



BATCH : BATCH 85

LESSON : **Windows Server**

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SUBJECT : **File Server**



techproeducation



techproeducation



techproeducation



techproeducation



techproedu



techproeducation.com



info@techproeducation.com



+1 (917) 768-7466



Module Overview

- Securing Files and Folders
- Protecting Shared Files and Folders by Using Shadow Copies
- Configuring Work Folders
- Configuring Network Printing



Lesson 1: Securing Files and Folders

- What Are File Permissions?
- What Are Shared Folders?
- Permissions Inheritance
- Effective Permissions
- What Is Access-Based Enumeration?
- What Is the Offline Files Feature?
- Demonstration: Creating and Configuring a Shared Folder



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:
 - \\DC1\Sales (standard share)
 - \\DC1\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



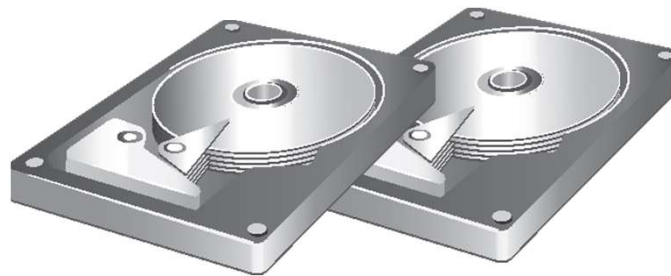
Permissions Inheritance

- 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





Considerations for Scheduling Shadow Copies

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

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:

<input checked="" type="checkbox"/> Mon	<input type="checkbox"/> Sat
<input checked="" type="checkbox"/> Tue	<input type="checkbox"/> Sun
<input checked="" type="checkbox"/> Wed	
<input checked="" type="checkbox"/> Thu	
<input checked="" type="checkbox"/> Fri	

Create a shadow copy schedule based on:

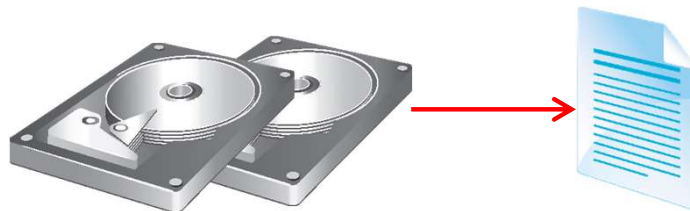
- Capacity of server
- Frequency of changes
- Importance of changes

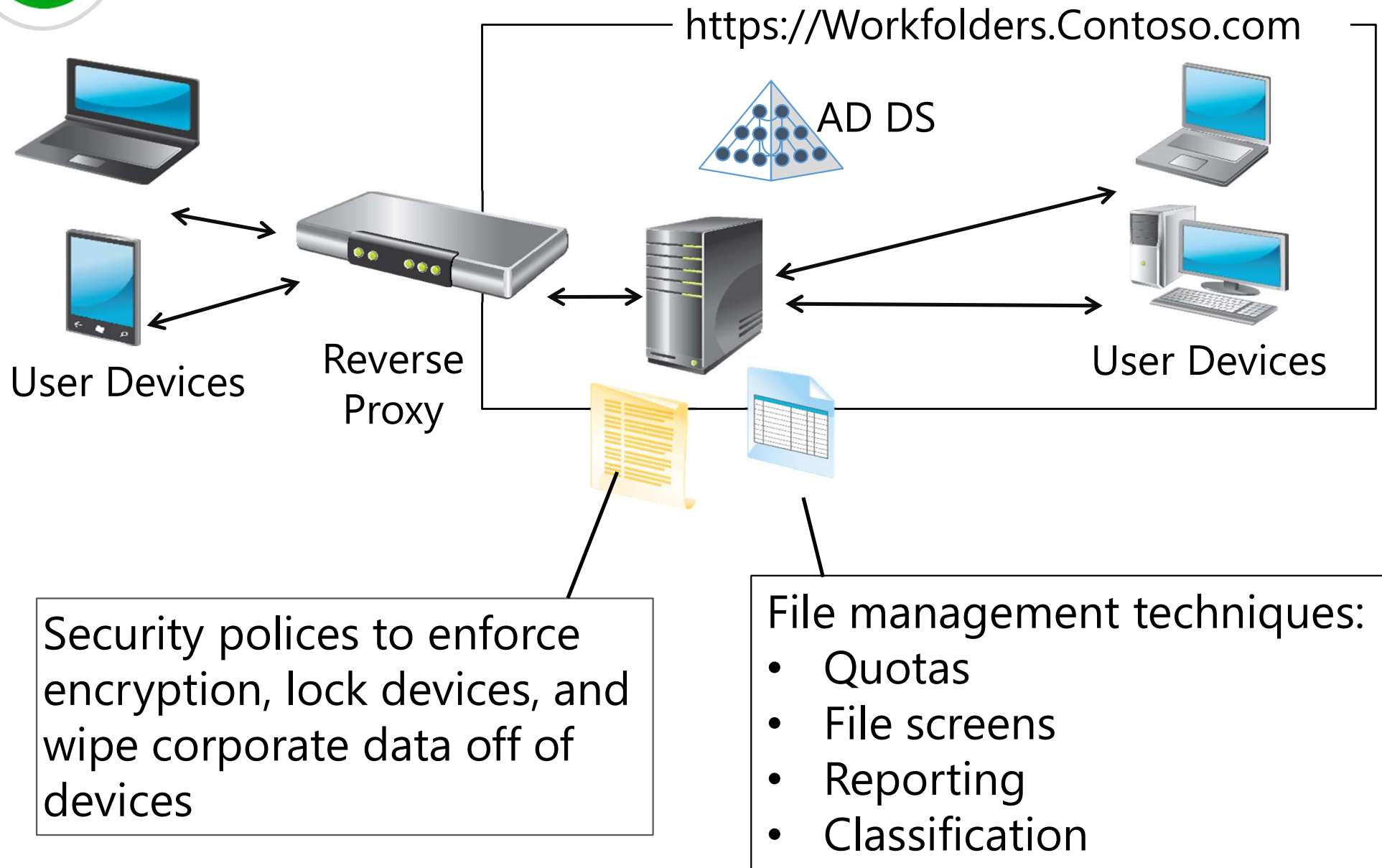




Restoring Data from a Shadow Copy

- 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







Benefits and Limitations of 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