

## **Implementation of Windows Server Advanced Configuration in a Printing Shop Environment**

Names : 1. Michael Frenicho Djodys Kustiawan

2. Muhammad Fakhri Amir

3. Zahwa Aprilia

Class : 2CS2

Group : Group 4

## CEP CCIT FAKULTAS TEKNIK UNIVERSITAS INDONESIA

## **PROJECT ON**

Implementation of Windows Server Advanced Configuration in a Printing Shop Environment

## **Developed by**

- 1. Michael Frenicho Djodys Kustiawan
- 2. Muhammad Fakhri Amir
- 3. Zahwa Aprilia

## Implementation of Windows Server Advanced Configuration in a Printing Shop Environment

Batch Code : 2 CS 2

Start Date : June 2<sup>th</sup>, 2025

End Date : June 10<sup>th</sup>, 2025

Name of Faculty : Mr. Ivan Firdaus, S.T

Names of Developer:

1. Michael Frenicho Djodys Kustiawan

2. Muhammad Fakhri Amir

3. Zahwa Aprilia

Date of Submission: June 11th, 2025

## **CERTIFICATE**

This is to certify that this report titled "Implementation of Windows Server Advanced Configuration in a Printing Shop Environment." embodies the original work done by Michael Frenicho Djodys Kustiawan, Muhammad Fakhri Amir, and Zahwa Aprilia in partial fulfillment of their course requirement at NIIT.
Coordinator:
Mr. Ivan Firdaus, S.T

#### **ACKNOWLEDGEMENT**

First and foremost, We want to sincerely thank Almighty God for giving me the fortitude, perseverance, and patience We needed to finish this project, "Implementation of Windows Server Advanced Configuration in a Printing Shop Environment." This accomplishment would not have been feasible without supernatural direction and assistance.

We also want to express my sincere gratitude to my instructor/supervisor for all of their help with this project, including their insightful advice, helpful criticism, and unwavering support. Their proficiency with server setup really improved my comprehension and enabled me to put abstract ideas into practice, especially in the context of a printing business where dependable and effective network and printing services are crucial.

Last but not least, we want to express my gratitude to everyone who helped me in any way while we finished this project, especially our family and students who inspired and offered moral support. Research, case studies, and pertinent literature were used to accomplish this assignment, which expanded knowledge and comprehension of Windows Server deployment in small company settings like printing shops.

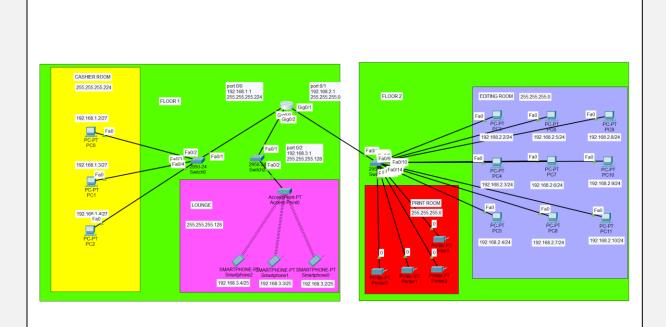
#### **SYSTEM ANALYSIS**

A printing shop's deployment of Windows Server incorporates a number of essential capabilities to enhance network administration and performance. FSRM (File Server Resource Manager) is a crucial configuration that aids in managing and tracking storage utilization. Setting quotas, controlling file types, and making sure storage space is used effectively especially for big design or print files are all made easier with this.

The printing business also uses a forest trust (Join Forest) to improve domain administration, which enables two distinct domains to safely exchange resources. When a corporation has several branches or partner companies that require access to shared data or services, this configuration might be helpful. Additionally, DHCP Failover is set up to guarantee that automated IP address distribution keeps working even in the event that one DHCP server fails, maintaining consistent network access for all devices.

Finally, file sharing between several servers with a single namespace is made possible by the usage of DFS (Distributed File System). This enhances file availability and performance by enabling users to view shared files from several places as though they were in one location. When combined, these characteristics offer a Windows Server environment that is dependable, scalable, and effective for the printing shop's operating requirements.

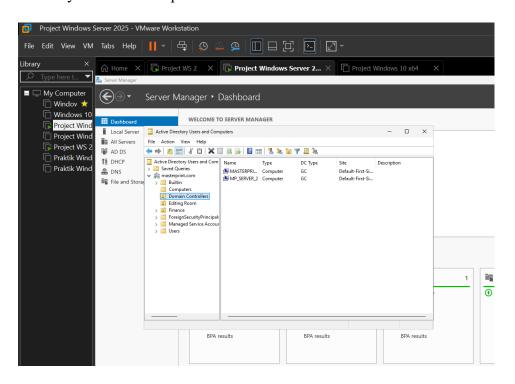
## IP TABLE AND TOPOLOGY



No	Operating System	IP Address	Usage
1	- Windows Server 2025	192.168.3.10	Join Forest, DHCP Failover, FSRM
2		192.168.3.11	Join Forest, DHCP Failover
3		192.168.2.10	DFS
4		192.168.2.11	DFS

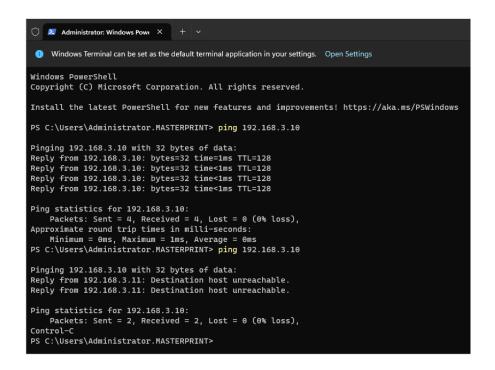
### **CONFIGURING JOIN FOREST WINDOWS SERVER**

1. Displaying two PCs in server manager that have been added to the domain using active directory users and computers.



## CONFIGURING DHCP FAILOVER WINDOWS SERVER

1. Displaying the ping results to two IP addresses, one of which was able to be accessed while the other did not, suggesting a possible problem with network connectivity.

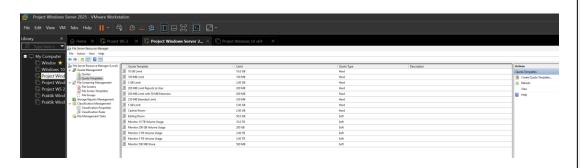


#### **QUOTA MANAGEMENT**

1. Displaying two folders chasier room 2 GB and editing room 50 GB. That have been given storage restrictions using the quota template.



2. Showing a number of pre-made quota templates that may be used to set folder size limits as desired.



#### FILE SCREENING MANAGEMENT

1. Showing the collection of quota templates used to place storage restrictions on particular folders.



2. Displaying, in accordance with their respective tamplates, the quota settings applied to the editing room and cashier room folders.

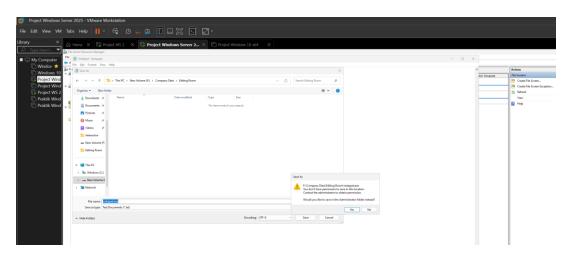


3. File setting that prevents specific file types from being stored in the folder is displayed on the screen.



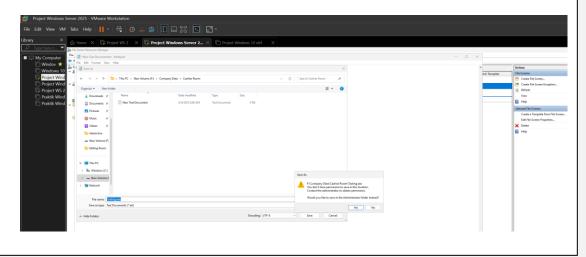
#### **TESTING EDITING ROOM**

4. Displays the test result if he file cannot be copied to the editing room folder because to quota or file screening.



#### **TESTING CASHIER ROOM**

5. Testing in the casheer room that is still able to receive files since the file screen is not blocking it or it has not gone over the quota.

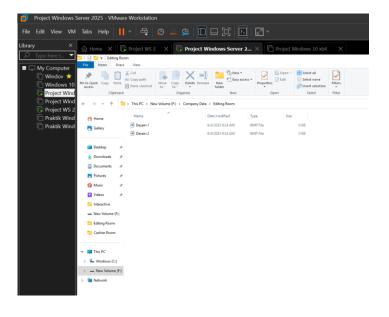


#### STORAGE MANAGEMENT

1. Two FSRM reports are planned to keep an eye on the big files in the folders for the cashier room and editing room.

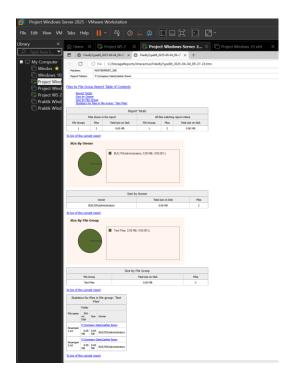


2. Displaying the two empty files that are the outcome of FSRM testing in the editing room folder.



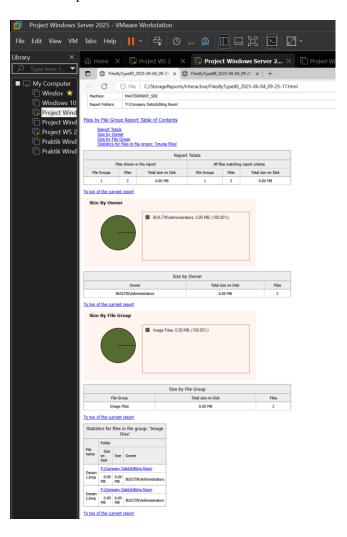
#### STORAGE MANAGEMENT

3. The cashier room folder FSRM report result, which shows details about the administrator text file kinds.



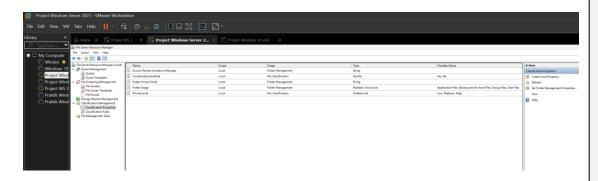
#### STORAGE MANAGEMENT

4. The results the FSRM report for the editing room folder, which has image type files that the administrator also uses.



#### CLASSIFICATION MANAGEMENT

1. Show the collection of FSRM created classification attributes.

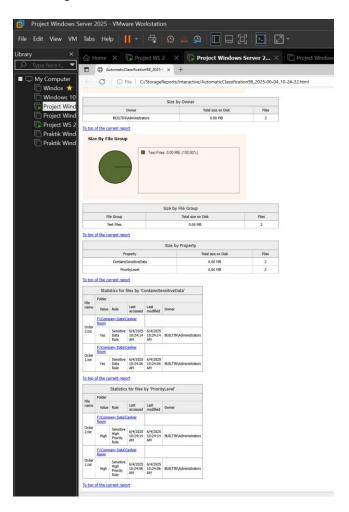


2. Displaying the categorization guidelines that are in effect for a certain folder.



#### CLASSIFICATION MANAGEMENT

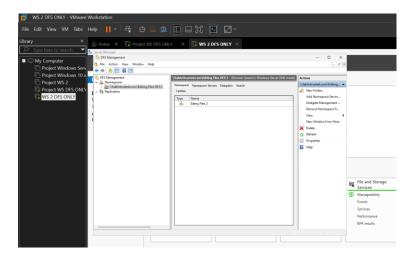
3. The automated categorization reports findings, which indicate that the file was categorized according to its attributes.



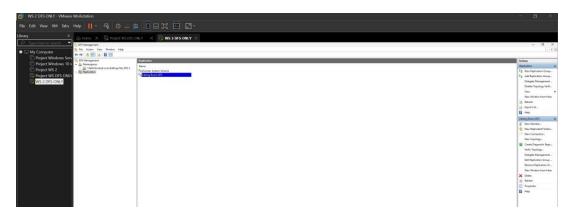
1. DFS setup on the central server, where the primary folder is made and distributed via a namespace that branches will eventually use. This folder will act as the main replication source, and its configuration, including namespace creation and target folder addition, us controlled via the central server DFS management console.



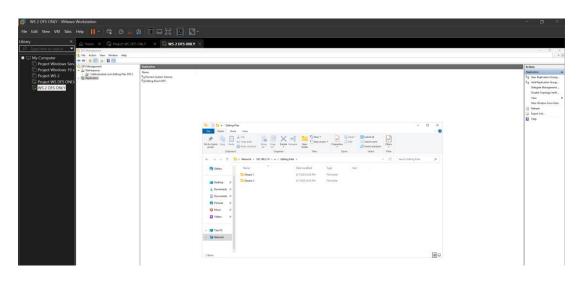
2. Displays the branch's DFS configuration, which adds a local folder as a replication target for two-way synchronization and accesses the central namespace.



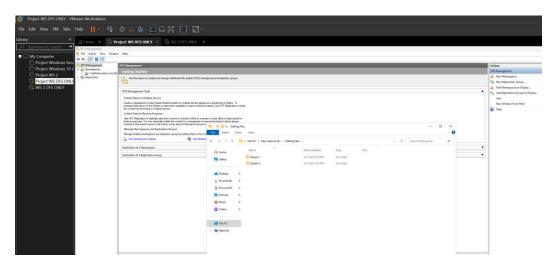
3. Replication configurations, such as scheduling and topology, are made between the central folders and the branches to ensure that data is always automatically synced.



4. Demonstrates that DFS replication is functioning properly by displaying the folder contents that are same across the central and branch.



5. Demonstrating the seamless operation of synchronization via the DFS namespace by displaying files from one place immediately in another.



## REQUIREMENT

#### Hardware

- 1. Lenovo Legion 5
- 2. Thinkpad X1 Yoga

#### **Operating System**

- 1. Windows Server 2025
- 2. Windows 10 Pro

#### Software

- 1. VM ware
- 2. Microsoft Word
- 3. Google Chrome
- 4. Windows Server
- 5. Windows 10 Pro

### PROJECT FILE DETAILS

No	File Name	Remarks
1	Project 3 – Kelompok 4	Microsoft Words contain research paper about the project
2	Configuring Secure and Remote Access	File contains Windows Server, Windows 10 Pro, DHCP Failover, FSRM, DFS, Join Forest.
3	Kelompok 4 Project 3.pptx	Presention file