| Student: | Email: |
| --- | --- |
| Bradley Adams | badams10@my.athens.edu |

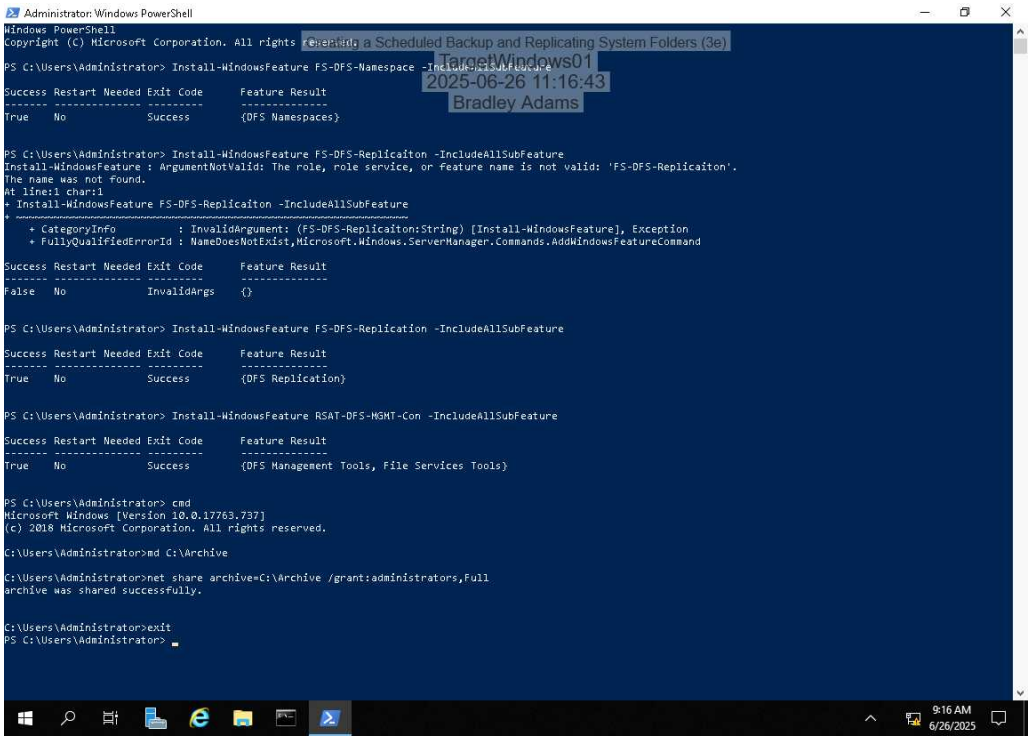
| Time on Task: | Progress: |
| --- | --- |
| 6 hours, 0 minutes | 100% |

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

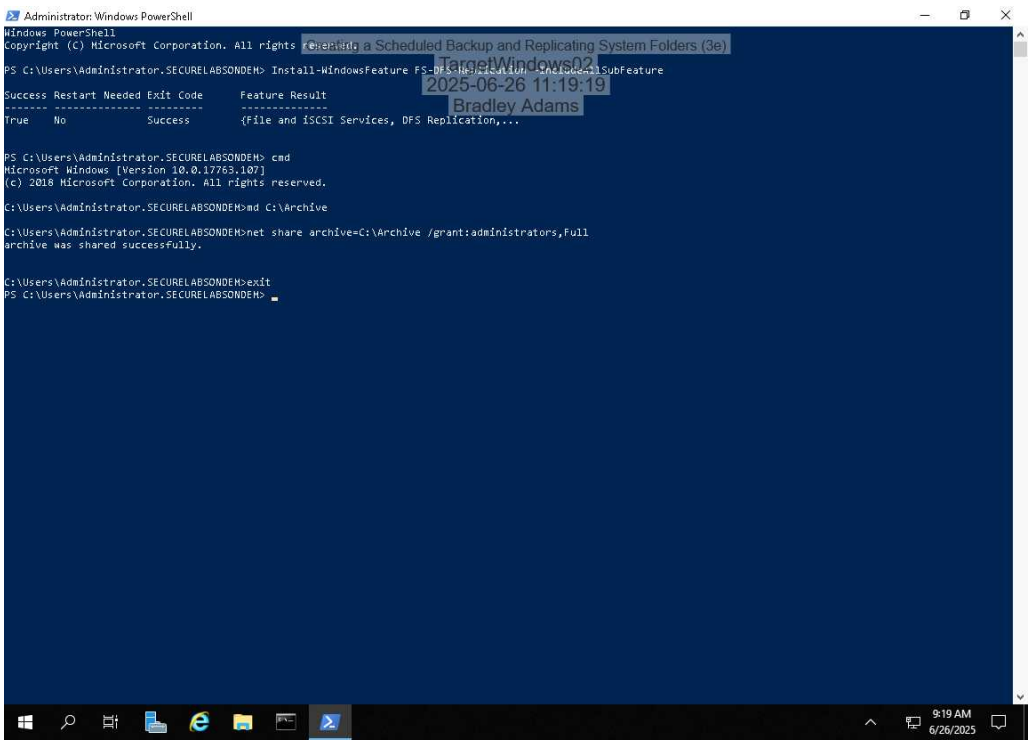
# Section 1: Hands-On Demonstration

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

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

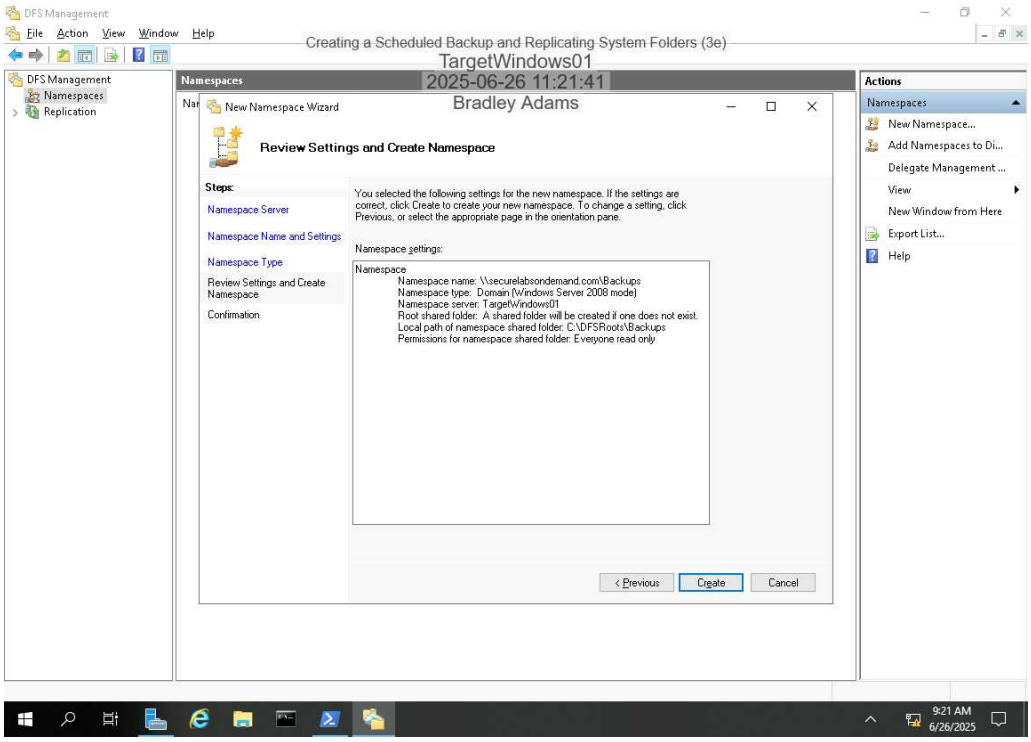


18. **Make a screen capture** showing the **successful DFS and net share commands on TargetWindows02**.

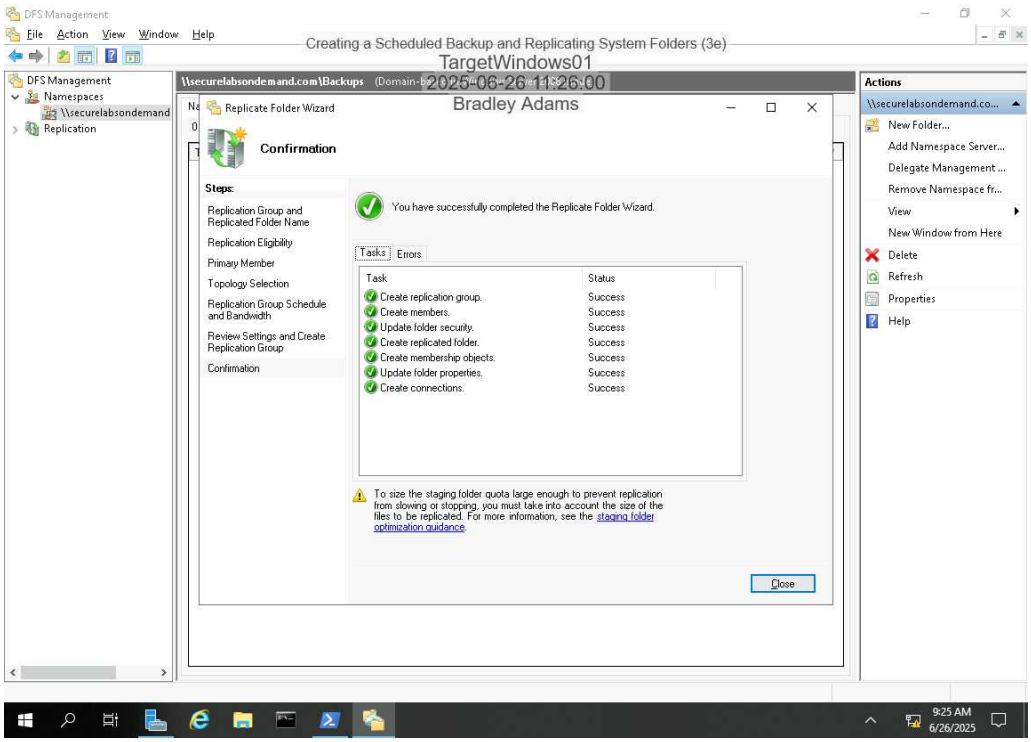



## Part 2: Configure DFS

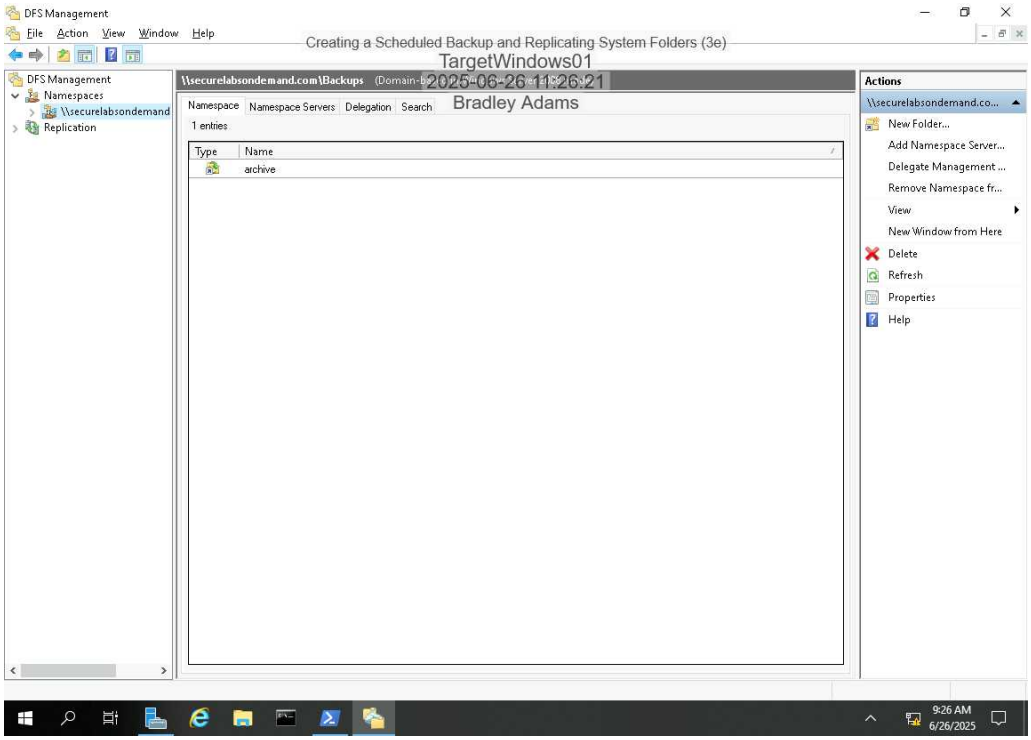
8. **Make a screen capture** showing the **Review Settings and Create Namespace page**.




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

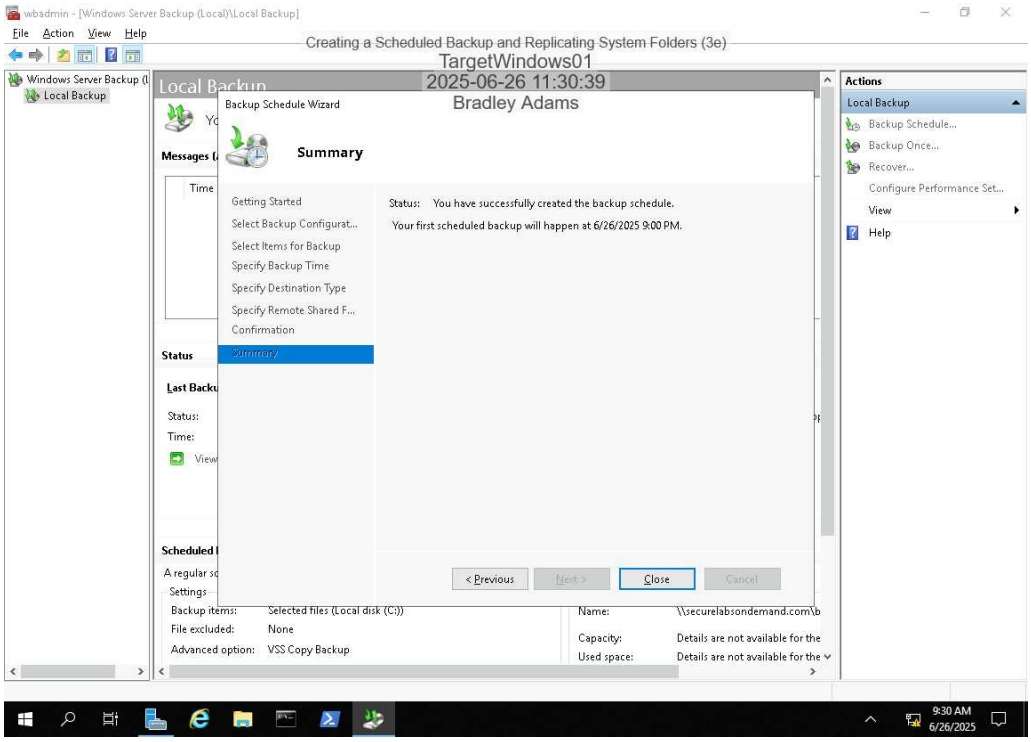


29. **Make a screen capture** showing the **Namespace entries**.

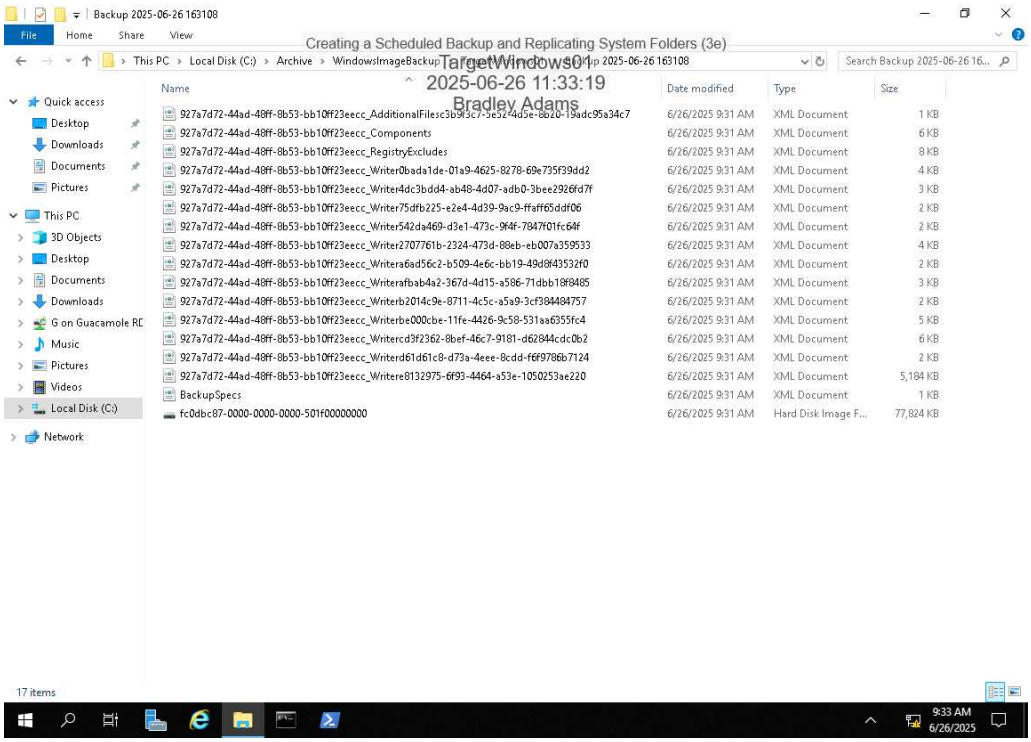



## Part 3: Install and Configure Windows Server Backup

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**.

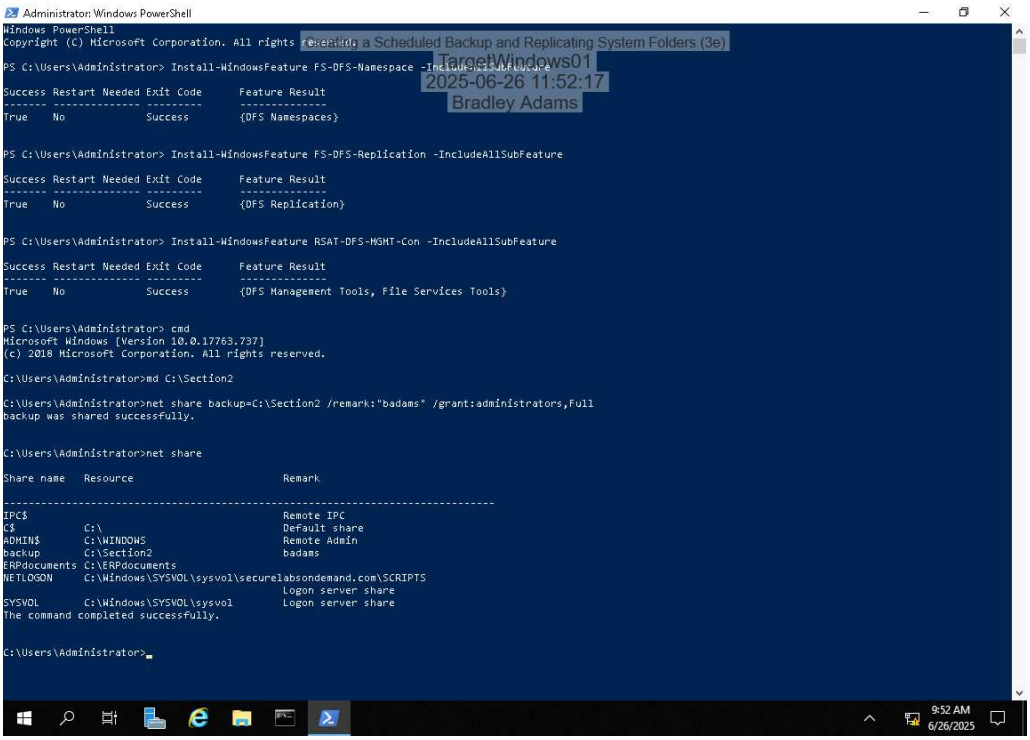


33. **Make a screen capture** showing the **contents of the backup folder on TargetWindows02**.

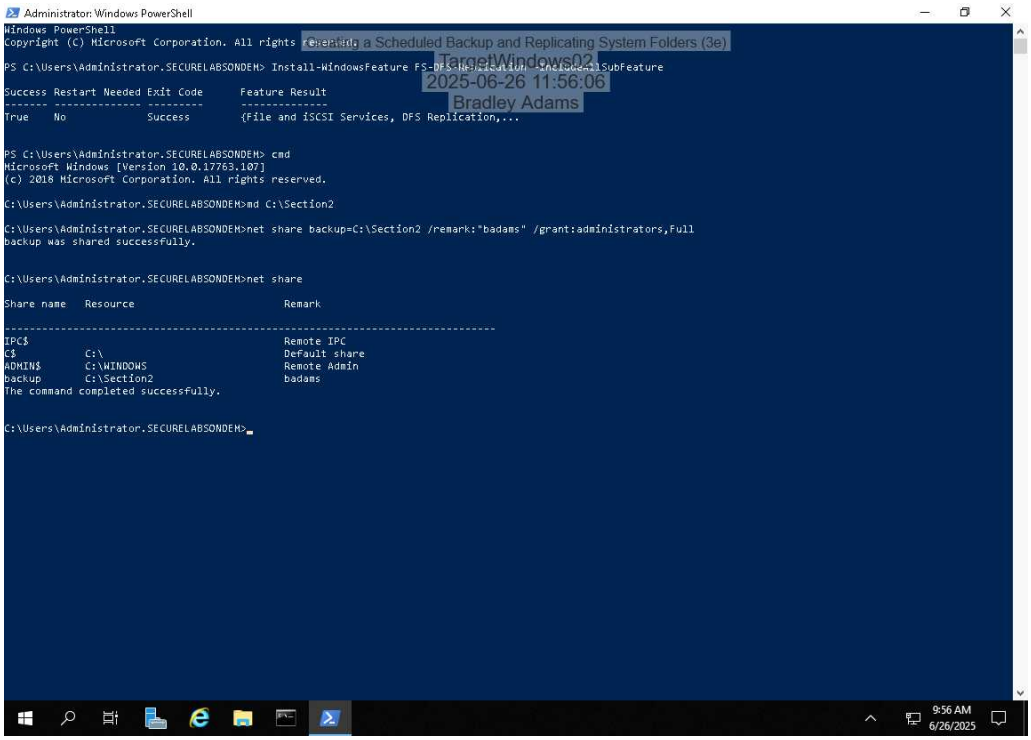
# Section 2: Applied Learning

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

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

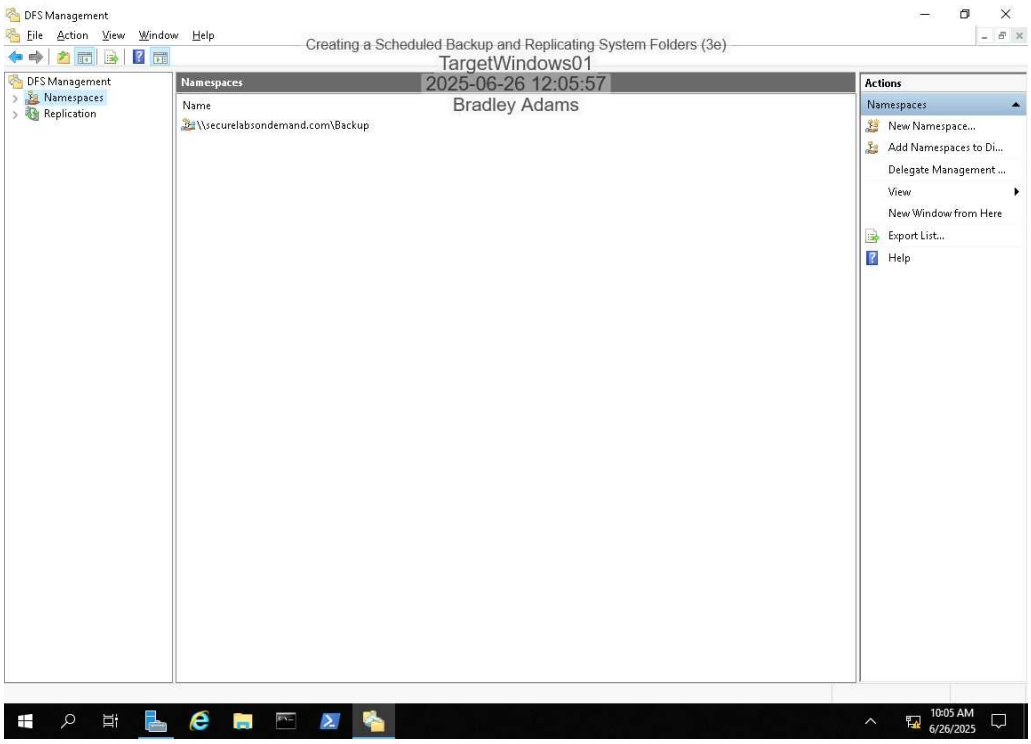


13. **Make a screen capture** showing the **net share results on TargetWindows02**.



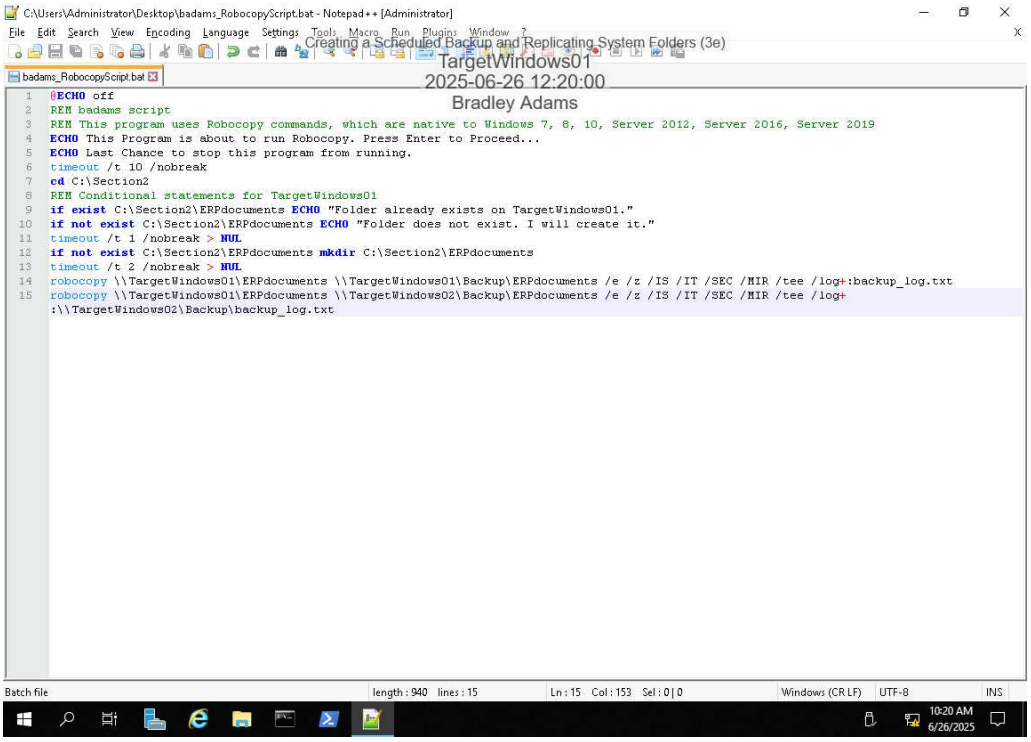

## Part 2: Configure DFS

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

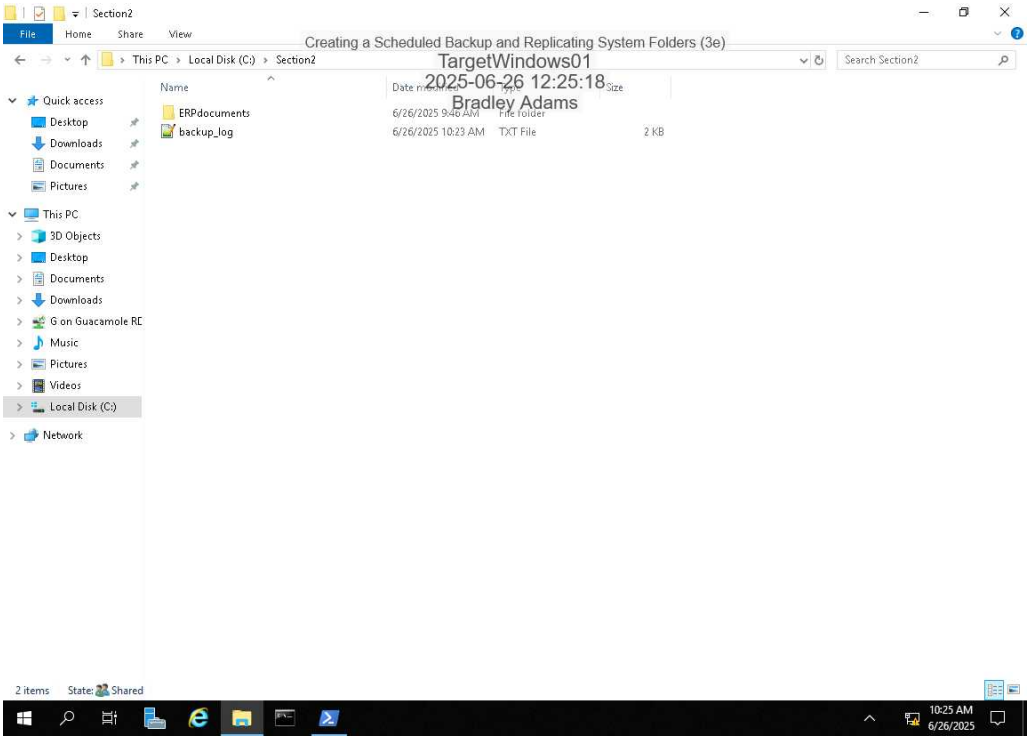



## Part 3: Create and Execute a Robocopy Script

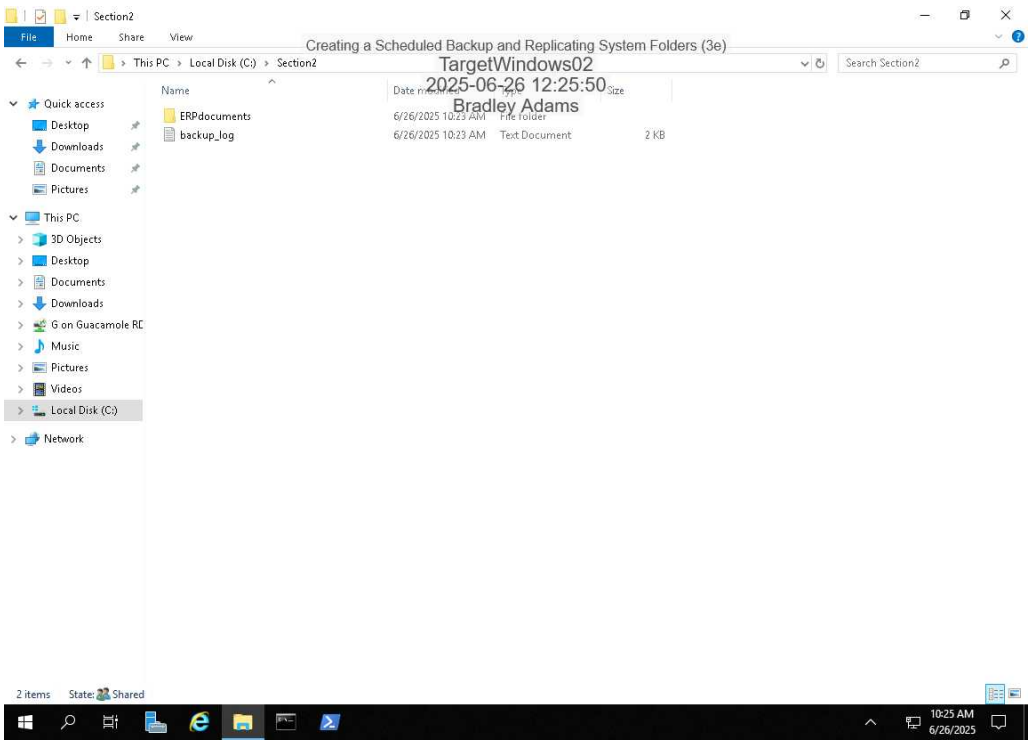
9. **Make a screen capture** showing the **completed Robocopy script**.




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



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