

# TotalMounter

Virtual CD/DVD-RW/ROM Emulator, CD/DVD image mounter  
All-in-One free software

Monday, September 2<sup>nd</sup>, 2011



KernSafe Technologies, Inc.

[www.kernsafe.com](http://www.kernsafe.com)

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# Introduction

TotalMounter is only free software that allows user to mount virtual CD/DVD burner that is allowing to directly burn data onto an ISO file, not to an optical disk (such as CD or DVD). After mounting virtual burner for the first time, system will recognize it and automatically install all necessary drivers to run it. After this process will finish, you can easily burn such ISO file in any burning software of your choice, including Windows 7 default burning software. Virtual CD/DVD burner isn't the only feature of TotalMounter. Except for that you can also use it to mount almost every commonly used image files, such as .iso, .cdi, .bin, .mds, .mdf, .img, .raw, .ccd, .nrg. On top of that you can also mount virtual disk image files such as .vhd or .img. TotalMounter can work as an iSCSI Initiator that allows for logging to targets that are CHAP protected. It is a perfect solution if you wish to connect to iSCSI Targets created by iStorage Server. You may also use it as an iNetDisk client that allows you to connect to iNetDisk Server.

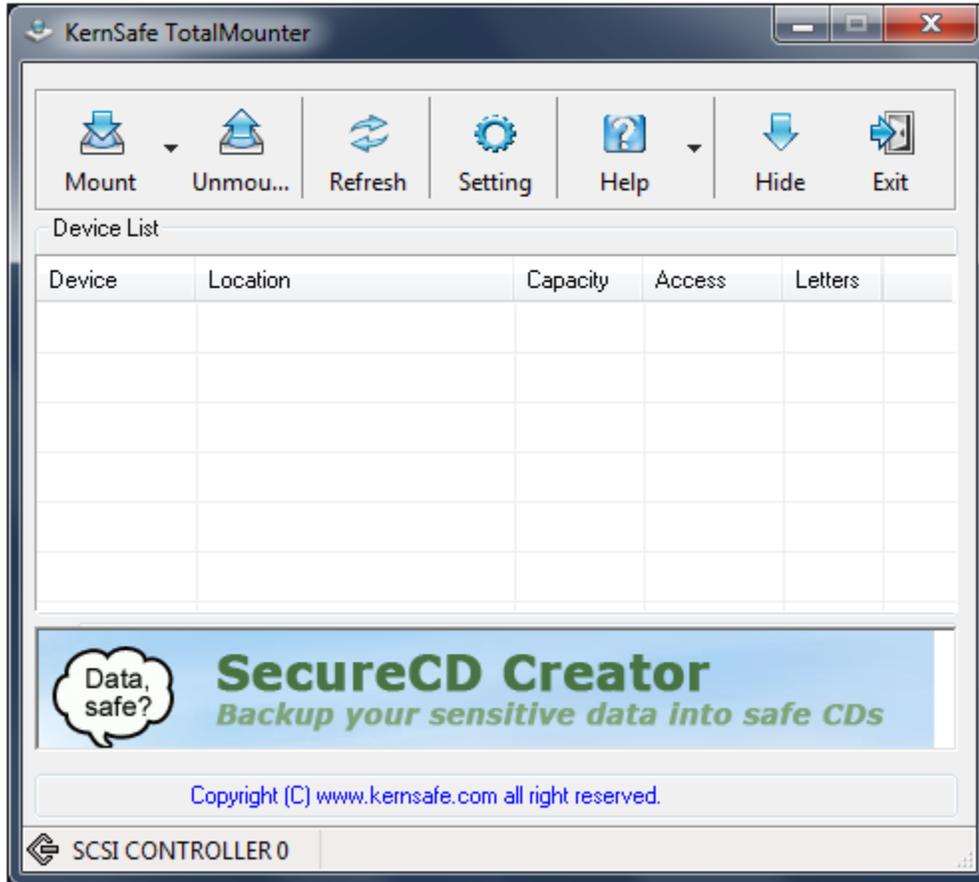
Up until now there wasn't such free software that would allow doing all of those above mentioned things so easily and comfortably. TotalMounter have very friendly user interface that allows for fast and efficient image creating and mounting.

From this White Paper you will learn how to use all features of TotalMounter. You will have a very detailed description of what TotalMounter can do and how you can use it to best suit your needs.

# Mounting Virtual CD/DVD-ROM

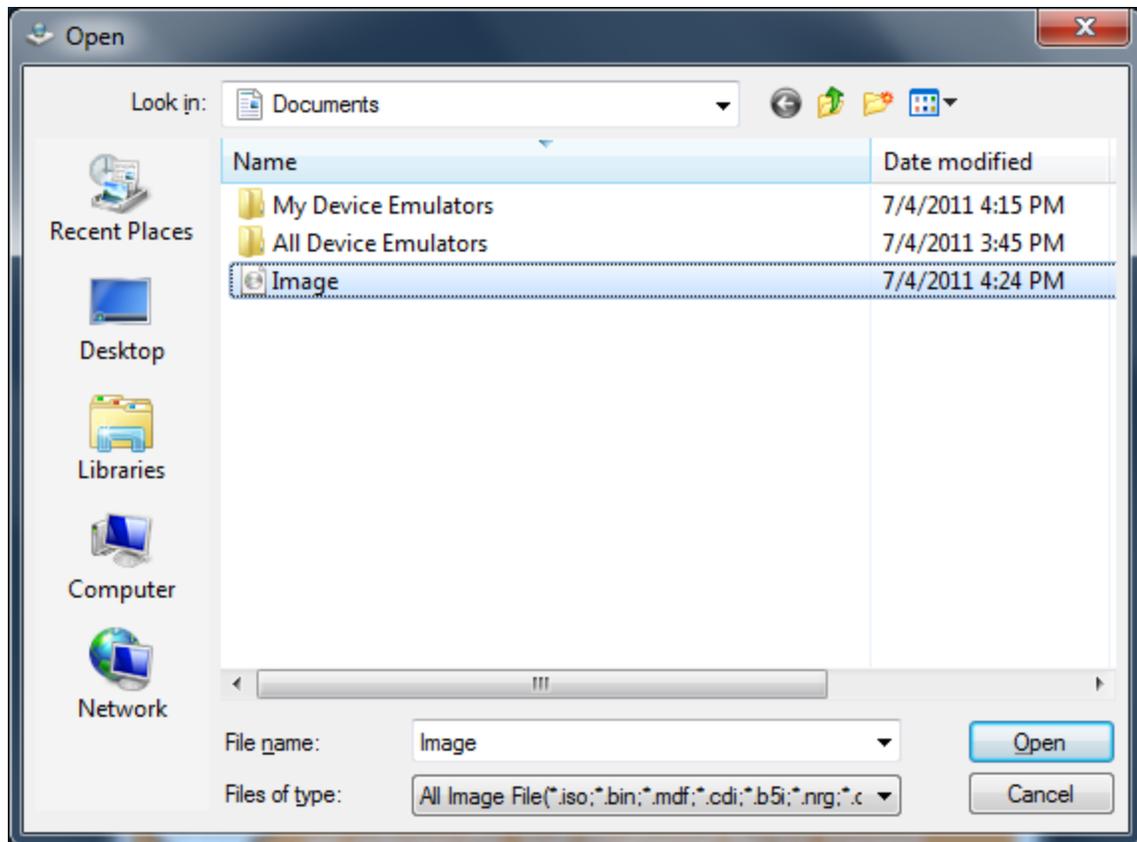
To mount your first virtual CD/DVD ROM using any of the following image file types iso, .cdi, .bin, .mds, .mdf, .img, .raw, .ccd, .nrg., please do as follows.

Open **KernSafe TotalMounter**.

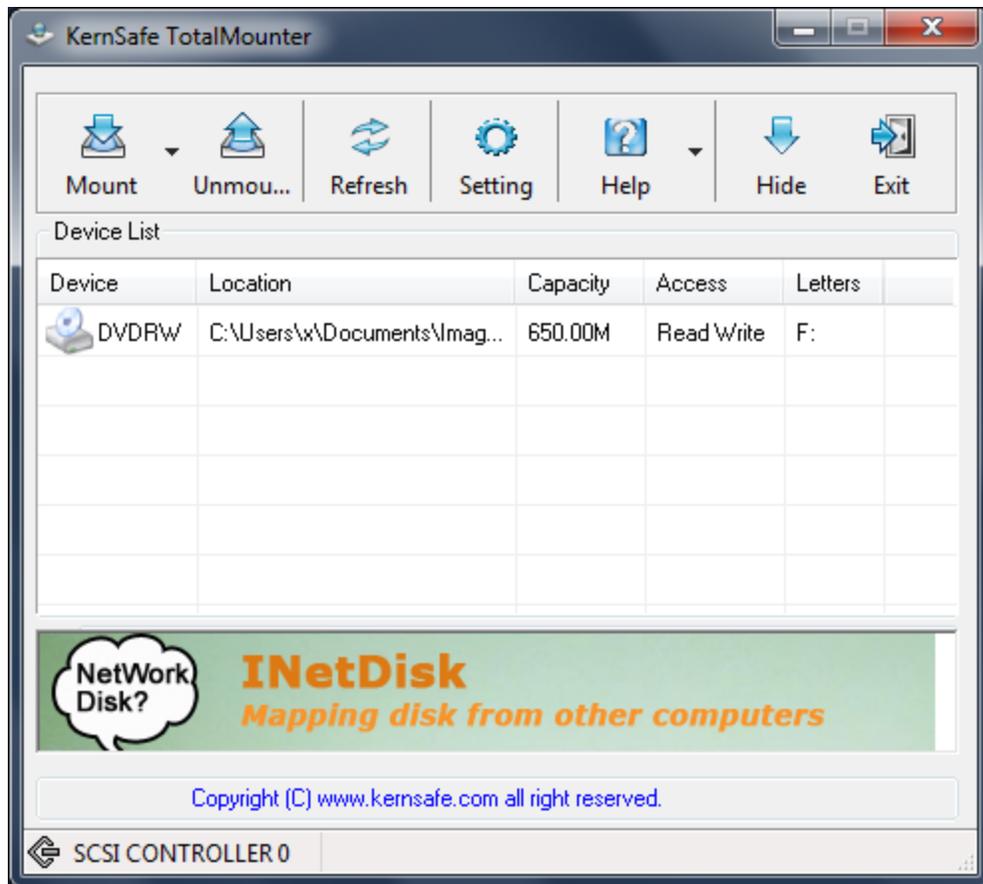


Click on **Mount** button and choose **Virtual CD/DVD-ROM**.

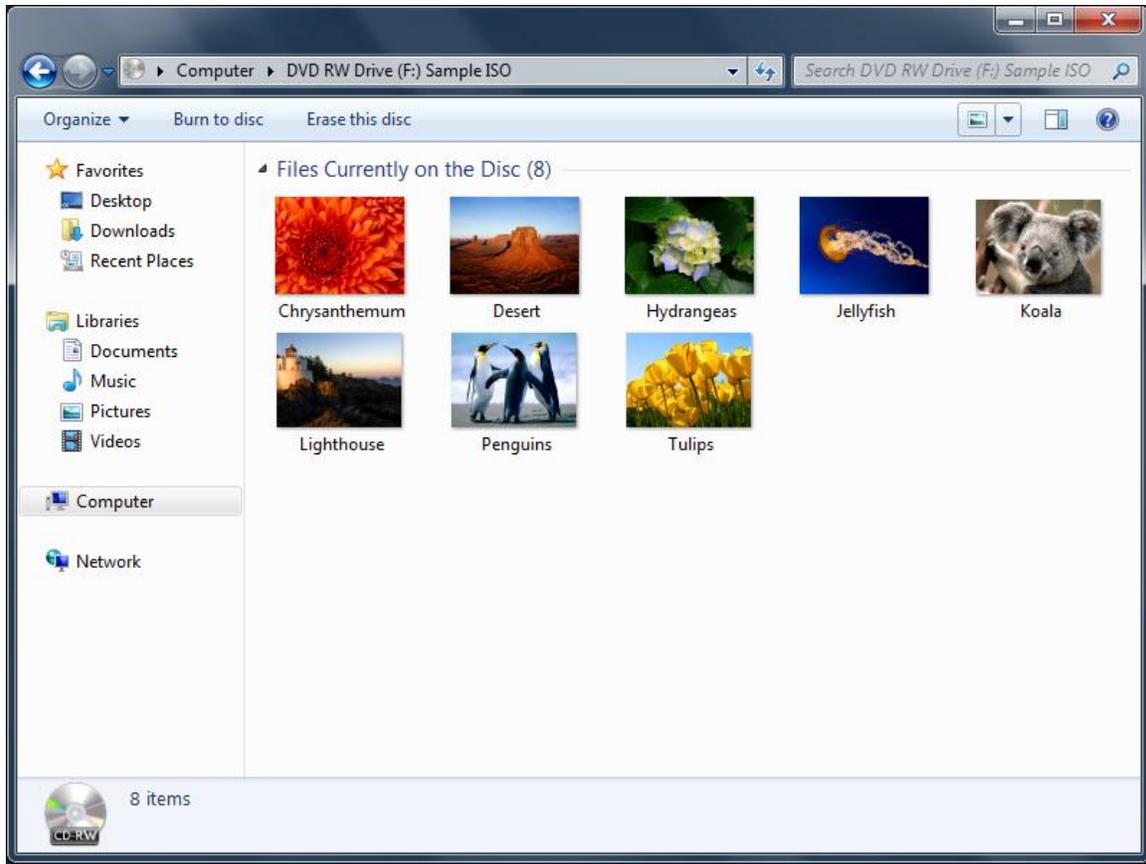
From the new window, navigate to specific file you wish to mount.



Press **Open** button, to mount that file.

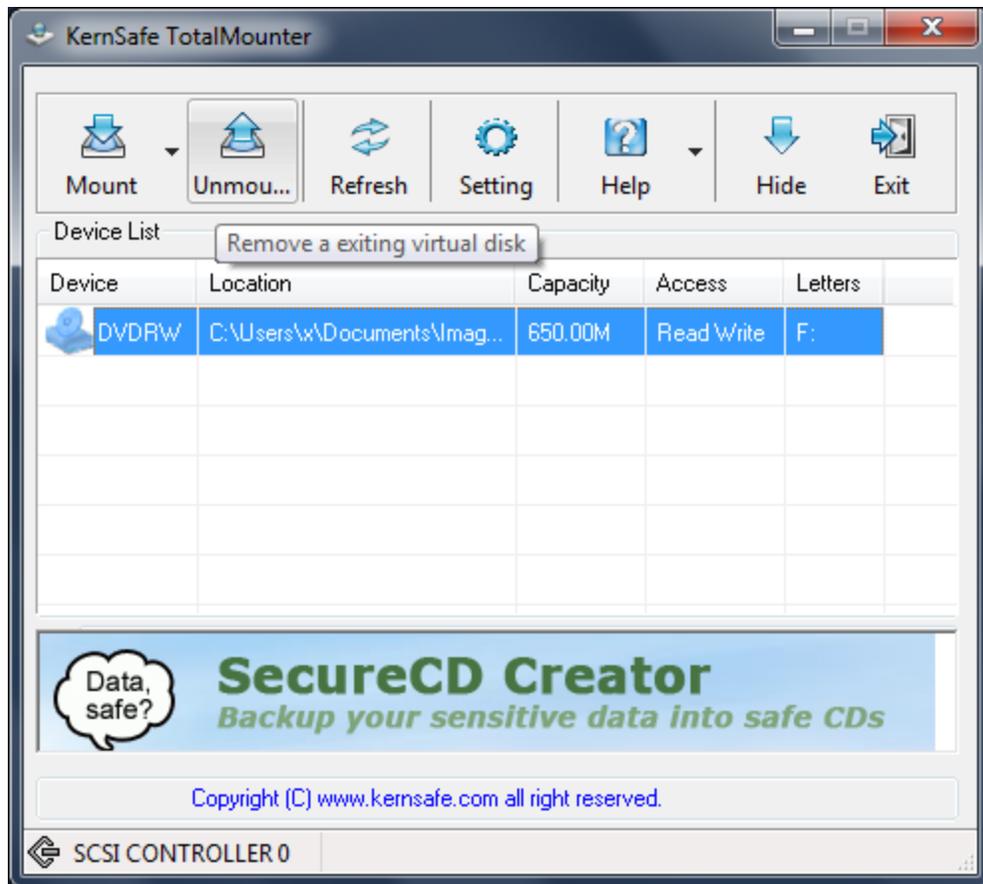


After mounting you may access all files from that image trough **Computer** window.

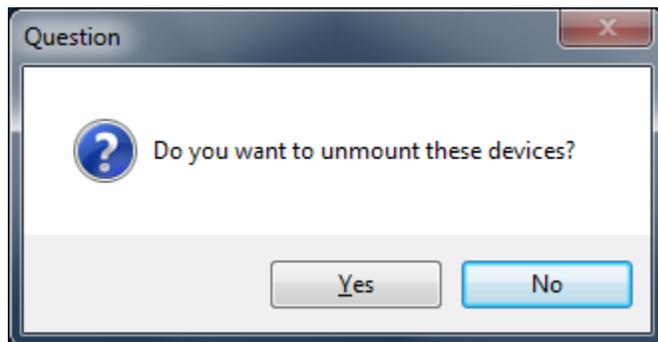


## Unmounting Virtual CD/DVD-ROM

To unmount Virtual CD/DVD-ROM, simply select drive you wish you unmount, and click on **Unmount** button located on the top menu bar.



You will be prompted with confirmation window.



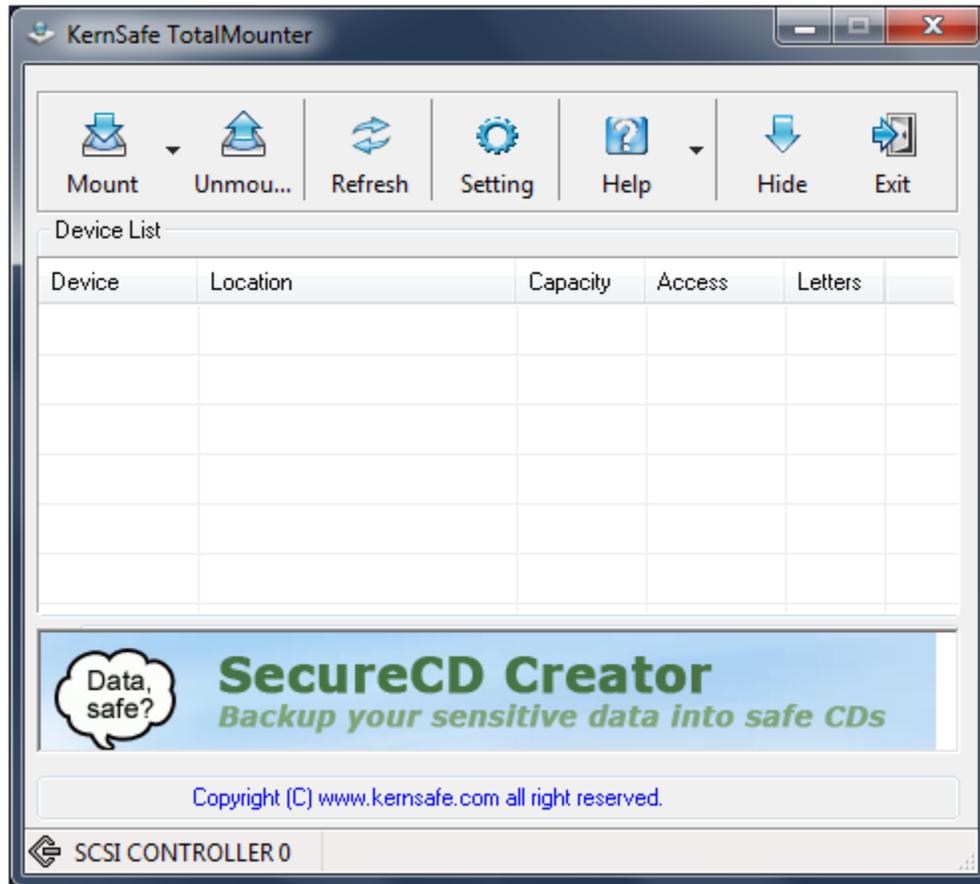
Press **Yes** button to continue.

Your drive is now successfully unmounted and does not appear in Computer window.

# Mounting Virtual CD/DVD-RW

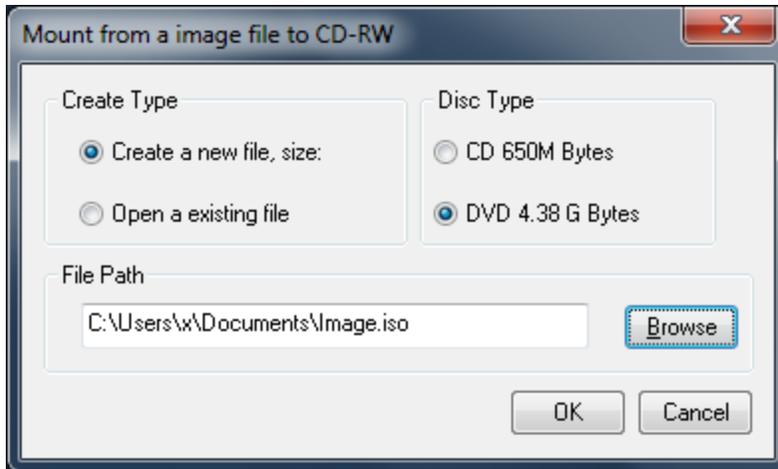
Using this option, you may mount a virtual burner that will burn all data directly to ISO file, which can be later mounted as a Virtual CD/DVD-ROM.

Open **KernSafe TotalMounter**.



Click on **Mount** button and choose **Virtual CD/DVD-RW**.

New window will appear.



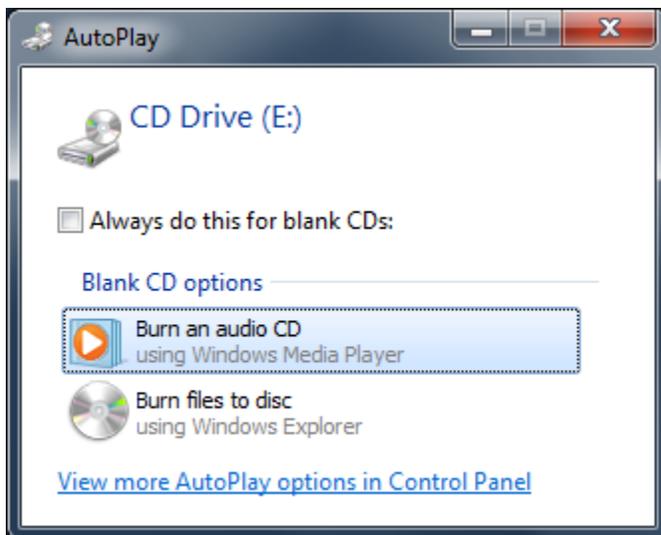
Here, please choose if you wish to create a new file or open existing one as well as if you wish to create a CD or DVD.

After making your choice, press on **Browse** button to either open or save new file.

Note:

New file is a sparse ISO file, which means it will expand along with its content. That helps to save space on HDD and allows for easier management of image files.

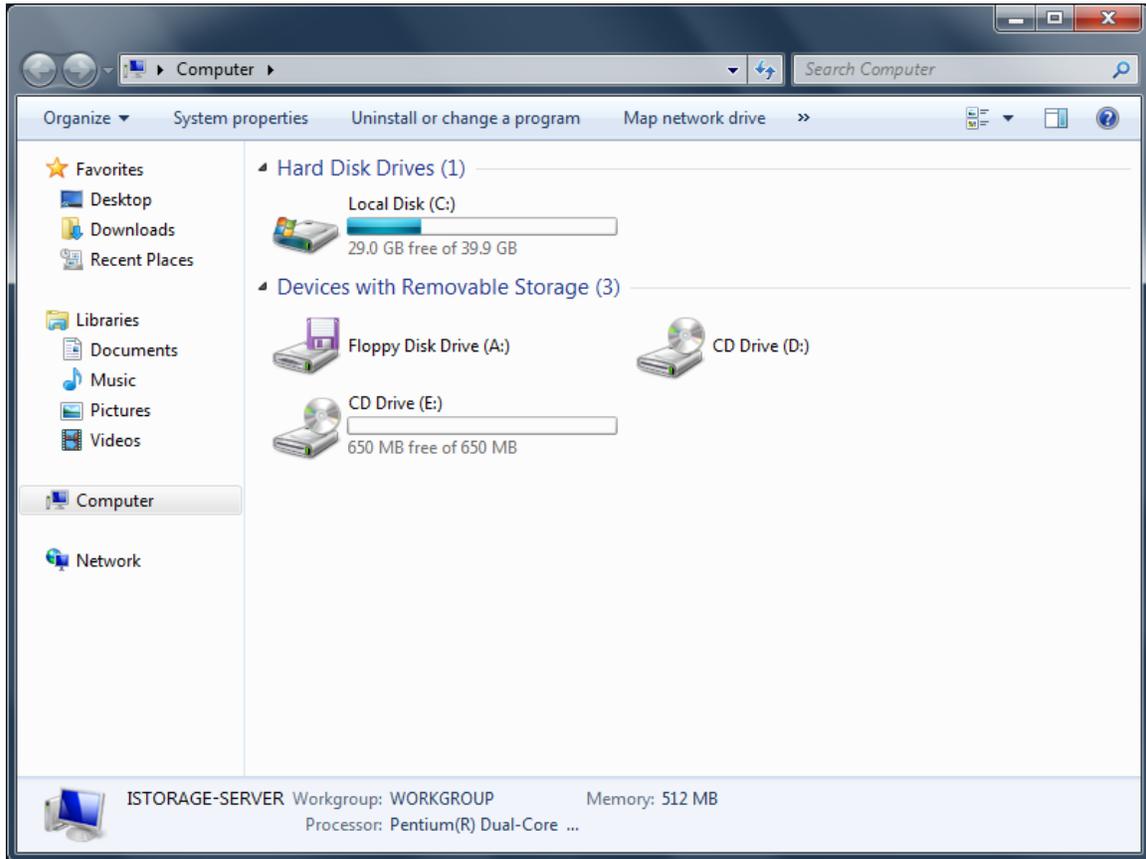
Press **Ok** button to continue.



Upon mounting new virtual CD/DVD-RW, while using Window 7, there will be a window asking what to do with new blank file. You may choose to record new files onto it by using default burning software.

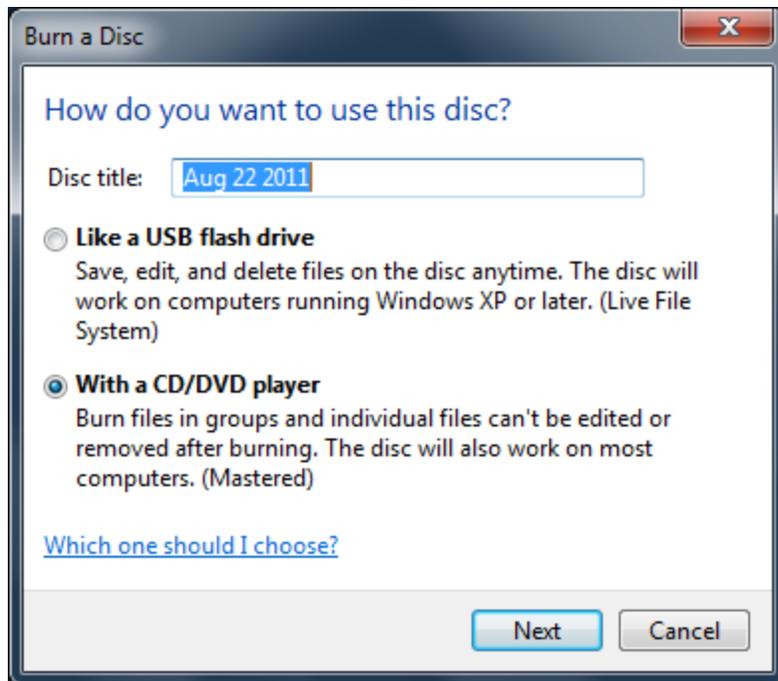
# Recording ISO file using default Windows 7 burning software

To record data onto an ISO file, you first need to mount existing file or create new one. After the process will finish, please open **Computer** window.



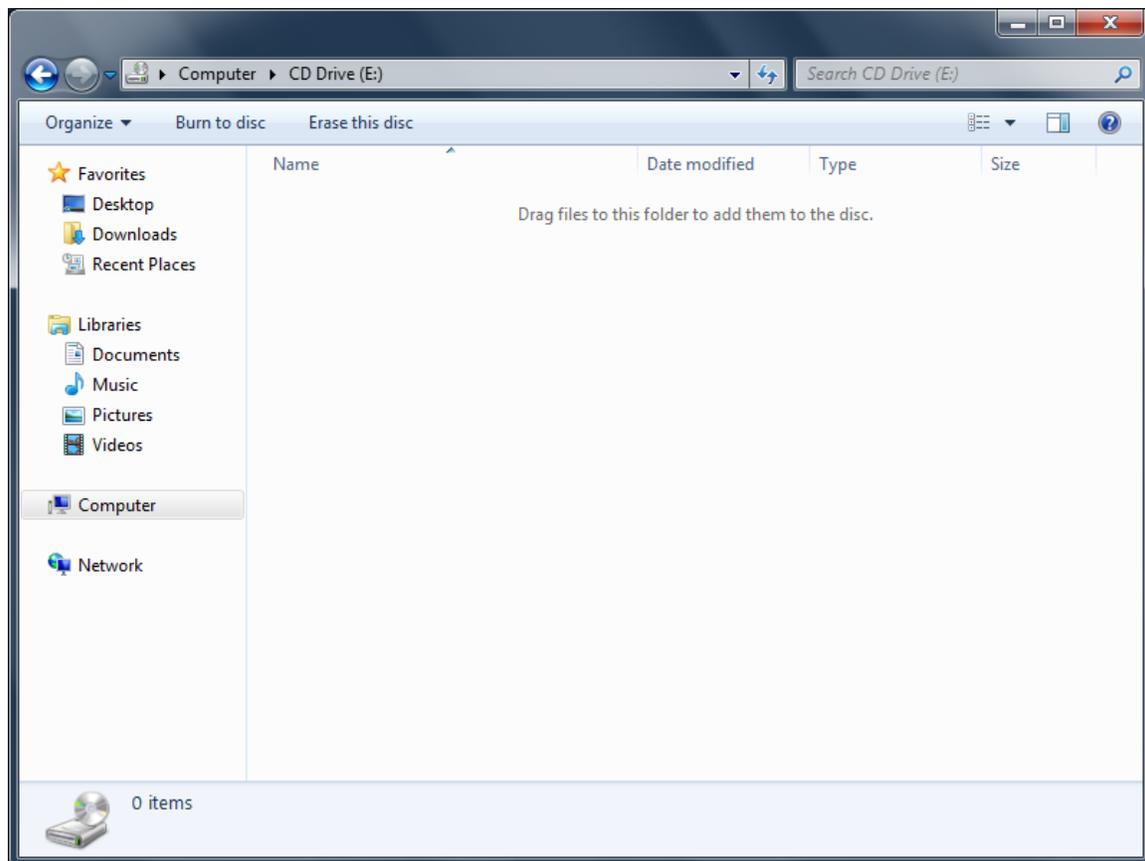
There you will see an optical drive that is waiting to be burned. **Open** it, by clicking onto it.

A **Burn a Disk** window will pop up.

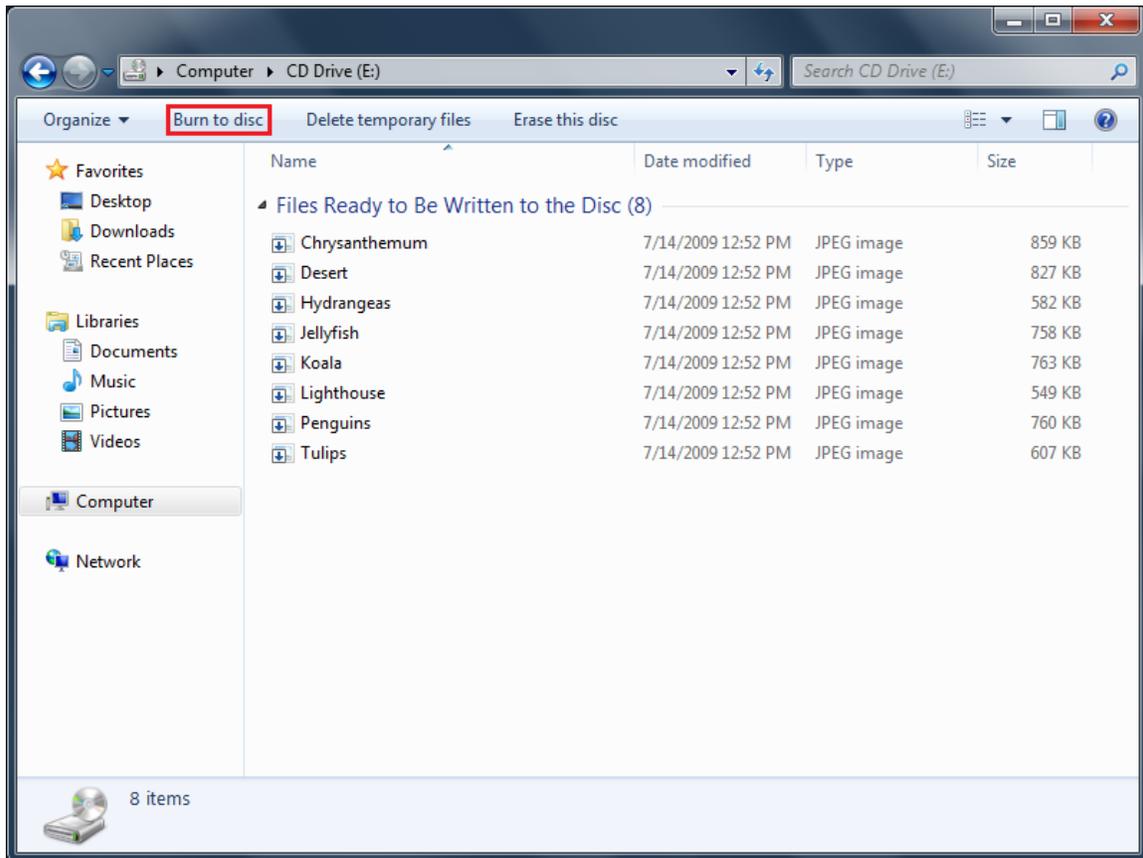


From the above, choose **With a CD/DVD player** and specify **Disk title**.

Press **Next** button to continue.

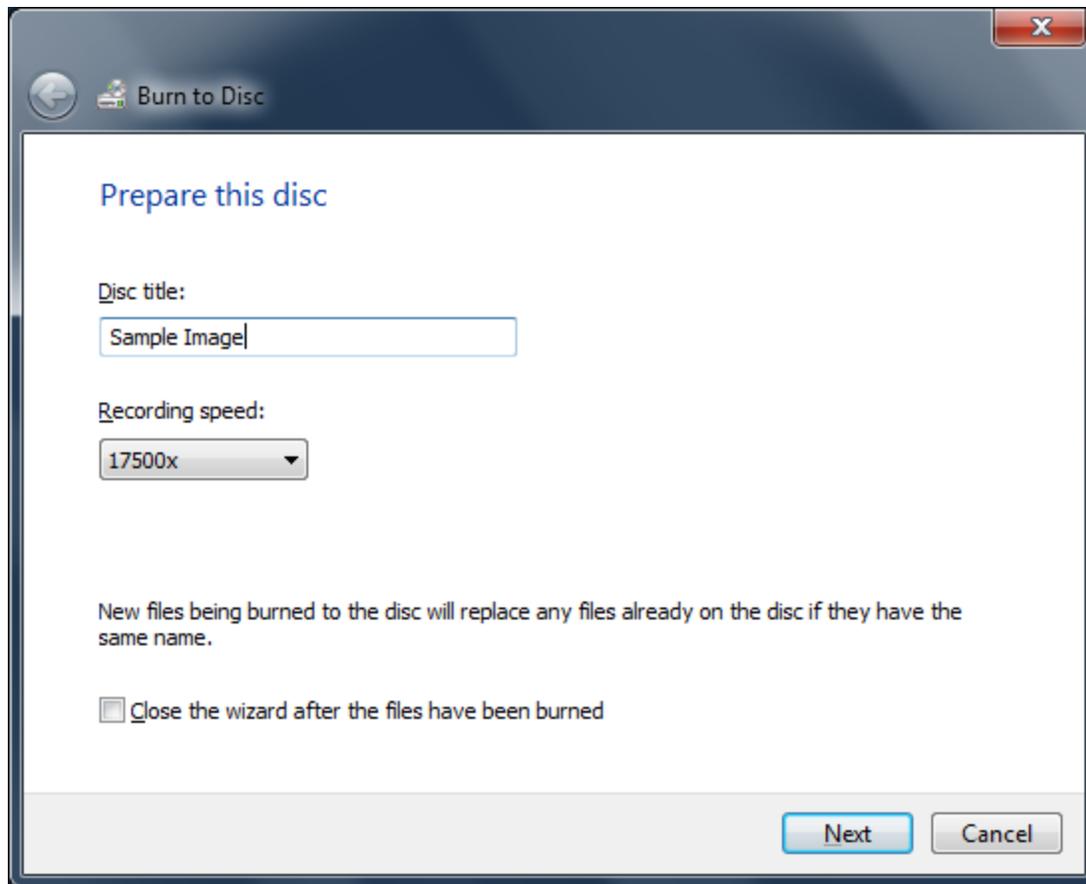


You will see an empty drive. You can drag and drop files here that you wish to burn.



After adding all files, press on **Burn to disk** button located on the top menu bar.

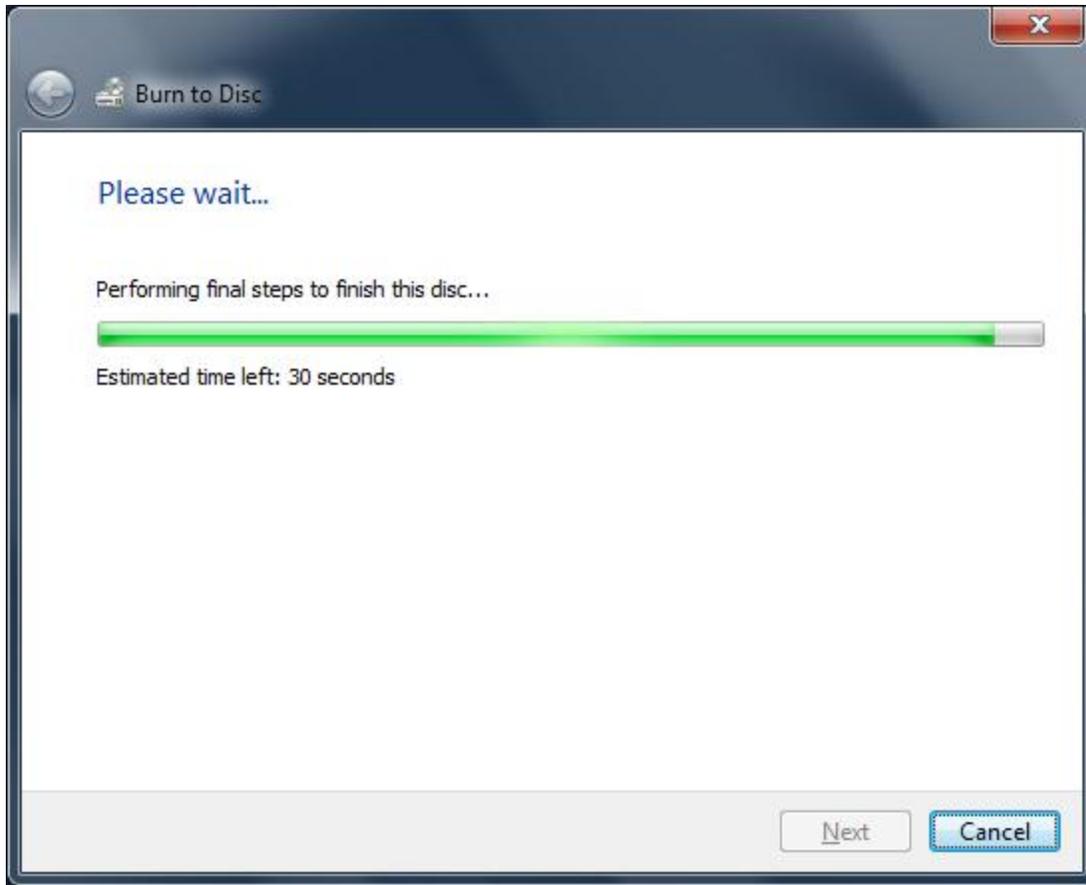
**Burn to Disk** window will appear.



Make sure that your **Disk title** is correct. Please leave recording speed as it is.

Selecting **Close the wizard after the files have been burned** will result in closing **Burn to Disc** wizard allowing you for quicker access to your files, since you don't need to close it manually.

Press **Next** button to burn data to ISO file.



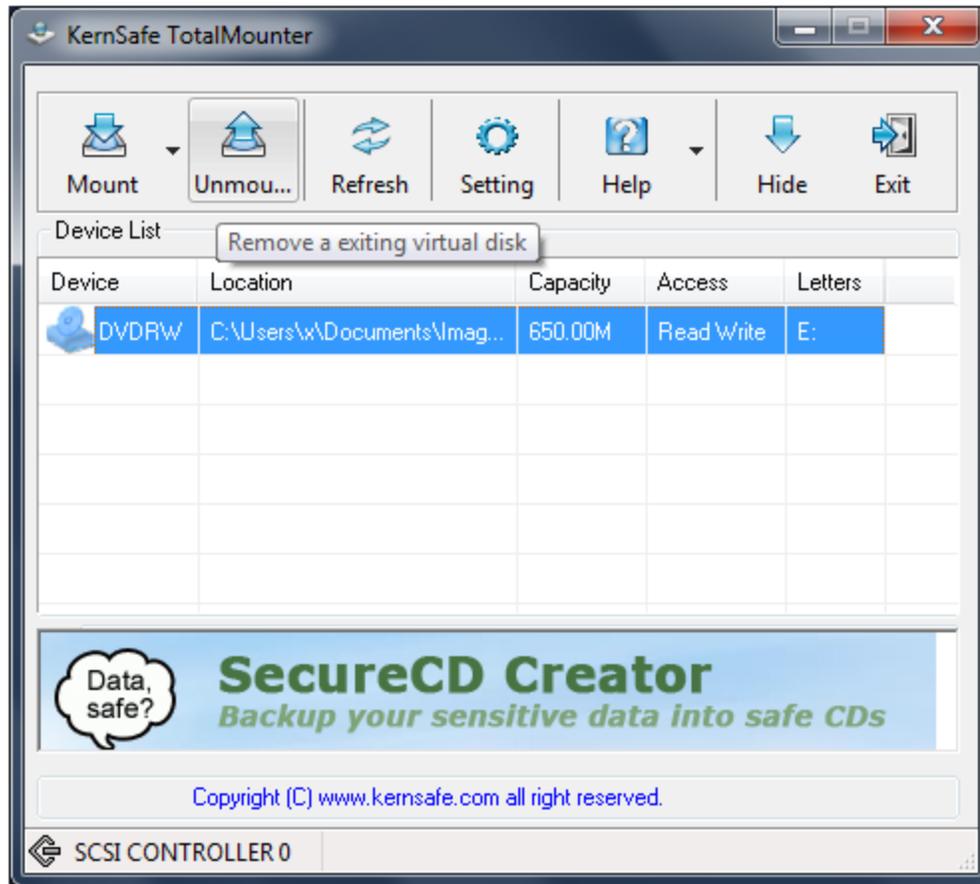
Burning process will take a couple of seconds depending on how much data you want to save to ISO file.



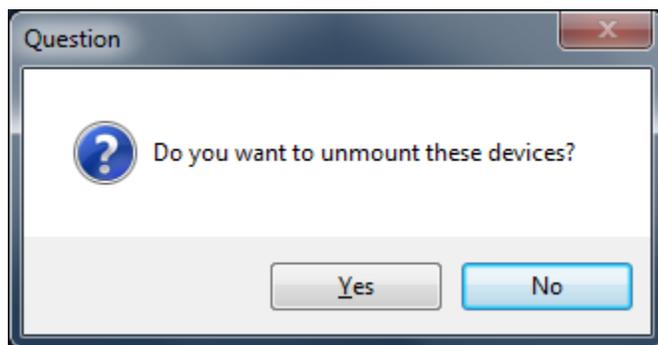
After process will finish, you may access all files from **Computer** window.

## Unmounting Virtual CD/DVD-RW

To unmount Virtual CD/DVD-RW, simply select drive you wish you unmount, and click on unmount button located on the top menu bar.



You will be prompted with confirmation window.



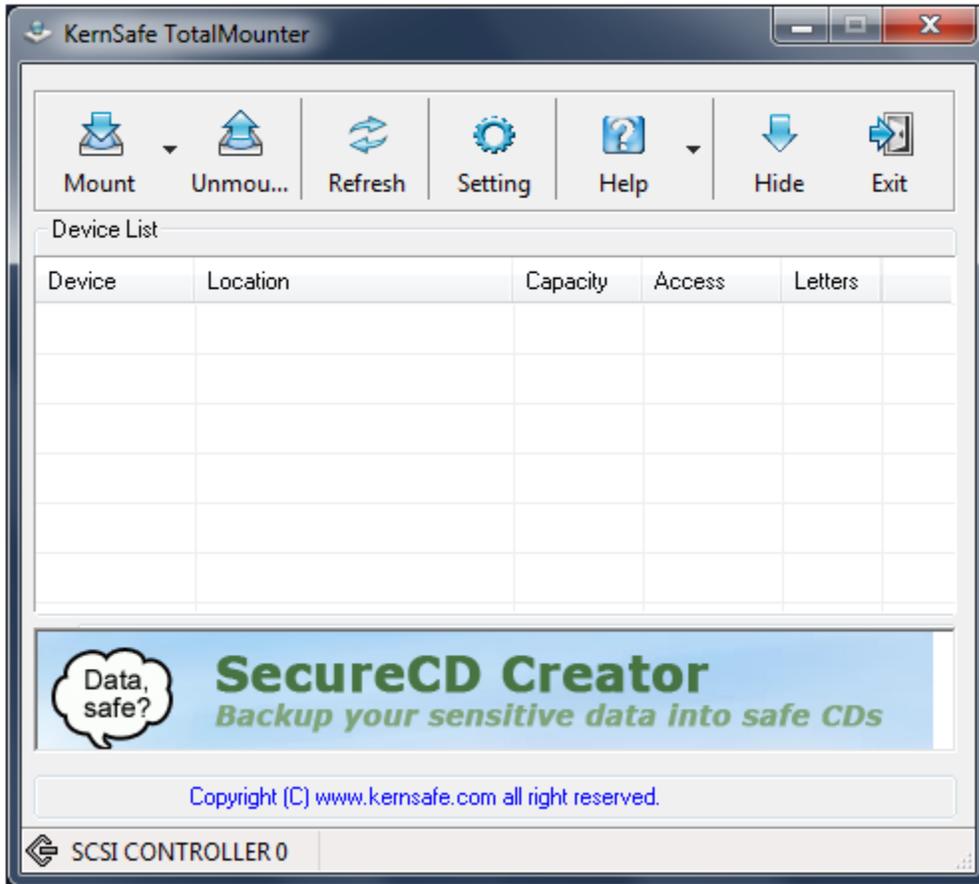
Press **Yes** button to continue.

Your drive is now successfully unmounted and does not appear in Computer window.

# Mounting Existing Virtual Disk Image

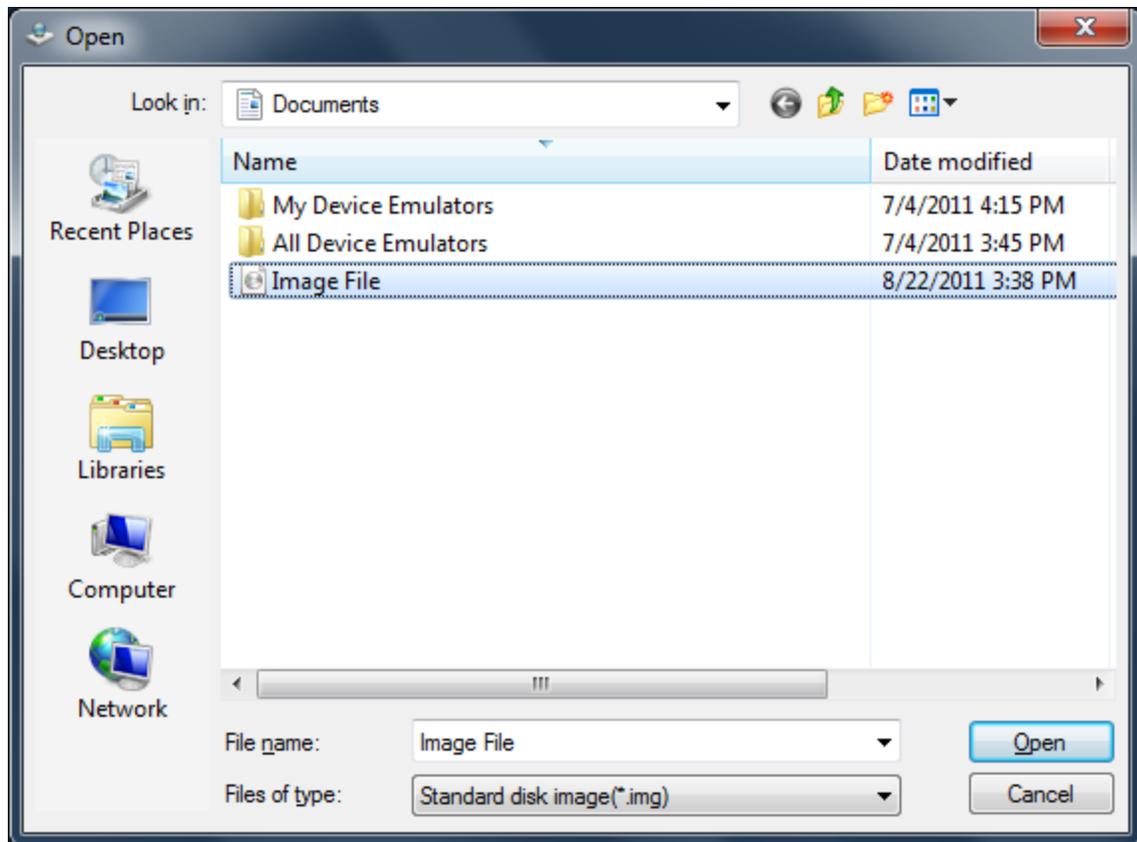
Using this feature you may mount already existing virtual disk image file (.img).

To do it, please open **KernSafe TotalMounter**.



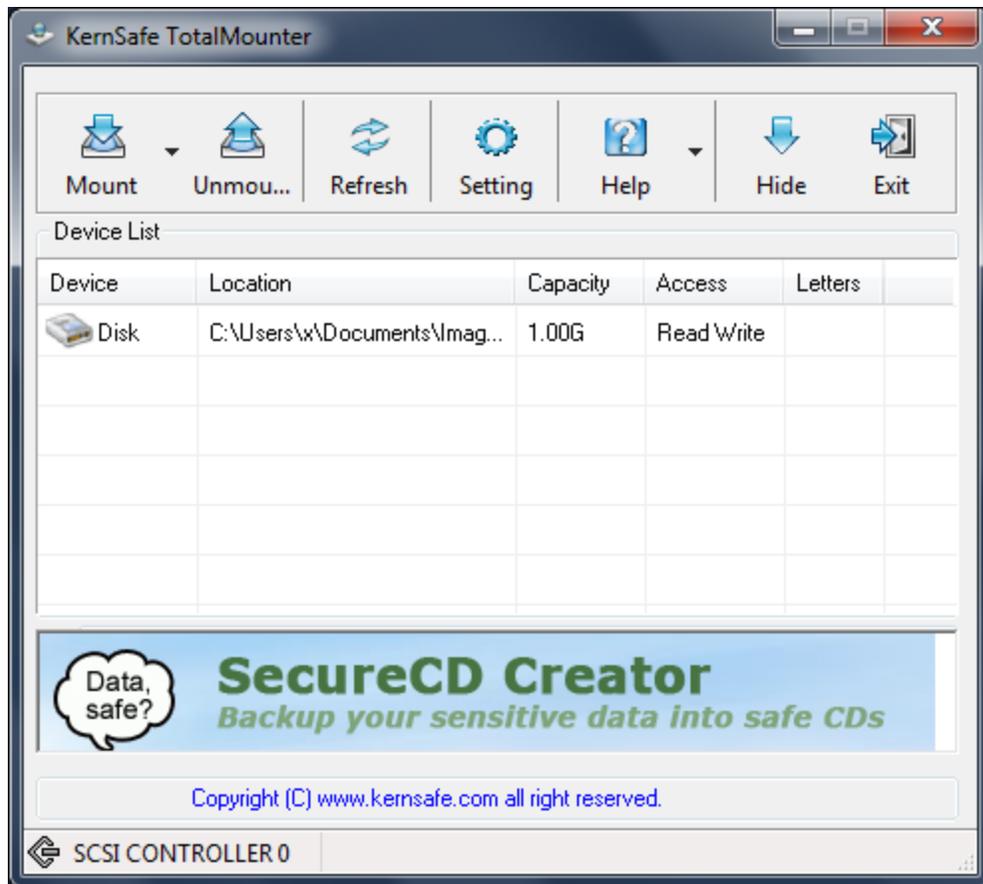
Click on **Mount** button and choose **Existing Virtual Disk Image**.

New window will appear.

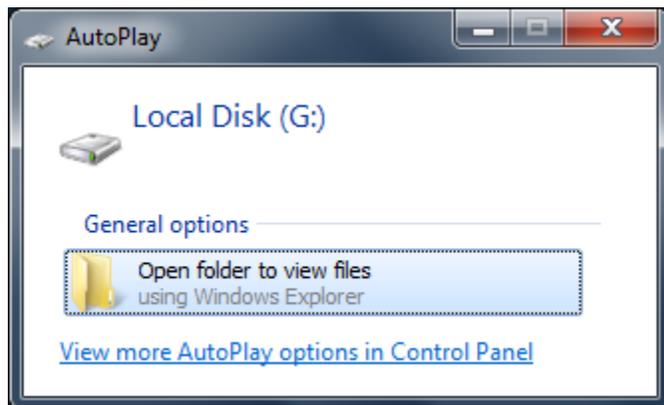


Here, specify which image file you wish to mount and press **Open** button.

Your file will be mounted.



You will notice that system detected new disk and you may access it from **Computer** window.



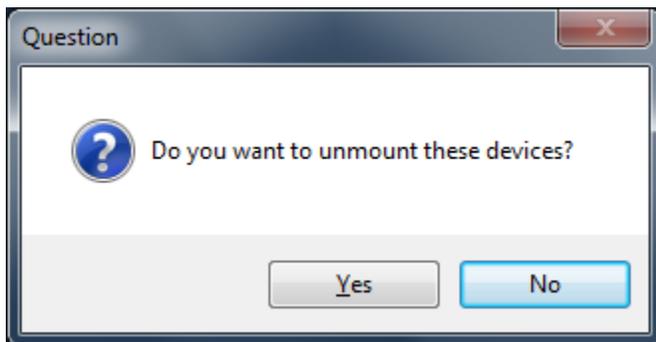
You may use it now just like normal hard disk.

## Unmounting Existing Virtual Disk Image

To unmount Existing Virtual Disk Image click on drive you wish to unmount and press on the unmount button.



You will be prompted with confirmation window.



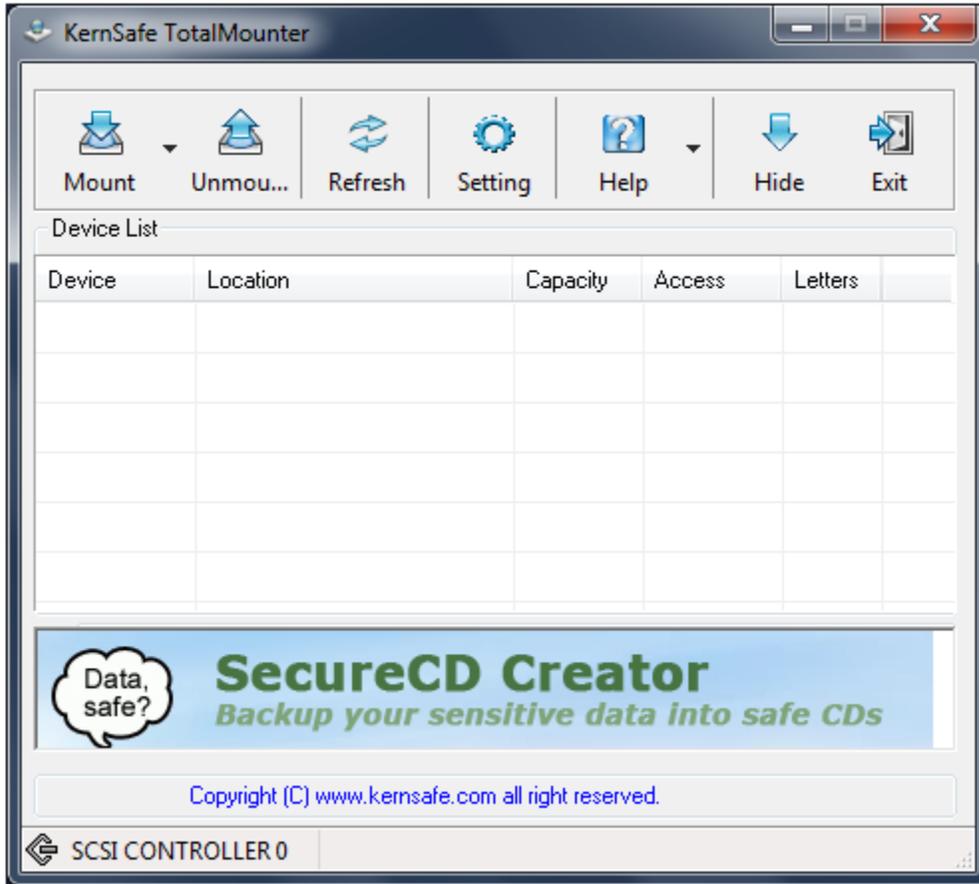
Press **Yes** button to continue.

Your drive is now successfully unmounted and does not appear in Computer window.

## Creating New Virtual Disk Image

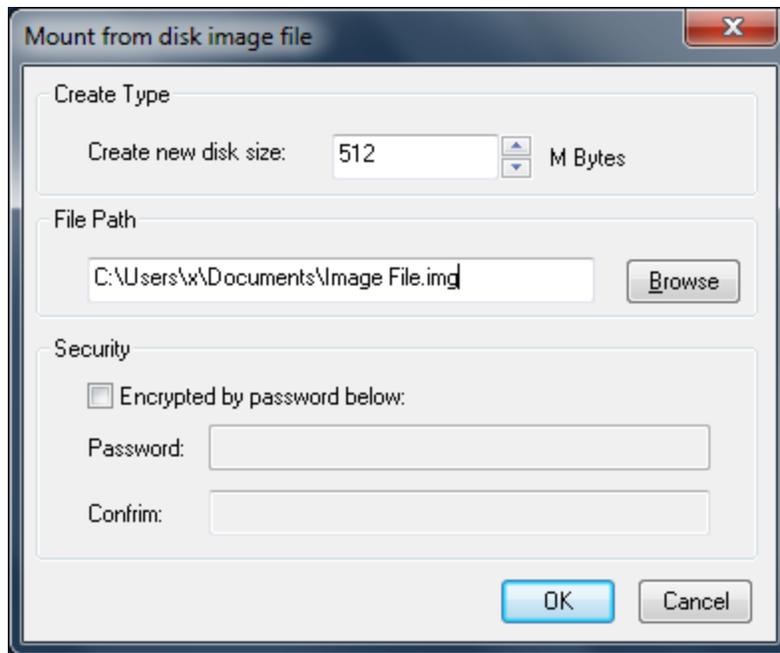
Creating new virtual disk image is very useful if you wish to store big amount of data in just one file. Such file can be also encrypted to assure higher security.

To do it, please open **KernSafe TotalMounter**.



Click on **Mount** button and choose **Create a New Virtual Disk Image**.

New window will appear.

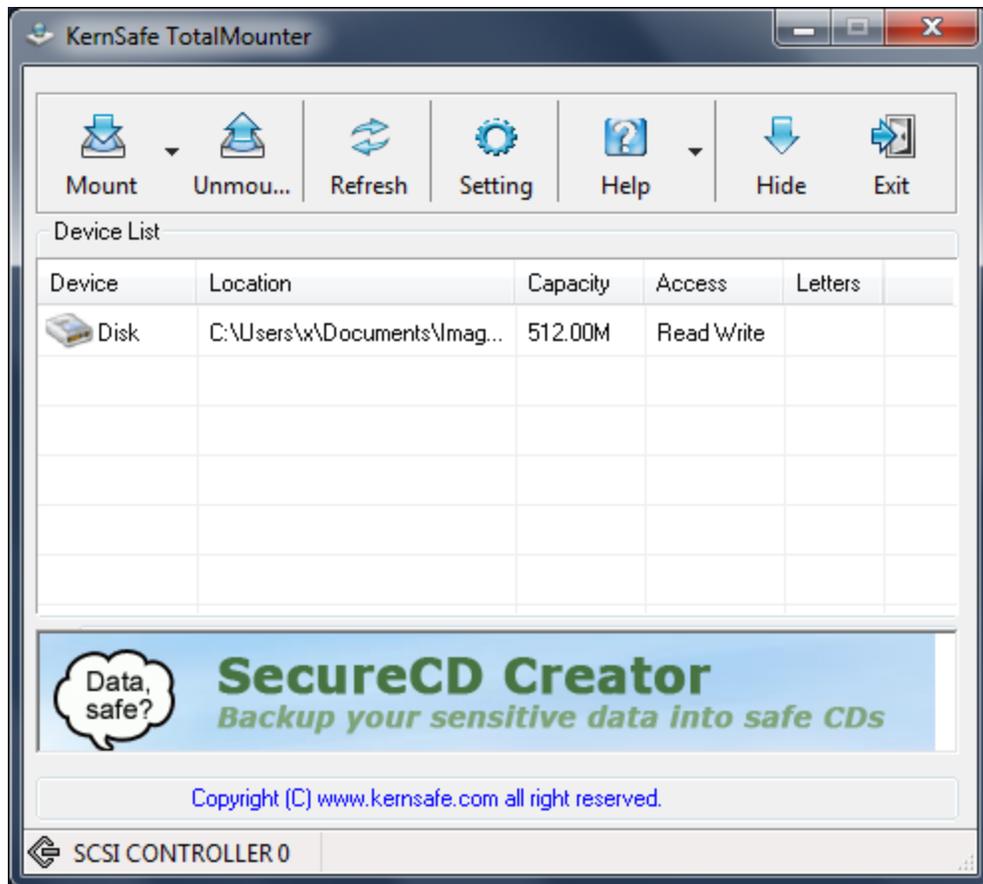


Here please choose size of your new image file (in MB), as well as path where you wish to save file.

You may also choose to encrypt that file by ticking **Encrypt by password below** checkbox. Then please choose password you wish you use and type it in both fields.

Press **OK** button to continue.

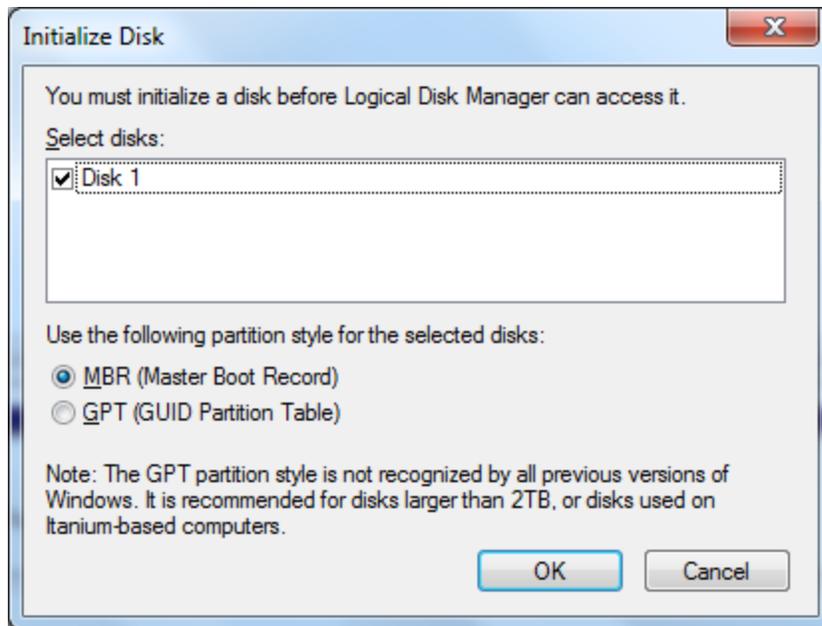
Your new disk image file has been mounted.



Now you will need to initialize and format your new drive.

Please open **Disk Management** by opening **Control Panel** → **Administrative Tools** → **Computer Management** → **Disk Management**

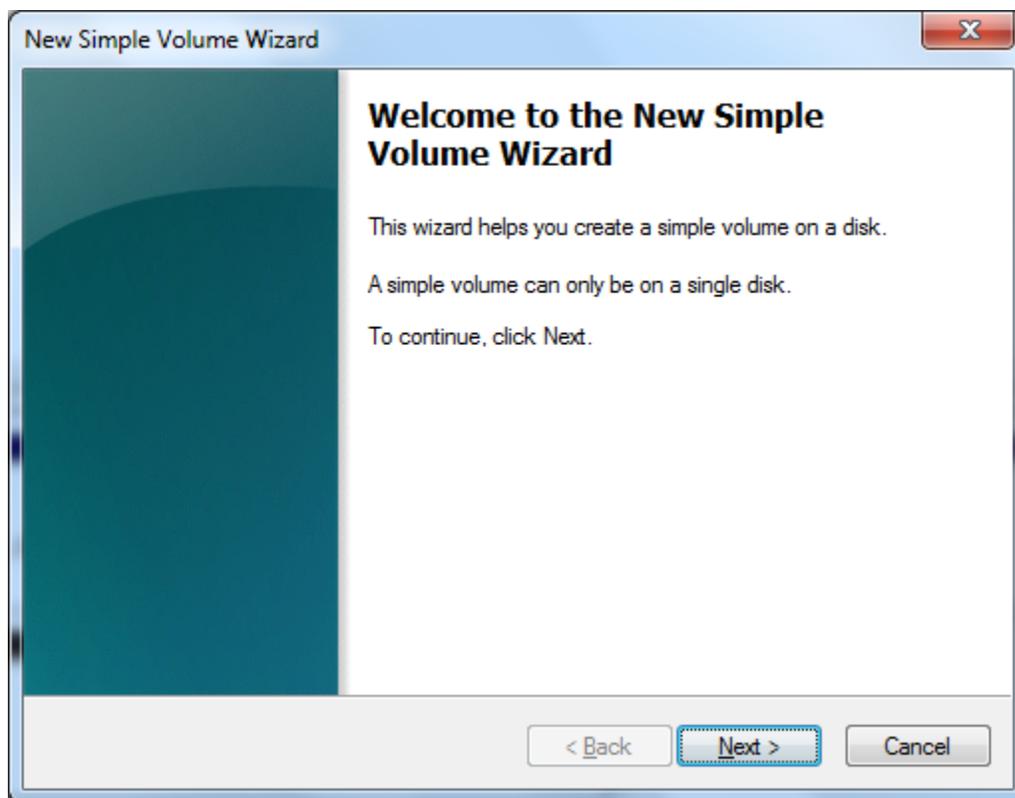
When you will open it, there will be an **Initialize Disk** window.



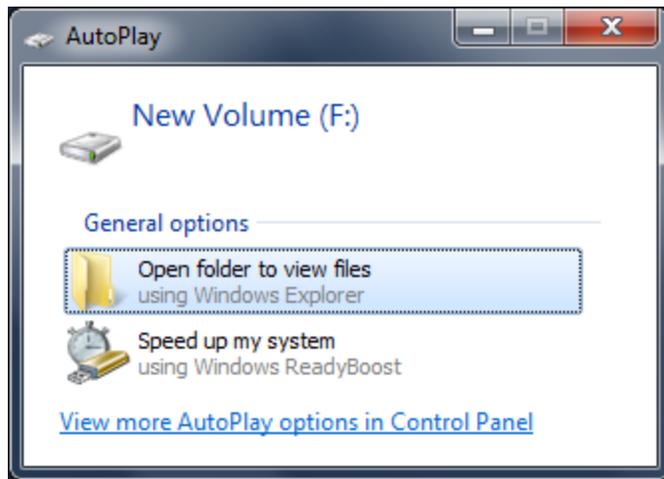
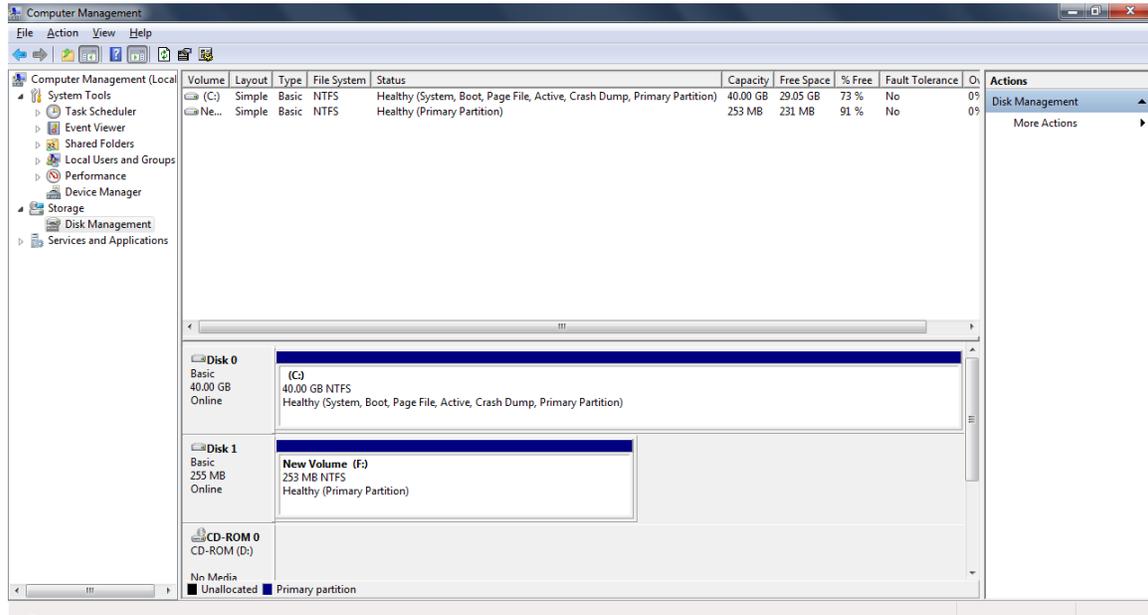
Click **OK** button to continue.

Afterwards press **Right Mouse** button on your new disk and select **New Simple Volume**.

Wizard will appear that will guide you through the whole process.



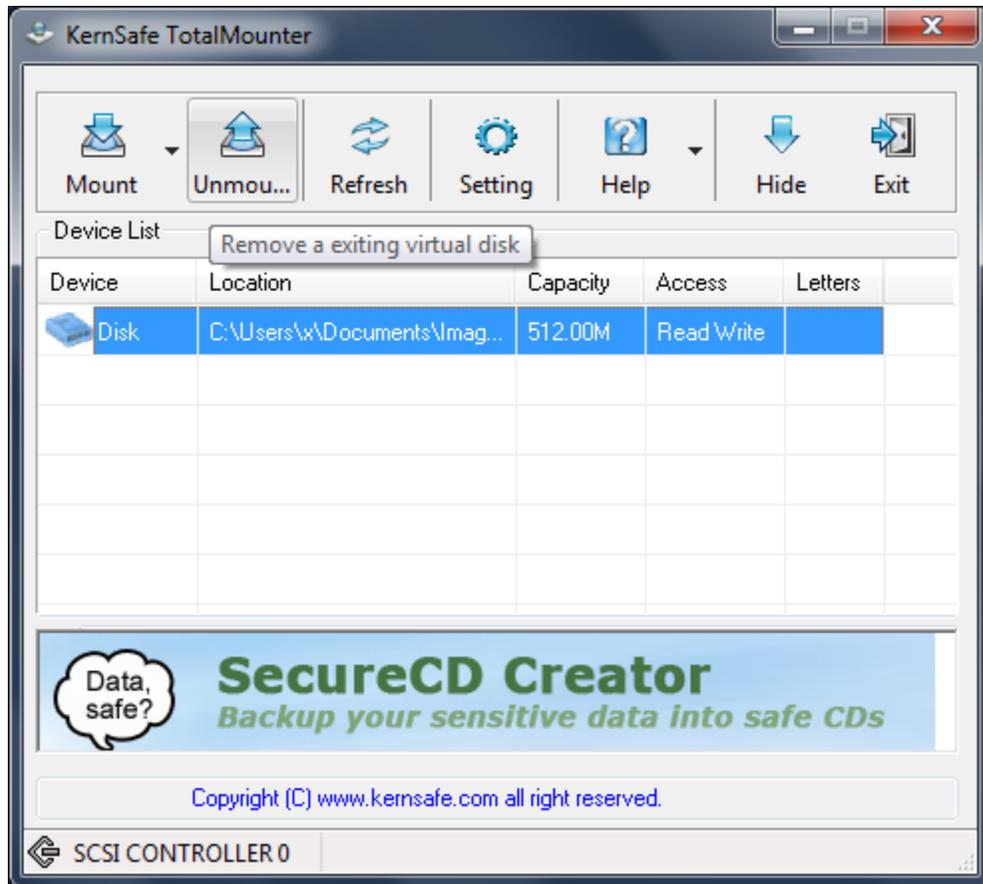
After wizard will finish, and formatting process will end, you will be able to access your new drive.



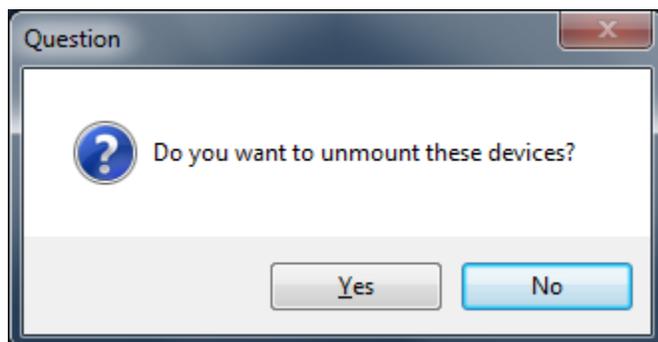
You may now access your new drive from **Computer** window.

## Unmounting New Virtual Disk Image

To unmount New Virtual Disk Image click on drive you wish to unmount and press on the unmount button.



You will be prompted with confirmation window.



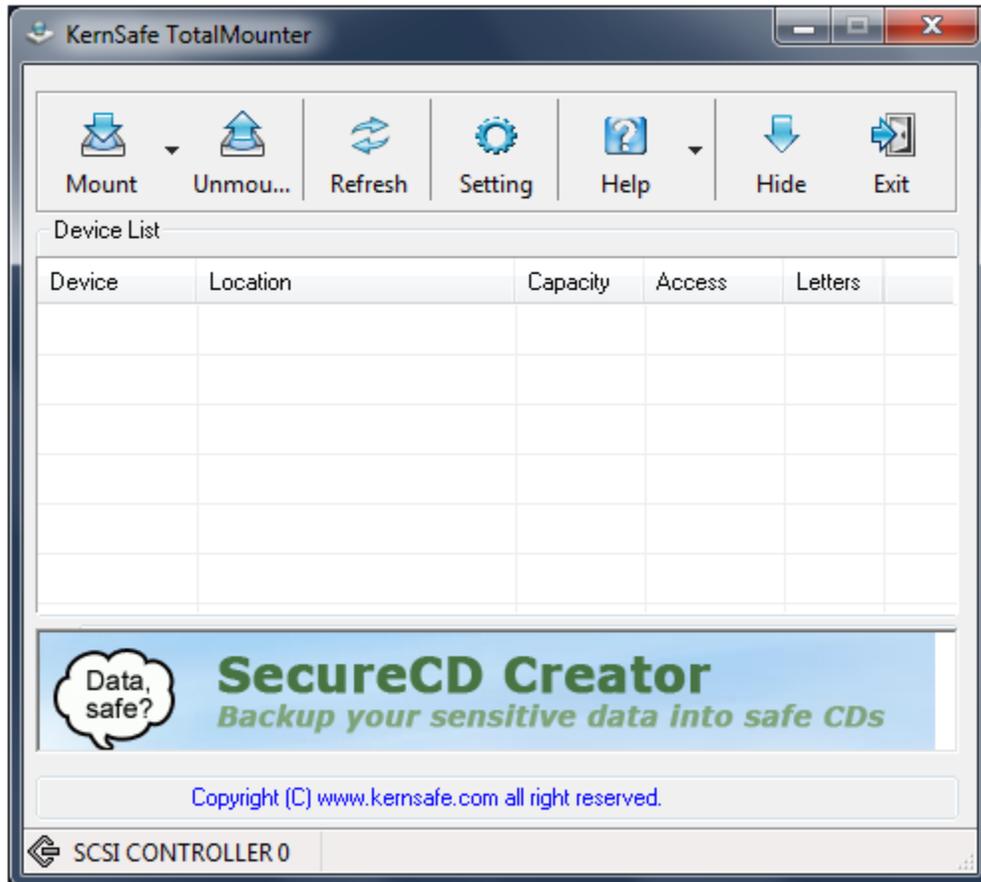
Press **Yes** button to continue.

Your drive is now successfully unmounted and does not appear in Computer window.

# Mounting Existing VHD file

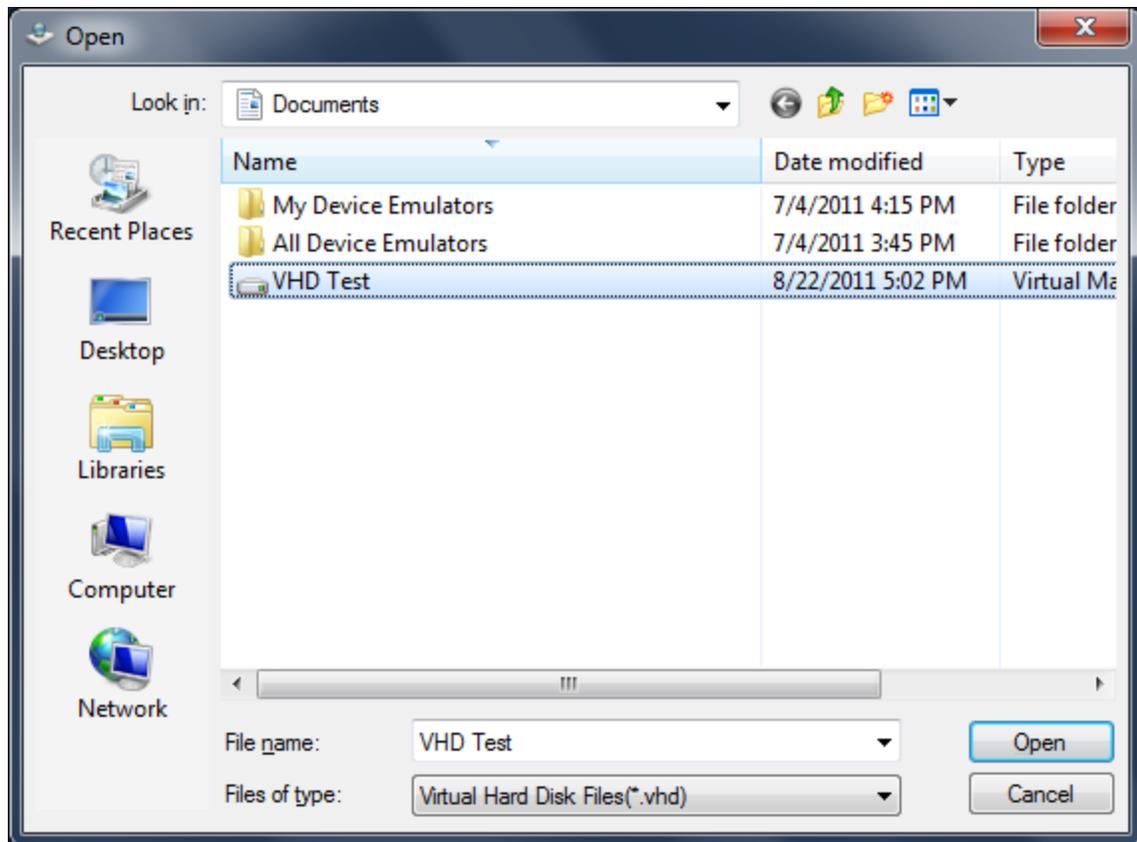
Mounting VHD file is very handy since you can use it in exact same way as you use normal HDD, that is format or partition it.

To do it, please open **KernSafe TotalMounter**.

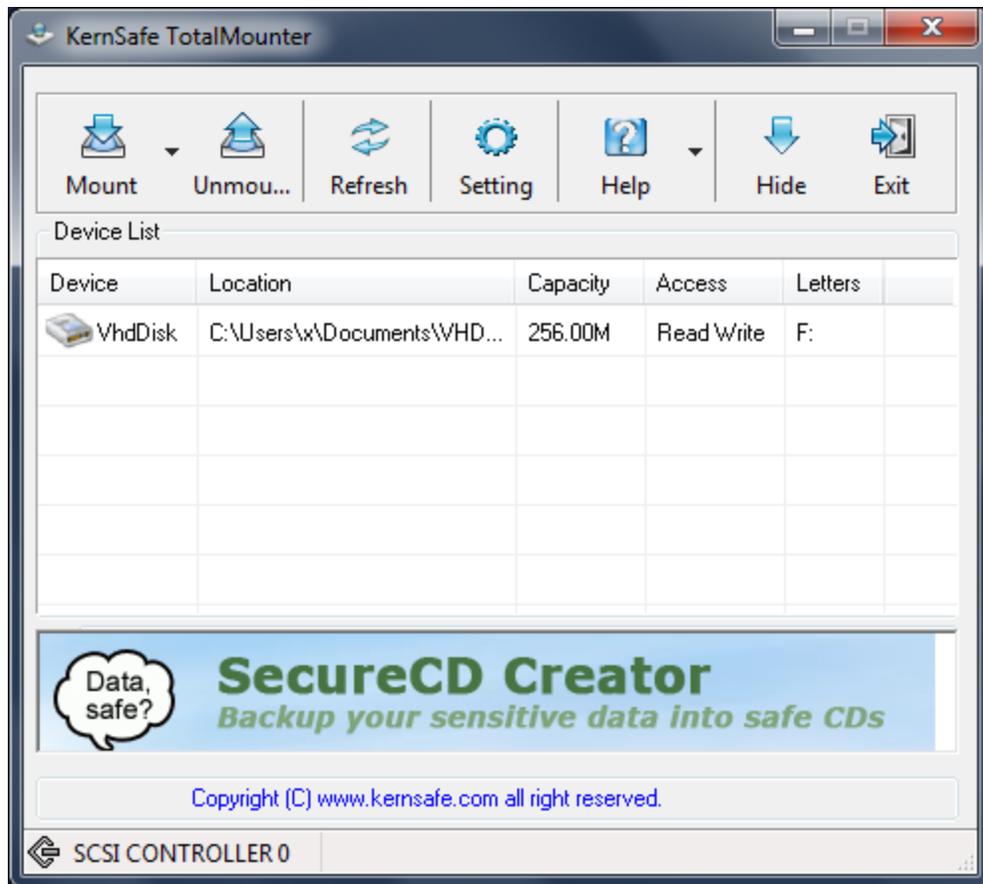


Click on **Mount** button and choose **Existing VHD file**.

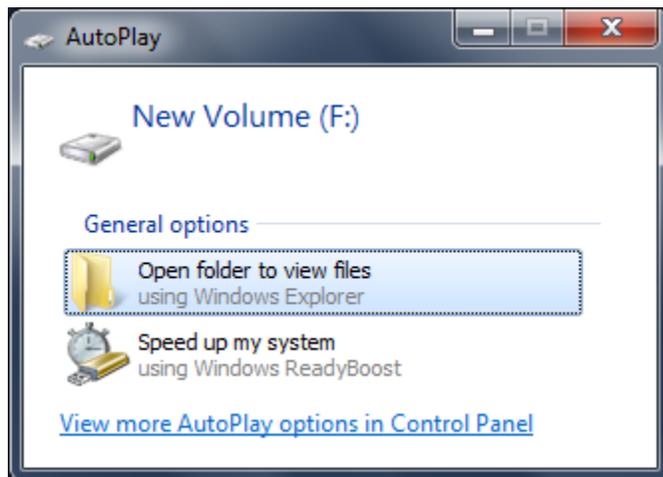
New window will appear.



Specify where is yours VHD file, and press **Open** button to continue.

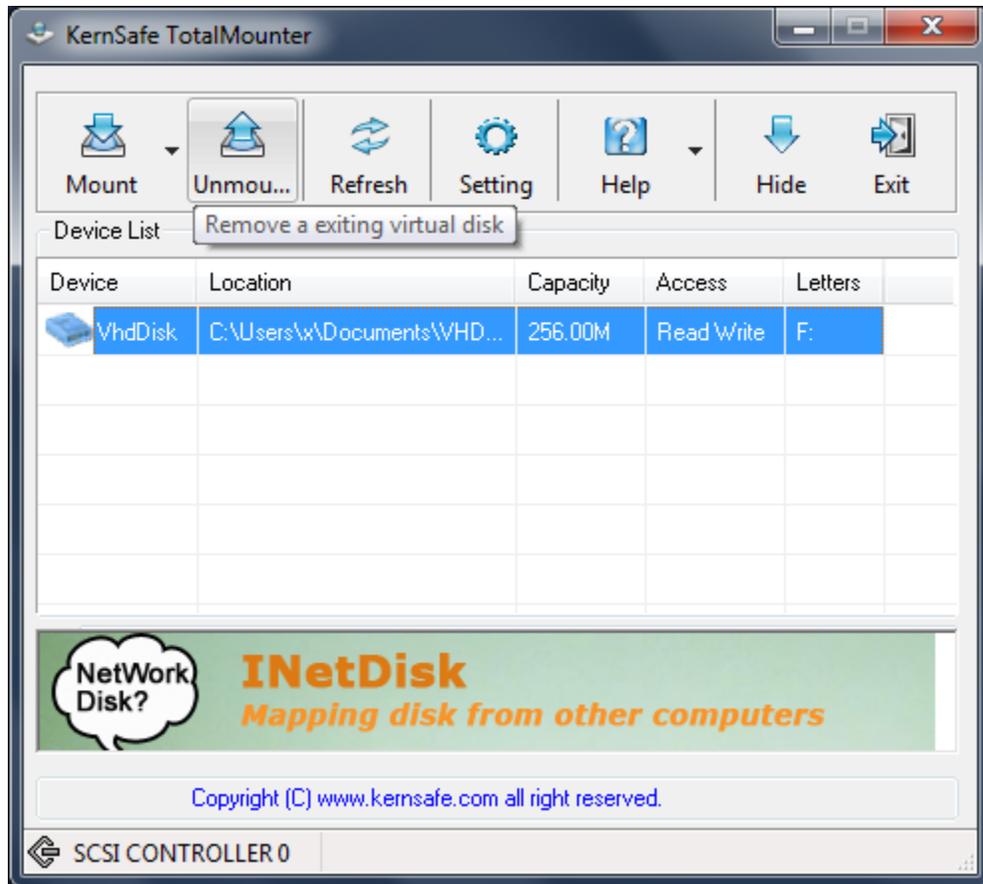


Now your file is mounted and you can access it from **Computer** window.

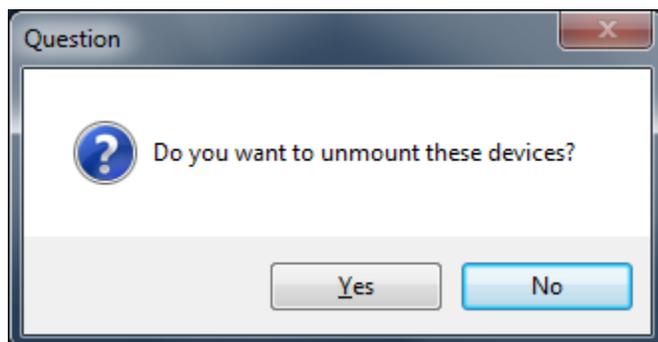


## Unmounting Existing VHD file

To unmount Existing VHD file click on drive you wish to unmount and press on the unmount button.



You will be prompted with confirmation window.



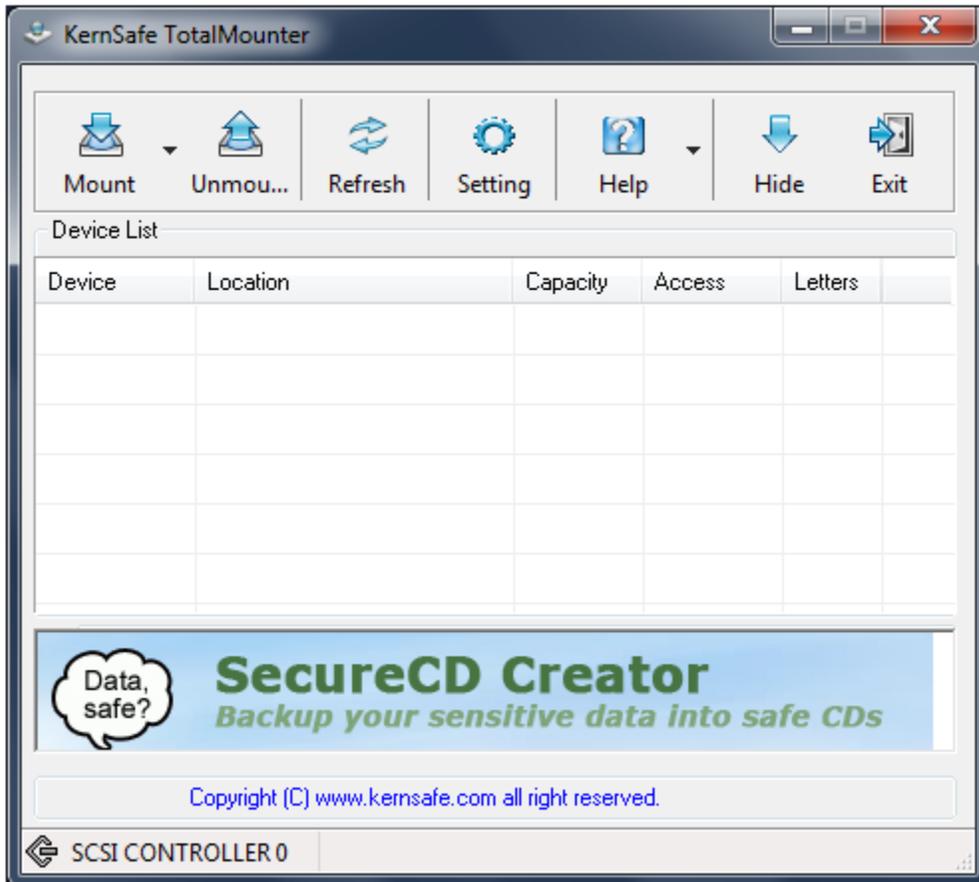
Press **Yes** button to continue.

Your drive is now successfully unmounted and does not appear in Computer window.

# Creating New VHD File

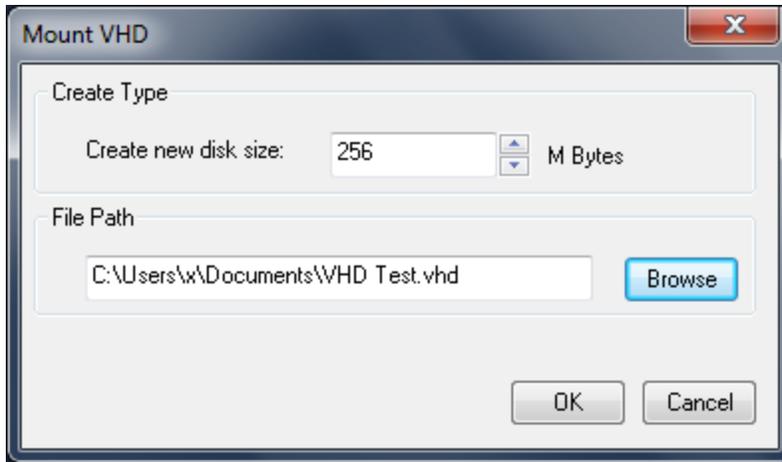
This function allows you to easily create new VHD file that can be then partitioned and formatted as you like.

To do it, please open **KernSafe TotalMounter**.



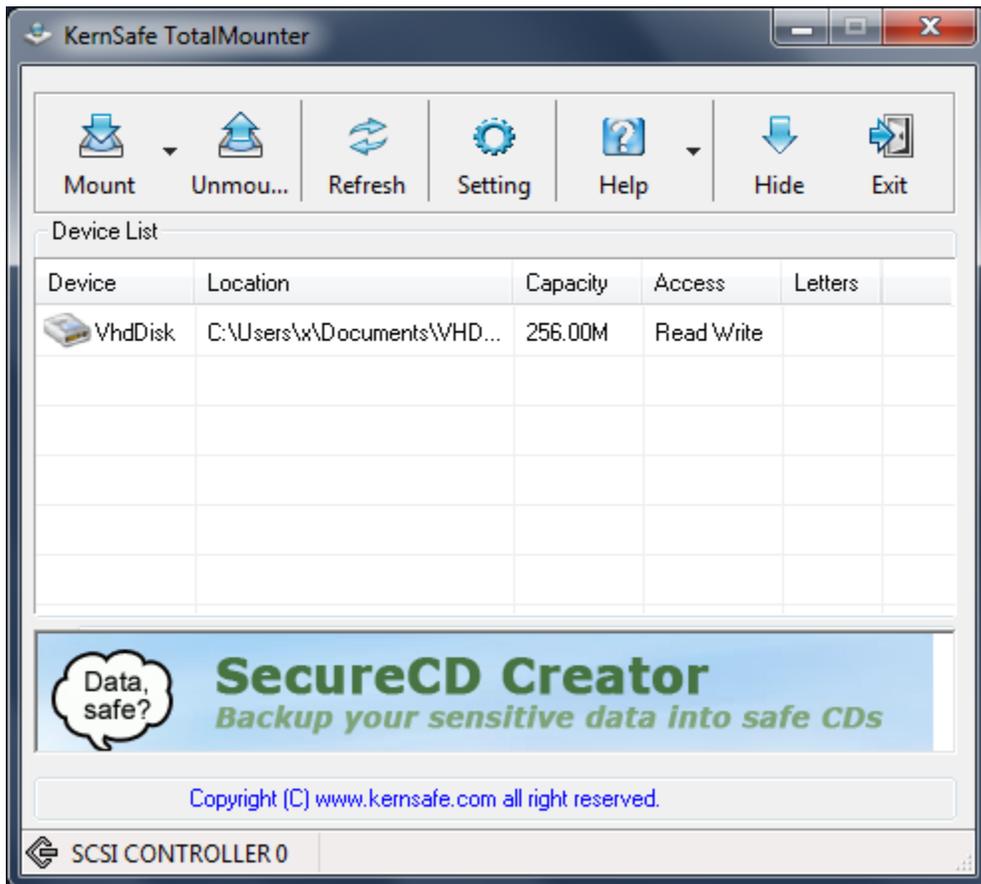
Click on **Mount** button and choose **Creating a New VHD File**.

New window will appear.



Here please specify size of your disk (MB), and file path where you wish to save it.

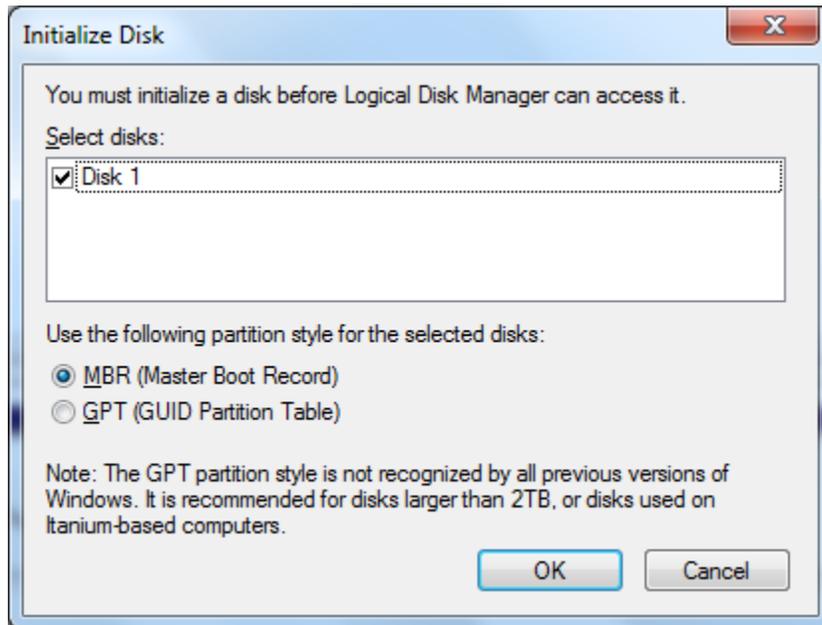
Press **OK** button to continue.



After mounting your new VHD, you need to initialize and format it.

Please open **Disk Management** by opening **Control Panel** → **Administrative Tools** → **Computer Management** → **Disk Management**

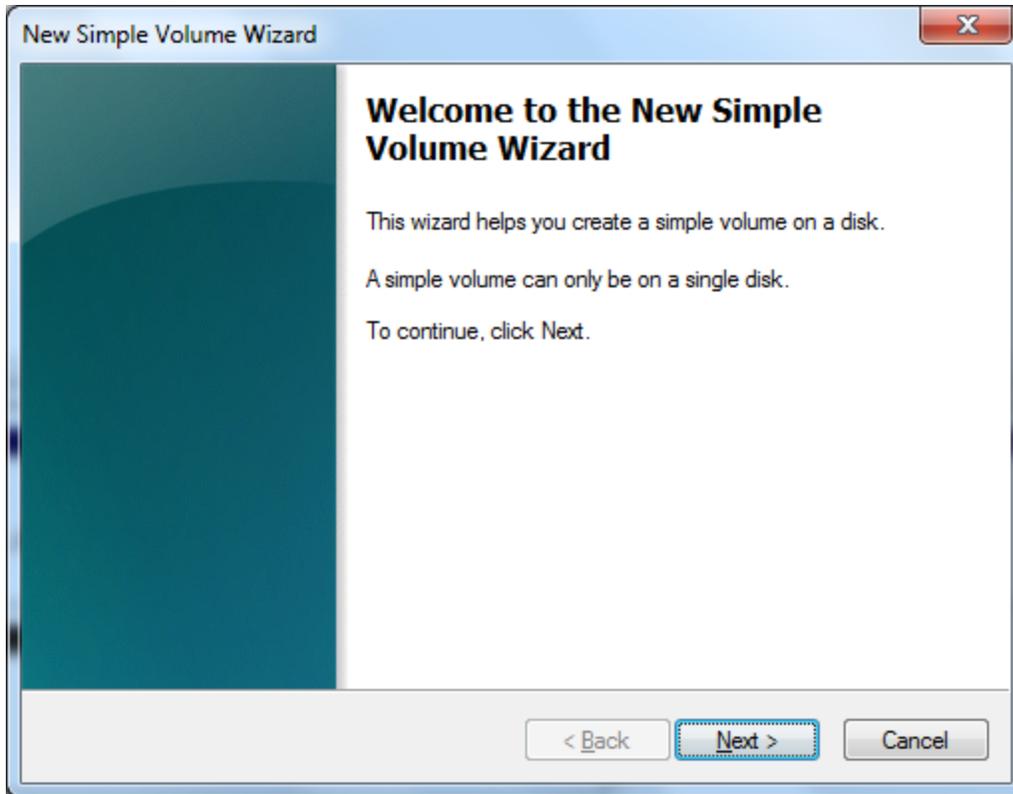
When you will open it, there will be an **Initialize Disk** window.



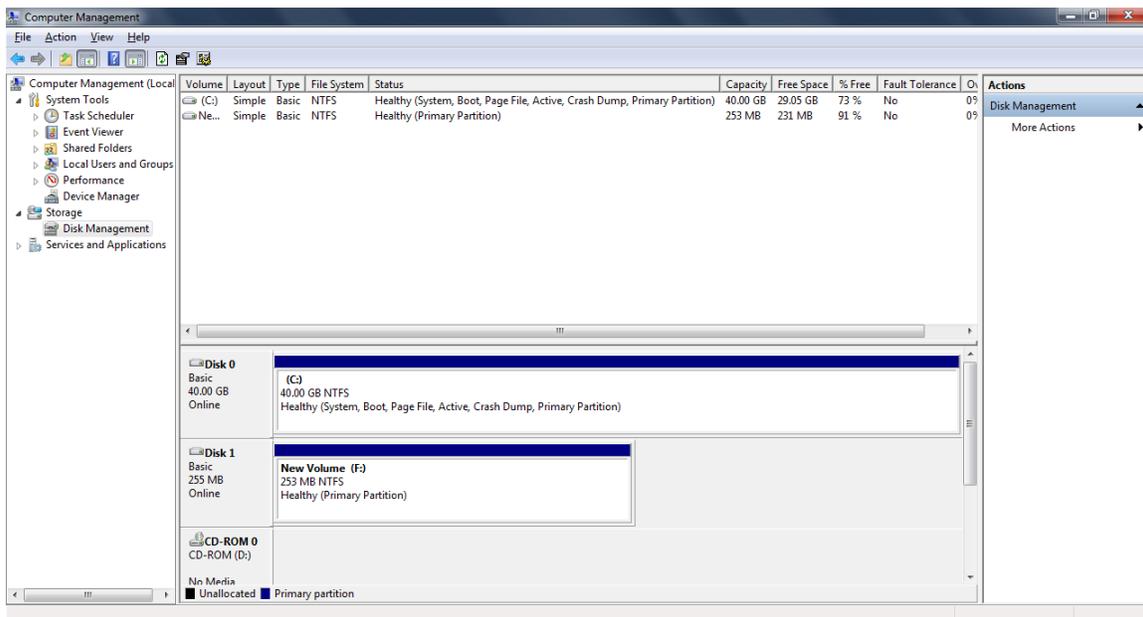
Click **OK** button to continue.

Afterwards press **Right Mouse** button on your new disk and select **New Simple Volume**.

Wizard will appear that will guide you through the whole process.



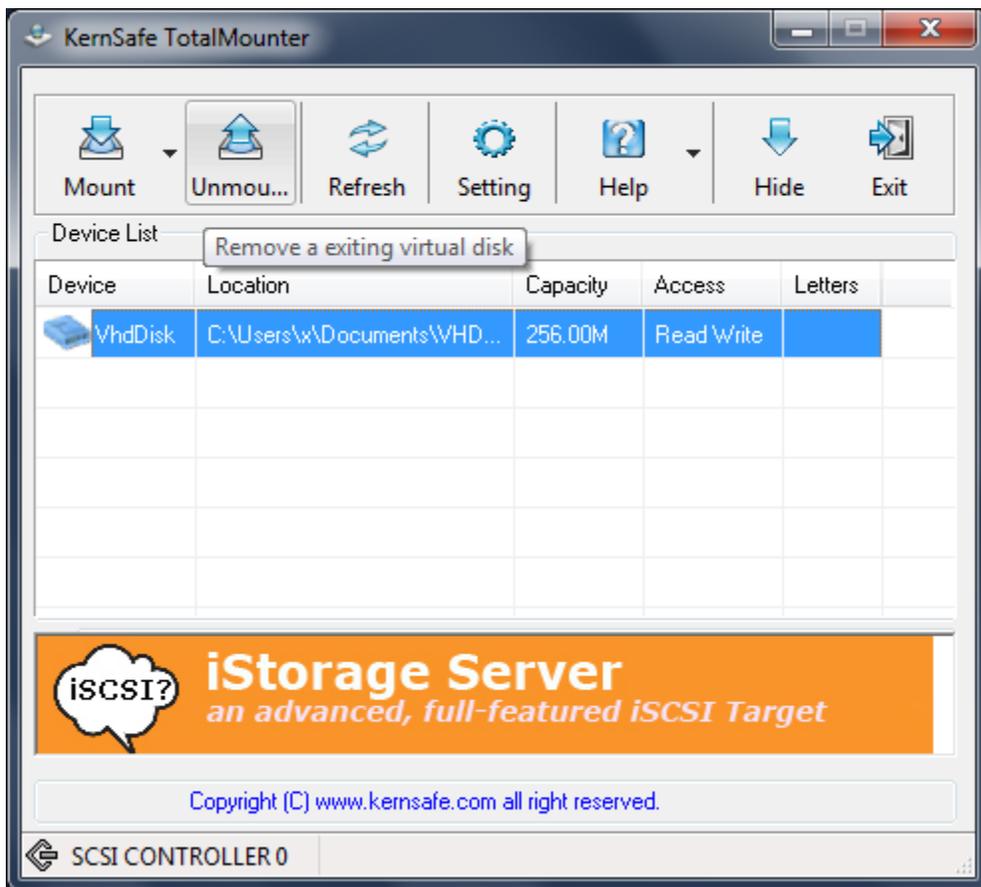
After wizard will finish, and formatting process will end, you will be able to access your new drive.



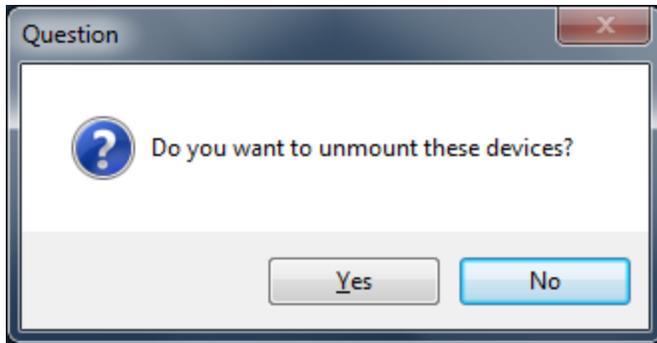


## Unmounting New VHD File

To unmount New VHD file click on drive you wish to unmount and press on the unmount button.



You will be prompted with confirmation window.



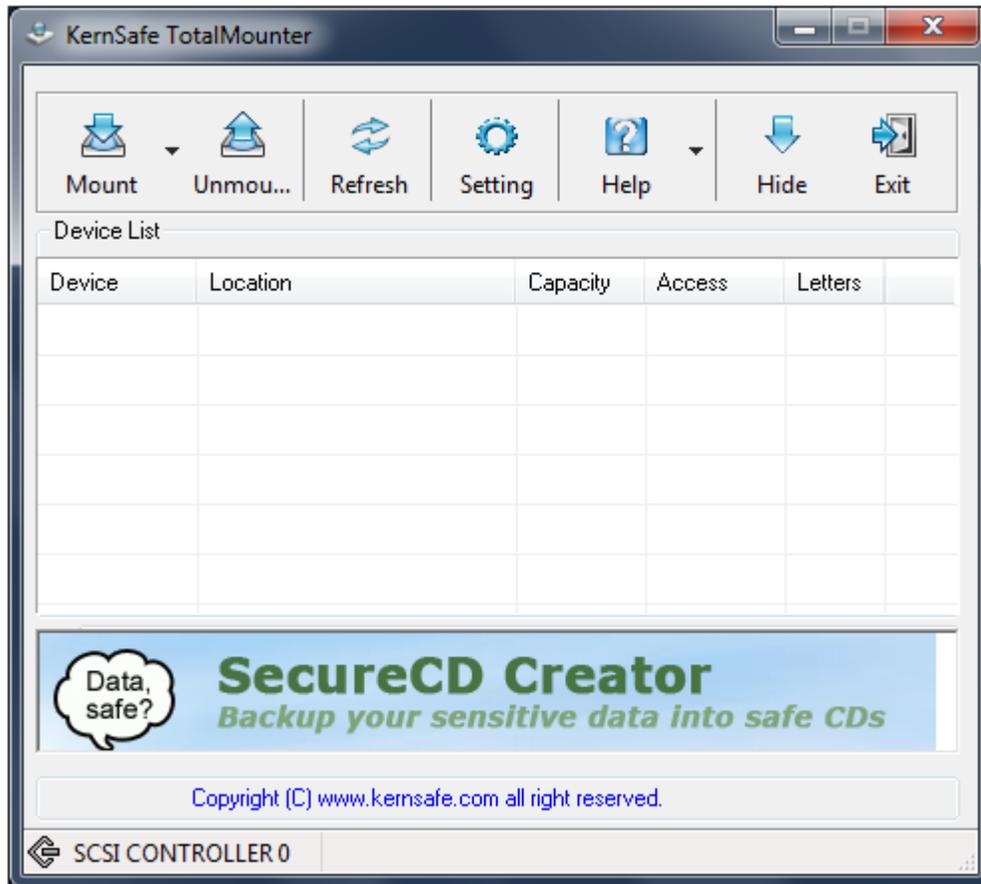
Press **Yes** button to continue.

Your drive is now successfully unmounted and does not appear in Computer window.

## iSCSI Initiator

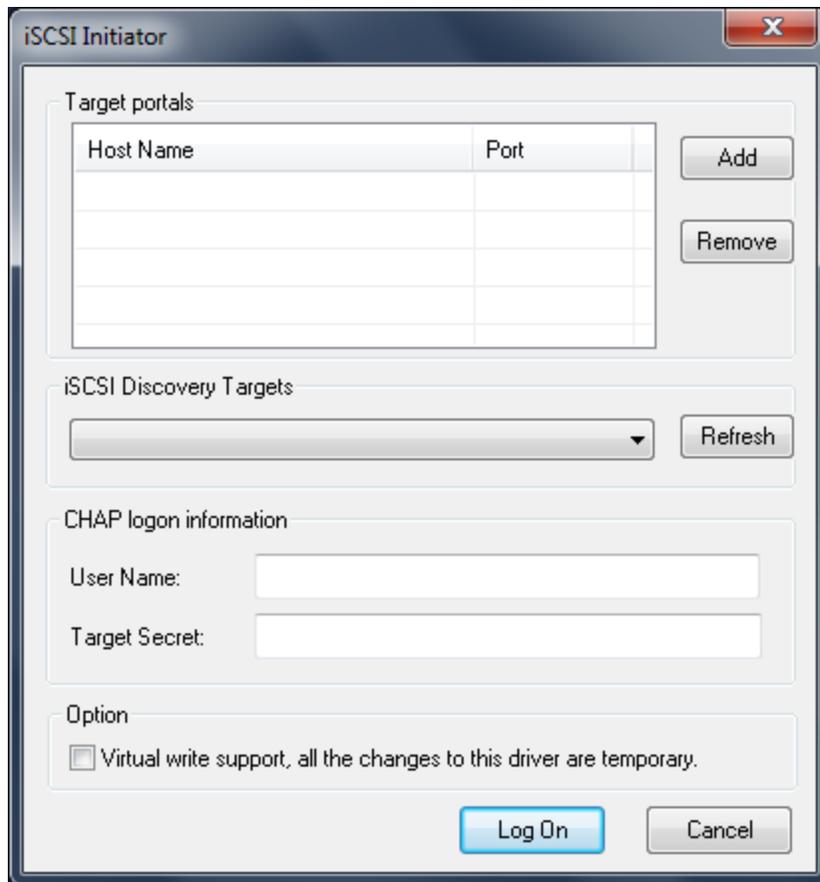
iSCSI initiator is a very useful feature of TotalMounter that allows you to connect to iSCSI Targets created by, for example, iStorage Server. After connecting to iSCSI Target it will appear for the system that you have connected a local hard drive and you will be able to use it as one.

To do it, please open **KernSafe TotalMounter**.



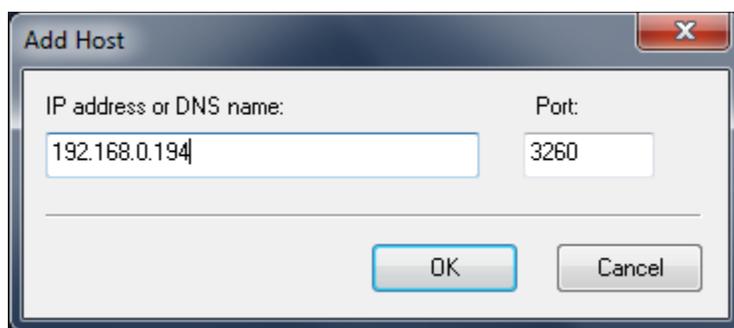
Click on **Mount** button and choose **iSCSI**.

New window will appear.



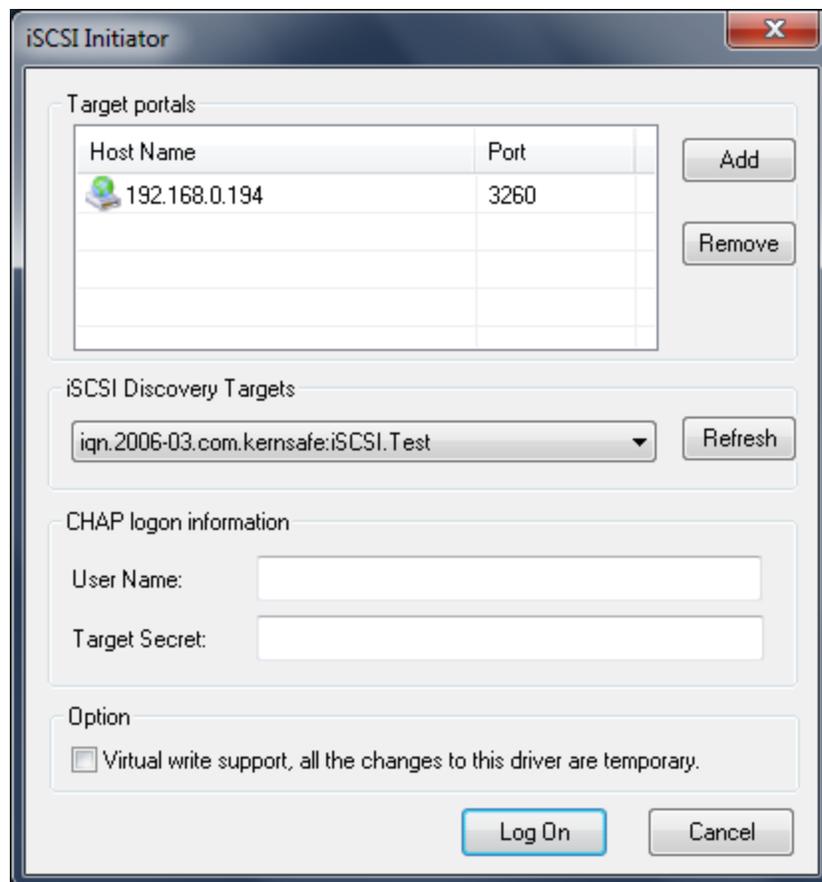
Here, you need to add target portal (for example from iStorage Server) and choose iSCSI Target you wish to mount.

To add portal click on **Add** button.



Type IP address of your portal and port. (Default port is 3260)

Press **OK** button to continue.

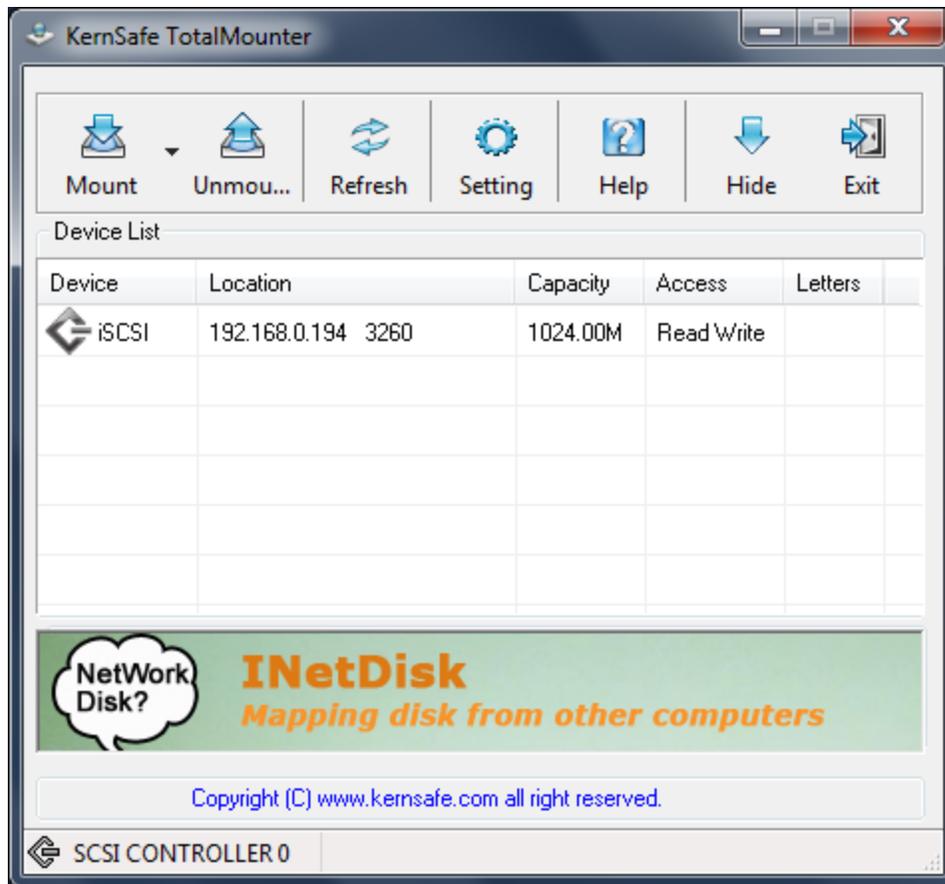


When you will successfully add your portal, choose your iSCSI target from the list.

If your target is CHAP protected, you need to provide correct user name and target secret in order to log on.

Selecting option **Virtual write support, all the changes to this driver are temporary**, will result that all changes you would like to make to this target, will be saved only temporarily on local machine, not directly on iSCSI target.

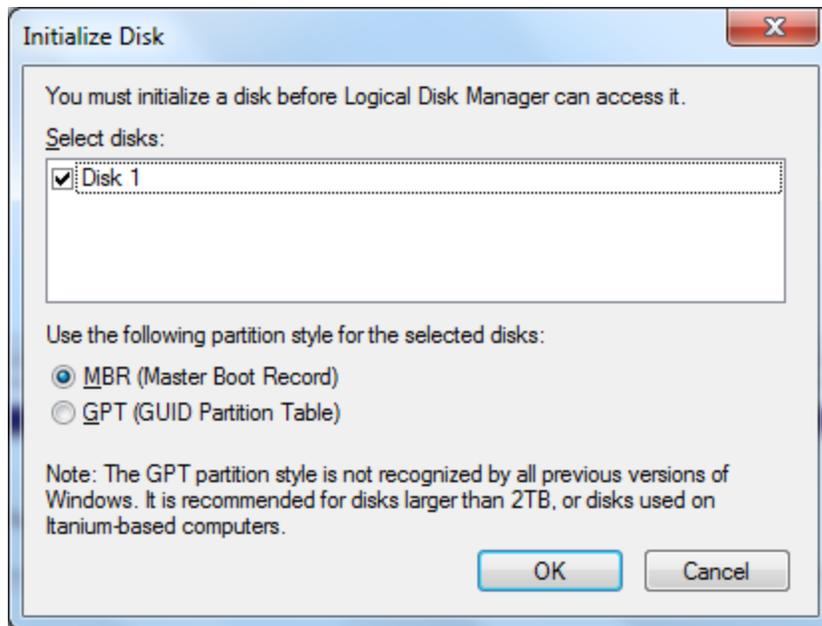
Press **Log On** button to continue.



Now depending if your target was RAW or already formatted you may need to do the following steps to access your new storage.

Please open **Disk Management** by opening **Control Panel** → **Administrative Tools** → **Computer Management** → **Disk Management**

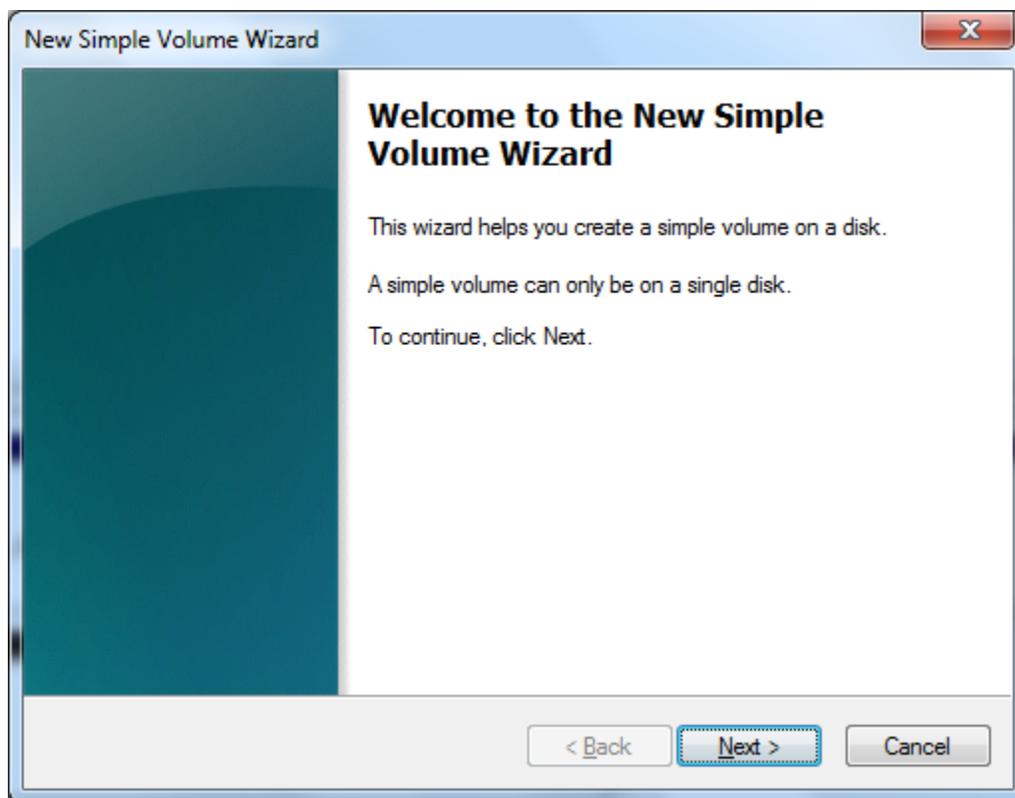
When you will open it, there will be an **Initialize Disk** window.



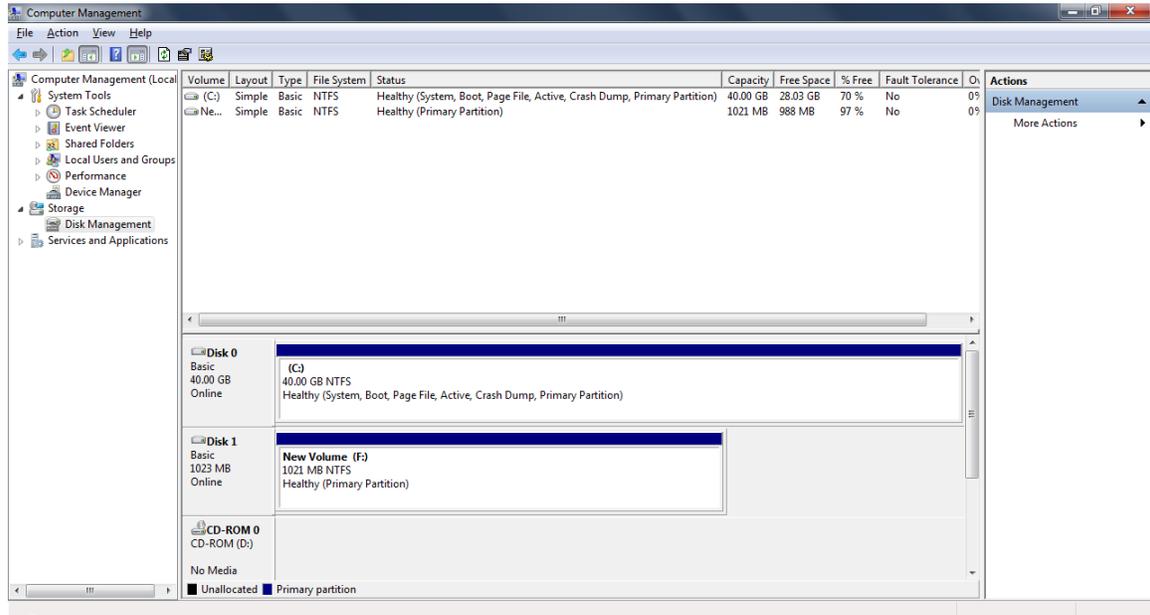
Click **OK** button to continue.

Afterwards press **Right Mouse** button on your new disk and select **New Simple Volume**.

Wizard will appear that will guide you through the whole process.

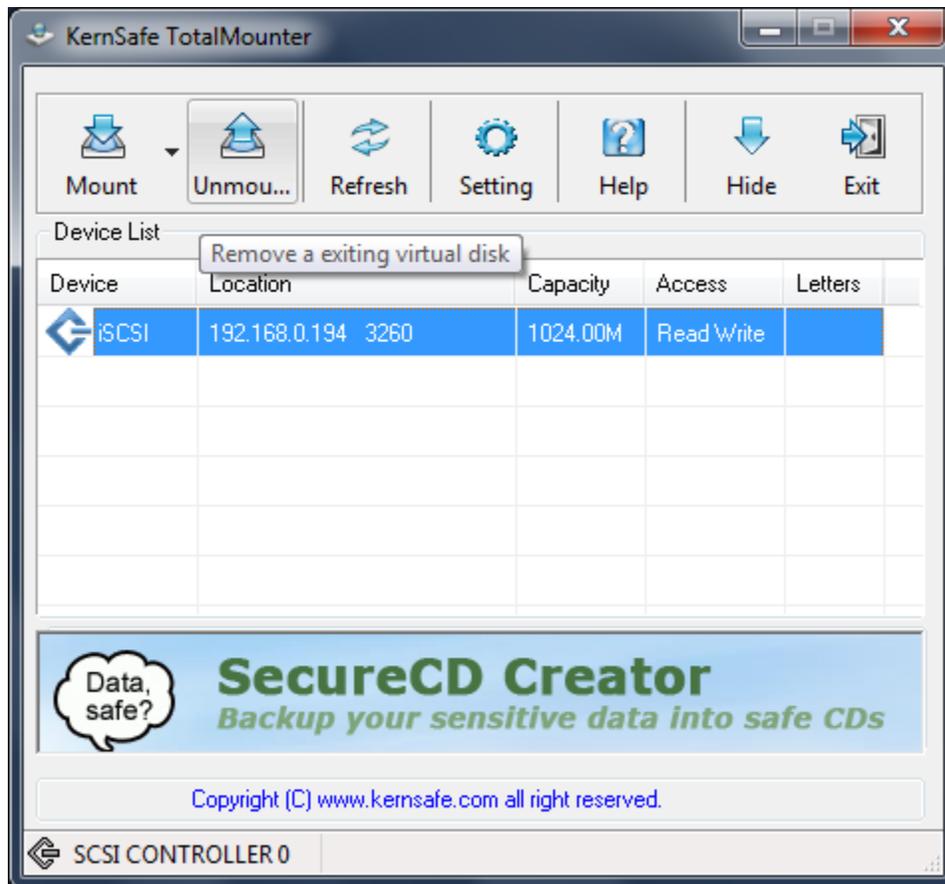


After wizard will finish, and formatting process will end, you will be able to access your new drive.

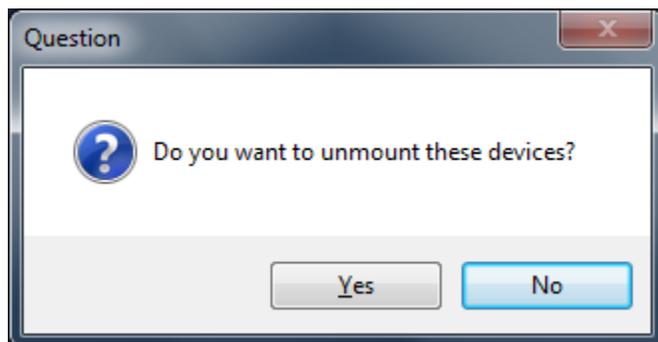


## Unmounting iSCSI Target

To unmount iSCSI Target click on drive you wish to unmount and press on the unmount button.



You will be prompted with confirmation window.



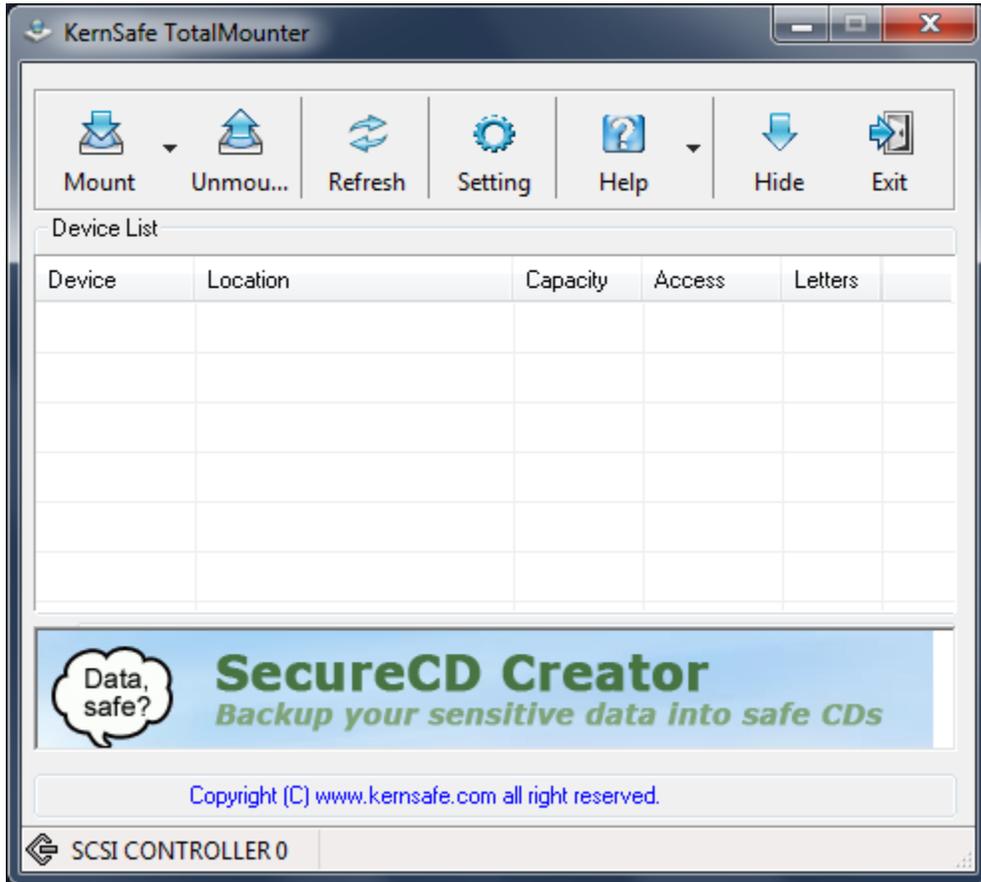
Press **Yes** button to continue.

Your drive is now successfully unmounted and does not appear in Computer window.

# iNetDisk

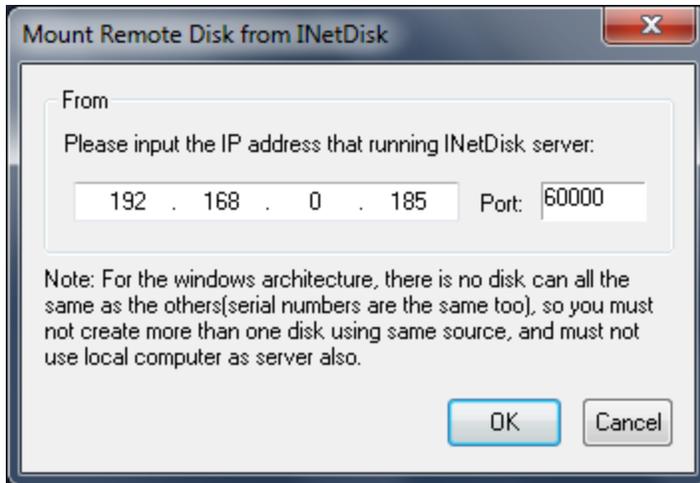
iNetDisk feature allows you to use TotalMounter as a iNetDisk client and connect to iStorage Server. Prior to using this feature, you will need to properly setup a iNetDisk Server.

To use iNetDisk option, please open **KernSafe TotalMounter**.



Click on **Mount** button and choose **iNetDisk**.

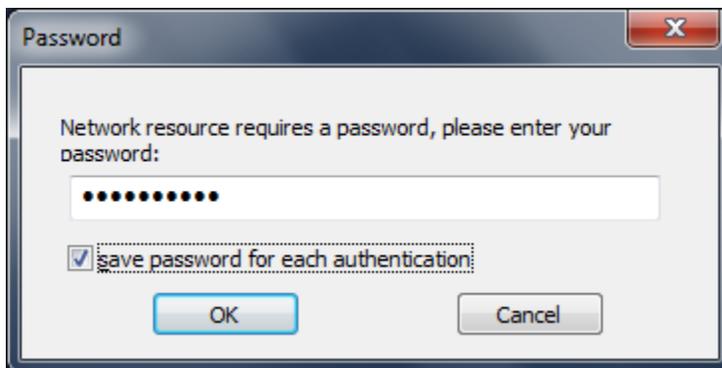
New window will appear.



Here please type **IP address** of iNetDisk Server. (Default port is 60000)

Click **OK** button to continue.

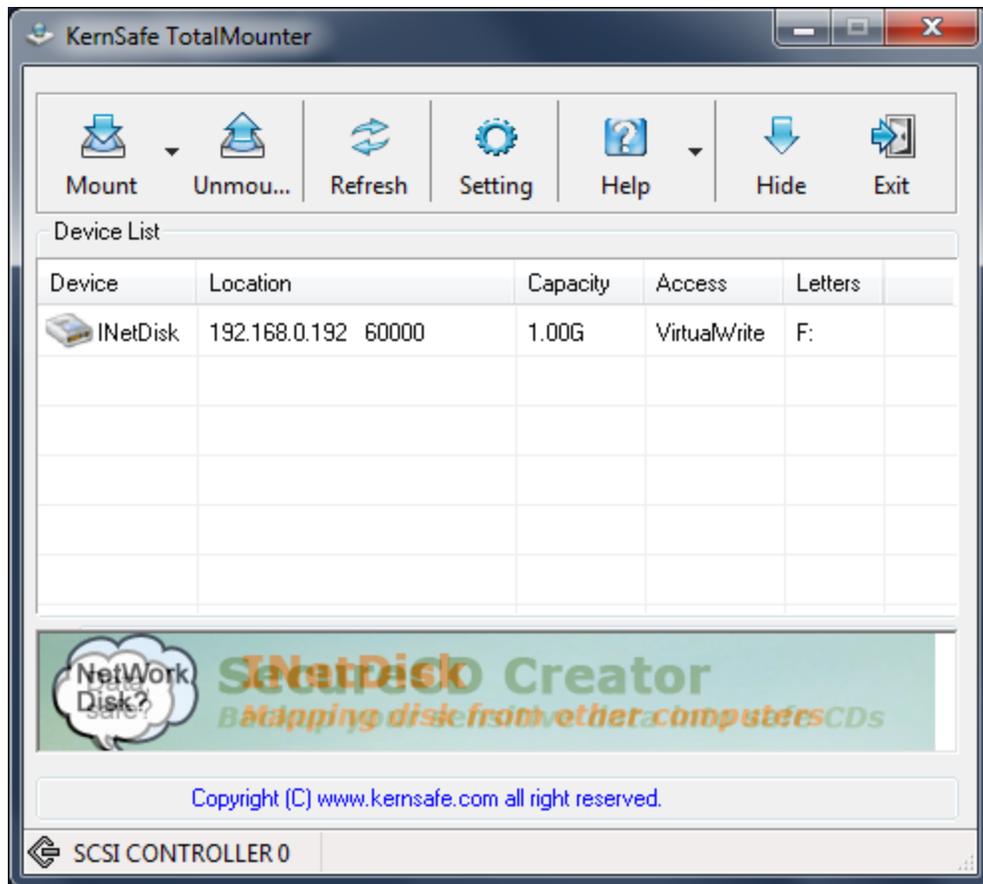
New window will appear.



Here please type **correct password** to iNetDisk Server target you wish to connect to. Depending on the password you will either get a read-only or full-access rights.

Checking option "**Save password for each authentication**" will result in that you don't need to type same password while you are connecting to the target.

Click **OK** button to continue.



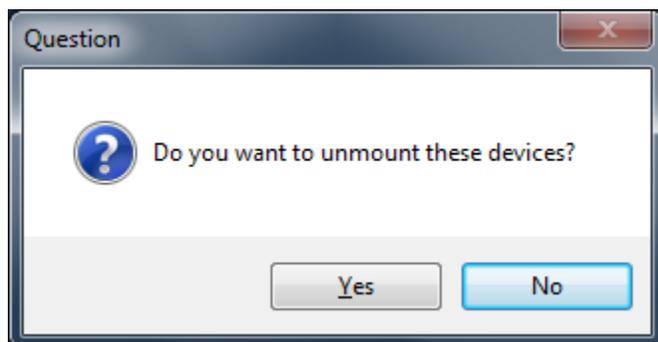
Now you are successfully connected to your iNetDisk target.

## Unmounting iNetDisk

To unmount iNetDisk target click on drive you wish to unmount and press on the **Unmount** button.



You will be prompted with confirmation window.



Press **Yes** button to continue.

Your drive is now successfully unmounted and does not appear in Computer window.

## Contact

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