finding Objects in Active Directory

After completing this module, students will be able to:

- Explain the Active Directory infrastructure.
- Work with Active Directory Administration Tools.
- Manage user accounts.
- Manage computer accounts.
- Manage groups.

Use queries to locate objects in AD DS.

### **Module 8: Configuring Active Directory Object Administration and Domain Trust**

In this module, students will learn how to configure and manage AD DS object permissions; and configure trust between AD DS domains.

- Lesson 1: Configuring Active Directory Object Administration
- Lesson 2: Configuring Active Directory Trusts

### **Lab : Lab A: Configuring Active Directory Delegation**

- Exercise 1: Delegating Control of AD DS Objects
- Exercise 2: Creating Managed Service Accounts in AD DS

### **Lab : Lab B: Administer Trust Relationships**

- Exercise 1: Administering a Trust Relationship

After completing this module, students will be able to:

- Configure Active Directory object administration.
- Configure Active Directory trusts.

### **Module 9: Creating and Managing Group Policy Objects**

In this module, students will learn how to create and manage Group Policy Objects (GPOs).

- Lesson 1: Overview of Group Policy
- Lesson 2: Configuring the Scope of Group Policy Objects
- Lesson 3: Managing Group Policy Objects
- Lesson 4: Evaluating and Troubleshooting Group Policy Processing



### **Lab : Lab A: Creating and Configuring GPOs**

Exercise 1: Creating and Configuring Group Policy Objects  
Exercise 2: Managing the Scope of GPO Application

### **Lab : Lab B: Creating and Configuring GPOs**

Exercise 1: Verifying GPO Application  
Exercise 2: Managing GPOs  
Exercise 3: Delegating Administrative Control of GPOs

### **Lab : Lab C: Troubleshooting Group Policy**

Exercise 1: Troubleshooting incorrect policy settings  
– Scenario 1  
Exercise 2: Troubleshooting incorrect policy settings  
– Scenario 2

After completing this module, students will be able to:

- Explain Group Policy.
- Configure the scope of GPOs.
- Manage GPOs.

Evaluate and troubleshoot Group Policy processing.

### **Module 10: Using Group Policy to Configure User and Computer Settings**

In this module, students will understand the specific settings that can be managed using Group Policy.

- Lesson 1: Using Group Policy to Configure Folder Redirection and Scripts
- Lesson 2: Using Administrative Templates to Manage Users and Computers
- Lesson 3: Deploying Software by Using Group Policy
- Lesson 4: Deploying Group Policy Preferences

### **Lab : Lab A: Configuring Logon Scripts and Folder Redirection with Group Policy**

Exercise 1 Using a Group Policy Logon Script to Map a Network Drive  
Exercise 2: Using Group Policy to Redirect Folders

### **Lab : Lab B: Configuring Administrative Templates**

Exercise 1: Configuring Administrative Templates

### **Lab : Lab C: Deploying Software Using (Group Policy**

Exercise 1: Deploying a Software Package Using Group Policy

### **Lab : Lab D: Deploying Group Policy Preferences**

Exercise 1: Configure Group Policy Preferences

After completing this module, students will be able to:

- Use Group Policy to configure folder redirection and scripts.
- Use Administrative Templates to manage users and computers.
- Deploy software using Group Policy.

Deploy Group Policy preferences.

### **Module 11: Implementing Security Settings Using Group Policy**

In this module, students will learn how to secure network clients using Group Policy.

- Lesson 1: Overview of Security Settings
- Lesson 2: Implementing Fine-Grained Password Policies
- Lesson 3: Restricting Group Membership and Access to Software

### **Lab : Lab A: Implementing Security Using Group Policy**

Exercise 1: Configuring Account and Security Policy  
Exercise 2: Implementing Fine-Grained Password Policies

### **Lab : Lab B: Configuring Restricted Groups and Application Control Policies**

Exercise 1: Configuring Restricted Groups  
Exercise 2: Configuring Application Control Policies

After completing this module, students will be able to:

- Understand security settings.
- Implement Fine-Grained Password Policies.



Restrict group membership and access to software.

### **Module 12: Providing Efficient Network Access for Remote Offices**

In this module, students will learn solutions that can be implemented to provide efficient remote office network access.

Lesson 1: Overview of Remote Office Requirements

Lesson 2: Implementing Read-Only Domain

Controllers

Lesson 3: Implementing BranchCache

### **Lab : Lab A: Deploying a Read-Only Domain Controller**

Exercise 1: Installing an RODC

Exercise 2: Configuring Password Replication Policy and Credential Caching

### **Lab : Lab B: Deploying BranchCache**

Exercise 1: Configuring BranchCache in Distributed Cache Mode

Exercise 2: Configuring BranchCache in Hosted Cache Mode

After completing this module, students will be able to:

Explain remote office requirements.  
Implement Read-Only Domain Controllers.

Implement BranchCache.

### **Module 13: Monitoring and Maintaining Windows Server 2008**

In this module, students will learn how to plan for and implement performance baselines and perform server monitoring using monitoring tools.

Lesson 1: Planning Maintenance Tasks

Lesson 2: Calculating a Server Baseline

Lesson 3: Interpreting Performance Counters

Lesson 4: Selecting Appropriate Monitoring Tools

### **Lab : Creating a Baseline of Performance Metrics**

Exercise 1: Determining Performance Metrics

Exercise 2: Configuring a Performance Baseline

Exercise 3: Viewing Performance using Monitoring Tools

After completing this module, students will be able to:

Plan monitoring tasks.  
Calculate server baselines.  
Interpret performance counters.

Select appropriate monitoring tools.

### **Module 14: Managing Windows Server 2008 Backup, Restore, and Recovery**

In this module, students will learn how to plan for and identify backup and restore strategies and to identify steps needed to recover from server startup issues.

Lesson 1: Planning and Implementing File Backups on Windows Server 2008

Lesson 2: Planning and Implementing File Recovery

Lesson 3: Recovering Active Directory

Lesson 4: Troubleshooting Windows Server Startup

### **Lab : Lab A: Implementing Windows Server Backup and Recovery**

Exercise 1: Evaluating the Existing Backup Plan

Exercise 2: Implementing a Recovery Plan

### **Lab : Lab B: Recovering Active Directory Objects**

Exercise 1: Enabling Active Directory Recycle Bin

Exercise 2: Restoring a Deleted Active Directory Object

After completing this module, students will be able to:

Plan and implement backup on Windows Server 2008.

Plan and implement server restore.  
Describe Active Directory recovery methods.  
Troubleshoot Windows Server startup.