Shared Network Drive

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To create a shared network drive for all users using PowerShell commands, you can use a logon script that runs for all users. Here's an example of how you can accomplish this:

1. Open PowerShell: Press Win + X on your keyboard, then select "Windows PowerShell" or "Windows PowerShell (Admin)" from the menu.

2. Create a PowerShell script: Create a new PowerShell script file with a `.ps1` extension, such as `networkdrive.ps1`.

3. Edit the script: Open the script file in a text editor and add the following code:

```powershell
$DriveLetter = "Z"
$NetworkPath = "\\server\share"

# Check if the drive is already mapped
$existingMapping = Get-WmiObject -Class Win32_MappedLogicalDisk | Where-Object {$_.DeviceID -eq $DriveLetter}

if ($existingMapping) {
    Write-Output "Drive $DriveLetter is already mapped."
}
else {
    # Create the network drive mapping
    $network = New-Object -ComObject WScript.Network
    $network.MapNetworkDrive($DriveLetter, $NetworkPath)

    Write-Output "Drive $DriveLetter mapped to $NetworkPath."
}
```

4. Save the script file.

5. Set execution policy: Open PowerShell ISE as an administrator and set the execution policy to allow script execution. Run the following command:

```powershell
Set-ExecutionPolicy RemoteSigned
```

Choose "Y" when prompted to confirm the change.

6. Configure logon script execution: To ensure the script runs for all users during logon, you can use Group Policy to configure it.

  - Open the Group Policy Management Console (GPMC).
  - Create a new Group Policy Object (GPO) or select an existing one.
  - Navigate to "User Configuration" > "Policies" > "Windows Settings" > "Scripts (Logon/Logoff)".
  - Double-click on "Logon" to edit the logon scripts.
  - Click "Add" and browse to select the PowerShell script (`networkdrive.ps1`).
  - Click "OK" to close the dialog.
  - Link the GPO to the appropriate Organizational Unit (OU) or domain.

7. Test the shared network drive mapping: Log on as a user in the targeted OU or domain, and the shared network drive should be automatically created.

The PowerShell script will check if the drive is already mapped before creating it, ensuring that the mapping is only performed once per user.