

ĐẠI HỌC QUỐC GIA TP HỒ CHÍ MINH
TRƯỜNG ĐẠI HỌC CÔNG NGHỆ THÔNG TIN

QUẢN TRỊ MẠNG

LAB 5 – WINDOWS SERVER BACKUP

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NỘI DUNG

Cài đặt Windows Server Backup

Cấu hình backup dữ liệu (data)

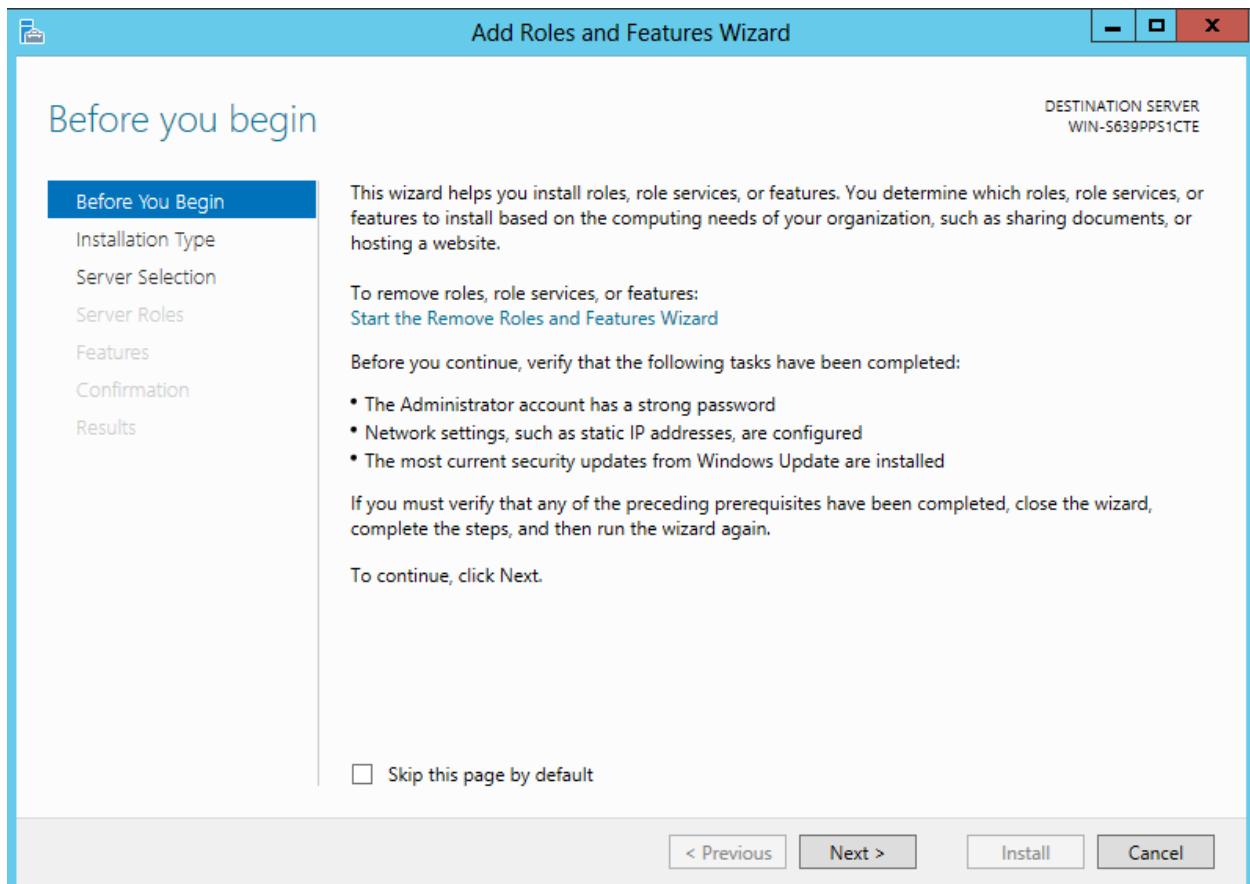
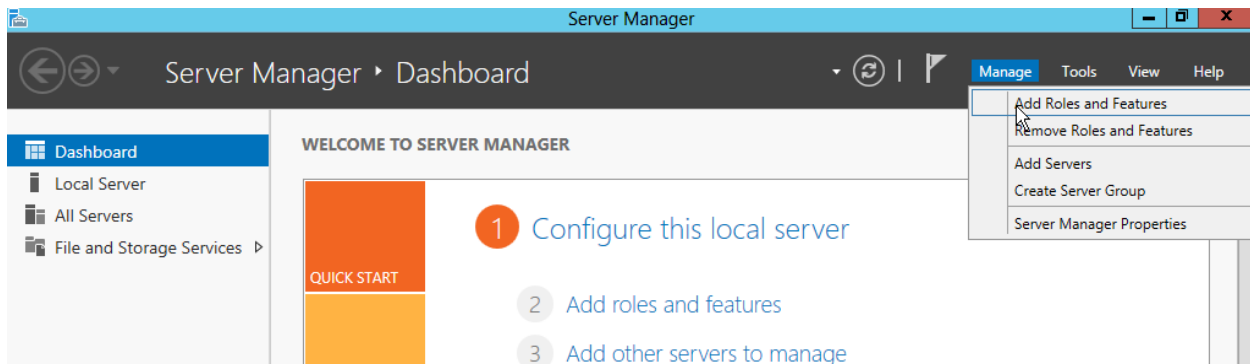
Khôi phục dữ liệu (data)

Cấu hình lập lịch backup dữ liệu (data, policy và system state)

Khôi phục dữ liệu (data, policy và system state)

I. CÀI ĐẶT WINDOWS SERVER BACKUP

Mặc định, Windows Server 2012 không cài dịch vụ này. Vì vậy chúng ta cần phải cài dịch vụ này sau đó mới cấu hình được. Các bước cài đặt như sau:



The screenshot shows the 'Add Roles and Features Wizard' window. The title bar is blue with the text 'Add Roles and Features Wizard'. The main area is white. On the left, there is a vertical navigation pane with the following items: 'Before You Begin', 'Installation Type' (highlighted in blue), 'Server Selection', 'Server Roles', 'Features', 'Confirmation', and 'Results'. The main content area has the heading 'Select installation type' in blue. Below the heading, there is a paragraph: 'Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD)'. There are two radio button options: 'Role-based or feature-based installation' (selected) and 'Remote Desktop Services installation'. Below the first option is the text: 'Configure a single server by adding roles, role services, and features.' Below the second option is the text: 'Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.' At the bottom right, there is a small text: 'DESTINATION SERVER WIN-S639PPS1CTE'. At the bottom of the window, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

DESTINATION SERVER
WIN-S639PPS1CTE

Select installation type

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

☒ **Role-based or feature-based installation**
Configure a single server by adding roles, role services, and features.

☐ **Remote Desktop Services installation**
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

< Previous Next > Install Cancel

The screenshot shows the 'Add Roles and Features Wizard' window. The title bar is blue with the text 'Add Roles and Features Wizard'. The main area is white. On the left, there is a vertical navigation pane with the following items: 'Before You Begin', 'Installation Type', 'Server Selection' (highlighted in blue), 'Server Roles', 'Features', 'Confirmation', and 'Results'. The main content area has the heading 'Select destination server' in blue. Below the heading, there is a paragraph: 'Select a server or a virtual hard disk on which to install roles and features.' There are two radio button options: 'Select a server from the server pool' (selected) and 'Select a virtual hard disk'. Below the first option is the text: 'Server Pool'. Below the second option is the text: '1 Computer(s) found'. Below the text is a table with the following data:

Name	IP Address	Operating System
WIN-S639PPS1CTE	169.254.7.33	Microsoft Windows Server 2012 Standard

 Below the table is a paragraph: 'This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.' At the bottom right, there is a small text: 'DESTINATION SERVER WIN-S639PPS1CTE'. At the bottom of the window, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

DESTINATION SERVER
WIN-S639PPS1CTE

Select destination server

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

Select a server or a virtual hard disk on which to install roles and features.

☒ Select a server from the server pool
☐ Select a virtual hard disk

Server Pool

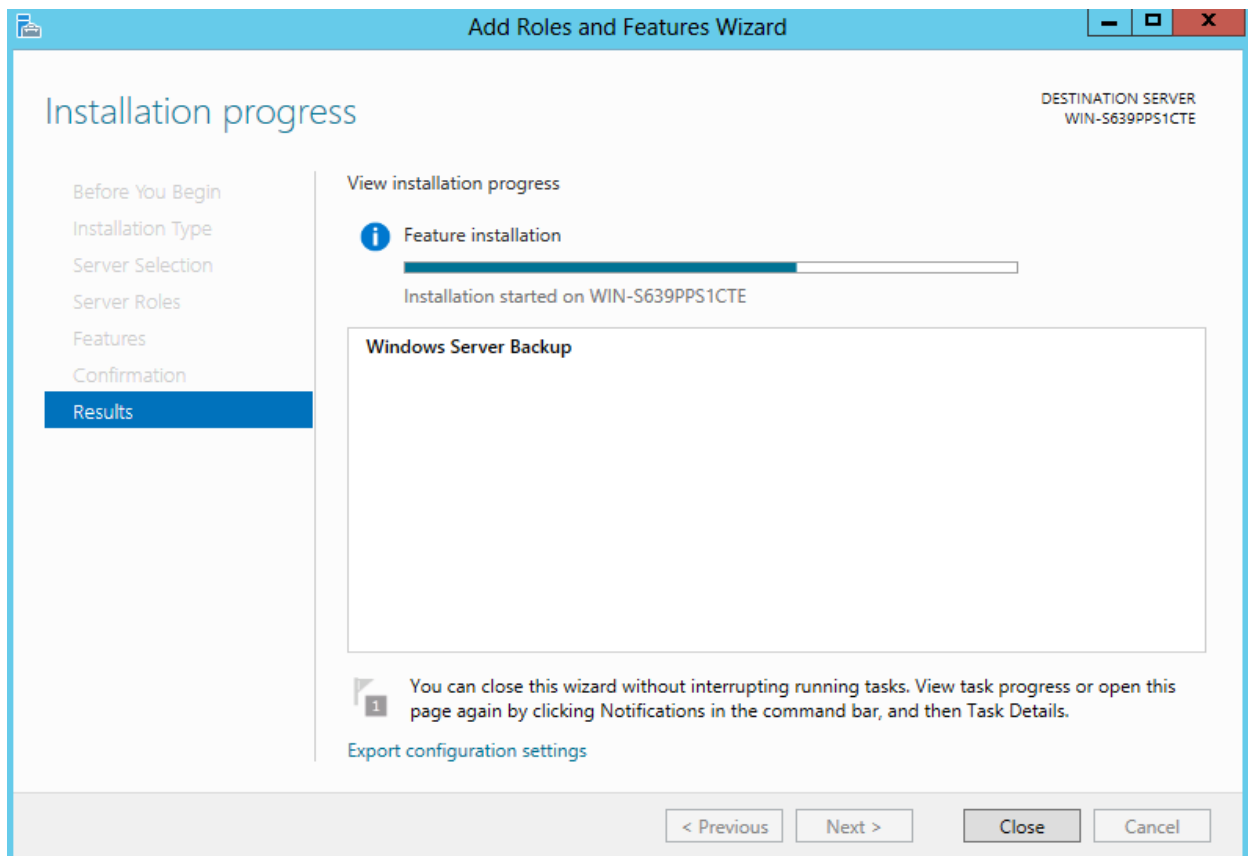
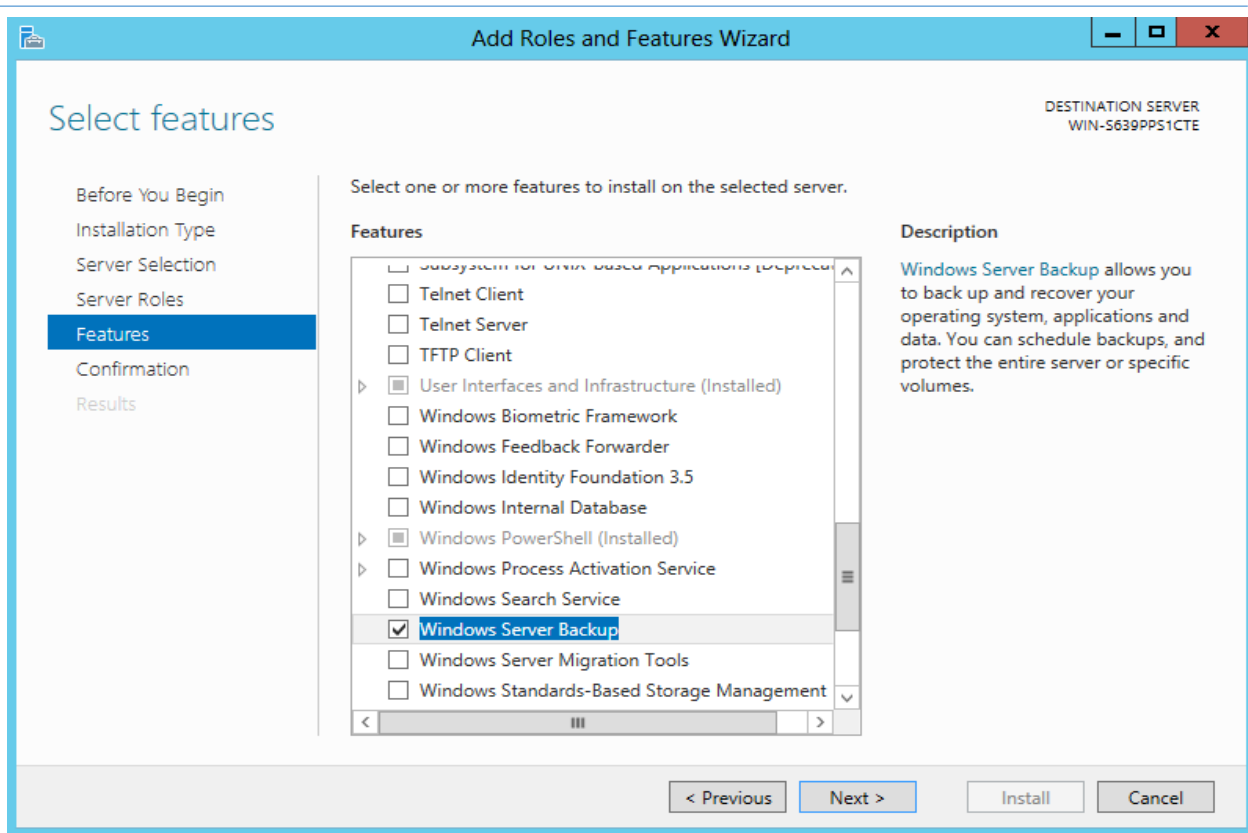
Filter:

Name	IP Address	Operating System
WIN-S639PPS1CTE	169.254.7.33	Microsoft Windows Server 2012 Standard

1 Computer(s) found

This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

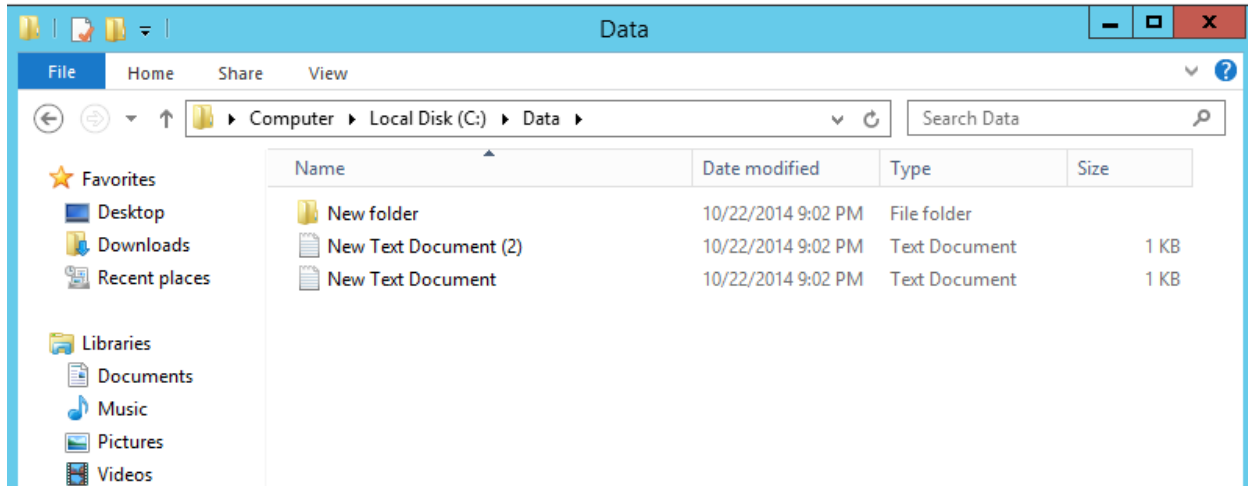
< Previous Next > Install Cancel



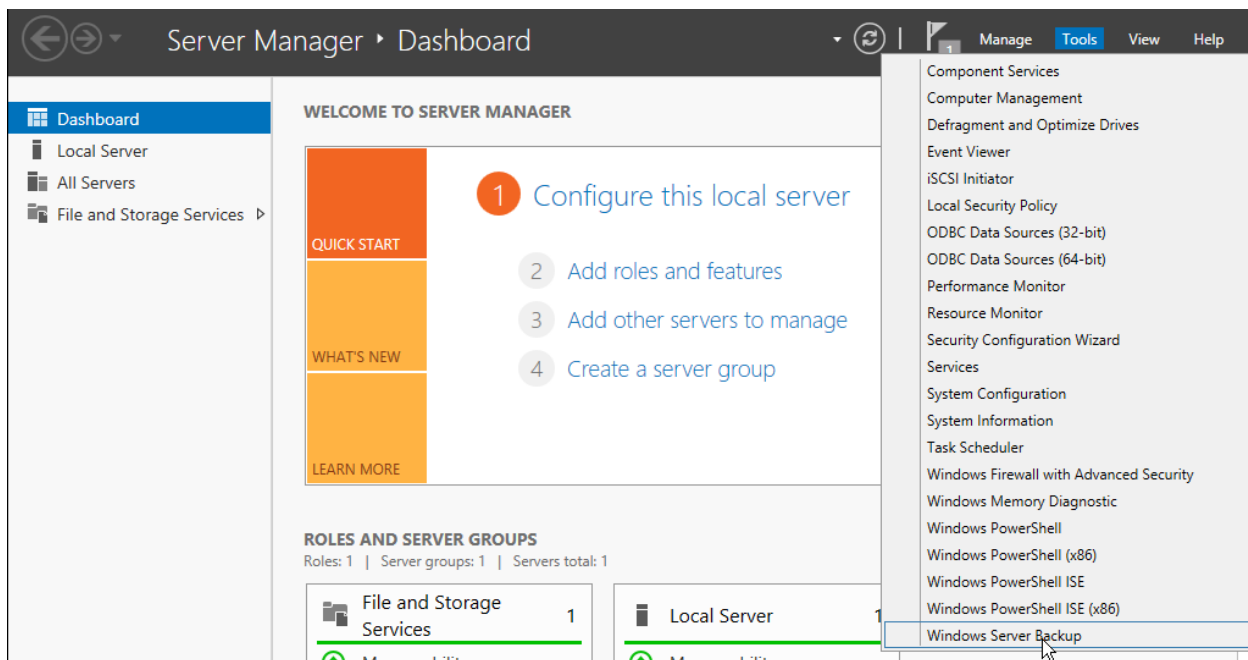
II. CẤU HÌNH BACKUP DỮ LIỆU

Để tạo dữ liệu backup. Chúng ta vào ổ C. Tạo thư mục Data, trong thư mục Data chúng ta tạo một vài tập tin và thư mục để làm dữ liệu test.

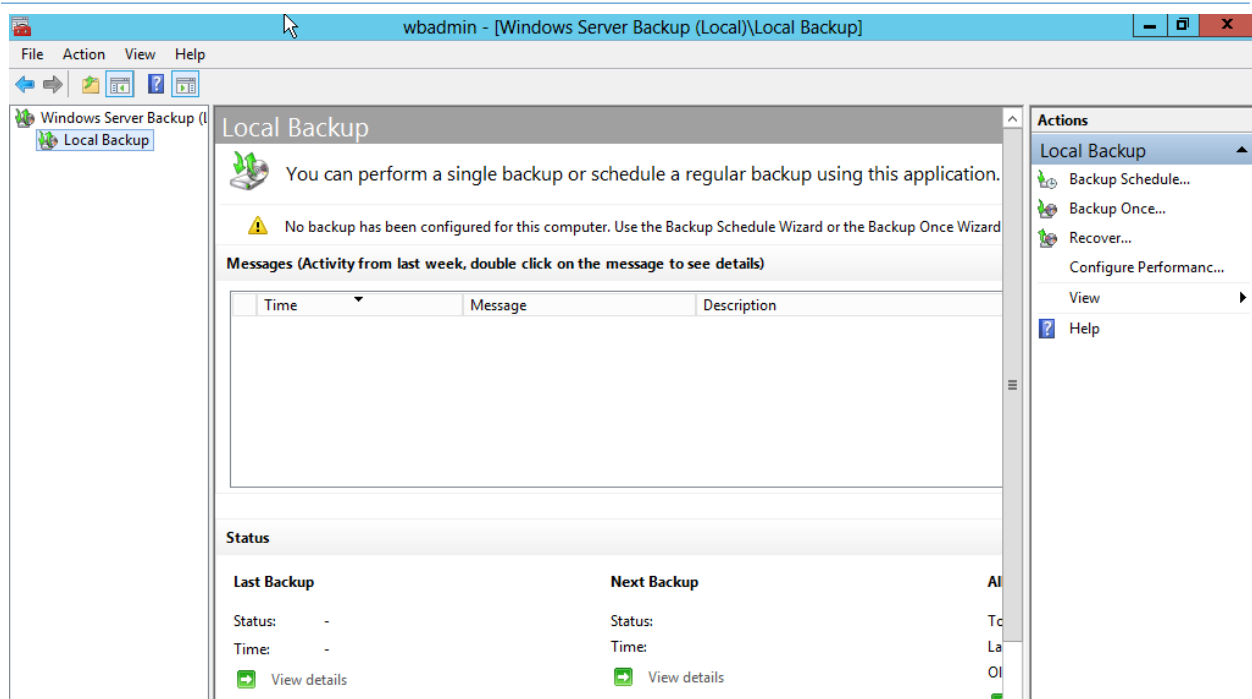
Lưu ý: dữ liệu sau khi backup bắt buộc phải được lưu trên 1 partition khác hoặc lưu đến một nơi khác ngoài server được backup. Vì vậy trên server backup dữ liệu cần ít nhất 2 partition.



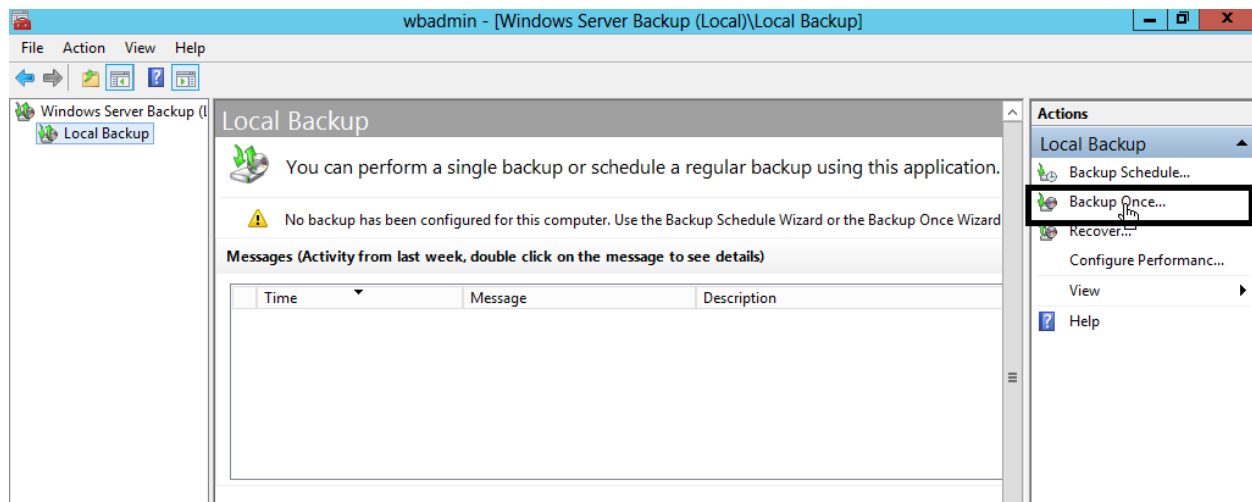
Bây giờ chúng ta tiến hành backup dữ liệu. Mở công cụ Windows Server Backup:

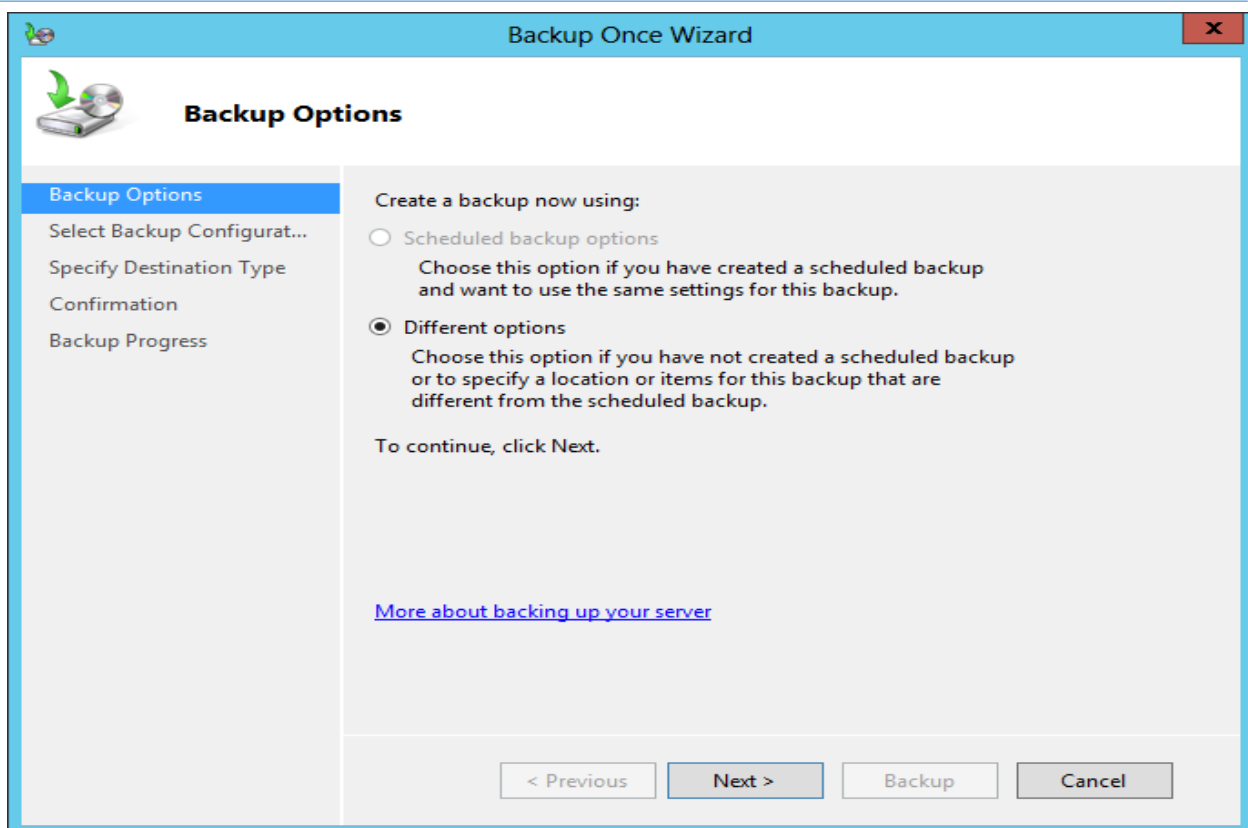


Giao diện Windows Backup



Tạo job để backup dữ liệu





The screenshot shows the 'Backup Once Wizard' window with the 'Backup Options' tab selected. The left sidebar contains a list of steps: 'Backup Options' (highlighted), 'Select Backup Configurat...', 'Specify Destination Type', 'Confirmation', and 'Backup Progress'. The main area is titled 'Backup Options' and features a green arrow icon pointing to a disk. The text 'Create a backup now using:' is followed by two radio button options: 'Scheduled backup options' (unselected) and 'Different options' (selected). The 'Different options' section includes a description: 'Choose this option if you have not created a scheduled backup or to specify a location or items for this backup that are different from the scheduled backup.' Below this, it says 'To continue, click Next.' and provides a link: '[More about backing up your server](#)'. At the bottom, there are four buttons: '< Previous', 'Next >', 'Backup', and 'Cancel'.

Backup Once Wizard

Backup Options

Backup Options
Select Backup Configurat...
Specify Destination Type
Confirmation
Backup Progress

Create a backup now using:

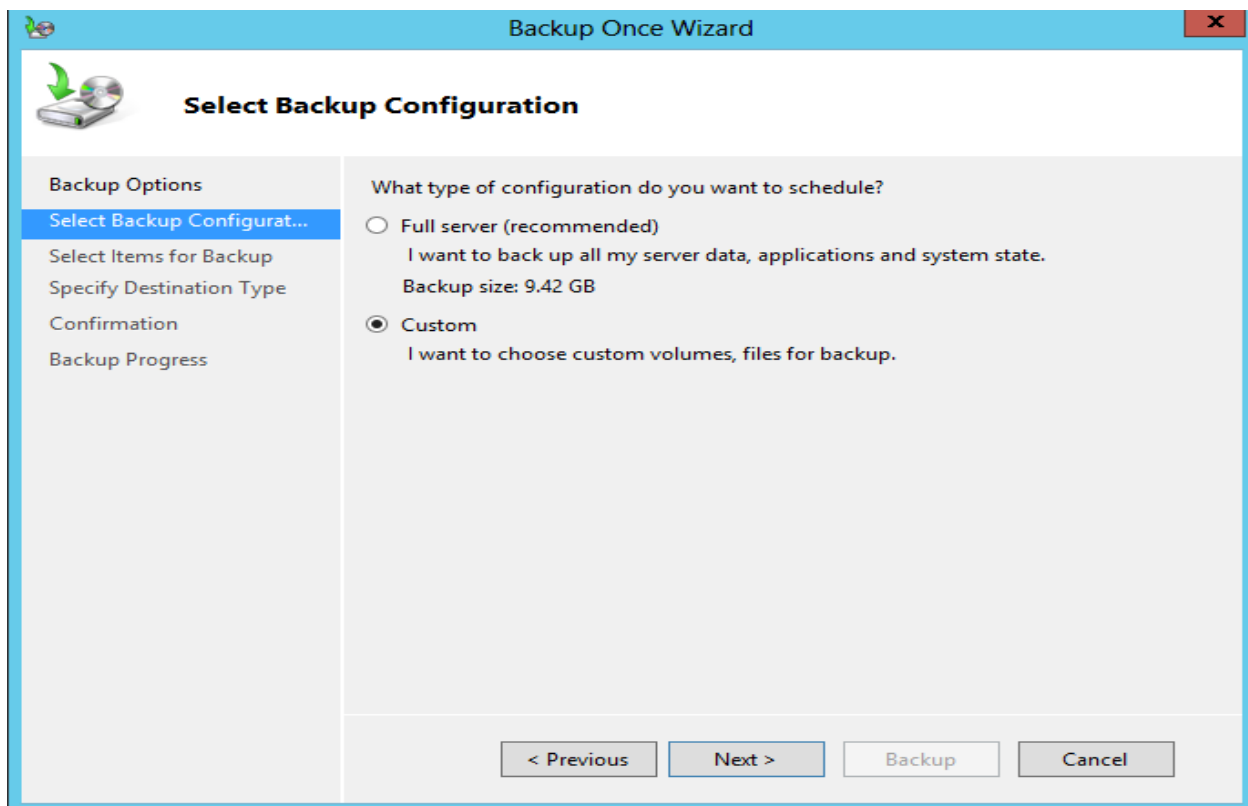
☐ Scheduled backup options
Choose this option if you have created a scheduled backup and want to use the same settings for this backup.

☒ Different options
Choose this option if you have not created a scheduled backup or to specify a location or items for this backup that are different from the scheduled backup.

To continue, click Next.

[More about backing up your server](#)

< Previous Next > Backup Cancel



The screenshot shows the 'Backup Once Wizard' window with the 'Select Backup Configuration' tab selected. The left sidebar contains a list of steps: 'Backup Options', 'Select Backup Configurat...' (highlighted), 'Select Items for Backup', 'Specify Destination Type', 'Confirmation', and 'Backup Progress'. The main area is titled 'Select Backup Configuration' and features a green arrow icon pointing to a disk. The text 'What type of configuration do you want to schedule?' is followed by two radio button options: 'Full server (recommended)' (unselected) and 'Custom' (selected). The 'Full server (recommended)' section includes a description: 'I want to back up all my server data, applications and system state. Backup size: 9.42 GB'. The 'Custom' section includes a description: 'I want to choose custom volumes, files for backup.' At the bottom, there are four buttons: '< Previous', 'Next >', 'Backup', and 'Cancel'.

Backup Once Wizard

Select Backup Configuration

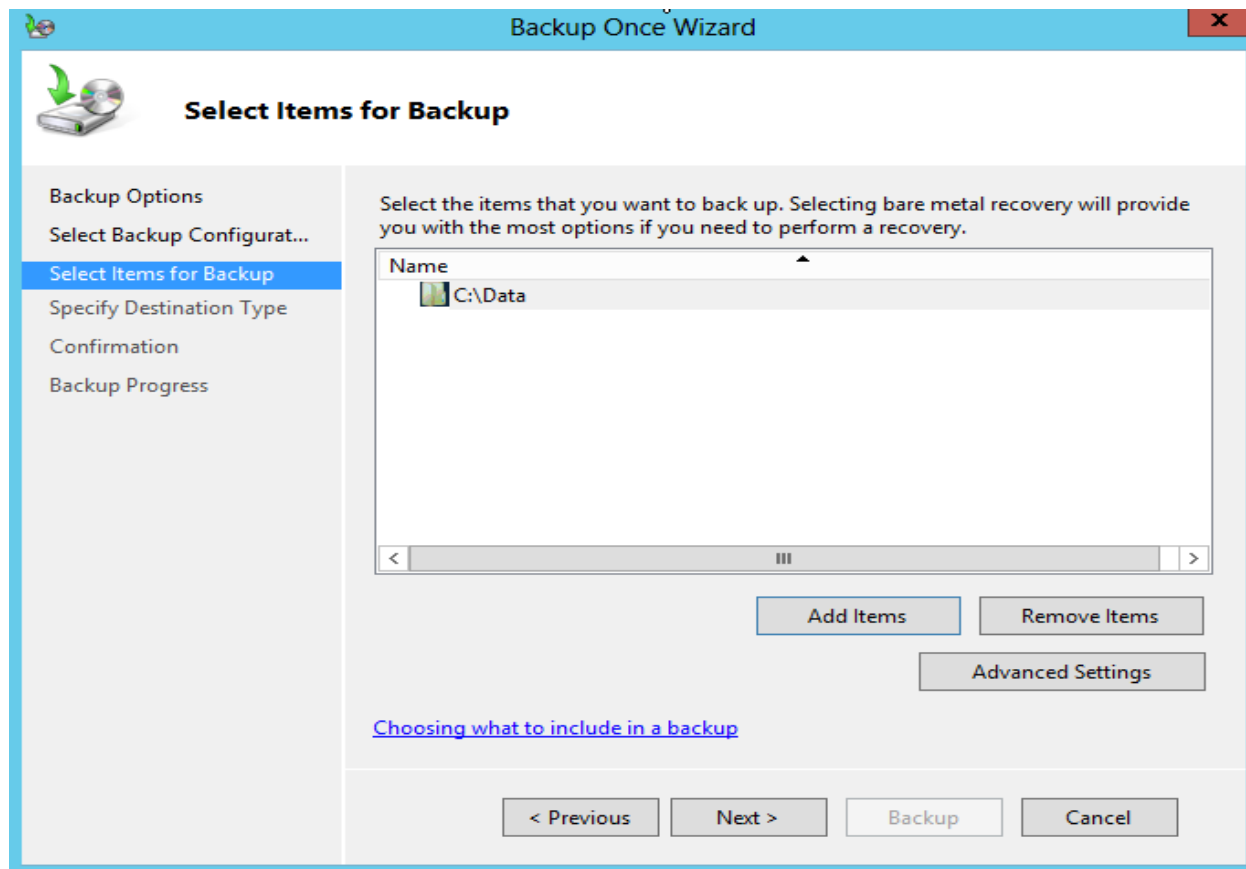
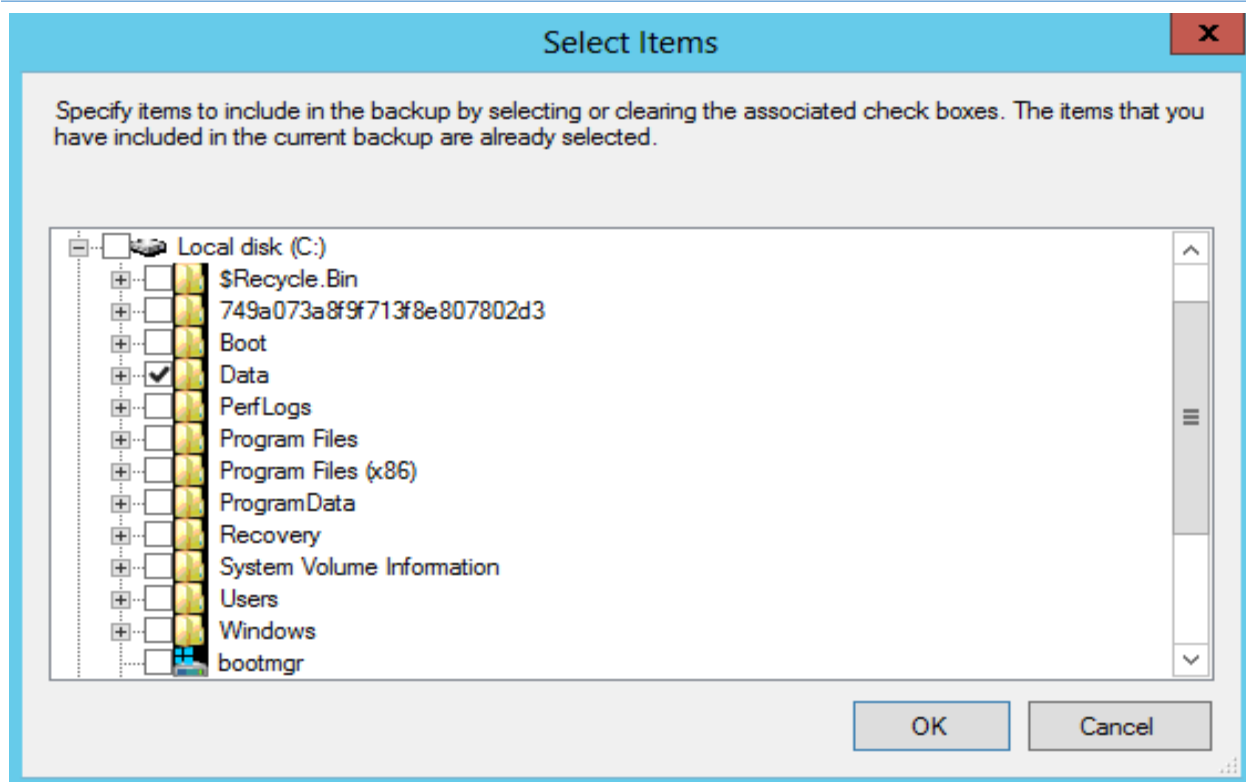
Backup Options
Select Backup Configurat...
Select Items for Backup
Specify Destination Type
Confirmation
Backup Progress

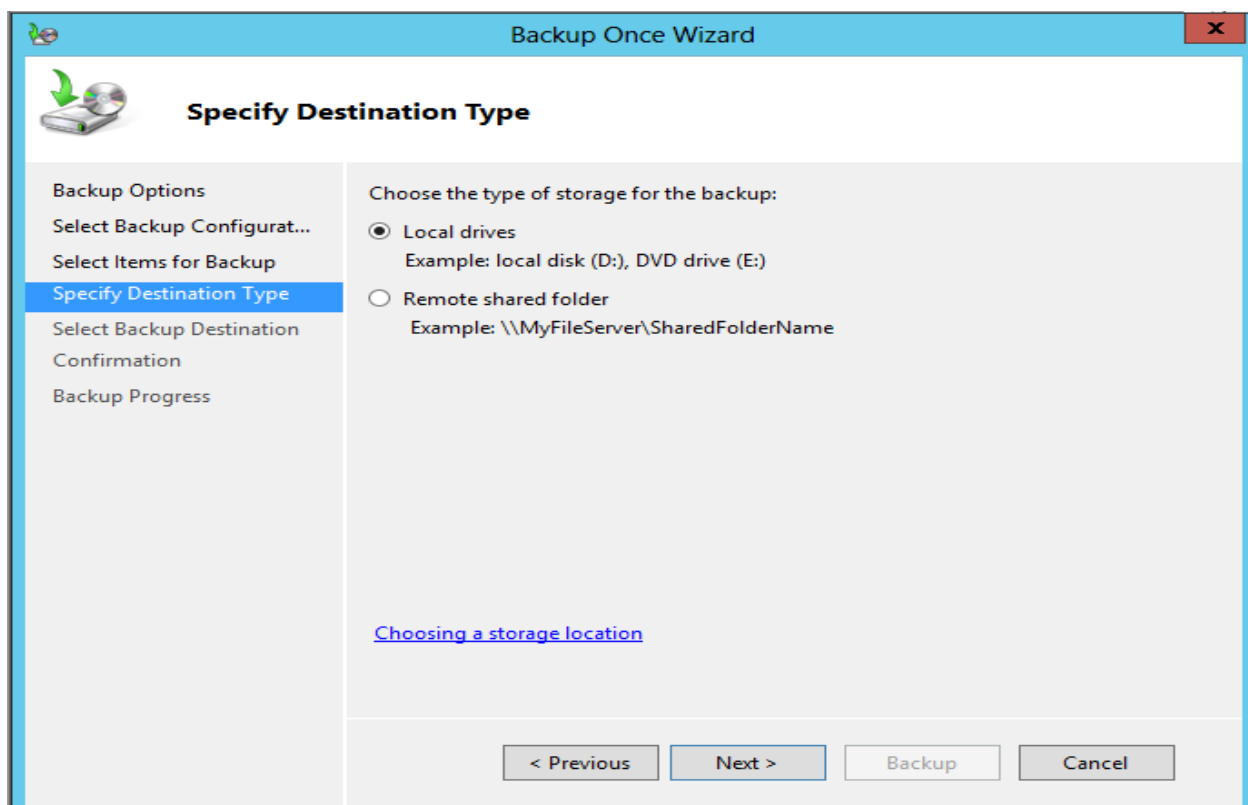
What type of configuration do you want to schedule?

☐ Full server (recommended)
I want to back up all my server data, applications and system state.
Backup size: 9.42 GB

☒ Custom
I want to choose custom volumes, files for backup.

< Previous Next > Backup Cancel





The screenshot shows the 'Specify Destination Type' step of the Backup Once Wizard. The window title is 'Backup Once Wizard'. On the left, a sidebar lists the steps: Backup Options, Select Backup Configurat..., Select Items for Backup, Specify Destination Type (highlighted), Select Backup Destination, Confirmation, and Backup Progress. The main area is titled 'Specify Destination Type' and contains an icon of a hard drive with a green arrow. Below the icon, it says 'Choose the type of storage for the backup:'. There are two radio button options: 'Local drives' (selected) with the example 'local disk (D:), DVD drive (E:)', and 'Remote shared folder' with the example '\\MyFileServer\\SharedFolderName'. At the bottom, there is a blue hyperlink 'Choosing a storage location'. The bottom of the window has four buttons: '< Previous', 'Next >', 'Backup', and 'Cancel'.

Backup Once Wizard

Specify Destination Type

Backup Options
Select Backup Configurat...
Select Items for Backup
Specify Destination Type
Select Backup Destination
Confirmation
Backup Progress

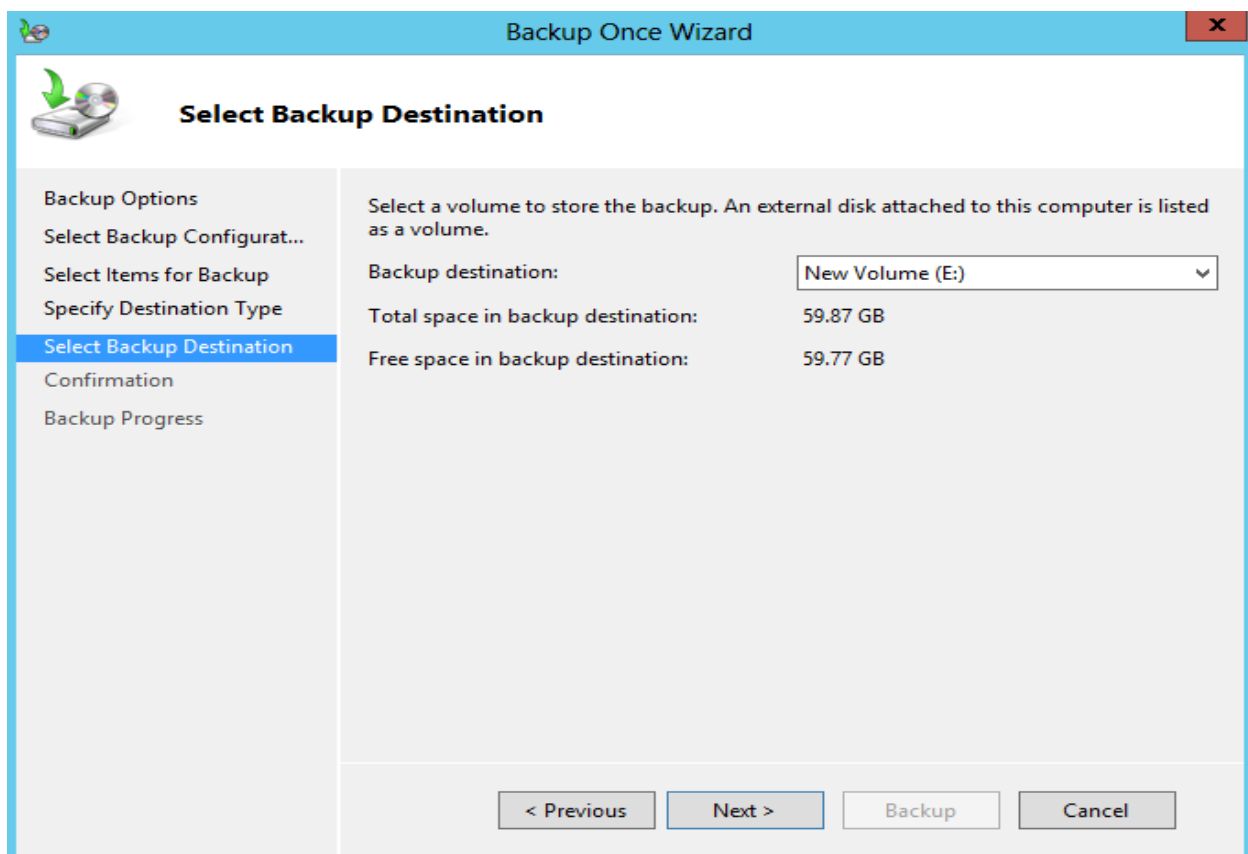
Choose the type of storage for the backup:

☒ Local drives
Example: local disk (D:), DVD drive (E:)

☐ Remote shared folder
Example: \\MyFileServer\\SharedFolderName

[Choosing a storage location](#)

< Previous Next > Backup Cancel



The screenshot shows the 'Select Backup Destination' step of the Backup Once Wizard. The window title is 'Backup Once Wizard'. On the left, a sidebar lists the steps: Backup Options, Select Backup Configurat..., Select Items for Backup, Specify Destination Type, Select Backup Destination (highlighted), Confirmation, and Backup Progress. The main area is titled 'Select Backup Destination' and contains an icon of a hard drive with a green arrow. Below the icon, it says 'Select a volume to store the backup. An external disk attached to this computer is listed as a volume.' There is a table with two rows: 'Backup destination:' with the value 'New Volume (E:)' in a dropdown menu, 'Total space in backup destination:' with the value '59.87 GB', and 'Free space in backup destination:' with the value '59.77 GB'. The bottom of the window has four buttons: '< Previous', 'Next >', 'Backup', and 'Cancel'.

Backup Once Wizard

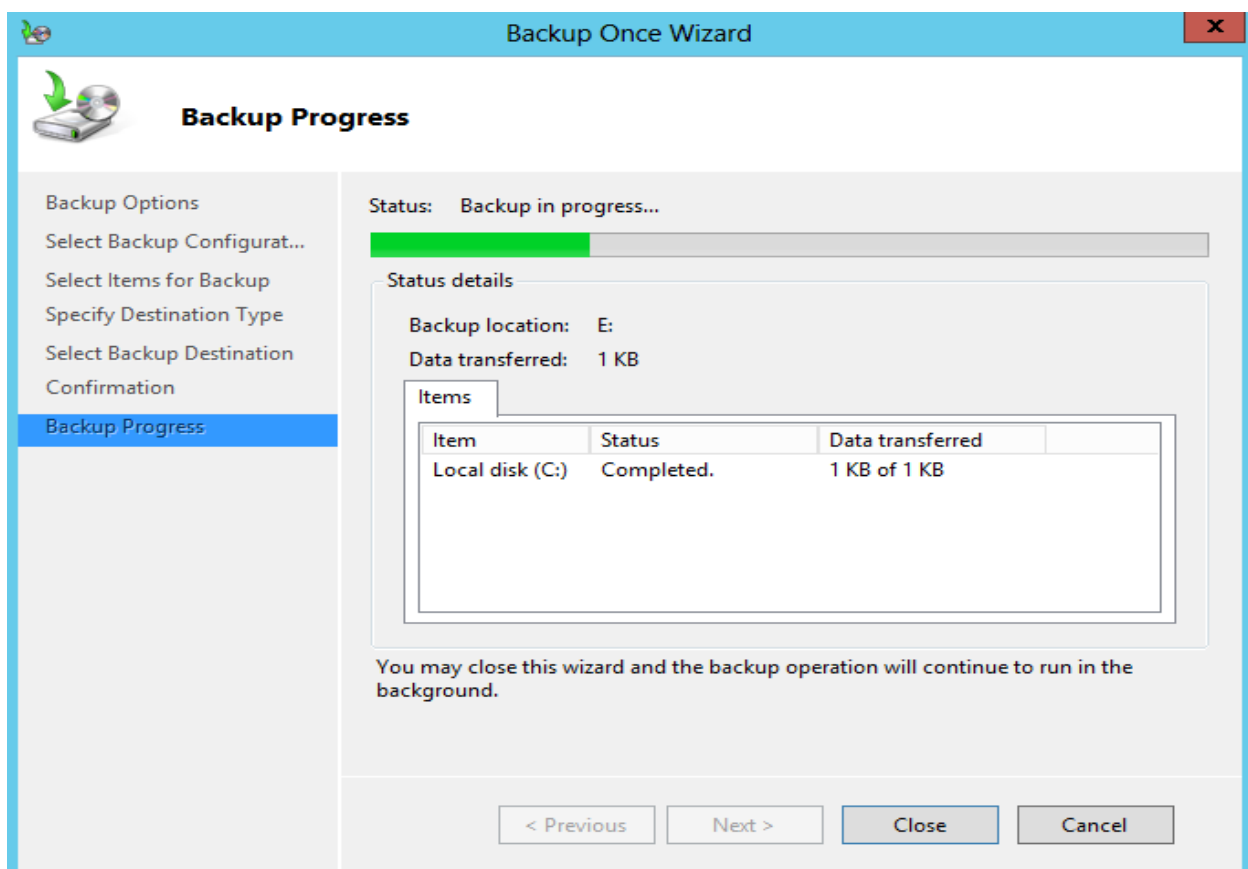
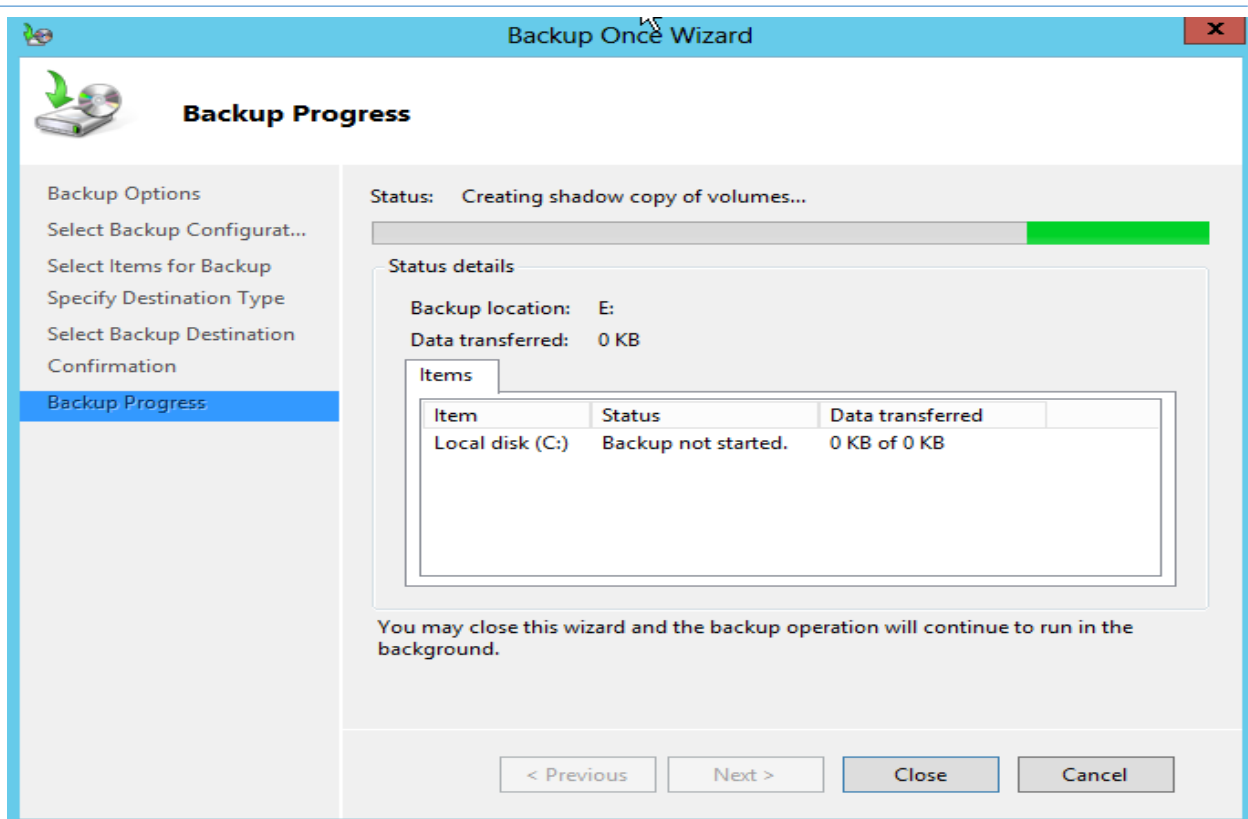
Select Backup Destination

Backup Options
Select Backup Configurat...
Select Items for Backup
Specify Destination Type
Select Backup Destination
Confirmation
Backup Progress

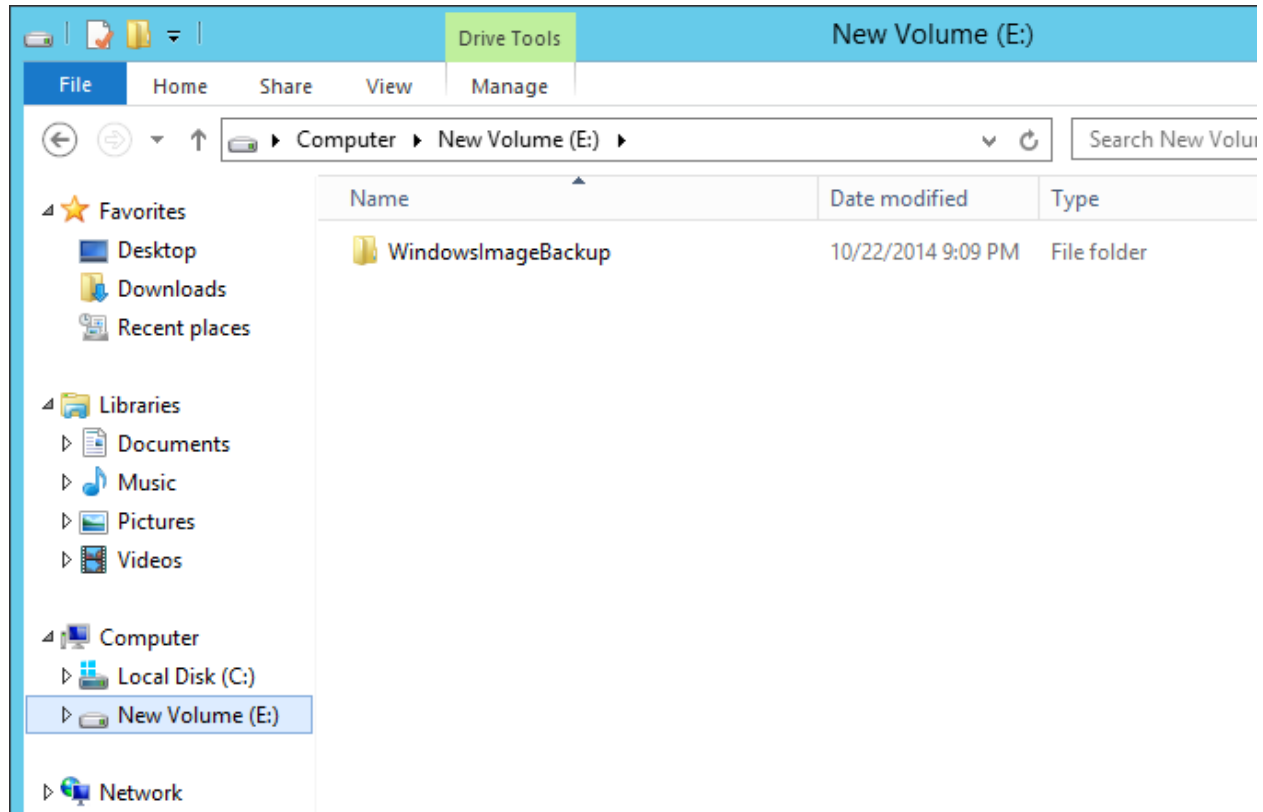
Select a volume to store the backup. An external disk attached to this computer is listed as a volume.

Backup destination:	New Volume (E:)
Total space in backup destination:	59.87 GB
Free space in backup destination:	59.77 GB

< Previous Next > Backup Cancel

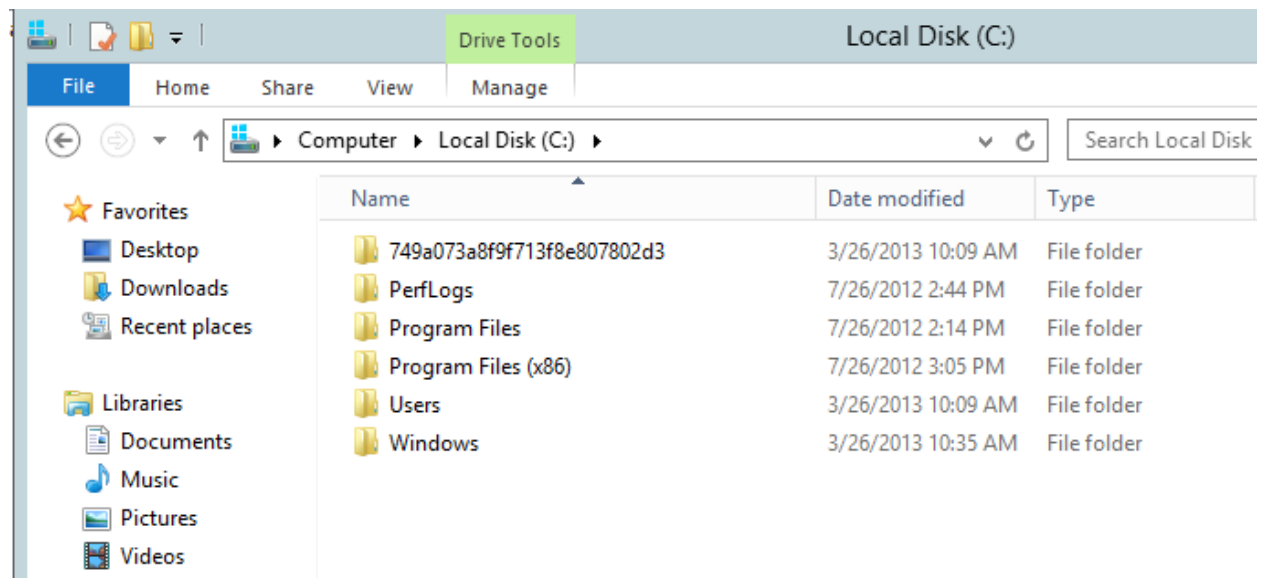


Kiểm tra nội dung lưu dữ liệu được backup

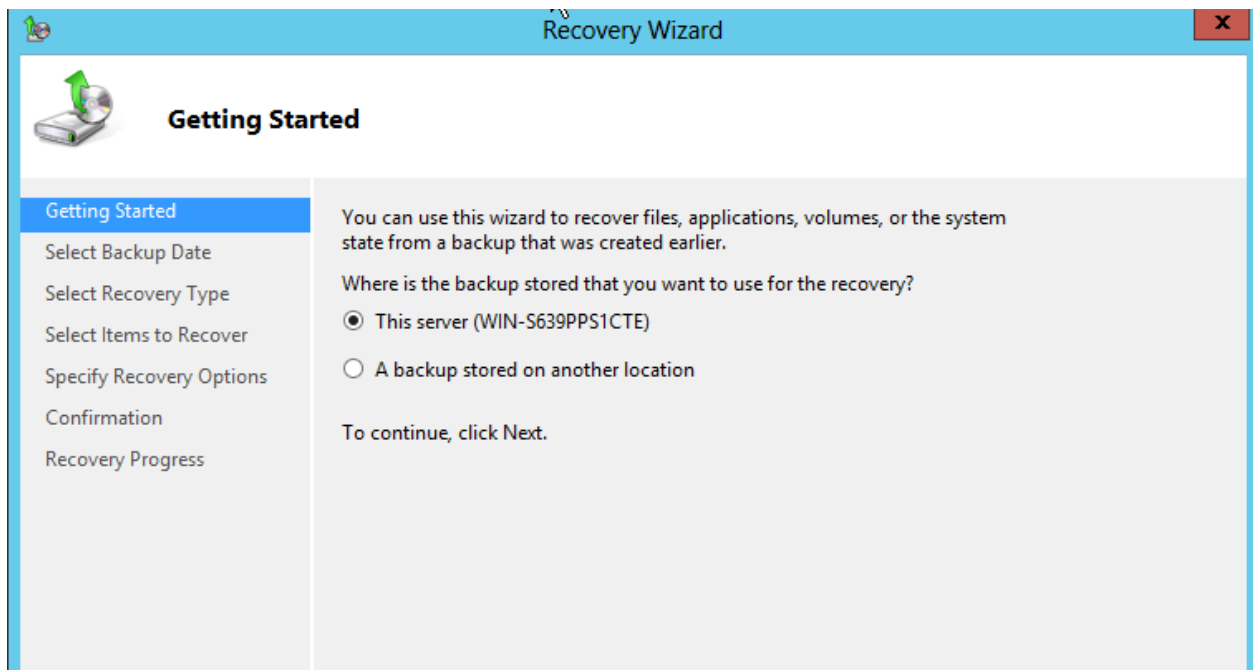
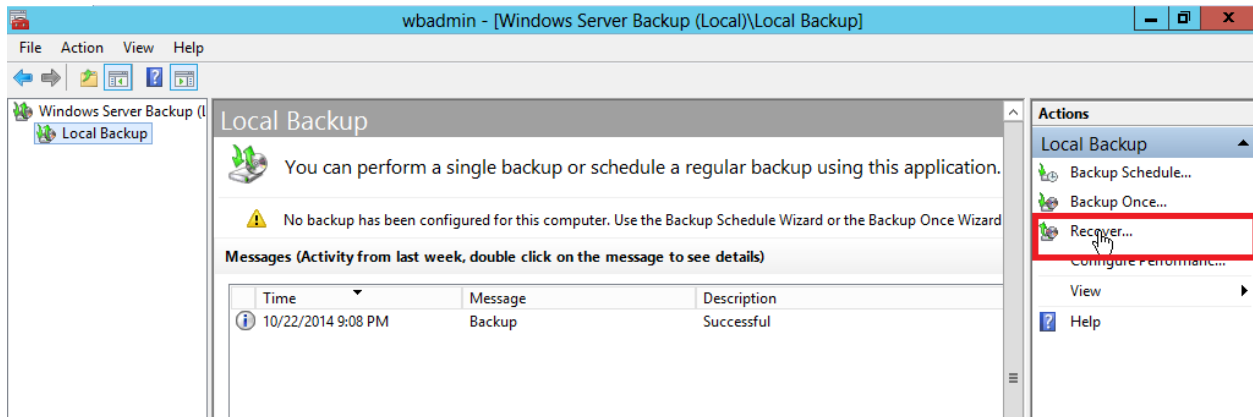


III. KHÔI PHỤC DỮ LIỆU

Bây giờ chúng ta vào ổ C và xóa thư mục DATA. Sau đó tiến hành khôi phục lại dữ liệu



Tiến hành khôi phục dữ liệu



The screenshot shows the 'Recovery Wizard' window with the title bar 'Recovery Wizard'. The left sidebar contains a list of steps: 'Getting Started', 'Select Backup Date' (highlighted), 'Select Recovery Type', 'Select Items to Recover', 'Specify Recovery Options', 'Confirmation', and 'Recovery Progress'. The main area is titled 'Select Backup Date' and features a calendar for October 2014. The calendar shows dates from Sunday to Saturday, with the 22nd highlighted. To the right of the calendar, there are fields for 'Backup date:' (10/22/2014), 'Time:' (9:08 PM), 'Location:' (New Volume (E:)), 'Status:' (Available online), and 'Recoverable items:' (Local disk (C:)(Sele...)). At the bottom, there are four buttons: '< Previous', 'Next >', 'Recover', and 'Cancel'.

Recovery Wizard

Select Backup Date

Getting Started
Select Backup Date
Select Recovery Type
Select Items to Recover
Specify Recovery Options
Confirmation
Recovery Progress

Oldest available backup: 10/22/2014 9:08 PM
Newest available backup: 10/22/2014 9:08 PM

Available backups
Select the date of a backup to use for recovery. Backups are available for dates shown in bold.

October 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Backup date: 10/22/2014
Time: 9:08 PM
Location: New Volume (E:)
Status: Available online
Recoverable items: Local disk (C:)(Sele...

< Previous Next > Recover Cancel

The screenshot shows the 'Recovery Wizard' window with the title bar 'Recovery Wizard'. The left sidebar contains a list of steps: 'Getting Started', 'Select Backup Date', 'Select Recovery Type' (highlighted), 'Select Items to Recover', 'Specify Recovery Options', 'Confirmation', and 'Recovery Progress'. The main area is titled 'Select Recovery Type' and features a section 'What do you want to recover?' with five radio button options: 'Files and folders' (selected), 'Hyper-V', 'Volumes', 'Applications', and 'System state'. Each option has a brief description. At the bottom, there is a link 'More about performing recoveries' and four buttons: '< Previous', 'Next >', 'Recover', and 'Cancel'.

Recovery Wizard

Select Recovery Type

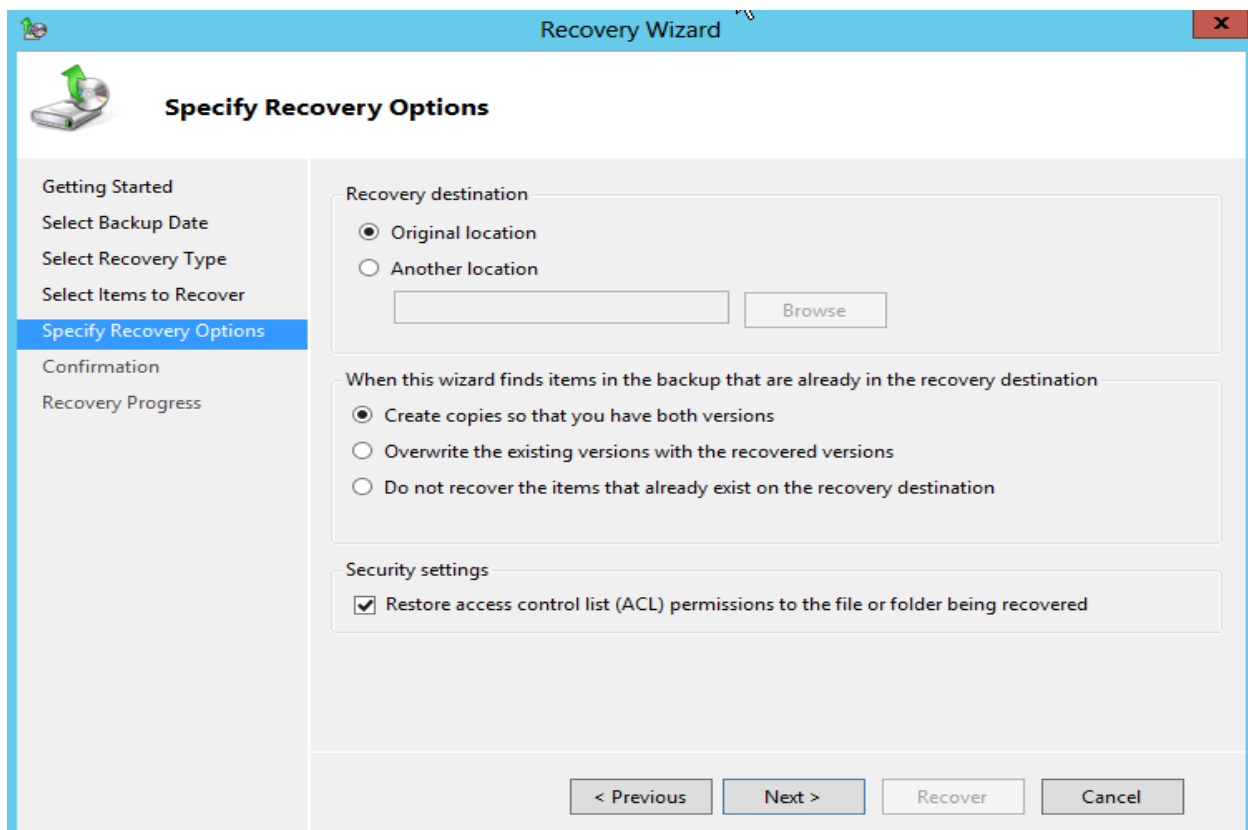
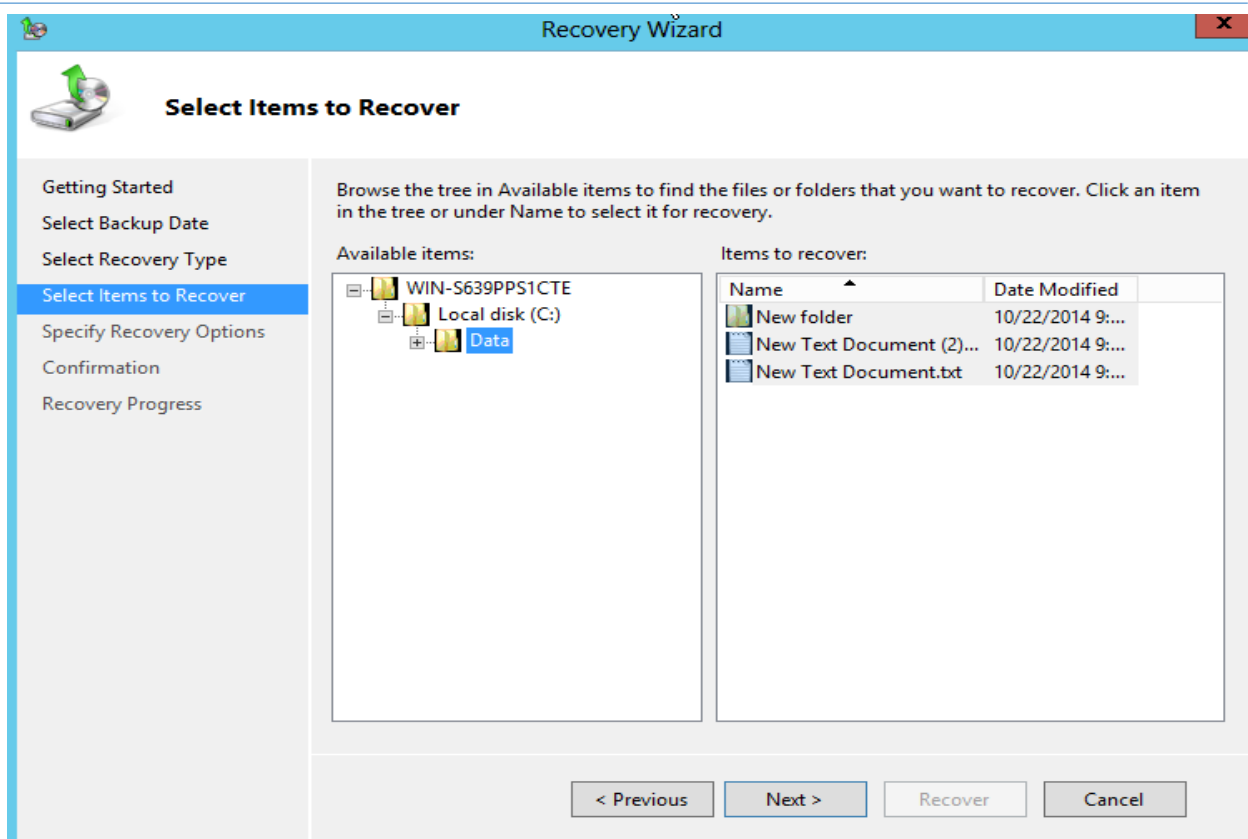
Getting Started
Select Backup Date
Select Recovery Type
Select Items to Recover
Specify Recovery Options
Confirmation
Recovery Progress

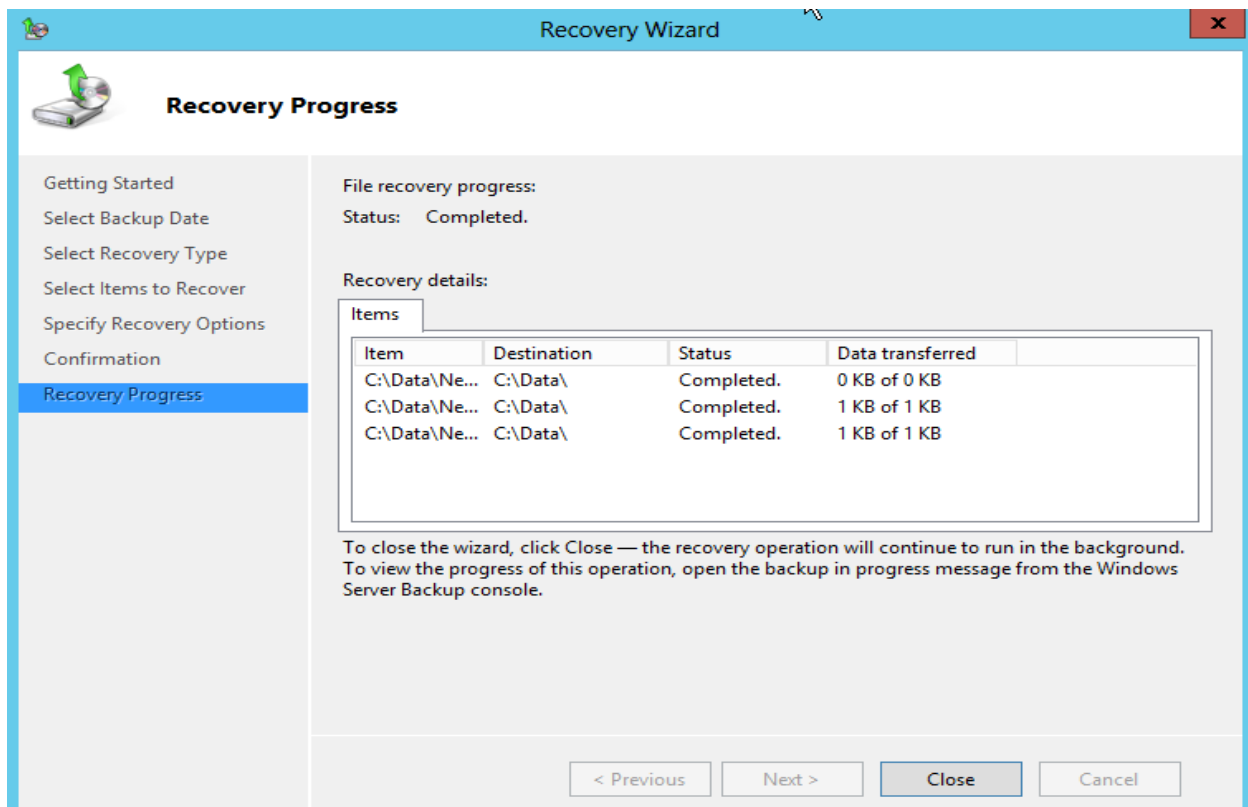
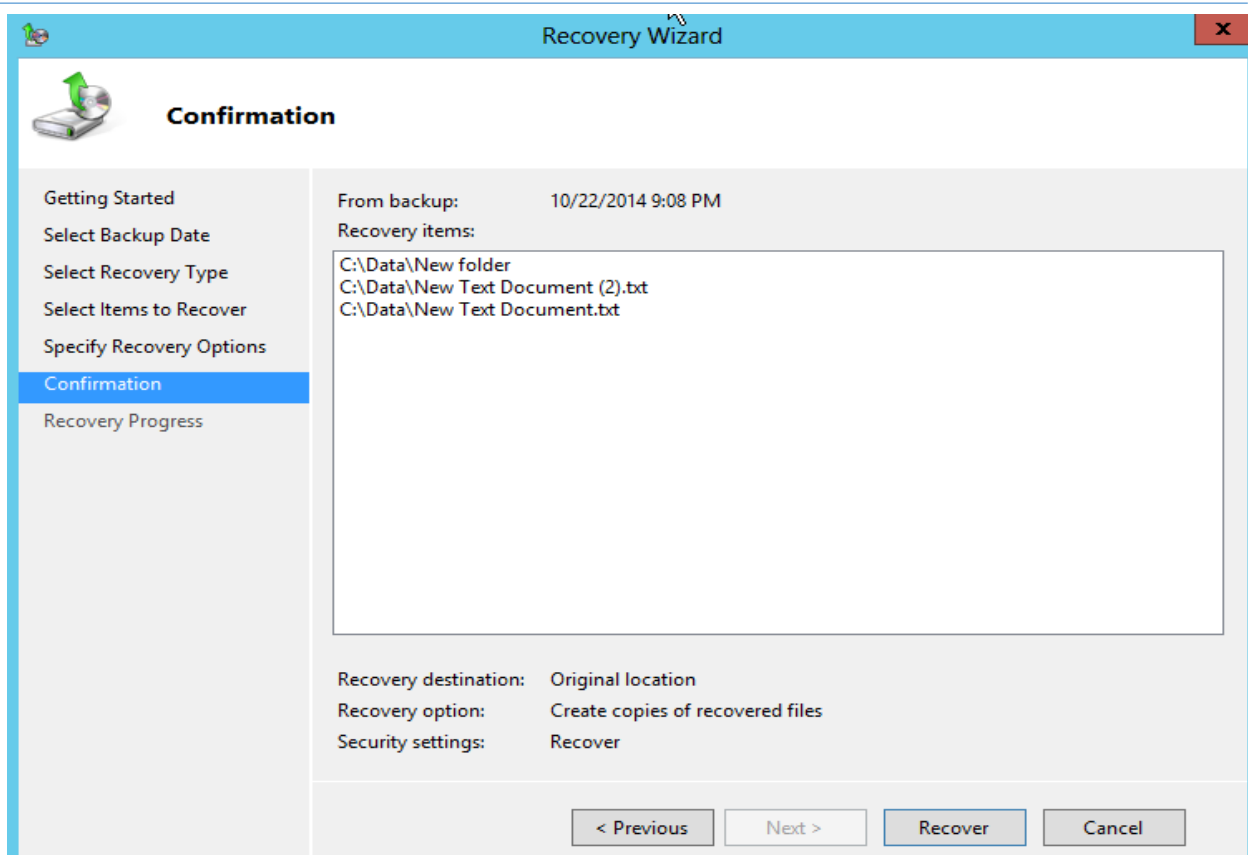
What do you want to recover?

- ☒ Files and folders
You can browse volumes included in this backup and select files and folders.
- ☐ Hyper-V
You can restore virtual machines to their original location, another location or copy the virtual hard disk files of a virtual machine.
- ☐ Volumes
You can restore an entire volume, such as all data stored on C:.
- ☐ Applications
You can recover applications that have registered with Windows Server Backup.
- ☐ System state
You can restore just the system state.

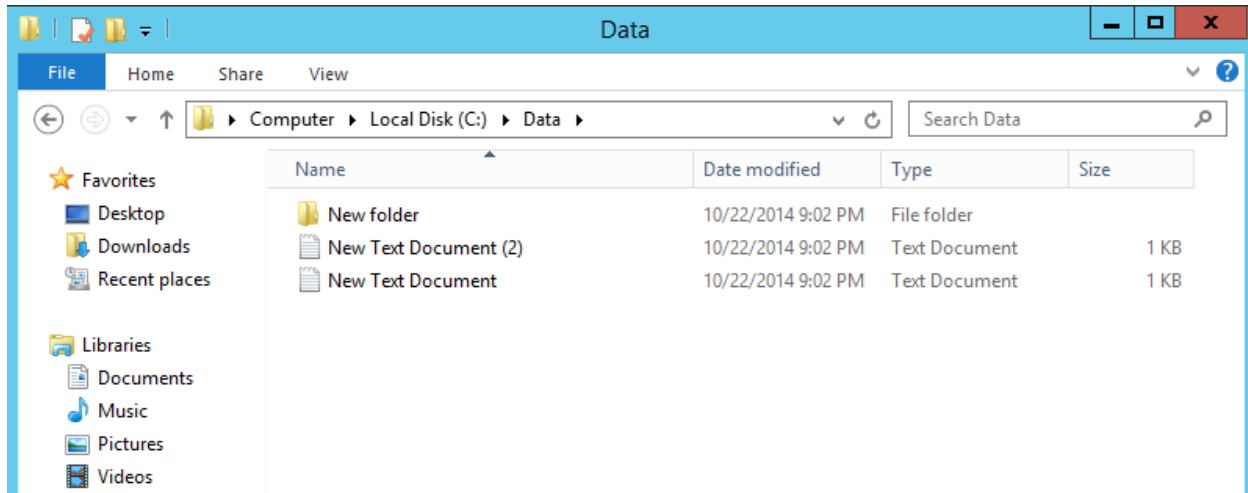
[More about performing recoveries](#)

< Previous Next > Recover Cancel





Kiểm tra lại trên ổ C, chúng ta thấy dữ liệu đã được khôi phục



IV. CẤU HÌNH BACKUP DỮ LIỆU (DATA, POLICY VÀ SYSTEM STATE)

Sinh viên tự tìm hiểu

V. KHÔI PHỤC DỮ LIỆU (DATA, POLICY VÀ SYSTEM STATE)

Sinh viên tự tìm hiểu