



BATCH : 146 - 149

LESSON : **Windows Server**

DATE : 20.07.2023

SUBJECT : **File Server - IIS Server**

ZOOM GİRİŞLERİNİZİ LÜTFEN **LMS** SİSTEMİ ÜZERİNDEN YAPINIZ





Windows Server Day 4

- Bugünkü dersin pre-class materyalini incelediniz mi?

Previously

- Domain - Workgroup
- Groups - Sharing Permissions
- Group Policy Management



Contents

- Setting up another Server on domain
- File Server
- Sharing - File management
- IIS Server





Module Overview

File Server (Same Server or Dedicated Server)

File Permissions

What Are **Shared Folders**?

Permissions Inheritance

Securing Files and Folders

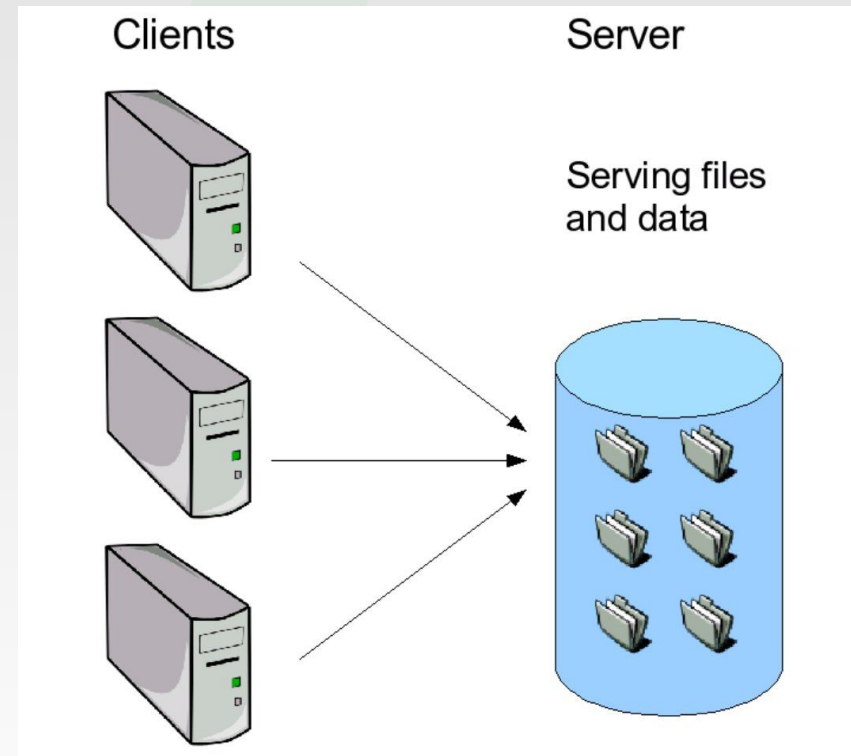
Protecting Shared Files and Folders by Using Shadow Copies

Configuring Work Folders



File Server

- Install as a Server Role
- Manage Sharing and File Permissions
- Quotas
- File Screening etc.





What Are File Permissions?

- **File permissions control access for files and folders** on NTFS or ReFS formatted storage volumes
- **File Permissions:**
 - Are configured **for files or folders**
 - Can be **granted or denied**
 - Are **inherited from parent folders**
- **Permissions conflict precedence:**
 1. Explicitly assigned Deny
 2. Explicitly assigned Allow
 3. Inherited Deny
 4. Inherited Allow



What Are Shared Folders?

- Shared folders grant network access to their contents
- **Folders can be shared**, but individual **files cannot**
- **Shared folders can be hidden** by creating a share with a **\$** at the end of the share name
- Accessing a shared folder using the UNC path:
 - **\\DC01\Sales** (standard share)
 - **\\DC01\Sales\$** (hidden share)
- Administrative shares are hidden shares that allow administrators access to the root of every volume and special system folders, such as the operating system folder



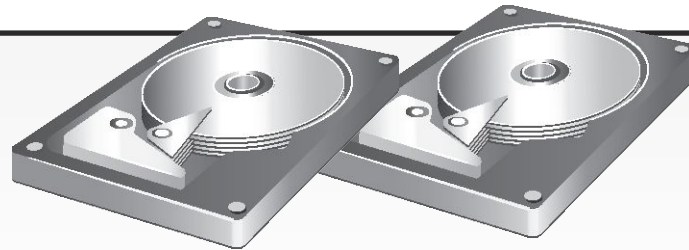
Permissions Inheritance

- Inheritance is used to **manage access to resources without explicitly assigning permissions** to each object
- By default, **permissions are inherited in a parent/child relationship**
- Blocking inheritance:
 - You can **block permission inheritance**
 - You can **apply blocking at the file or folder level**
 - You can set blocking on a folder to propagate the new permissions to child objects



What Are Shadow Copies?

- Allow **access to previous versions of files**
- Are based on tracking disk changes
 - Disk space is allocated on the same volume
 - When the space is full, older shadow copies are removed
- Are not a replacement for backups
- Are not suitable for recovering databases





Scheduling Shadow Copies

Default schedule is 7:00 A.M. and noon

Create a shadow copy schedule based on:

based on:

- Capacity of server
- Frequency of changes
- Importance of changes

Schedule

1. At 7:00 AM every Mon, Tue, Wed, Thu, Fri of every week, starting 5, ▼

New Delete

Schedule Task: Start time:

Weekly ▼ 7:00 AM ▲▼ Advanced...

Schedule Task Weekly

Every 1 week(s) on:

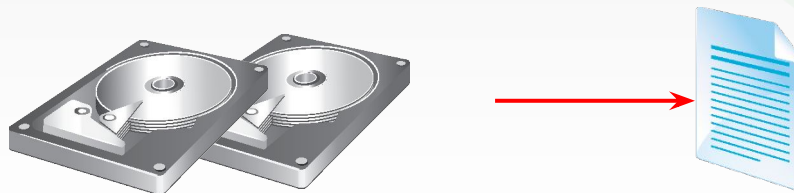
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| <input checked="" type="checkbox"/> Mon | <input type="checkbox"/> Sat |
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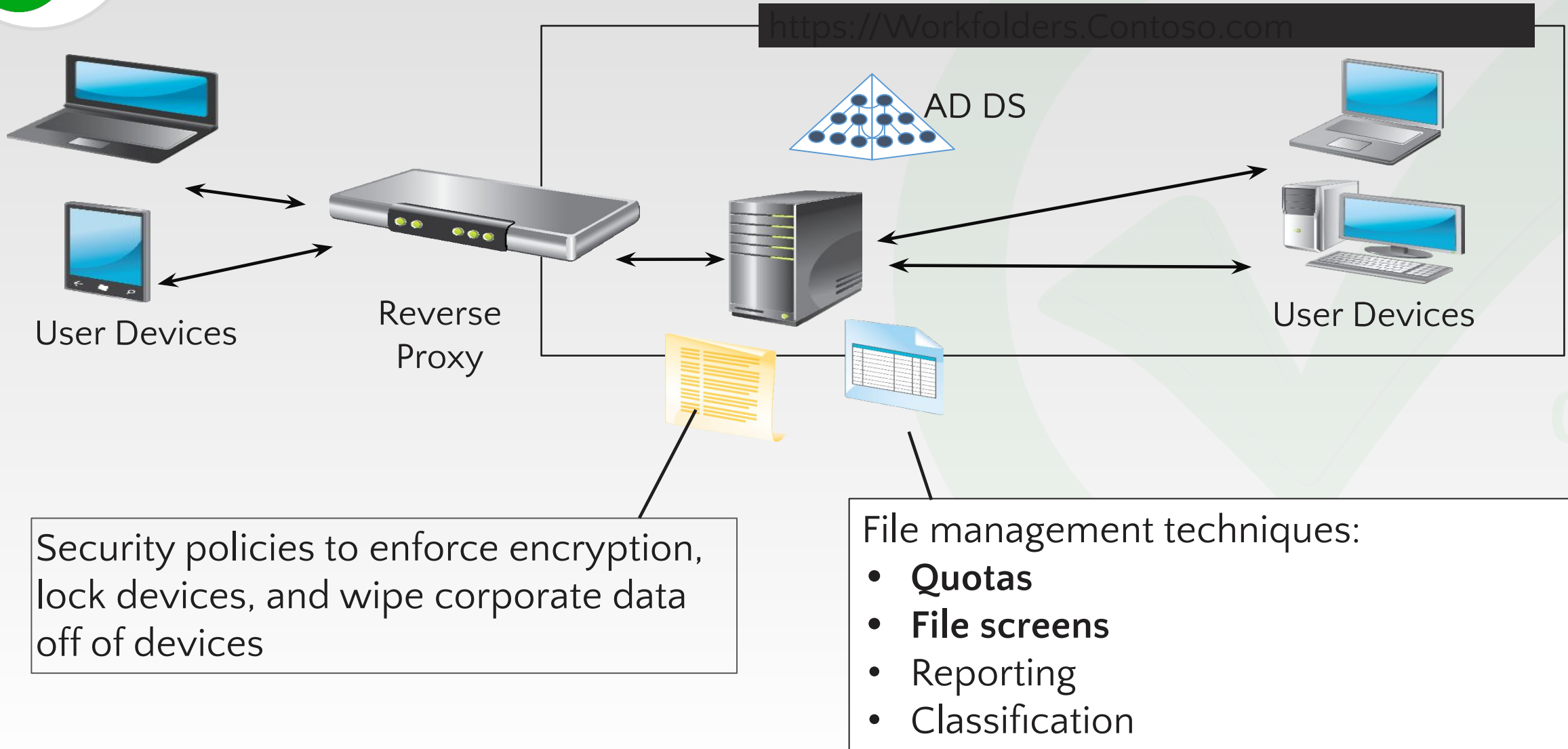
Restoring Data on a Shadow Copy

- Previous versions are accessible from the Properties dialog box of a file or folder
 - Administrators can restore previous versions directly on the server
 - Users can restore previous versions over the network
- All users can:
 - Restore a file or folder
 - Browse previous versions to select the correct one
 - Copy a file or folder to an alternate location





File Server Management





Work Folders

- The benefits of Work Folders include:
 - Works on **domain-joined devices** and devices that are **not domain-joined**
 - Provides a single point of access to work files
 - Provides **offline access to work files**
 - Synchronizes files for users
 - Enables **data encryption**
 - Works with existing data management technologies
- The limitations of Work Folders include:
 - Works **on Windows Server 2012 R2** and Windows 8.1 only
 - Does not support collaborative scenarios
 - Does not permit selective synchronization of files
 - Does not synchronize multiple file shares



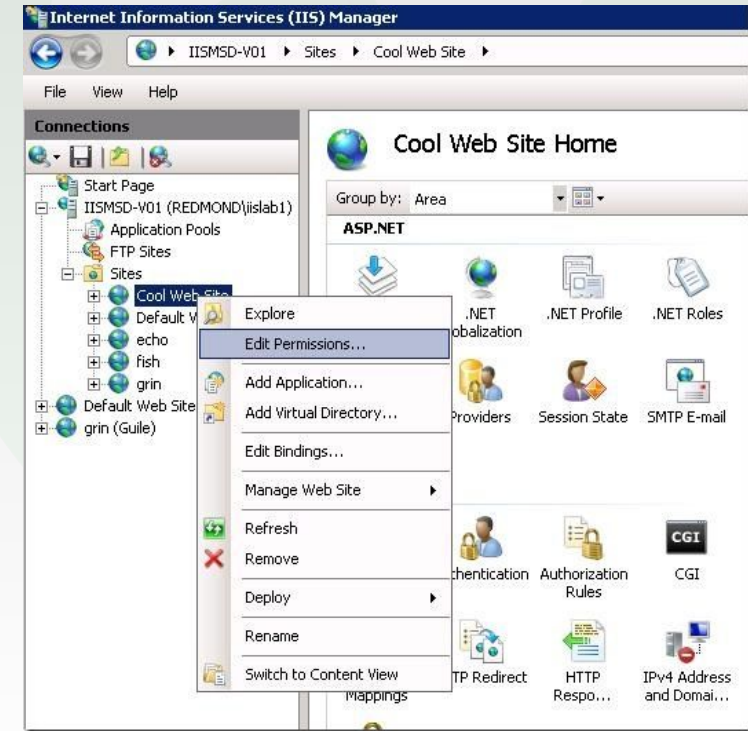
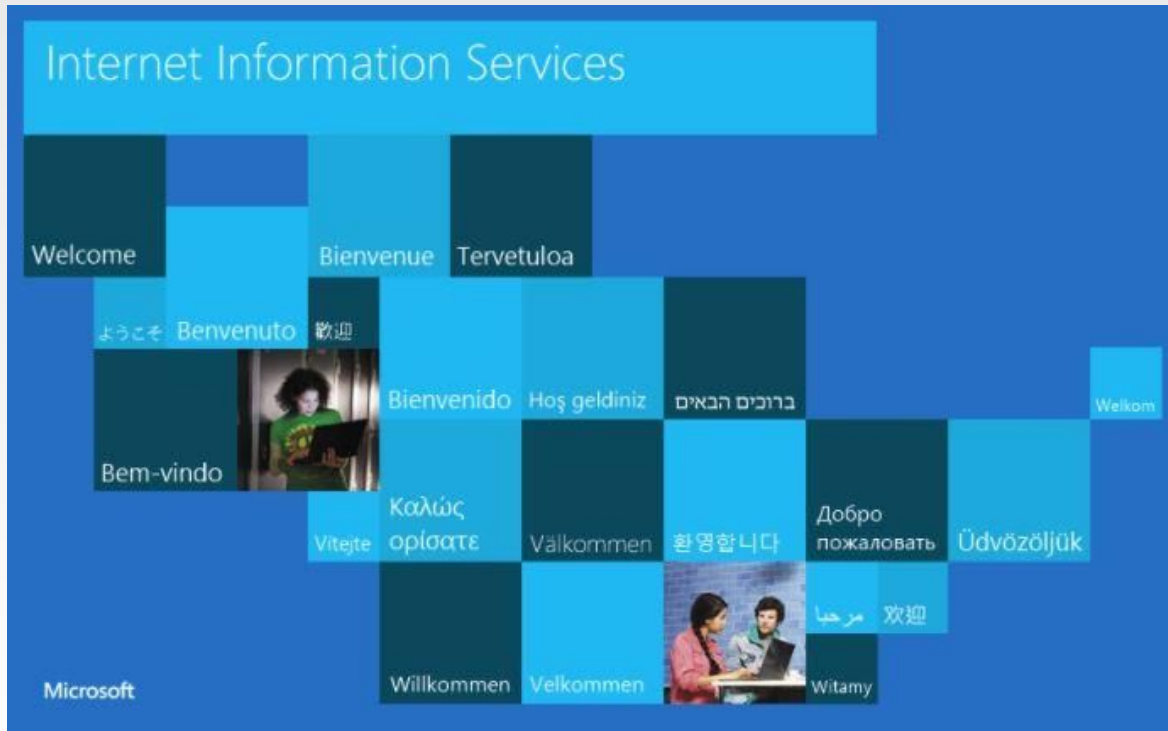
Components of Work Folders

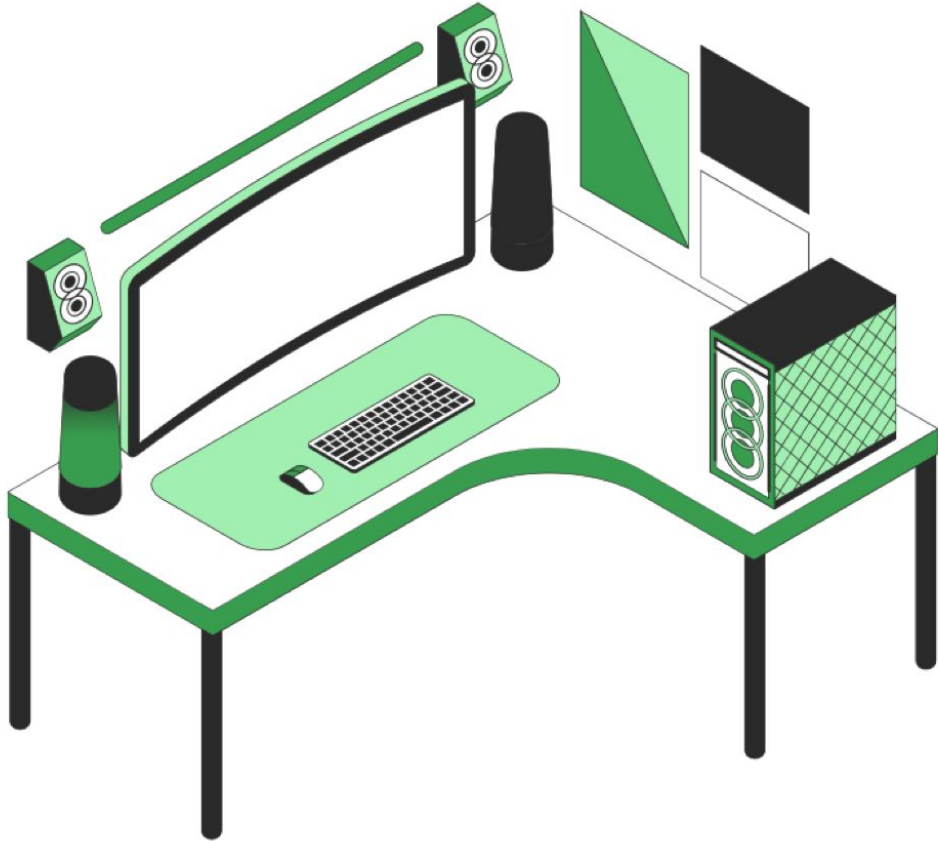
- Software requirements
 - Windows Server 2012 R2 file server
 - Windows 8.1 client
 - SSL certificates
 - NTFS or ReFS volume for both client and server
- Server components
 - Work Folders role service
 - File Server role service
 - Web Server (IIS) role
 - IIS Management Console role service
 - IIS Hostable Web Core role service
- Client components
 - Manual deployment using built-in Control Panel item
 - Automatic deployment via Group Policy, Configuration Manager, or Intune



IIS (Internet Information Services) Server

- Install as a Server Role
- Web Server (HTTP Server) of Microsoft
- Serves web services, web pages
- Apache or Nginx Web Servers





Do you
have any
questions?

Send it to us! We hope you learned
something new.