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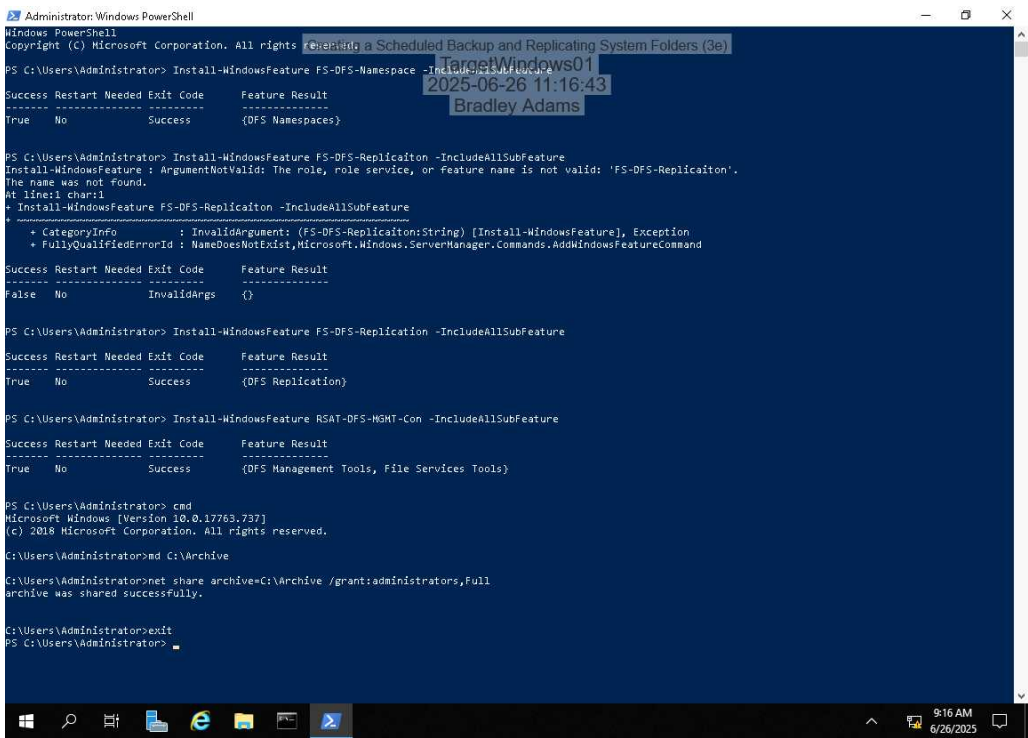
Time on Task:	Progress:
6 hours, 0 minutes	100%

Report Generated: Thursday, June 26, 2025 at 2:05 PM

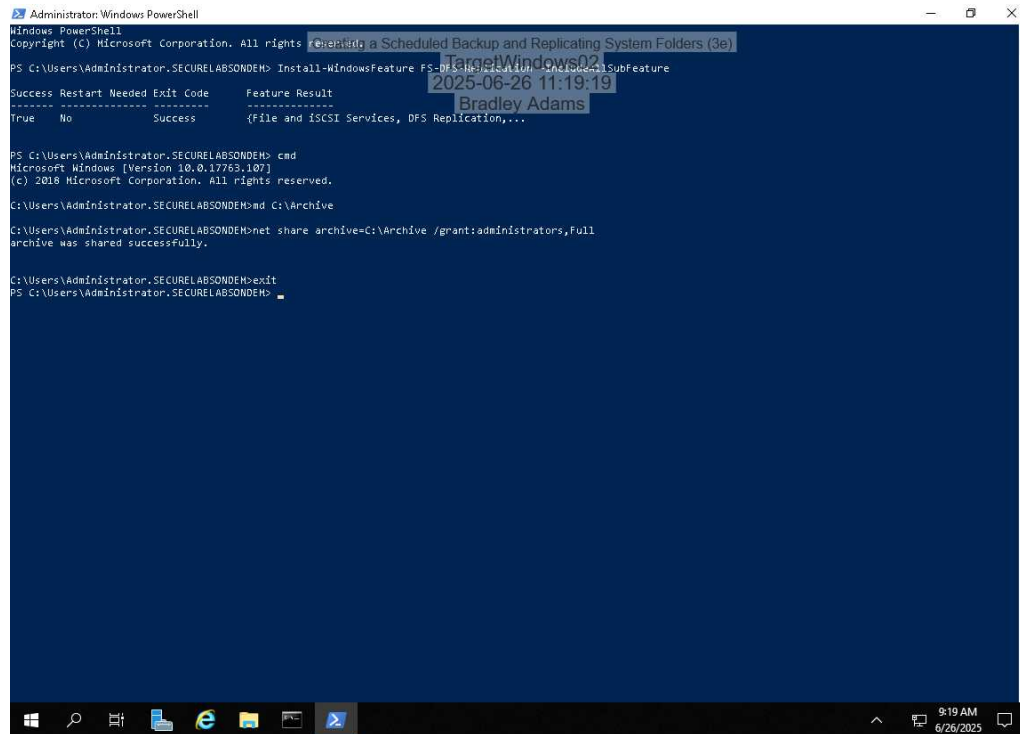
Section 1: Hands-On Demonstration

Part 1: Install Windows DFS and Create Network Shares

- Make a screen capture showing the successful DFS and net share commands on TargetWindows01.



18. **Make a screen capture** showing the **successful DFS and net share commands on TargetWindows02**.



The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The window has a dark blue background with white text. The text displays the following commands and their outputs:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator.SECURELABSONDEM> Install-WindowsFeature Fs-Replication-Service-Subfeature

Success Restart Needed Exit Code      Feature Result
-----
True      No           Success      {File and iSCSI Services, DFS Replication,...}

PS C:\Users\Administrator.SECURELABSONDEM> cmd
Microsoft Windows [Version 10.0.17763.107]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator.SECURELABSONDEM> md C:\Archive

C:\Users\Administrator.SECURELABSONDEM> net share archive=C:\Archive /grant:administrators,Full
archive was shared successfully.

C:\Users\Administrator.SECURELABSONDEM> exit
PS C:\Users\Administrator.SECURELABSONDEM>
```

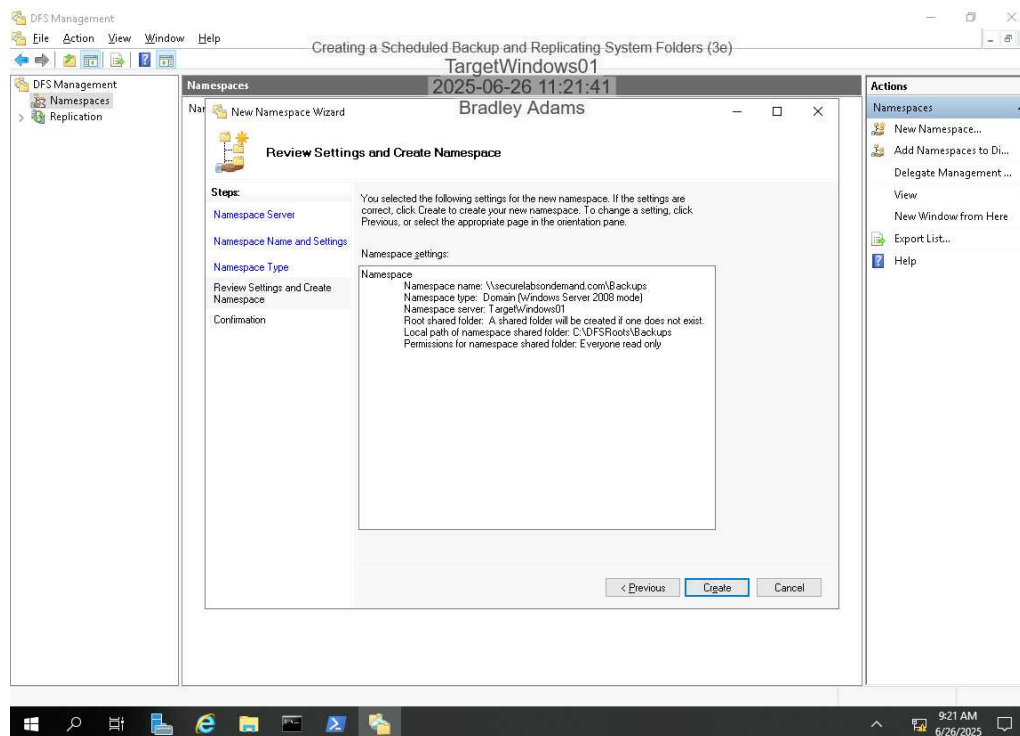
Overlaid on the screenshot are several semi-transparent labels: "Creating a Scheduled Backup and Replicating System Folders (3e)", "TargetWindows02", "2025-06-26 11:19:19", and "Bradley Adams". The Windows taskbar is visible at the bottom, showing the Start button, search icon, task view icon, and several application icons. The system tray shows the time as 9:19 AM on 6/26/2025.

## Part 2: Configure DFS

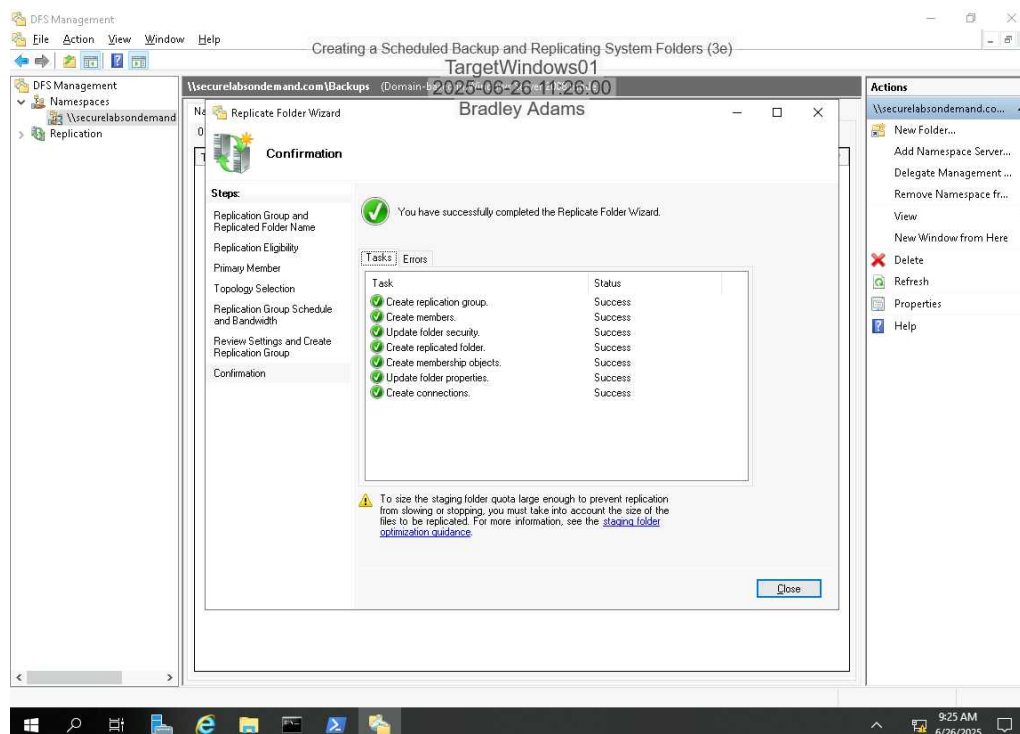
# Creating a Scheduled Backup and Replicating System Folders (3e)

Security Strategies in Windows Platforms and Applications, Third Edition - Lab 07

## 8. Make a screen capture showing the Review Settings and Create Namespace page.



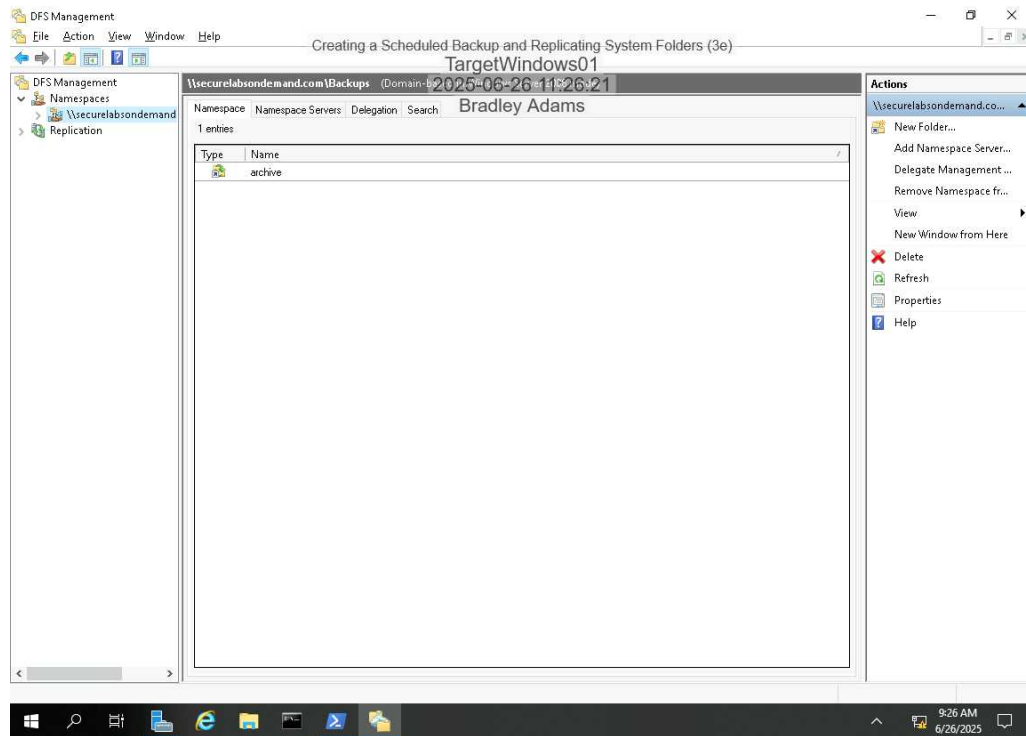
## 26. Make a screen capture showing the Confirmation page.



## Creating a Scheduled Backup and Replicating System Folders (3e)

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29. Make a screen capture showing the Namespace entries.

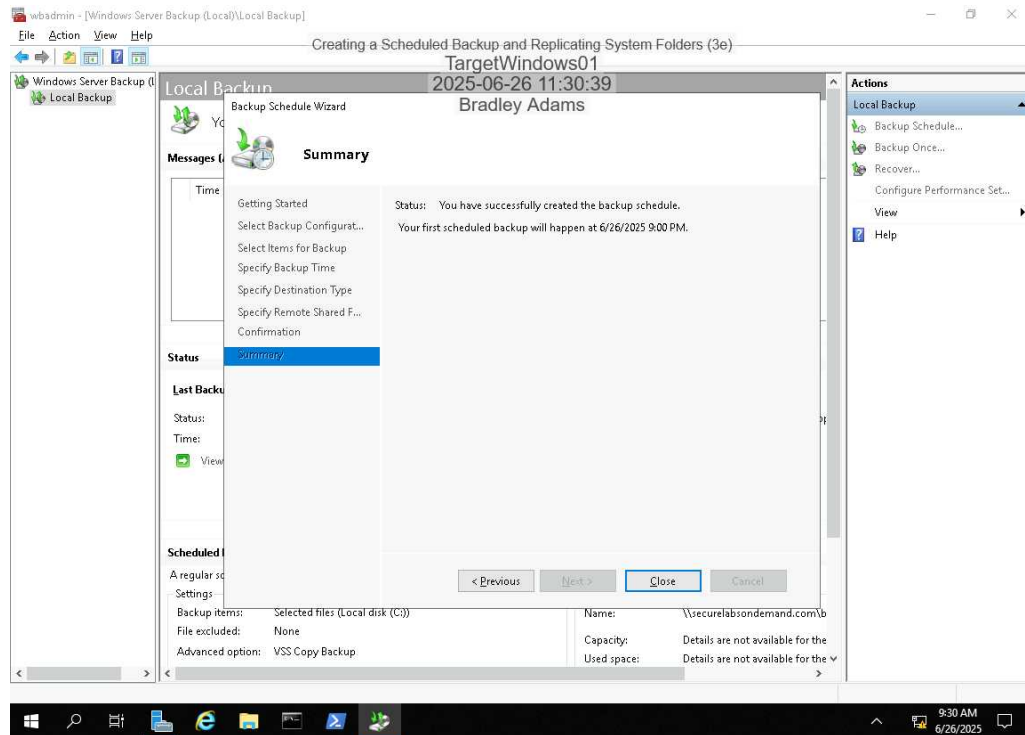


### Part 3: Install and Configure Windows Server Backup

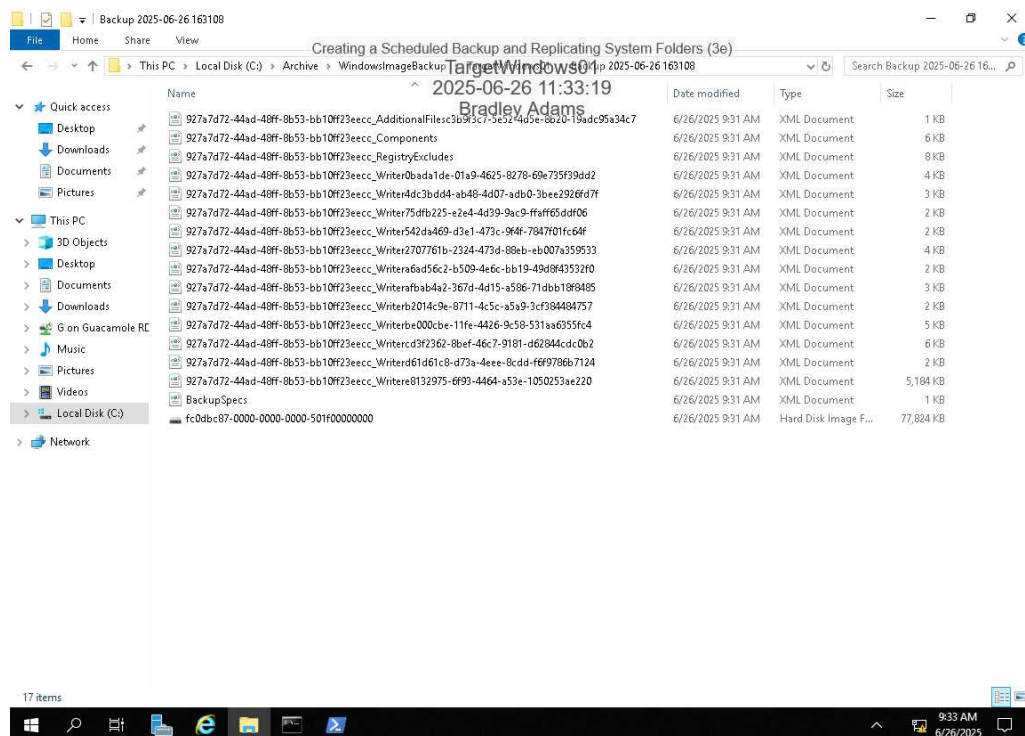
# Creating a Scheduled Backup and Replicating System Folders (3e)

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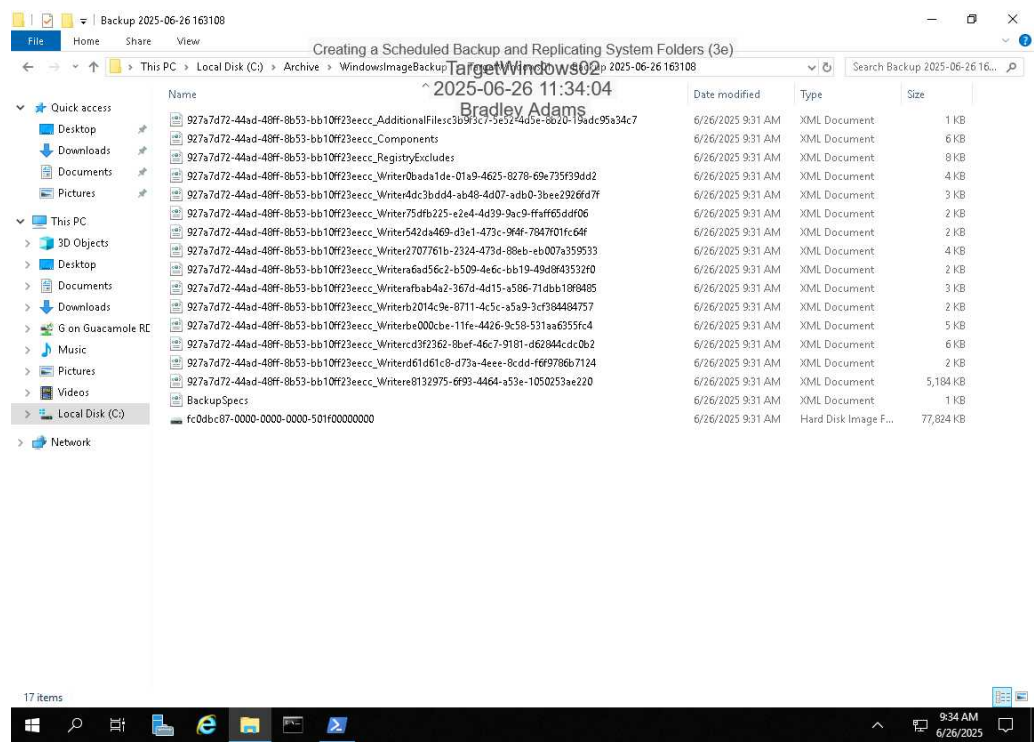
18. Make a screen capture showing the **successful backup schedule** on the **Summary** page.



28. Make a screen capture showing the **contents of the backup folder** on **TargetWindows01**.



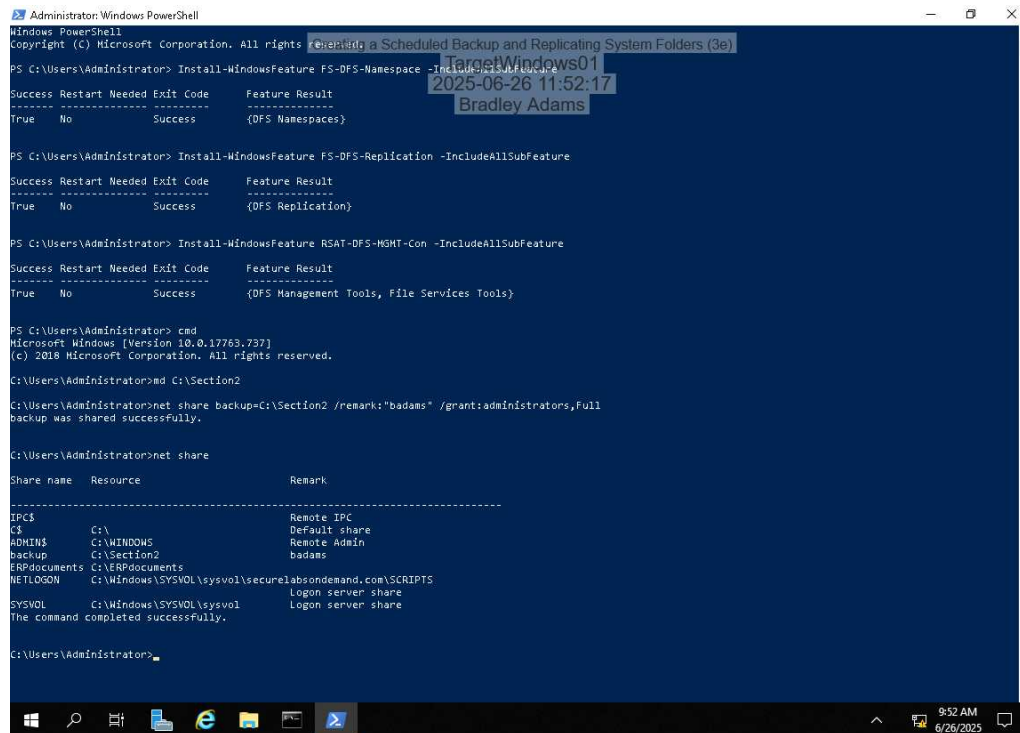
33. Make a screen capture showing the contents of the backup folder on TargetWindows02.



### Section 2: Applied Learning

#### Part 1: Install Windows DFS and Create Network Shares

8. Make a screen capture showing the net share results on TargetWindows01.



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\Users\Administrator> Install-WindowsFeature FS-DFS-Namespace -IncludeAllSubFeature
Success Restart Needed Exit Code      Feature Result
-----
True      No             Success      {DFS Namespaces}

PS C:\Users\Administrator> Install-WindowsFeature FS-DFS-Replication -IncludeAllSubFeature
Success Restart Needed Exit Code      Feature Result
-----
True      No             Success      {DFS Replication}

PS C:\Users\Administrator> Install-WindowsFeature RSAT-DFS-MGMT-Con -IncludeAllSubFeature
Success Restart Needed Exit Code      Feature Result
-----
True      No             Success      {DFS Management Tools, File Services Tools}

PS C:\Users\Administrator> cmd
Microsoft Windows [Version 10.0.17763.737]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator> md C:\Section2

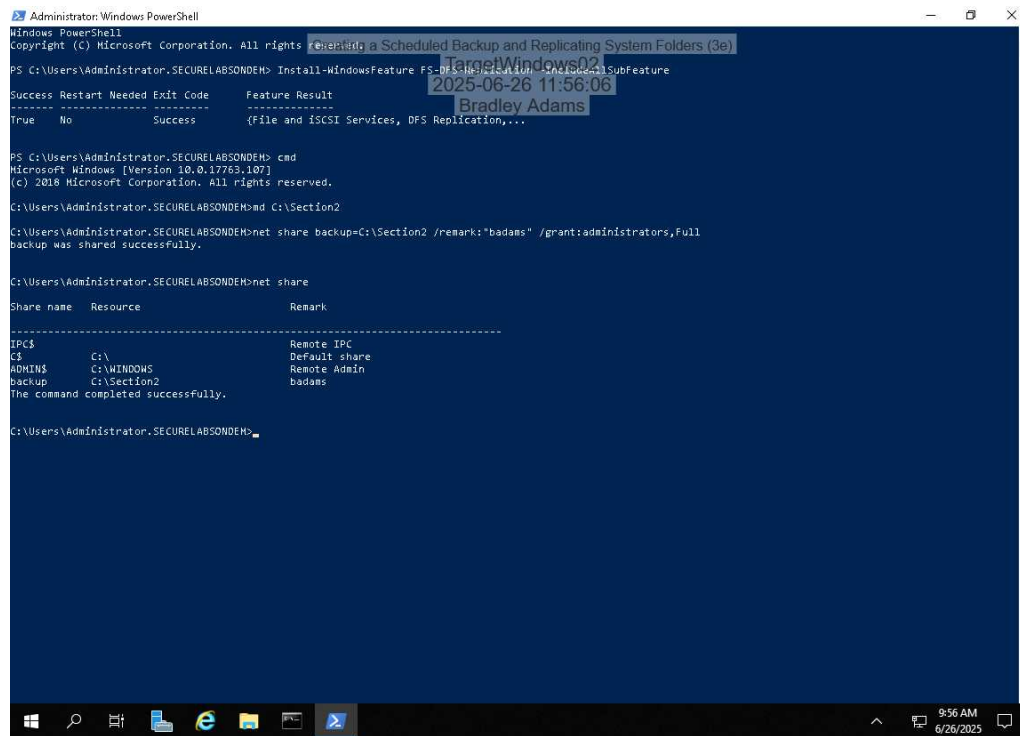
C:\Users\Administrator> net share backup=C:\Section2 /remark:"badams" /grant:administrators,Full
backup was shared successfully.

C:\Users\Administrator> net share

Share name      Resource
-----
IPC$            Remote IPC
C$             C:\
ADMIN$         C:\WINDOWS
backup         C:\Section2
ERPdocuments   C:\ERPdocuments
NETLOGON       C:\Windows\SYSVOL\sysvol\securelabsondemand.com\SCRIPTS
SYSVOL         C:\Windows\SYSVOL\sysvol
The command completed successfully.

C:\Users\Administrator>
```

### 13. Make a screen capture showing the net share results on TargetWindows02.



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\Users\Administrator\SECURELABSONDEH> Install-WindowsFeature FS-Replication
Success Restart Needed Exit Code      Feature Result
-----
True      No              Success      (File and iSCSI Services, DFS Replication,...)

PS C:\Users\Administrator\SECURELABSONDEH> cmd
Microsoft Windows [Version 10.0.17763.107]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator\SECURELABSONDEH>md C:\Section2

C:\Users\Administrator\SECURELABSONDEH>net share backup=C:\Section2 /remark:"badams" /grant:administrators,Full
backup was shared successfully.

C:\Users\Administrator\SECURELABSONDEH>net share

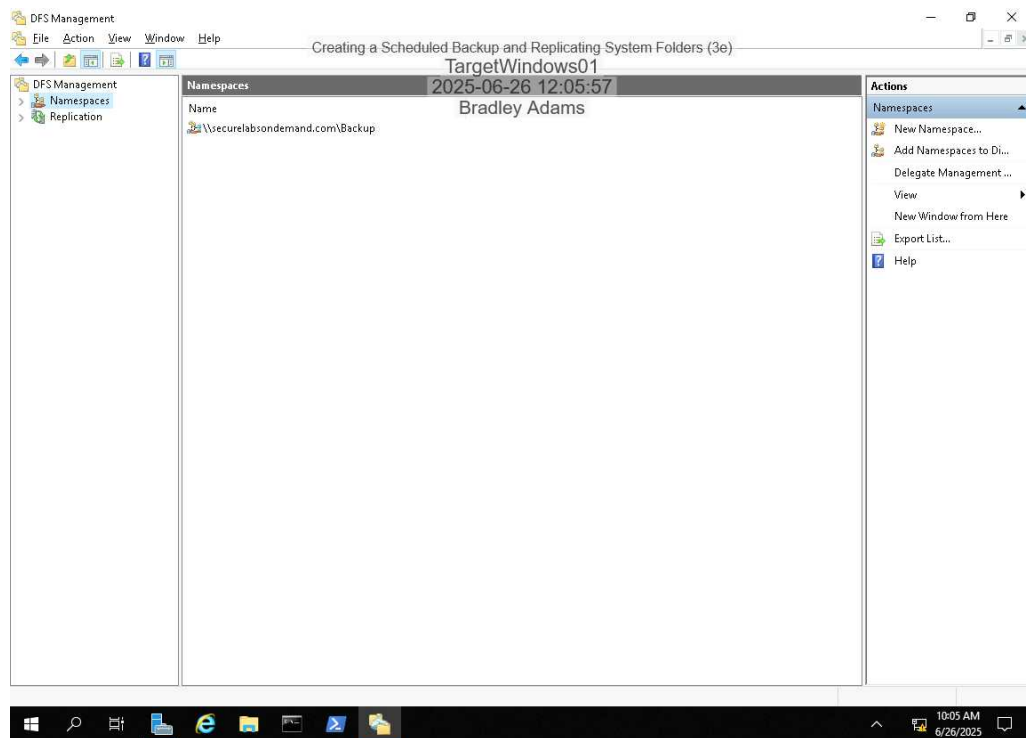
Share name      Resource
-----
IPC$            Remote IPC
C$              C:\
ADMIN$          C:\WINDOWS
backup          C:\Section2
The command completed successfully.

C:\Users\Administrator\SECURELABSONDEH>
```

## Part 2: Configure DFS

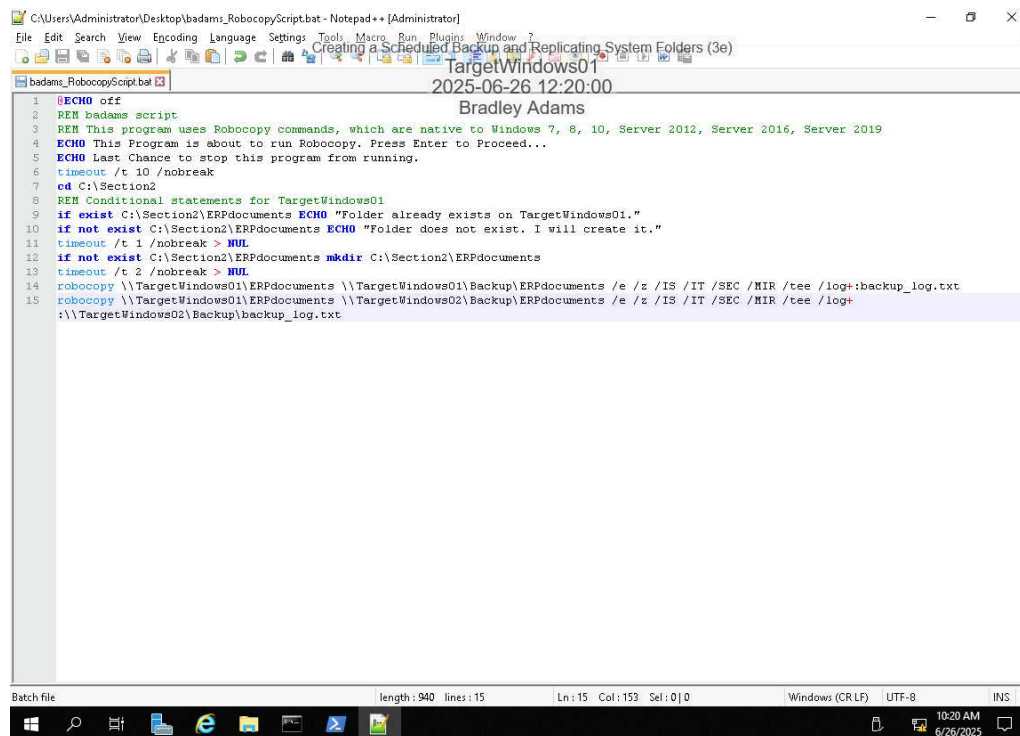


12. **Make a screen capture** showing the **new namespace** in the **DFS Management console**.



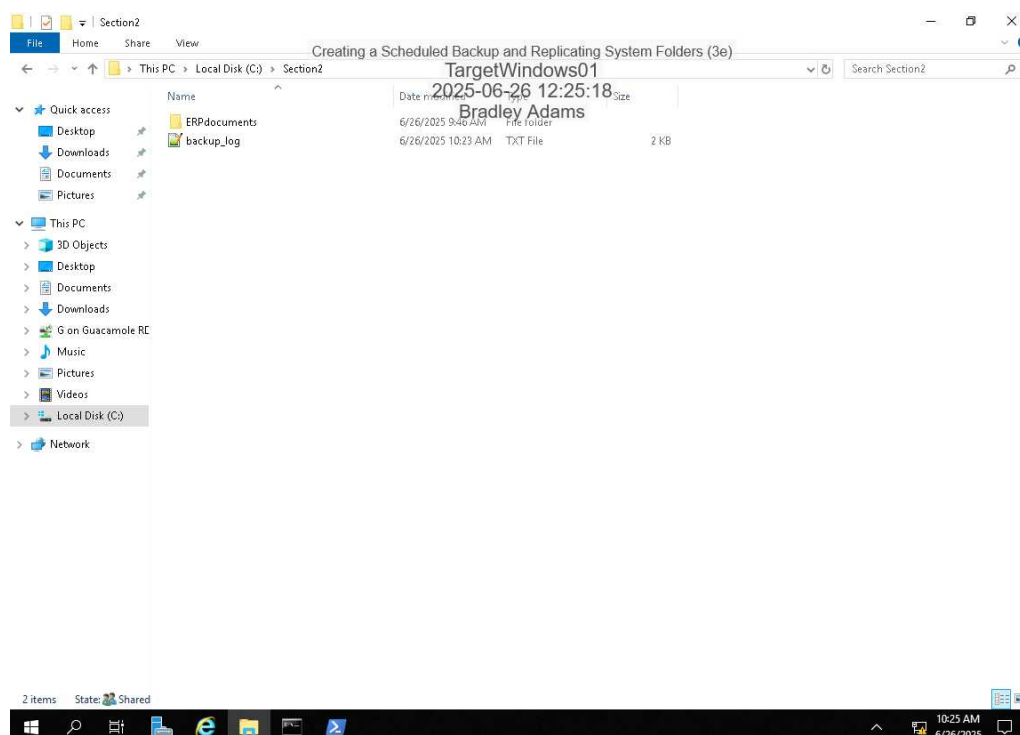
### Part 3: Create and Execute a Robocopy Script

## 9. Make a screen capture showing the completed Robocopy script.



```
1 ECHO off
2 REM badams script
3 REM This program uses Robocopy commands, which are native to Windows 7, 8, 10, Server 2012, Server 2016, Server 2019
4 ECHO This Program is about to run Robocopy. Press Enter to Proceed...
5 ECHO Last Chance to stop this program from running.
6 timeout /t 10 /nobreak
7 cd C:\Section2
8 REM Conditional statements for TargetWindows01
9 if exist C:\Section2\ERPdocuments ECHO "Folder already exists on TargetWindows01."
10 if not exist C:\Section2\ERPdocuments ECHO "Folder does not exist. I will create it."
11 timeout /t 1 /nobreak > NUL
12 if not exist C:\Section2\ERPdocuments mkdir C:\Section2\ERPdocuments
13 timeout /t 2 /nobreak > NUL
14 robocopy \\TargetWindows01\ERPdocuments \\TargetWindows01\Backup\ERPdocuments /e /z /IS /IT /SEC /MIR /tee /log+:backup_log.txt
15 robocopy \\TargetWindows01\ERPdocuments \\TargetWindows02\Backup\ERPdocuments /e /z /IS /IT /SEC /MIR /tee /log+:
16 \\TargetWindows02\Backup\backup_log.txt
```

## 16. Make a screen capture showing the contents of the Section2 folder on the TargetWindows01 server.

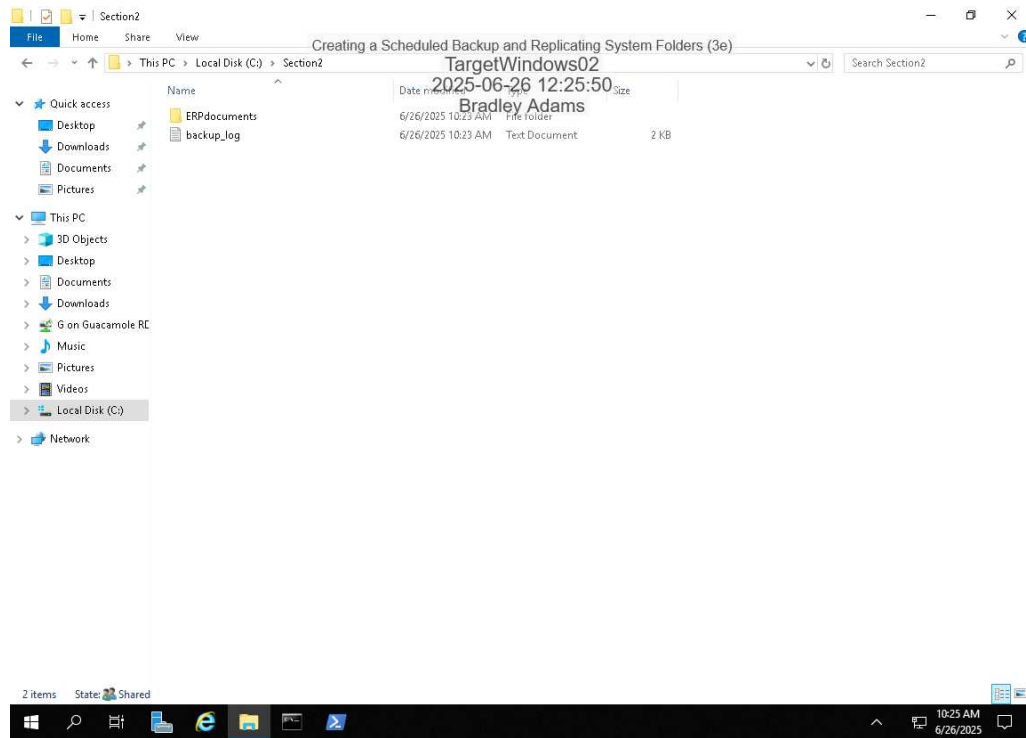


## Creating a Scheduled Backup and Replicating System Folders (3e)

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19. **Make a screen capture** showing the **contents of the Section2 folder on the TargetWindows02 server.**



### Section 3: Challenge and Analysis

#### Part 1: Analysis and Discussion

In Section 2 of this lab, you used Robocopy in the script to copy files from one remote machine to another. Robocopy was selected because it is native to Windows and is a robust tool with a variety of switches for customizing the command line. Use the Internet to research an alternative to Robocopy that could be used in the script. Explain your choice.

A recommended alternative to Robocopy is FreeFileSync. It is a free and open-source tool available for Windows, macOS, and Linux. It offers advanced synchronization features, including real-time monitoring, automated backups, versioning, inclusion and exclusion filters, and a visual conflict-resolution GUI. Robocopy reruns full cycles with certain switches, while FreeFileSync detects changed files and only synchronizes deltas, making it both efficient and scriptable for backup workflows.

Source:

<https://alternativeto.net/software/robocopy/>

#### Part 2: Tools and Commands

**Document** your Robocopy command.

```
robocopy "C:\Source" "D:\Destination" /MIR /Z /FFT /R:3 /W:5
```

Source:

<https://learn.microsoft.com/en-us/windows-server/administration/windows-commands/robocopy>

#### Part 3: Challenge Exercise

**Document** the command you constructed for the Robocopy alternative.

Create a FreeFileSync batch configuration file, such as .ffs\_batch, that defines the source folder as "\TargetWindows01\ERPdocuments" and the destination folder as "\TargetWindows02\Backup\ERPdocuments". In the configuration file, synchronization rules will be added, including mirroring, preserving file security settings, and enabling logging.

Once the .ffs\_batch file is saved to a location such as C:\Path\To\ERPBackup.ffs\_batch, the Robocopy command in the script can be replaced with a request to execute the FreeFileSync batch:

```
"C:\Program Files\FreeFileSync\FreeFileSync.exe" "C:\Path\To\ERPBackup.ffs_batch"
```

This command will launch the synchronization process. Logging is configured within the FreeFileSync GUI to append to the same log file.

Source:

<https://freefilesync.org/manual.php?topic=command-line>