

# Microsoft

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# Windows - Update additional resources

Try resetting the Windows Update Agent by running these commands from an elevated command prompt:

```
net stop wuauserv  
rd /s /q %systemroot%\SoftwareDistribution  
net start wuauserv
```

## Reset Windows Update components manually

1. Open a Windows command prompt. To open a command prompt, select **Start > Run**. Copy and paste (or type) *cmd* and then press Enter.
2. Stop the BITS service, the Windows Update service and the Cryptographic service. Type the following commands at a command prompt. Press Enter after you type each command.

ConsoleCopy

```
net stop bits  
net stop wuauserv  
net stop cryptsvc
```

3. Delete the *qmgr\*.dat* files. Type the following command at a command prompt, and then press Enter:

ConsoleCopy

```
Del "%ALLUSERSPROFILE%\Application Data\Microsoft\Network\Downloader\qmgr*.dat"
```

4. If it is your first attempt at resolving your Windows Update issues by using the steps in this article, go to step 5 without carrying out the steps in step 4. The steps in step 4 should only be performed at this point in the troubleshooting if you can't resolve your Windows Update issues after following all steps but step 4. The steps in step 4 are also performed by the "Aggressive" mode of the Fix it Solution above.

1. Rename the following folders to \*.BAK :

- %Systemroot%\SoftwareDistribution\DataStore
- %Systemroot%\SoftwareDistribution\Download
- %Systemroot%\System32\catroot2

To do this, type the following commands at a command prompt. Press Enter after you type each command.

ConsoleCopy

```
Ren %Systemroot%\SoftwareDistribution\DataStore DataStore.bak
Ren %Systemroot%\SoftwareDistribution\Download Download.bak
Ren %Systemroot%\System32\catroot2 catroot2.bak
```

Important

The reset step below using `sc.exe` will overwrite your existing security ACLs on the BITS and Windows Update service and set them to default. Skip this step unless the other steps to reset Windows Update components have not resolved the issue.

2. Reset the BITS service and the Windows Update service to the default security descriptor. To do this, type the following commands at a command prompt. Press Enter after you type each command.

ConsoleCopy

```
sc.exe sdset bits
D:(A;CI;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;SY)(A;;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;B
A)(A;;CCLCSWLOCRRRC;;;IU)(A;;CCLCSWLOCRRRC;;;SU)
sc.exe sdset wuauserv
D:(A;;CCLCSWRPLORC;;;AU)(A;;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;BA)(A;;CCDCLCSWRPWP
DTLOCRSDRCWDWO;;;SY)
```

5. Type the following command at a command prompt, and then press Enter:

ConsoleCopy

```
cd /d %windir%\system32
```

6. Reregister the BITS files and the Windows Update files. To do this, type the following commands at a command prompt. Press Enter after you type each command.

ConsoleCopy

```
regsvr32.exe atl.dll
regsvr32.exe urlmon.dll
regsvr32.exe mshtml.dll
regsvr32.exe shdocvw.dll
regsvr32.exe browseui.dll
regsvr32.exe jscript.dll
regsvr32.exe vbscript.dll
regsvr32.exe scrrun.dll
```

```
regsvr32.exe msxml.dll
regsvr32.exe msxml3.dll
regsvr32.exe msxml6.dll
regsvr32.exe actxprxy.dll
regsvr32.exe softpub.dll
regsvr32.exe wintrust.dll
regsvr32.exe dssenh.dll
regsvr32.exe rsaenh.dll
regsvr32.exe gpkcsp.dll
regsvr32.exe sccbase.dll
regsvr32.exe slbcsp.dll
regsvr32.exe cryptdlg.dll
regsvr32.exe oleaut32.dll
regsvr32.exe ole32.dll
regsvr32.exe shell32.dll
regsvr32.exe initpki.dll
regsvr32.exe wuapi.dll
regsvr32.exe wuaueng.dll
regsvr32.exe wuaueng1.dll
regsvr32.exe wucltui.dll
regsvr32.exe wups.dll
regsvr32.exe wups2.dll
regsvr32.exe wuweb.dll
regsvr32.exe qmgr.dll
regsvr32.exe qmgrprxy.dll
regsvr32.exe wucltux.dll
regsvr32.exe muweb.dll
regsvr32.exe wuwebv.dll
```

7. Reset Winsock. Type the following command at a command prompt, and then press Enter:  
ConsoleCopy

```
netsh winsock reset
```

8. If you're running Windows XP or Windows Server 2003, you have to set the proxy settings. Type the following command at a command prompt, and then press Enter:  
ConsoleCopy

```
proxycfg.exe -d
```

9. Restart the BITS service, the Windows Update service and the Cryptographic service. Type the following commands at a command prompt. Press Enter after you type each

command.

ConsoleCopy

```
net start bits  
net start wuauserv  
net start cryptsvc
```

10. If you're running Windows Vista or Windows Server 2008, clear the BITS queue. Type the following command at a command prompt, and then press Enter:

ConsoleCopy

```
bitsadmin.exe /reset /allusers
```

# Windows - How to delete the Recovery Partition

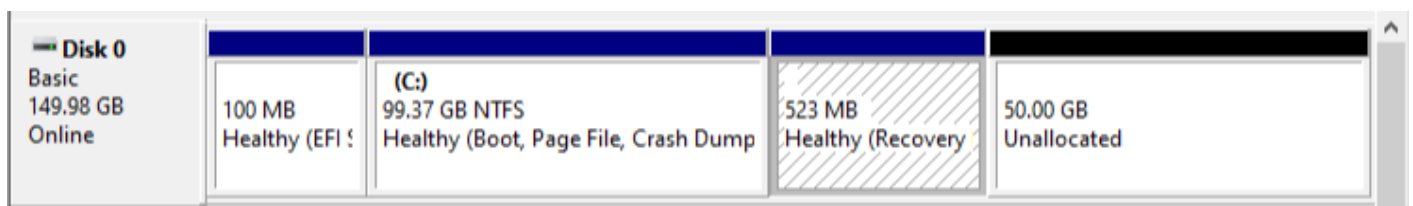
Unfortunately when there is no room on the disk to convert the drive from basic to dynamic.

Microsoft documents the problem, and notes the solution is to delete the last partition on the disk:

“ [Not Enough Space Available to Upgrade to a Dynamic Disk](#)

## RESOLUTION

Start Disk Manager, right-click the last partition, and then click Delete Partition.



It's important to note that, the recovery partition was created when Windows Retail or OEM was cleanly installed.

## Microsoft says you can use the **Create Recovery Drive** to delete a recovery partition

From [Create a USB recovery drive](#), which is used to create a USB recovery drive, there is supposed to be an option at the end of the wizard to delete the recovery partition on the hard drive:

“ When the process is done, do one of the following:

If you want to keep the recovery partition on your PC, tap or click **Finish**.

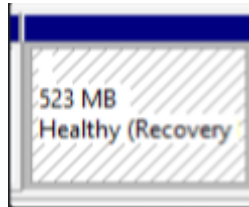
If you want to remove the recovery partition from your PC and free up disk space, tap or click **Delete the recovery partition**. Then tap or click **Delete**. This will free up the disk space used to store your recovery image. When the removal is done, tap or click **Finish**.

#### Note

Some PCs don't offer the option to remove a recovery partition. If you experience this, there isn't a recovery partition on your PC that's using additional disc space.

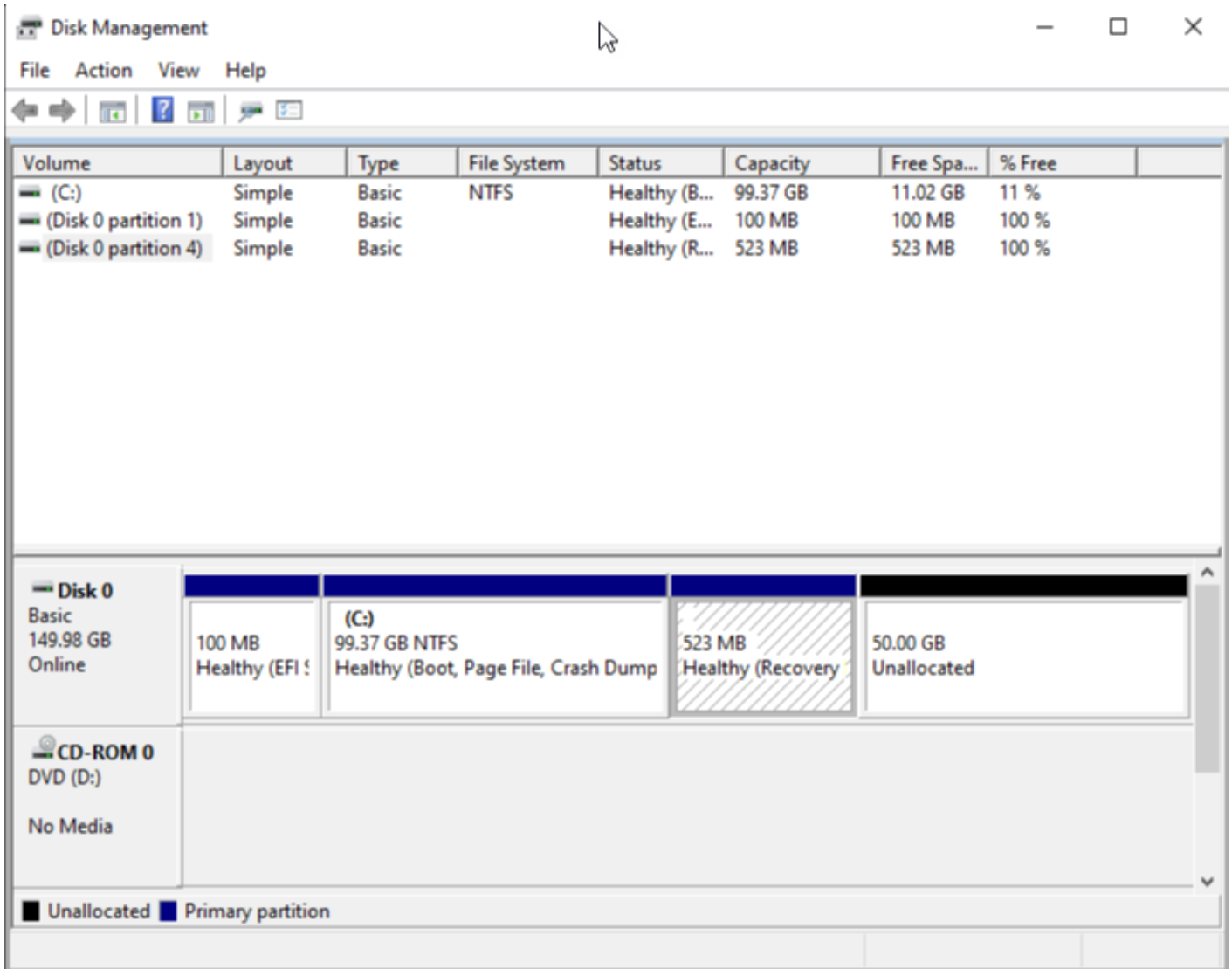
When you complete the wizard, there isn't offered the option to remove a recovery partition:

Which apparently means that my machine doesn't have a **Recovery Partition**, yet i refer you to



## Disk Management Tool





As you can see the partition number is 4 in this case, which is the one we want to remove to be able to expand the drive.

## DiskPart

Using DiskPart from an elevated command prompt

```
>diskpart
DISKPART> select disk 0
DISKPART> list partition
DISKPART> select partition 4
DISKPART> delete partition override
DiskPart successfully deleted the selected partition.
```

# Windows - Set Logon Server

## How To change Logon server Name through Command Line:

```
echo %logonserver%  
set logonserver=\\server1
```

```
set logonserver
```

```
open Command Prompt
```

```
*****
```

```
Microsoft Windows [Version 10.0.14393]  
(c) 2016 Microsoft Corporation. All rights reserved.
```

```
C:\Users\user>echo %logonserver%  
\\ServerName1
```

```
C:\Users\user>set logonserver  
LOGONSERVER=\\ServerName1
```

```
C:\Users\user>set logonserver=\\ServerName2
```

```
C:\Users\user>set logonserver  
LOGONSERVER=\\ServerName2
```

```
C:\Users\user> echo %logonserver%  
\\ServerName2
```

It is likely that DC2 is running your PDC Emulator role, which is why those messages are appearing on DC1.

Basically, what's happened is that the domain has reached a time period where it is no longer feasible to reconcile/merge all the USN (Update Sequence Numbers - i.e. they denote the versioning/changes on all of your AD objects) with the other DC, because it has been unavailable for replication for so long.

Here's the first few steps on TechNet:

[Technet: Forcing the Removal of a Domain Controller](#)

To complete this task, perform the following procedures:

1. [Identify Replication Partners](#). Use this procedure to identify a domain controller that is a replication partner of the domain controller that you are removing. Identify a replication partner in the same site, if possible. You will connect to this domain controller when you clean up server metadata.
2. [Force Domain Controller Removal](#)
3. [Clean Up Server Metadata](#)

Then, you'll need to seize FSMO roles:

#### [Petri: Seizing FSMO Roles](#)

After that, you can try to re-promote that DC.

Ensure that on DC1:

- Primary DNS IP on NIC is pointing to DC2
- Secondary DNS IP on NIC is pointing to 127.0.0.1

Ensure that on DC2:

- Primary DNS IP on NIC is pointing to DC1
- Secondary DNS IP on NIC is pointing to 127.0.0.1

Any new objects (computer/user accounts) that appear on DC1 and not DC2 will need to be recreated once you've got your replication back in order (or you could recreate them on DC2...either way, they'll need to be recreated). Honestly, I would export a list of user and computer objects from your DC1 that were created after the date of last replication and then go from there. There are various scripts out there that can do this.

# Windows - How To Fix DFS Replication Event 4012 on Domain Controller

## 1. Verifying Server Promotion Status

The first crucial step in resolving DFS replication Event ID 4012 is to verify the server's promotion status. Any discrepancies in the promotion process can lead to issues with DFSR. Administrators can use tools like Active Directory Users and Computers (ADUC) or PowerShell commands to ensure that the server has been successfully promoted to a domain controller.

## 2. Adjusting MaxOfflineTimeInDays

An easy fix for Event ID 4012 involves adjusting the **MaxOfflineTimeInDays** parameter. This parameter determines the maximum duration a server can remain offline before triggering the error. If the server was offline for an extended period, increasing this threshold can resolve the issue.

### Using WMIC Commands for MaxOfflineTimeInDays

To check the current MaxOfflineTimeInDays value, administrators can use the following command:

```
wmic.exe /namespace:\\root\microsoftdfs path dfsrMachineConfig get MaxOfflineTimeInDays
```

To increase the MaxOfflineTimeInDays value, use the following command, setting it to a value higher than the time the server was offline:

```
wmic.exe /namespace:\\root\microsoftdfs path dfsrMachineConfig set MaxOfflineTimeInDays=100
```

These commands provide a quick and efficient way to address the time constraint set by MaxOfflineTimeInDays, ensuring that the DFS Replication service can resume without encountering the 4012 error.

## 3. Initiating DFS Replication Partnerships

Starting DFS Replication Partnerships involves establishing connections to enable the synchronized replication of data between servers. One method to achieve this is by manually running DFS replication using the `repadmin /syncall /AeD` command or initiate it through the Active Directory Sites and Services console.

The [repadmin cmd](#) provides a direct and efficient way to trigger synchronization across all domain controllers, aiding in the resolution of replication interruptions and maintaining consistent data distribution.

## 4. Set MaxOfflineTimeInDays Back to Default 60 Days

Once the replication is complete set MaxOfflineTimeInDays value back to default 60 Days

```
wmic.exe /namespace:\\root\microsoftdfs path dfsrMachineConfig set MaxOfflineTimeInDays=60
```

# Windows - Delete user Graph

<https://www.alitajran.com/remove-on-premises-directory-synchronization-service-account/>

```
Install-Module Microsoft.Graph -Force -Confirm:$false
```

```
Install-Module Microsoft.Graph.Beta -AllowClobber -Force -Confirm:$false
```

```
Connect-MgGraph -Scopes "User.ReadWrite.All"
```

```
Remove-MgUser -UserId "Sync\_DC01-2019\_d5d79537b1b8@exoip365.onmicrosoft.com"
```

```
Get-MgUser -UserId "Sync\_DC01-2019\_d5d79537b1b8@exoip365.onmicrosoft.com"
```

# Windows - How To Fix DISM Source Files Could Not Be Found In Win10

<https://sflservicesllc.atlassian.net/wiki/pages/createpage.action?spaceKey=Wiki&title=Windows%20Update%20-%20additional%20resources>

<https://www.minitool.com/news/fix-dism-source-files-could-not-be-found-win10.html>

The DISM command “DISM / Online / Cleanup-Image / Restore Health” can be performed successfully in normal cases to repair your Windows System Image. However, some users said their DISM failed and they receive the DISM source files could not be found error message. What’s the problem with that? How to fix the issue yourself?

What is DISM?

DISM refers to DISM.exe, which is a command-line tool that can be used to service and prepare Windows images (.wim) or virtual hard disks (.vhd or .vhdx). DISM is built into all versions of Windows and you can access it from the command line or Windows PowerShell. See what you can do if [DISM /Online /Cleanup-image /Restorehealth is stuck](#).

## DISM Source Files Could Not be Found Error

“DISM /Online /Cleanup-Image /RestoreHealth” is one of the frequently used commands to repair a Windows image. You can perform this command in Command Prompt tool easily, but people don’t always succeed. The **DISM source files could not be found** error will show up when DISM failed. It means that the DISM tool on your PC cannot find the source files needed to restore the Windows image.

[How to fix “DISM failed. No operation was performed”?](#)

The [DISM restore health](#) process could be interrupted in Windows 10 or other Windows systems. But I'll take the failure of DISM Online Cleanup Image RestoreHealth Windows 10 as an example to show you how to fix the problem in different ways.

# Causes of “The Source Files Could Not Be Found”

The source files could not be found error message may come with an error code like 0x800f081f or 0x800f0906 or 0x800f0907. There are 4 main reasons for causing it:

- The DISM tool cannot find the files you need to repair online (in Windows Update or WSUS).
- The Windows image file (install.wim) specified as the repair source is not correct.
- The install.wim or install.esd file used as the repair source contains several install.wim files.
- The Windows.ISO file used as the repair source may be damaged or incorrect (it cannot match the version, edition, and architecture 32 or 64 bit of your installed Windows).

# Fix DISM Source Files Could Not Be Found Windows 10

What to do when encountering Windows 10 DISM source files could not be found? Please follow the fixes below.

## #1. Use Windows Repair Upgrade

**Step 1: download Windows Repair Upgrade tool.**

1. [Visit this Microsoft page](#).
2. Click on the **Download tool now** button to get Windows Media Creation tool.
3. Run the installer. Then, accept the license terms and conditions.
4. Click **Upgrade this PC now**.
5. Click **Next**.
6. Wait for the actions to end.

**Step 2: start the Windows repair process on your PC.**

1. Press **Windows + S**.



2. Type **cmd**.
3. Right click on **Command Prompt**.
4. Select **Run as administrator**.
5. Type **DISM /Online /Cleanup-Image /StartComponentCleanup** and press **Enter**.
6. Type **DISM /Online /Cleanup-Image /RestoreHealth** and press **Enter**.
7. Type **sfc /scannow** and press **Enter**.

<https://www.minitool.com/data-recovery/recover-files-using-cmd-001.html>

## #2. Clean & Analyze the WinSXS Folder

1. Also, you need to run Command Prompt as administrator.
2. Type **DISM /Online /Cleanup-Image /StartComponentCleanup** and press **Enter**.
3. Type **sfc /scannow** and press **Enter**.
4. Type **DISM /Online /Cleanup-Image /AnalyzeComponentStore** and press **Enter**.
5. Type **sfc /scannow** and press **Enter**.
6. Restart your computer.

## #3. Use an Alternative Repair Source in DISM

### Step 1: check the Index number on your Windows 10.

1. Connect the USB drive that contains the Windows installation media (or mount the ISO file) to your computer.
2. Press **Windows + E** to open File Explorer. Then, go to your USB drive.
3. Double click on the **Sources** folder to check whether it contains an **install.wim** or **install.esd** file.
4. Run Command Prompt as administrator.
5. Type **dism /Get-WimInfo /WimFile\*:sources/install.wim** or **dism /Get-WimInfo /WimFile\*:sources/install.esd** (\* represents the drive letter). Then, press **Enter**.

### Step 2: repair Windows 10. Please replace \* with the drive letter of your USB drive and type the correct Index Number.

- If the Sources folder contain an install.wim: type **DISM /Online /Cleanup-Image /RestoreHealth /Source:WIM\*:sources\install.wim:IndexNumber /LimitAccess** and press **Enter**.
- If the Sources folder contain an install.esd: type **DISM /Online /Cleanup-Image /RestoreHealth /Source:ESD\*:sources\install.esd:IndexNumber /LimitAccess** and press **Enter**.

**Step 3: wait for the operation to complete.**

In addition, you can try to specify an alternative repair source by using Registry Editor or Local Group Policy Editor when system tells you the DISM source files could not be found.

<https://www.partitionwizard.com/partitionmagic/dism-error-2.html>

# Windows - Windows Logon Service

The logon process for how a system connects to a DC is pretty straightforward (read: Simple, but not easy)

1. Workstation comes online and queries DNS SRV records to find all DCs
2. Workstation attempts LDAP connection to ALL DCs found.
3. Workstation queries DNS for site information.
4. Workstation compares site information received with its own network ID.
5. Workstation attempts LDAP connection to all DCs in its site
6. If no DCs in its site respond, Workstation attempts LDAP connection to all DCs in the domain
7. First DC to respond is where the Workstation attempts to authenticate.

If this is giving odd results - workstations routinely log onto DCs not in their site - check out where the DCs reside in Sites and Services and correct as needed.

It's also possible the Workstation is on a subnet that isn't defined to Sites & Services and this also would need to be corrected.

Check

I would recommend to ensure the below IP settings on each domain controller:

1. Each DC / DNS server points to its private IP address as primary DNS server and other internal DNS servers as secondary ones
2. Each DC has just one IP address and one network adapter is enabled (disable unused NICs).
3. If multiple NICs (enabled and disabled) are present on server, make sure the active NIC is on top in NIC binding.
4. Contact your ISP and get valid DNS IPs from them and add it in to the forwarders, Do not set public DNS server in TCP/IP setting of DC.

# How To Fix DFS Replication Event 4012 on Domain Controller

## 1. Verifying Server Promotion Status

The first crucial step in resolving DFS replication Event ID 4012 is to verify the server's promotion status. Any discrepancies in the promotion process can lead to issues with DFSR. Administrators can use tools like Active Directory Users and Computers (ADUC) or PowerShell commands to ensure that the server has been successfully promoted to a domain controller.

## 2. Adjusting MaxOfflineTimeInDays

An easy fix for Event ID 4012 involves adjusting the **MaxOfflineTimeInDays** parameter. This parameter determines the maximum duration a server can remain offline before triggering the error. If the server was offline for an extended period, increasing this threshold can resolve the issue.

### Using WMIC Commands for MaxOfflineTimeInDays

To check the current MaxOfflineTimeInDays value, administrators can use the following command:

```
wmic.exe /namespace:\\root\microsoftdfs path dfsrMachineConfig get MaxOfflineTimeInDays
```

To increase the MaxOfflineTimeInDays value, use the following command, setting it to a value higher than the time the server was offline:

```
wmic.exe /namespace:\\root\microsoftdfs path dfsrMachineConfig set MaxOfflineTimeInDays=400
```

These commands provide a quick and efficient way to address the time constraint set by MaxOfflineTimeInDays, ensuring that the DFS Replication service can resume without encountering the 4012 error.

## 3. Initiating DFS Replication Partnerships

Starting DFS Replication Partnerships involves establishing connections to enable the synchronized replication of data between servers. One method to achieve this is by manually running DFS replication using the `repadmin /syncall /AeD` command or initiate it through the Active Directory Sites and Services console.

The [readmin cmd](#) provides a direct and efficient way to trigger synchronization across all domain controllers, aiding in the resolution of replication interruptions and maintaining consistent data distribution.

## 4. Set MaxOfflineTimeInDays Back to Default 60 Days

Once the replication is complete set MaxOfflineTimeInDays value back to default 60 Days

```
wmic.exe /namespace:\\root\\microsofdfs path dfsrMachineConfig set MaxOfflineTimeInDays=60
```

# Windows - Online Repair

## Crashing Error

SFC /SCANNOW

DISM /Online /Cleanup-Image /ScanHealth

DISM /Online /Cleanup-Image /CheckHealth

DISM /Online /Cleanup-image /RestoreHealth

# Windows - How to Switch Domain Controller

## Find Current Domain Controller

You can grab the domain controller that the computer is currently connected to with these steps:

1. Select the “**Start**” button.
2. Type “**CMD**”.
3. Hold “**Shift**” and right-click “**Command Prompt**”.
4. Select “**Run as different user**”.
5. Type credentials for a Domain Admin user account.
6. At the Command Prompt, type:
  - `nltest /dsgetdc:domainname`

## Switch Domain Controller Command

Actually switch the domain controller computer is using with these steps.

1. Select the “**Start**” button.
2. Type “**CMD**”.
3. Hold “**Shift**” and right-click “**Command Prompt**”.
4. Select “**Run as different user**”.
5. Type credentials for a Domain Admin user account.
6. At the command prompt, type:
  - `nltest /Server:ClientComputerName /SC_RESET:DomainName\DomainControllerName`

Note: This option is not permanent, as a restart of the computer may grab a different DC.

## Set Domain Controller Via Registry

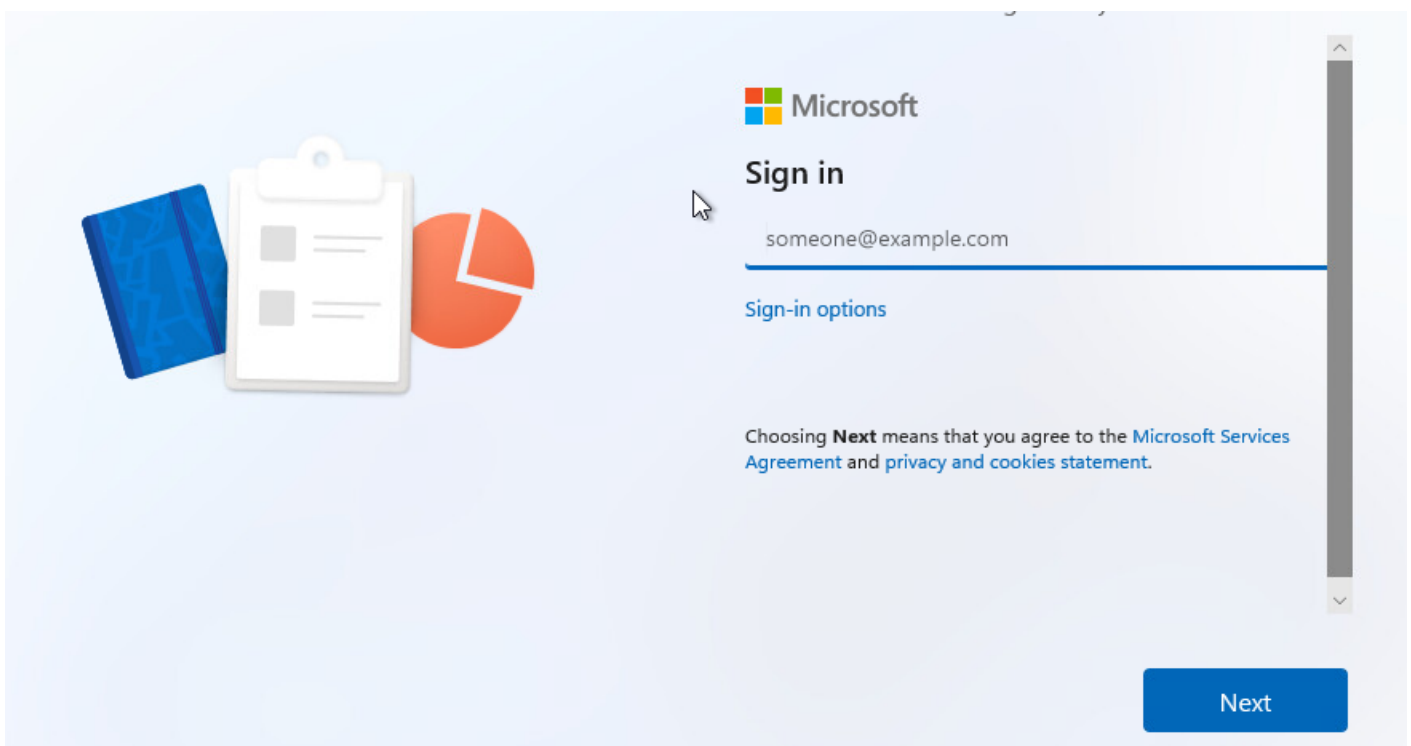
1. Hold the **Windows Key** and press “**R**” to bring up the Windows Run dialog.
2. Type “**Regedit**”, then press “**Enter**”.

3. Navigate to:
  - **HKEY\_LOCAL\_MACHINE**
  - **SYSTEM**
  - **CurrentControlSet**
  - **Services**
  - **Netlogon**
  - **Parameters**
4. Create a String value called "**SiteName**", and set it to the domain controller you wish the computer to connect to. (i.e. [DC1.domain.com](http://DC1.domain.com))

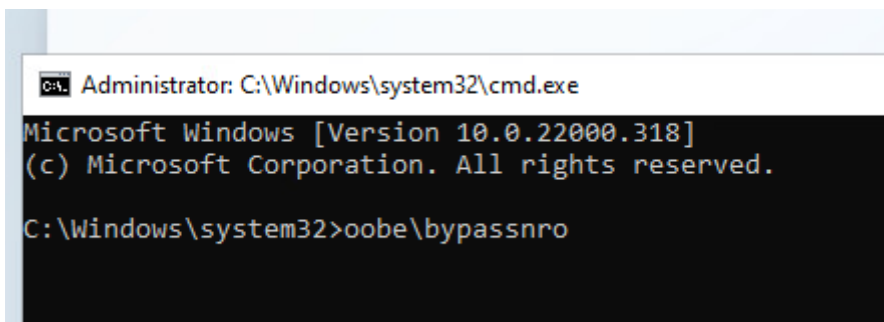


# Windows 11 - Bypass Microsoft Account Requirement

Once on the following screen make sure you disconnect from the internet or have no internet connection and hit the "**Shift-F10**" keys to open a command prompt.

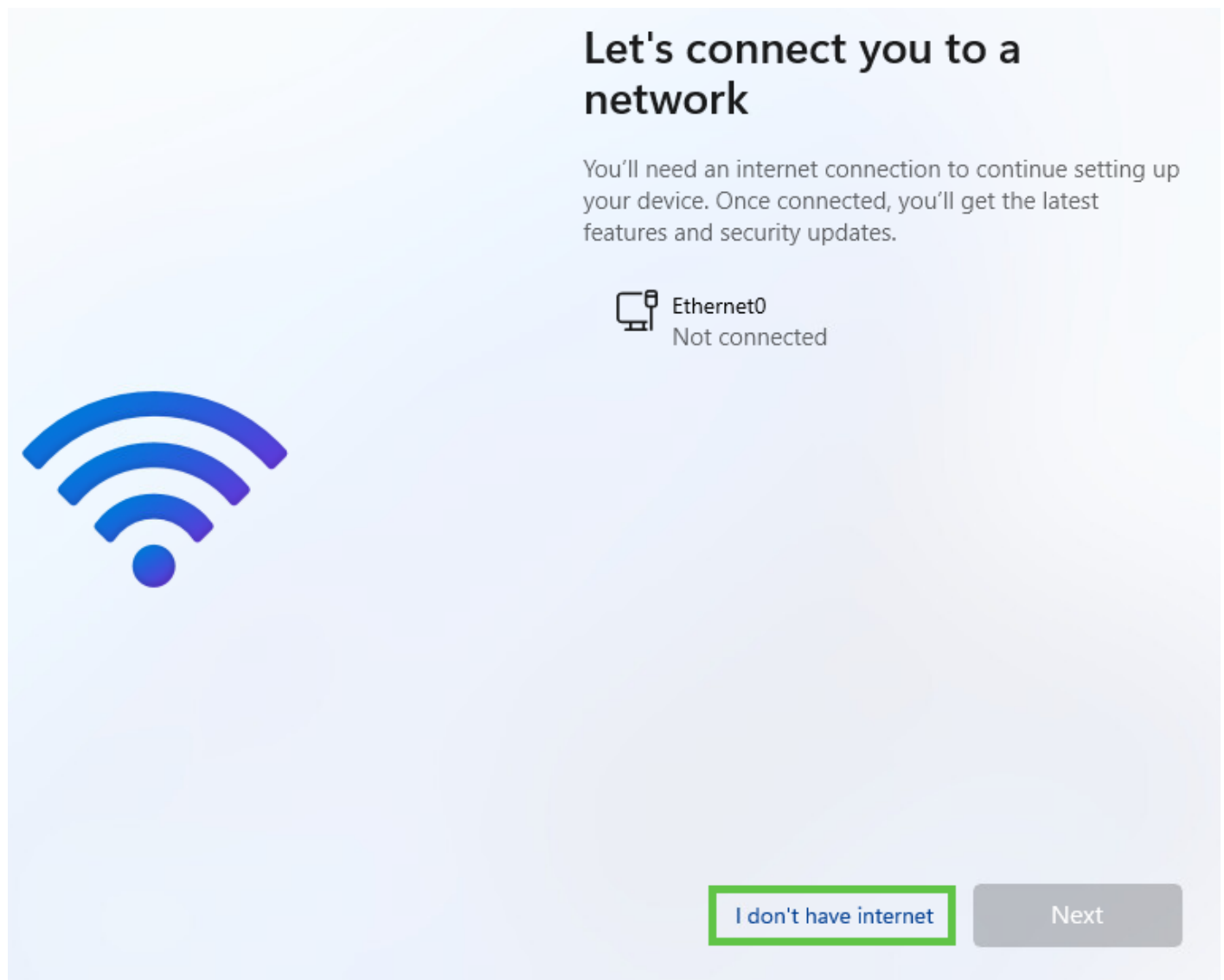


Type this in the command prompt window "**oobe\bypassnro**"



The computer will reboot

Once you get to this screen click on the option "[I don't have internet](#)"



Once on the next screen click on the option "[Continue with limited setup](#)"

## Connect now to quickly get started on your device

Access the full range of apps that help you work and play the way you want when you connect to a network and sign in with Microsoft. Along with being able to browse the internet, get email, and work across devices, you'll also get enhanced features and security.



Continue with limited  
setup

Connect now

Once on the next screen add the a name to create a local account

# Who's going to use this device?

You'll use this name to sign in to your device.

Enter your name

localadmin|



Next

On the next screen enter a password to use

# Create a super memorable password

Make sure to pick something you'll absolutely remember.

Enter a password

Next