

Module 1 part 4: Initializing a Disk and Creating a Volume

Similar to the first part of module 1 part 3.

Desktop Verison:

Using server manager and going to the disks. Selecting disk 1 that has un

The screenshot shows the Windows Server Manager interface. The left sidebar has 'Servers', 'Volumes', 'Disks', and 'Storage Pools'. The main area is titled 'File and Storage Services > Volumes > Disks'. It displays a table of disks for 'DE01 (2)'. Disk 1 is selected, and a context menu is open over it.

Number	Virtual Disk	Status	Capacity	Unallocated	Partition	Read Only	Clustered	Subsystem	Bus Type
DE01 (2)									
0		Online	127 GB	0.00 B	MBR				ATA
1		Online	30.0 GB	30.0 GB	Unknown				ATA

Below the disks table, there are sections for 'VOLUMES' (showing 2 related volumes) and 'STORAGE POOL' (showing 'Virtual HD on DE01').

This screenshot is similar to the one above, but the context menu is now closed. The 'VOLUMES' section now shows 'Related Volumes | 0 total' and 'No volumes exist. To create a volume, start the New Volume Wizard.' The 'STORAGE POOL' section remains the same.

On the right side of the interface, there is a sidebar for '6: Windows Server Storage Solutions' with a progress bar at 100%. It includes sections for 'Lab Overview' and 'Lab Objectives'.

Lab Overview

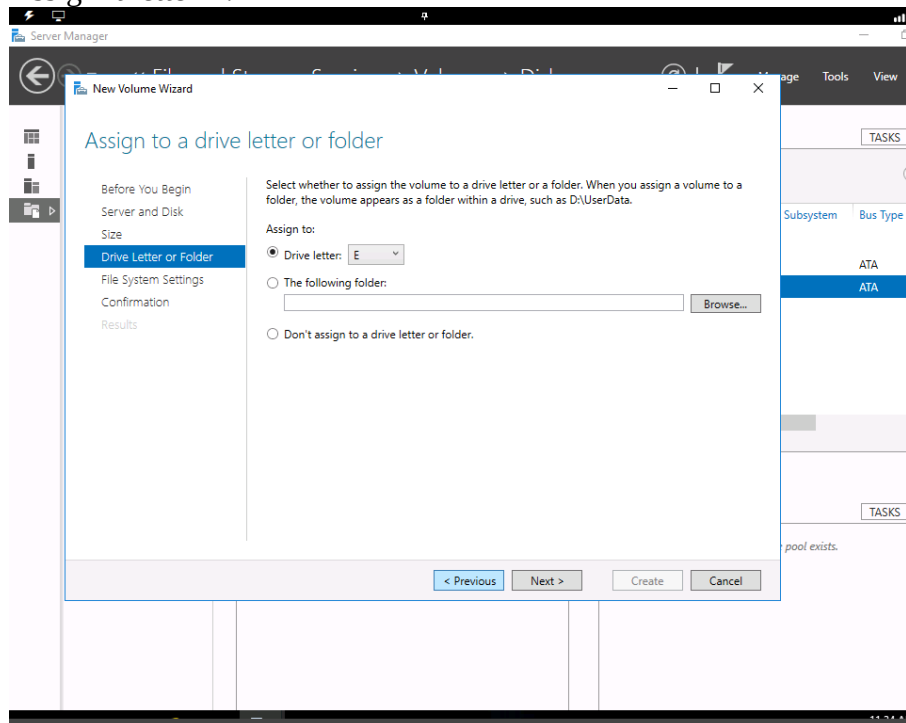
Initialize a new disk and create a volume. Practice creating volumes with different sizes or file systems.

Lab Objectives

- Initialize a Hard Disk Drive (HDD)
- Create a New Volume

At the bottom right, there is an 'End >' button.

Assign it letter E:



The screenshot shows the 'New Volume Wizard' in Windows Server Manager. The wizard is at the 'Assign to a drive letter or folder' step. The left sidebar shows the progression: 'Before You Begin', 'Server and Disk', 'Size', 'Drive Letter or Folder' (selected), 'File System Settings', 'Confirmation', and 'Results'. The main area has a heading 'Assign to a drive letter or folder' and a sub-heading 'Select whether to assign the volume to a drive letter or a folder. When you assign a volume to a folder, the volume appears as a folder within a drive, such as D:\UserData.' Below this, there are three options: 'Drive letter: E' (selected), 'The following folder:' (with a 'Browse...' button), and 'Don't assign to a drive letter or folder.' At the bottom, there are buttons for '< Previous', 'Next >', 'Create', and 'Cancel'.

6: Windows Server Storage Solutions
54 Minutes Remaining

Instructions Resources Help 100%

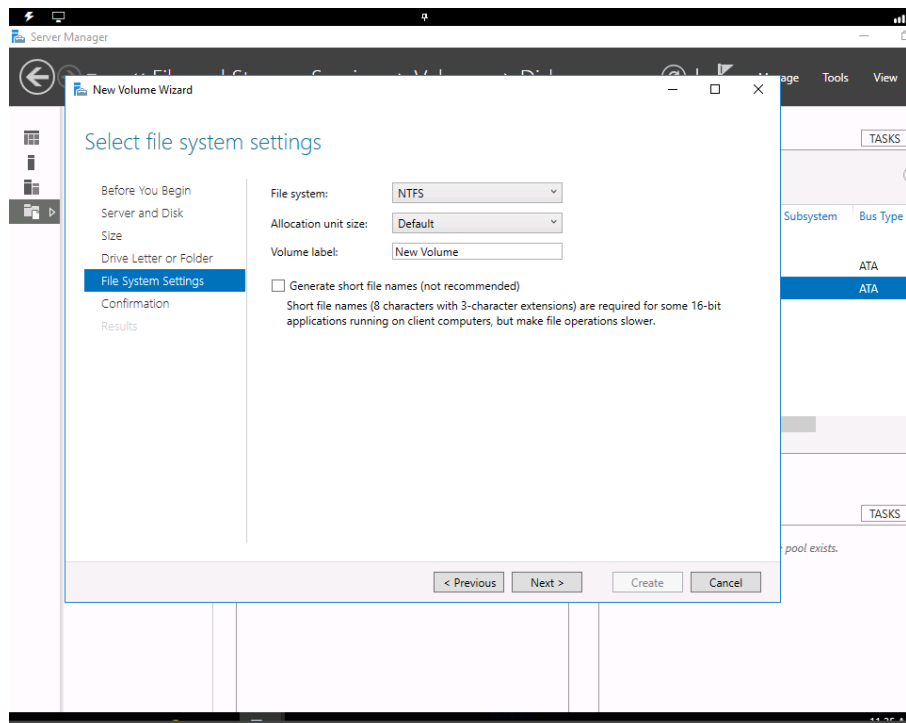
Lab Overview
Initialize a new disk and create a volume. Practice creating volumes with different sizes or file systems.

Lab Objectives

- Initialize a Hard Disk Drive (HDD)
- Create a New Volume

End >

Making it NTFS system:



The screenshot shows the 'New Volume Wizard' in Windows Server Manager. The wizard is at the 'Select file system settings' step. The left sidebar shows the progression: 'Before You Begin', 'Server and Disk', 'Size', 'Drive Letter or Folder', 'File System Settings' (selected), 'Confirmation', and 'Results'. The main area has a heading 'Select file system settings' and a sub-heading 'File system: NTFS'. Below this, there are three options: 'Allocation unit size: Default', 'Volume label: New Volume', and 'Generate short file names (not recommended)' (unchecked). A note states: 'Short file names (8 characters with 3-character extensions) are required for some 16-bit applications running on client computers, but make file operations slower.' At the bottom, there are buttons for '< Previous', 'Next >', 'Create', and 'Cancel'.

6: Windows Server Storage Solutions
54 Minutes Remaining

Instructions Resources Help 100%

Lab Overview
Initialize a new disk and create a volume. Practice creating volumes with different sizes or file systems.

Lab Objectives

- Initialize a Hard Disk Drive (HDD)
- Create a New Volume

End >

Starting the create part:

The screenshot displays the 'New Volume Wizard' window in the 'Confirm selections' step. The wizard is titled 'Confirm selections' and prompts the user to confirm the following settings before clicking 'Create':

- VOLUME LOCATION**
 - Server: DE01
 - Disk: Disk 1
 - Free space: 30.0 GB
- VOLUME PROPERTIES**
 - Volume size: 14.0 GB
 - Drive letter or folder: E:\
 - Volume label: New Volume
- FILE SYSTEM SETTINGS**
 - File system: NTFS
 - Short file name creation: Disabled
 - Allocation unit size: Default

At the bottom of the wizard, there are buttons for '< Previous', 'Next >', 'Create', and 'Cancel'. The 'Create' button is highlighted in blue.

On the right side of the screen, the '6: Windows Server Storage Solutions' lab interface is visible. It includes a progress bar showing '53 Minutes Remaining' and a '100%' completion status. Below the progress bar, the 'Lab Overview' section states: 'Initialize a new disk and create a volume. Practice creating volumes with different sizes or file systems.' The 'Lab Objectives' section lists two tasks: 'Initialize a Hard Disk Drive (HDD)' and 'Create a New Volume'. The 'End >' button is located at the bottom right of the lab interface.

The screenshot displays the 'New Volume Wizard' window in the 'Completion' step. The wizard is titled 'Completion' and informs the user that they have successfully completed the New Volume Wizard. A table below shows the progress of the tasks:

Task	Progress	Status
Gather information	██████████	Completed
Create new partition	██████████	Completed
Format volume	██████████	Completed
Add access path	██████████	Completed
Update cache	██████████	Completed

At the bottom of the wizard, there are buttons for '< Previous', 'Next >', 'Close', and 'Cancel'. The 'Close' button is highlighted in blue.

On the right side of the screen, the '6: Windows Server Storage Solutions' lab interface is visible. It includes a progress bar showing '53 Minutes Remaining' and a '100%' completion status. Below the progress bar, the 'Lab Overview' section states: 'Initialize a new disk and create a volume. Practice creating volumes with different sizes or file systems.' The 'Lab Objectives' section lists two tasks: 'Initialize a Hard Disk Drive (HDD)' and 'Create a New Volume'. The 'End >' button is located at the bottom right of the lab interface.

Doing the same thing but with the cmd using the commands

"diskpart → list disk → select disk 1 → attributes disk → create partition primary size=1400 → assign letter=G → list partition → select partition 1 → format FS=NTFS label=Data quick.". The list commands are just to see what disk or volume to select. List disk also show if it is online or not. The attributes is to see if it read only or if it possible to write.:

The screenshot shows a Windows Server Storage Solution lab environment. On the left, a command prompt window titled "Administrator: Command Prompt - diskpart" displays the following commands and output:

```
C:\Users\Administrator>diskpart

Microsoft DiskPart version 10.0.14393.0

Copyright (C) 1999-2013 Microsoft Corporation.
On computer: DE01

DISKPART> list disk

   Disk ###  Status       Size      Free      Dyn  Gpt
   -----  -
   Disk 0      Online        127 GB     0 B
   Disk 1      Online        30 GB     14 GB    *

DISKPART> select disk 1

Disk 1 is now the selected disk.

DISKPART> attributes disk
Current Read-only State : No
Read-only               : No
Boot Disk               : No
Pagefile Disk           : No
Hibernation File Disk   : No
Crashdump Disk          : No
Clustered Disk          : No

DISKPART> create partition primary size=1400

DiskPart succeeded in creating the specified partition.

DISKPART> assign letter=F

Virtual Disk Service error:
The specified drive letter is not free to be assigned.

DISKPART> assign letter=G
```

On the right, a sidebar titled "6: Windows Server Storage Solution" shows the lab instructions and objectives. The "Lab Overview" section states: "Initialize a new disk and create a volume. Practice creating volumes with different sizes or file systems." The "Lab Objectives" section lists: "Initialize a Hard Disk Drive (HDD)" and "Create a New Volume".

The screenshot shows a Windows Server Storage Solution lab environment. On the left, a command prompt window titled "Administrator: Command Prompt - diskpart" displays the following commands and output:

```
DISKPART> assign letter=G

DiskPart successfully assigned the drive letter or mount point.

DISKPART> list partition

   Partition ##  Type          Size      Offset
   -----  -
   Partition 1    Reserved      128 MB     17 KB
   Partition 2    Primary        14 GB    129 MB
   Partition 3    Primary       1400 MB     14 GB
   * Partition 4    Primary       1400 MB     15 GB

DISKPART> select partition 3

Partition 3 is now the selected partition.

DISKPART> format FS=NTFS label=Data quick

100 percent completed

DiskPart successfully formatted the volume.

DISKPART> _
```

On the right, a sidebar titled "6: Windows Server Storage Solution" shows the lab instructions and objectives. The "Lab Overview" section states: "Initialize a new disk and create a volume. Practice creating volumes with different sizes or file systems." The "Lab Objectives" section lists: "Initialize a Hard Disk Drive (HDD)" and "Create a New Volume".

