11.4.5 Optional Lab: Install, Configure, and Partition a Second Hard Drive in Windows Vista

Introduction

Print and complete this lab.

In this lab, you will change the boot order, install a second hard drive, create partitions, and map drive letters to partitions.

Recommended Equipment

- Computer running Windows Vista
- Unpartitioned IDE hard disk drive
- IDE cable with a free connection
- Antistatic wrist strap
- Tool kit

Step 1

Boot your computer, and then enter the BIOS setup.

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Use the **left** and **right arrow** keys to move between tabs in the BIOS. Use the **up** and **down arrow** keys to move between items in each tab.

Click the Boot tab.

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Select the "Boot Device Priority". The "Boot Device Priority" may also be called the "Boot Options" or the "Boot Order".

Press the Enter key.

Change the order of the boot devices to:

- 1. CD-ROM
- 2. Hard Drive
- 3. Floppy Drive
- 4. Any other boot option available

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On which screen was the boot device order found?

Save the changes to the BIOS and exit the BIOS utility by pressing the F10 key.

Step 2

Confirm the change to the BIOS settings if you are prompted. The computer will restart.

Do not log on to Windows.

Shut down your computer.

If a switch is present on the power supply, set the switch to "0" or "off".

Unplug the computer from the AC outlet.

Remove the side panels from the case.

Put on the antistatic wrist strap, and then clip it to the case.

Step 3

Many hard drives will have the jumper settings indicated in a diagram on the drive. Follow the diagram to determine where the jumper will be installed.



Move the Master/Slave jumper on the installed hard disk drive to the Master position if it is in any other position.

Move the Master/Slave jumper on the second hard disk drive to the Slave position if it is in any other position.

Insert the second hard disk drive into the computer and attach it with the proper screws.

Plug the middle connector of the IDE cable into the second hard disk drive.

Plug a four-pin Molex power connector into the second hard disk drive.

Check the jumper settings and cable connections on both hard disk drives to make sure the settings are correct and the cables are secured. Remove the antistatic wrist strap from the case and from your wrist, and then replace the case panels.

Plug the power cable into an AC outlet.

If a switch is present on the power supply, set the switch to "1" or "on".

Boot your computer.

Step 4

The new hard disk drive will be detected by the computer during the POST routine.

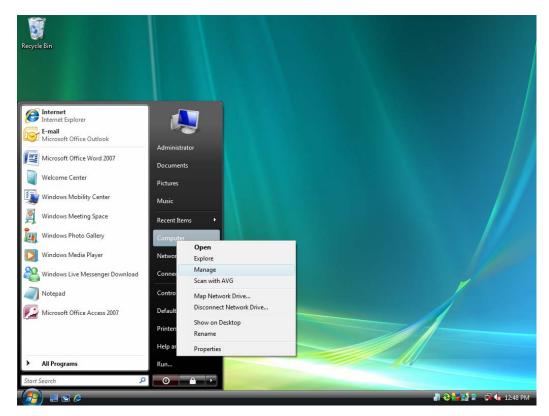


If you are prompted to accept changes to the computer, Press the F1 key.

Log on to Windows as an administrator.

Step 5

Click the **Start** button, and then right-click **Computer.**



Choose Manage.

The "Computer Management" window appears.

Click Disk Management.

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Right click Disk 1: Unallocated space and choose New Simple Volume from the dropdown menu.

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The "Welcome to the New Simple Volume Wizard" window appears. Click Next.

The "Specify Volume Size" window appears.

Type "5000" in the "Partition size in MB:" field, and then click Next.

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The "Assign Drive Letter or Path" window appears.

Click the "Assign the following drive letter" radio button.

Choose "M" from the "Assign the following drive letter" drop-down box, and click Next.

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The "Format Partition" window appears.

Click Next.

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The "Completing the New Simple Volume Wizard" window appears.

Verify that the settings you have chosen match the settings shown in the "Completing the New Partition Wizard" window, and then click **Finish**.

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Windows formats the new partition and the status of the Volume changes to "Healthy".

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The New Volume Setup Wizard partitioned the second hard drive. What type of partitions did the Setup Wizard create?

What other partitions could be created?

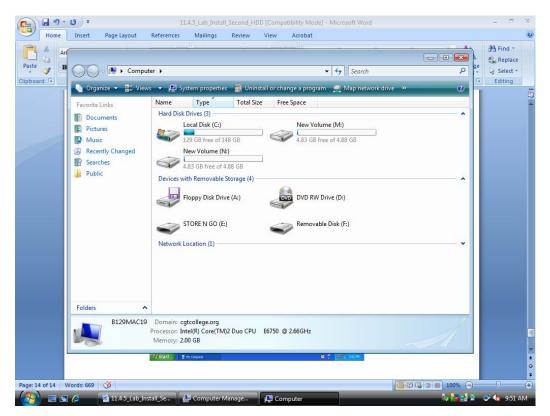
Step 6

Create a second partition in the Unallocated space of "Disk 1" with the drive label "N".

Step 7

Choose **Start > Computer**.

The "Hard Disk Drives" section of "Computer" now shows the two "New Volumes", "M:" and "N:".



How many primary partitions can be created on the newly added second hard disk drive?