

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

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

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Time on Task:

12 hours, 45 minutes

Progress:

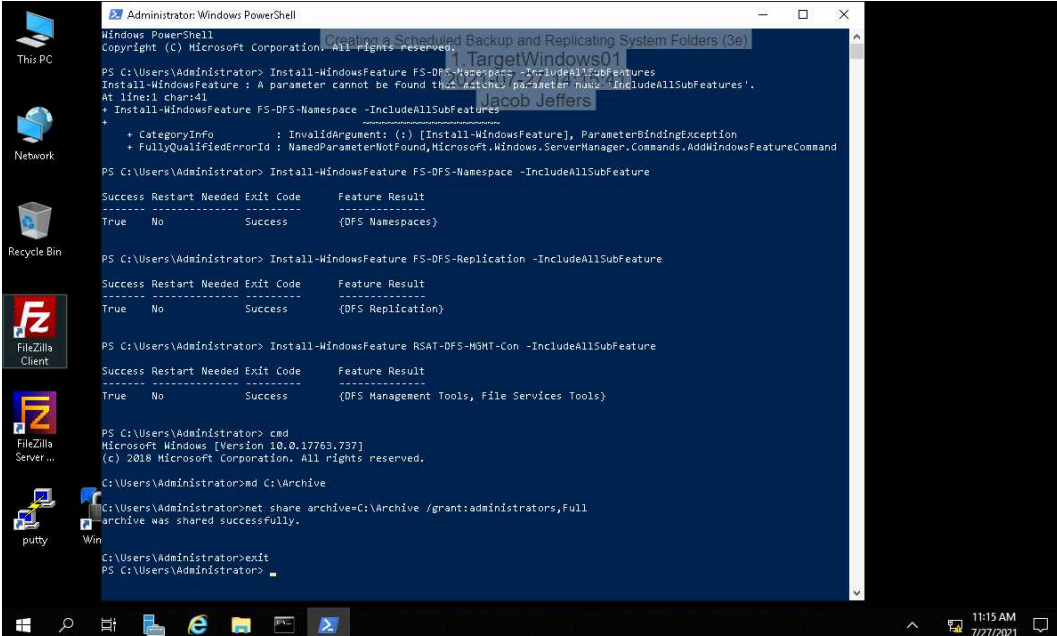
100%

Report Generated: Tuesday, July 27, 2021 at 4:30 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.



The screenshot shows a Windows 10 desktop with a taskbar containing icons for 'This PC', 'Network', 'Recycle Bin', 'FileZilla Client', 'FileZilla Server...', and 'putty'. A Windows PowerShell window is open, displaying the following commands and output:

```
PS C:\Users\Administrator> Install-WindowsFeature FS-Dfs-Namespaces -IncludeAllSubFeatures
Install-WindowsFeature : A parameter cannot be found that matches parameter name 'IncludeAllSubFeatures'.
At line:1 char:1
+ Install-WindowsFeature FS-Dfs-Namespaces -IncludeAllSubFeatures
+ ~~~~~
+ CategoryInfo          : InvalidArgument: (:) [Install-WindowsFeature], ParameterBindingException
+ FullyQualifiedErrorId : NamedParameterNotFound,Microsoft.Windows.ServerManager.Commands.AddWindowsFeatureCommand

PS C:\Users\Administrator> Install-WindowsFeature FS-Dfs-Replication -IncludeAllSubFeature

Success Restart Needed Exit Code      Feature Result
-----
True      No              Success      {DFS Namespaces}

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:\Archive

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

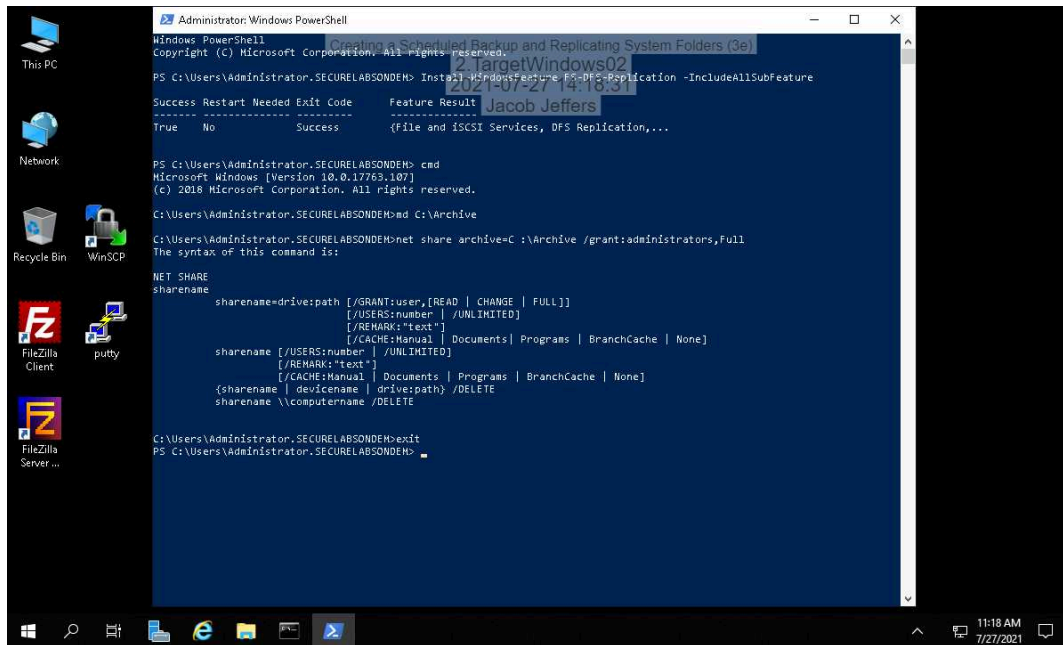
C:\Users\Administrator>exit
PS C:\Users\Administrator>
```

The system clock in the bottom right corner indicates the time is 11:15 AM on 7/27/2021.

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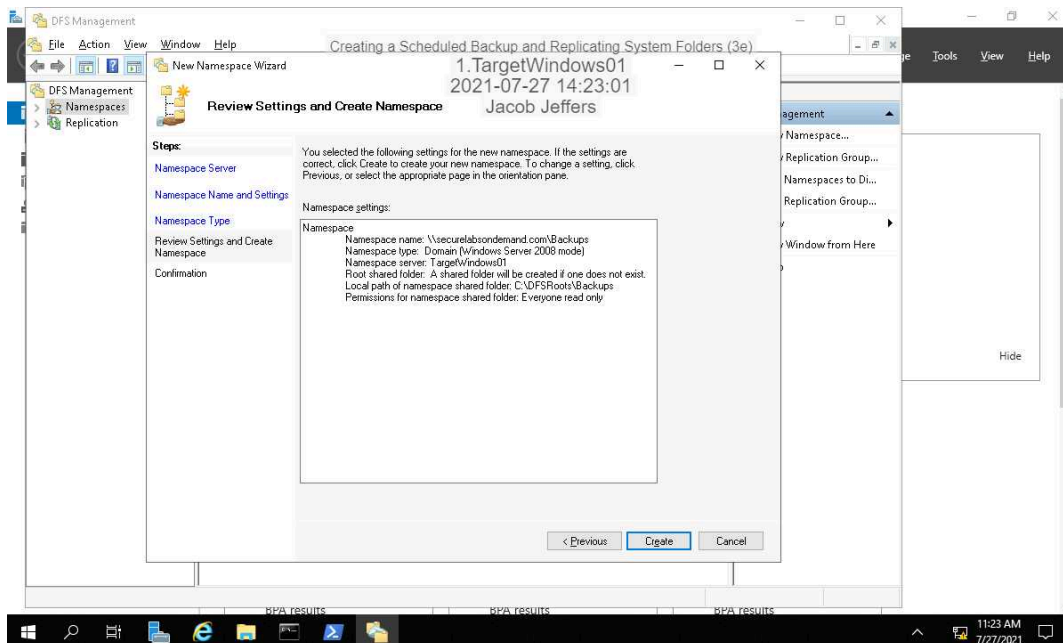
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18. Make a screen capture showing the successful DFS and net share commands on TargetWindows02.



## Part 2: Configure DFS

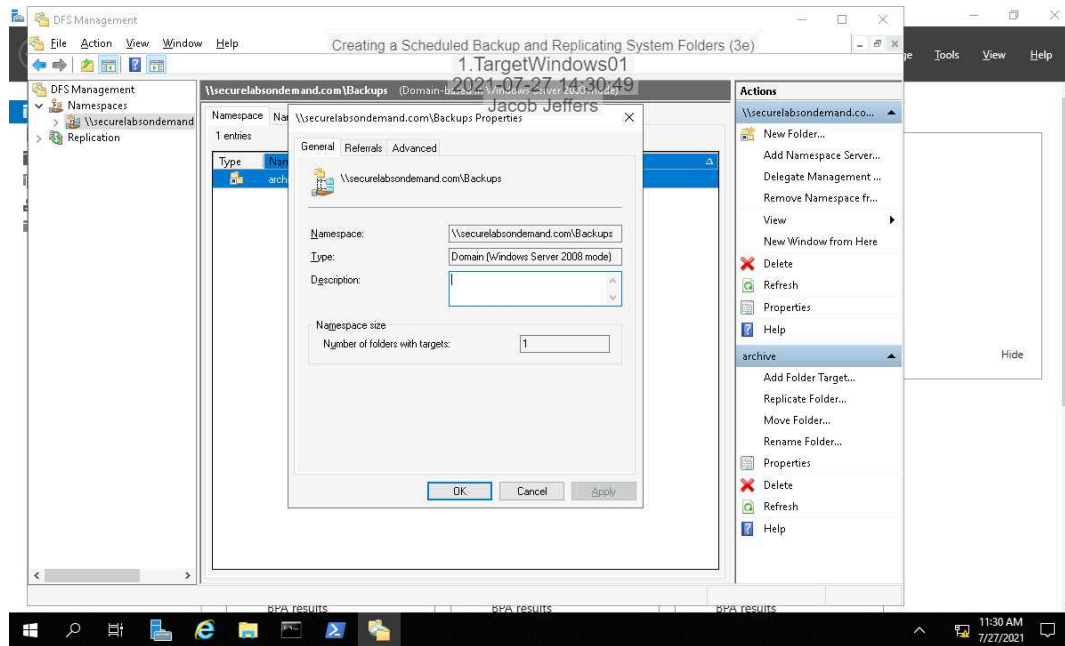
8. Make a screen capture showing the Review Settings and Create Namespace page.



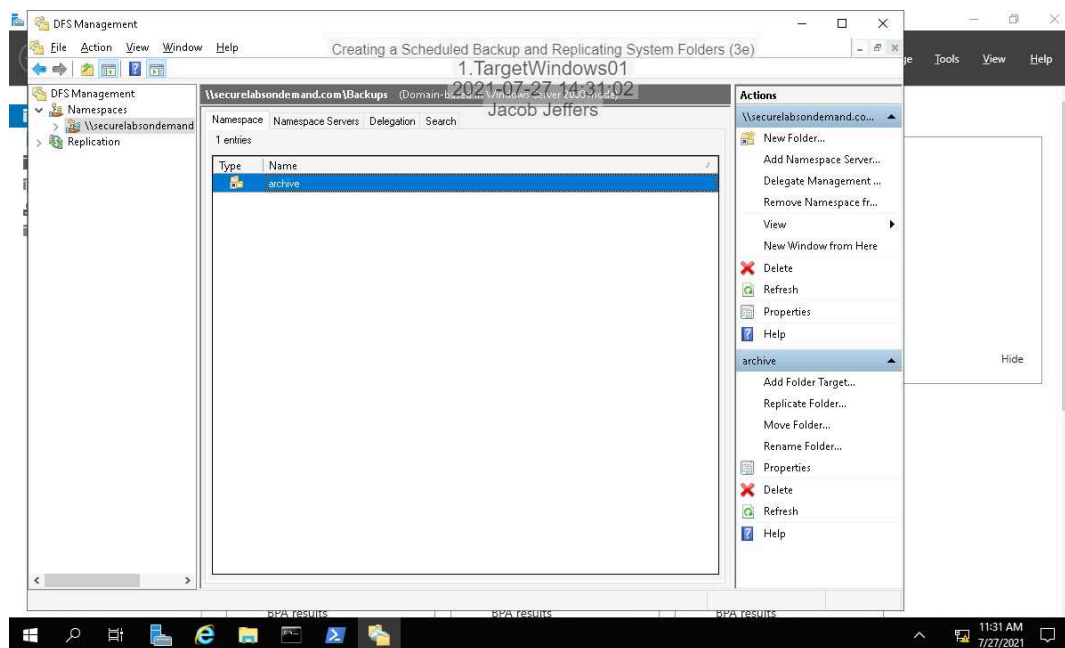
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26. Make a screen capture showing the **Confirmation** page.



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

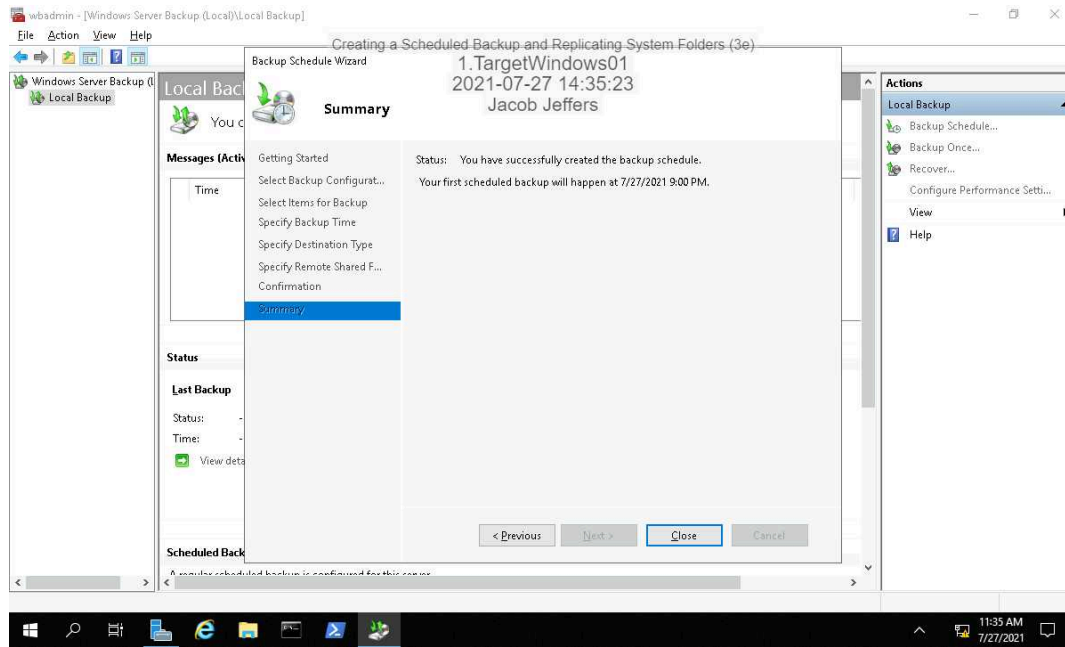


## Part 3: Install and Configure Windows Server Backup

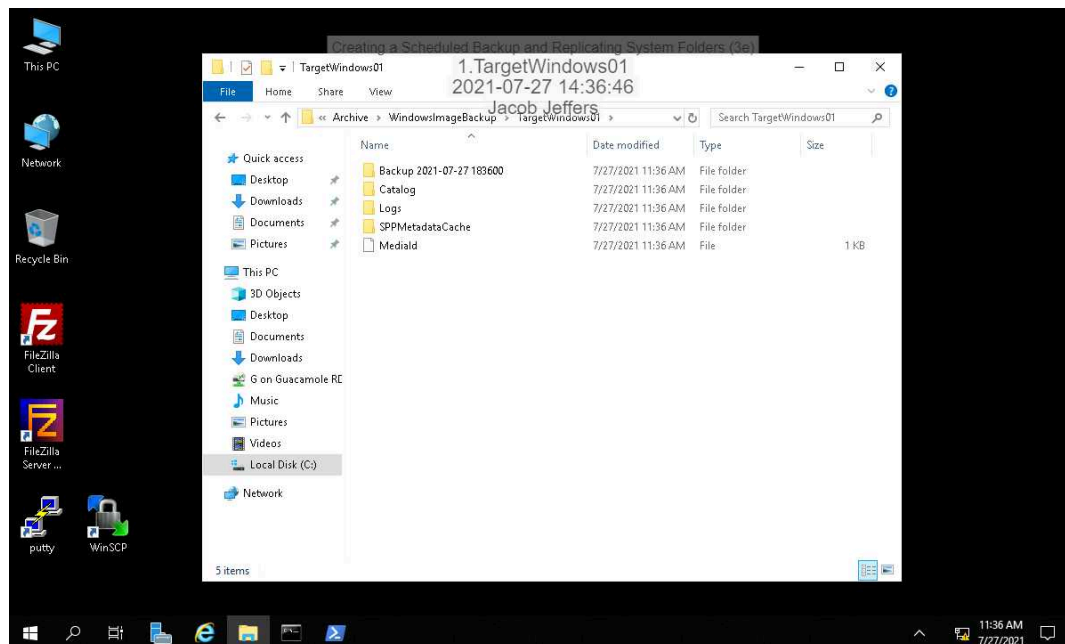
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18. Make a screen capture showing the **successful backup schedule** on the **Summary** page.



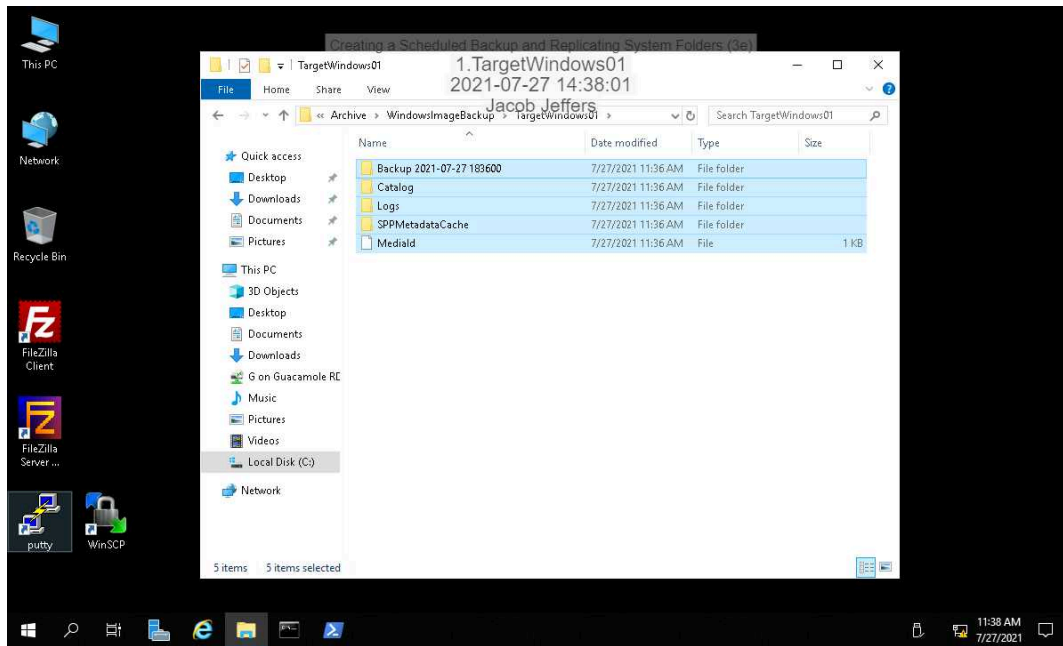
28. Make a screen capture showing the **contents of the backup folder** on **TargetWindows01**.



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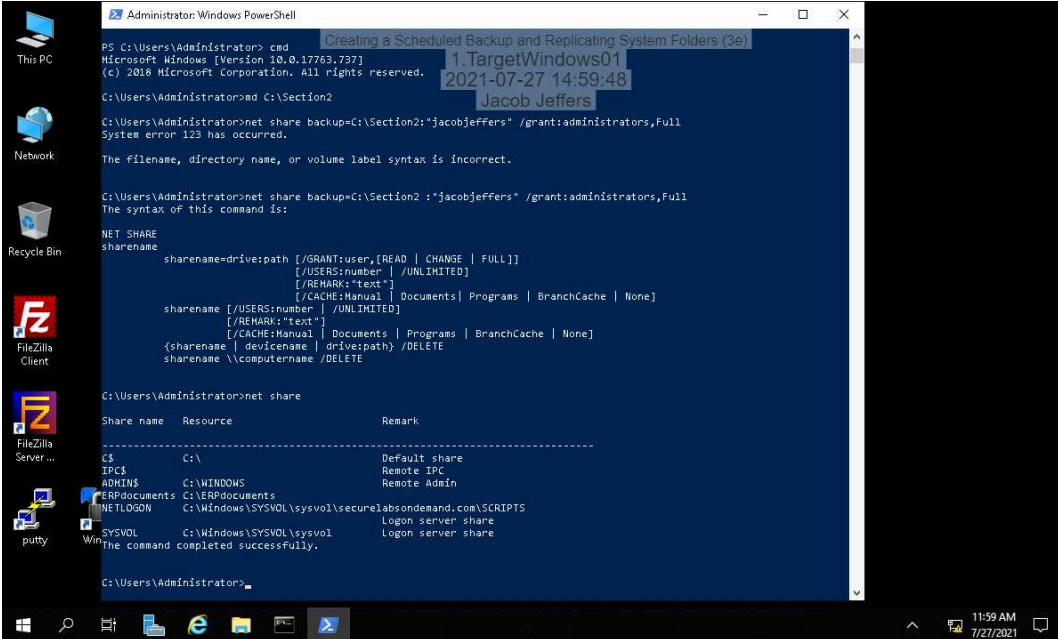
33. Make a screen capture showing the **contents of the backup folder on TargetWindows02**.



### 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.



The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The command prompt shows the following commands and output:

```
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:"jacobjeffers" /grant:administrators,Full
System error 123 has occurred.

The filename, directory name, or volume label syntax is incorrect.

C:\Users\Administrator> net share backup=C:\Section2:"jacobjeffers" /grant:administrators,Full
The syntax of this command is:

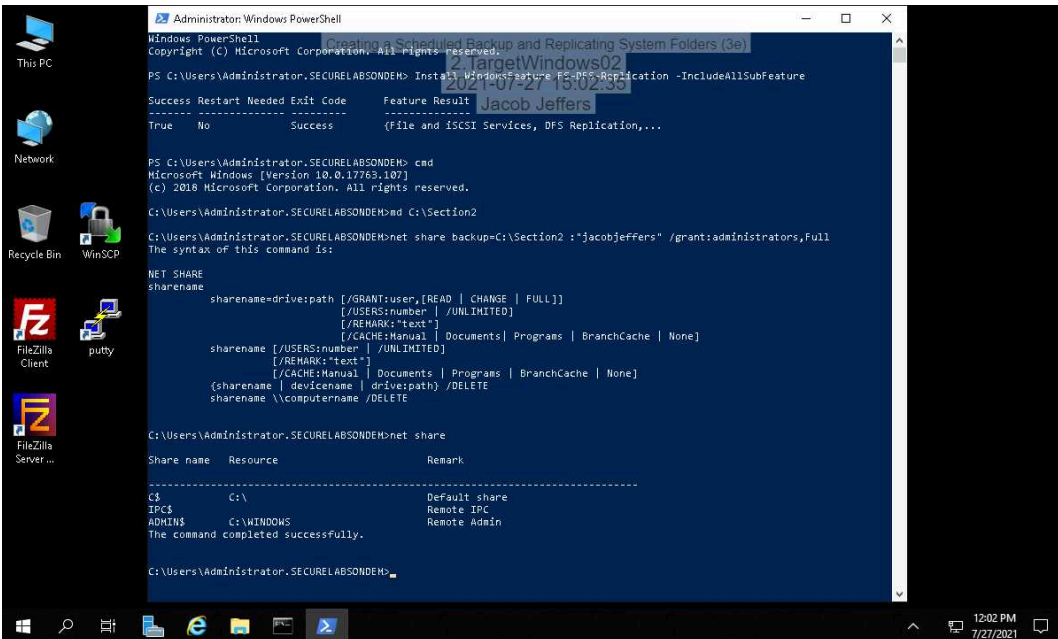
NET SHARE
sharename
sharename=drive:path [/GRANT:user,[READ | CHANGE | FULL]]
[/USERS:number | /UNLIMITED]
[/REMARK:"text"]
[/CACHE:Manual | Documents | Programs | BranchCache | None]
[/USERS:number | /UNLIMITED]
[/REMARK:"text"]
[/CACHE:Manual | Documents | Programs | BranchCache | None]
{sharename | devicename | drive:path} /DELETE
sharename \\computername /DELETE

C:\Users\Administrator> net share

Share name Resource Remark
-----
C$ C:\ Default share
IPC$ C:\WINDOWS Remote IPC
ADMIN$ C:\WINDOWS Remote Admin
NETLOGON C:\Windows\SYSTEM32\sysvol\securelabsondemand.com\SCRIPTS
SYSVOL C:\Windows\SYSTEM32\sysvol Logon server share
The command completed successfully.

C:\Users\Administrator>
```

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



The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The command prompt shows the following commands and output:

```
PS C:\Users\Administrator> Install-WindowsFeature FS-Replication -IncludeAllSubFeature
Success Restart Needed Exit Code Feature Result
-----
True No Success {File and iSCSI Services, DFS Replication,...}

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

C:\Users\Administrator> net share backup=C:\Section2:"jacobjeffers" /grant:administrators,Full
The syntax of this command is:

NET SHARE
sharename
sharename=drive:path [/GRANT:user,[READ | CHANGE | FULL]]
[/USERS:number | /UNLIMITED]
[/REMARK:"text"]
[/CACHE:Manual | Documents | Programs | BranchCache | None]
[/USERS:number | /UNLIMITED]
[/REMARK:"text"]
[/CACHE:Manual | Documents | Programs | BranchCache | None]
{sharename | devicename | drive:path} /DELETE
sharename \\computername /DELETE

C:\Users\Administrator> net share

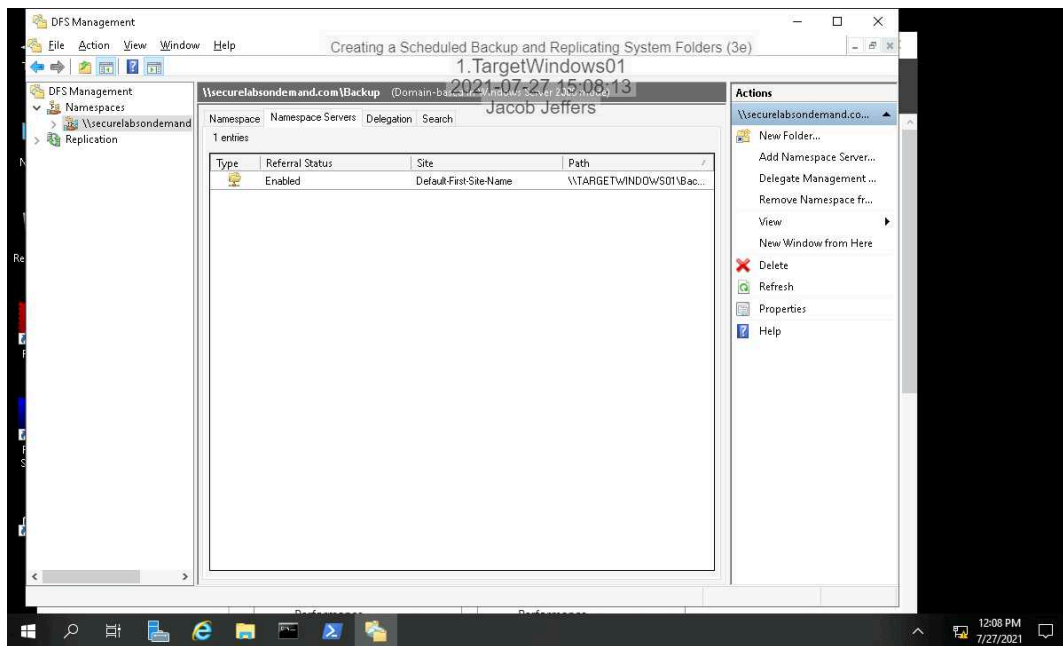
Share name Resource Remark
-----
C$ C:\ Default share
IPC$ C:\WINDOWS Remote IPC
ADMIN$ C:\WINDOWS Remote Admin
The command completed successfully.

C:\Users\Administrator>
```

#### Part 2: Configure DFS

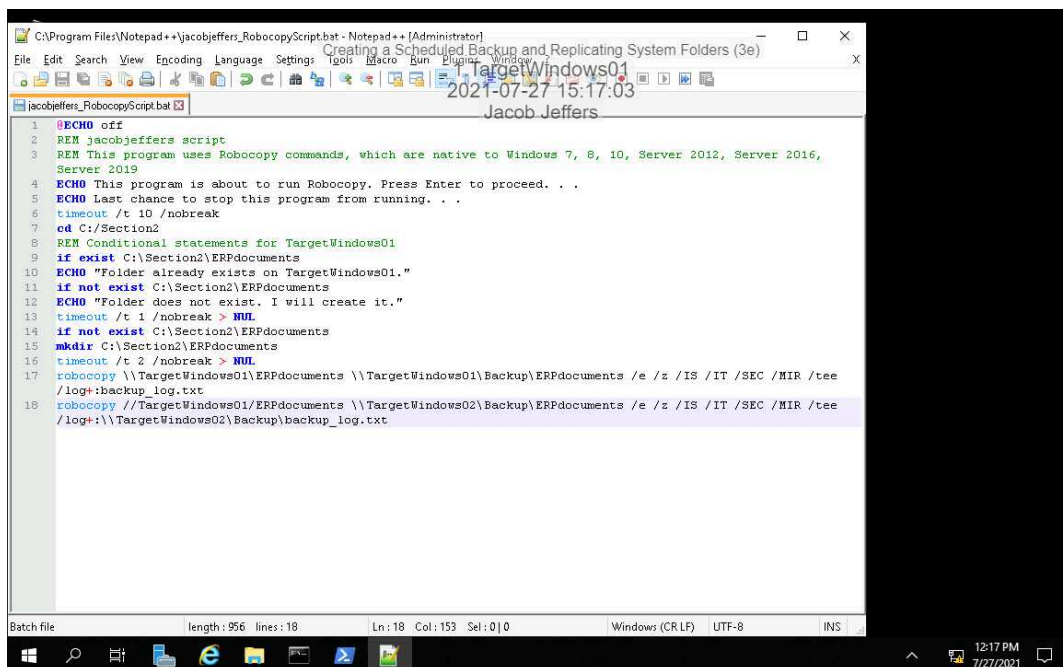


12. Make a screen capture showing the new namespace in the DFS Management console.



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

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

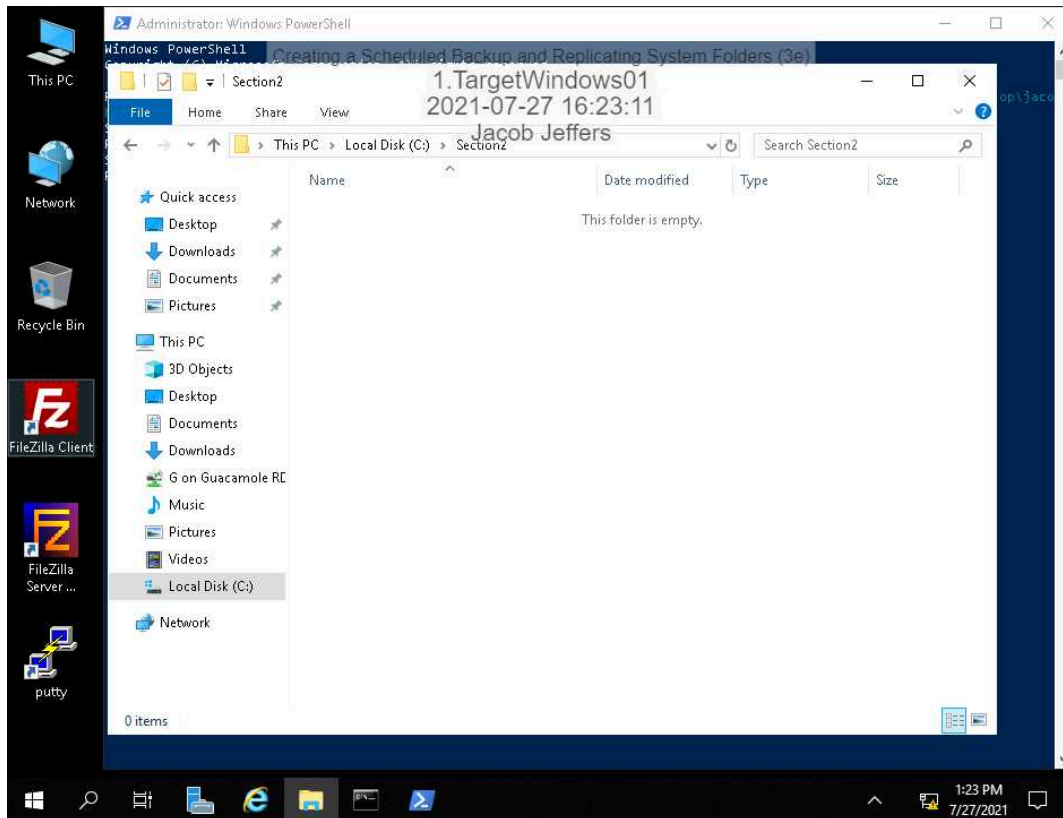


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16. **Make a screen capture** showing the **contents of the Section2 folder on the TargetWindows01 server.**



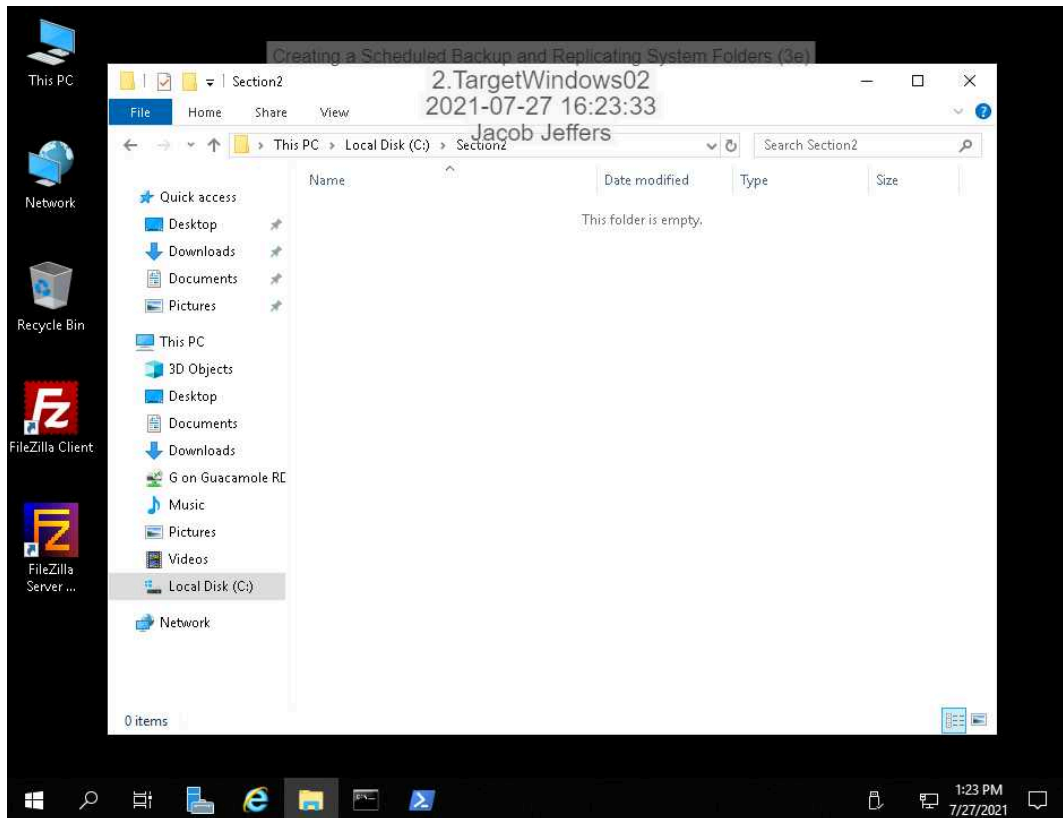


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19. **Make a screen capture** showing the **contents of the Section2 folder on the TargetWindows02 server.**



### 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 tool that allows users to replicate, backup, or synchronize files across multiple systems in a network much like Robocopy is rsync.

#### Part 2: Tools and Commands

**Document** your Robocopy command.

```
Robocopy Source_folder Destination_folder (/Z /FTT /r:1
```

#### Part 3: Challenge Exercise

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

```
sudo rsync -azvvP /home/path/folder1/ /home/path/folder2
```