PRODUCT GUIDE

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1. About Kernel for VHD

1.1 About the Manual

Welcome to the user manual of Kernel for VHD which is an output-driven tool that repairs corrupted or damaged Virtual Hard Disk files and recovers data from them. This user manual helps in guiding the users about using the tool efficiently. It is recommended that novice as well as experienced users should carefully go through this user manual before using the software. A user who is well aware of the software can even use table of contents for finding the particular portion of manual. The table of contents enlists all the sections described in this manual from where one can navigate through different sections of this user manual. The user manual consists of step-by-step guidelines for using Kernel for VHD. The user manual consists of the following sections:

- About Kernel for VHD
- Getting started with the User Interface
- Install and Uninstall
- Using Kernel for VHD
- Download Purchase and Register
- Troubleshooting
- Legal Notices

1.2 Introduction to Kernel for VHD

Kernel for VHD is an advanced, effective, and powerful tool that repairs corrupted, damaged or inaccessible VHD files accurately and flawlessly. The utility supports VHD files created using Windows 8, Windows 7, Windows Server 2008 R2 and Hyper-V Server. The software comprises of three powerful recovery modes for recovering data that got lost due to various reasons. The software preserves the data integrity, formatting and properties while recovering.

VHD files may get corrupted due to various reasons such as virus attacks, RAID failure, accidental damage due to fire or water, hard disk crash, damaged storage media, unintentional deletion of data stored in hard disk, and so on. Kernel for VHD uses powerful algorithms for restoring the lost or deleted data and is fast, simple and easy-to-use software.

1.3 Salient Features

Key features of Kernel for VHD are:

- Recovers data from lost, deleted, inaccessible, corrupted or damaged VHD files.
- Recovers all types of data such as image files, video files, audio files, database files, documents, media files, archives, etc.
- Resolves all types of corruption issues in VHD files.
- Provides three powerful recovery modes-Quick Scan, Extensive Scan, and File Trace for recovering data.
- Provides options to quickly search partitions of VHD file.
- Users can show or hide the progress of data retrieving process.
- Supports recovery of data from VHD files created using Windows Server 2008, Windows Server 2008 R2, Hyper-V Server, Windows Vista, Windows 7, and Windows 8.

1.4 System Requirements

The computer system must have the appropriate configuration before installing and running Kernel for VHD. Following are the minimum system requirements that a system should possess for successfully installing the Kernel for VHD software.

Basic System Requirements

- Pentium Class Processor
- 64 MB RAM (128 MB recommended)
- 10 MB of free disk space for software installation

Supported Windows OS Platforms

- Windows 8
- Windows 7
- Windows Vista
- Windows XP
- Windows 2000
- Windows 2003
- Windows Server 2008/R2

2. Getting started with the User Interface

2.1 Welcome Screen

Now, you have got clear idea about the features of Kernel for VHD, so it's the time to get acquainted with the working of the tool. When you install and run Kernel for VHD, following welcome screen appears:

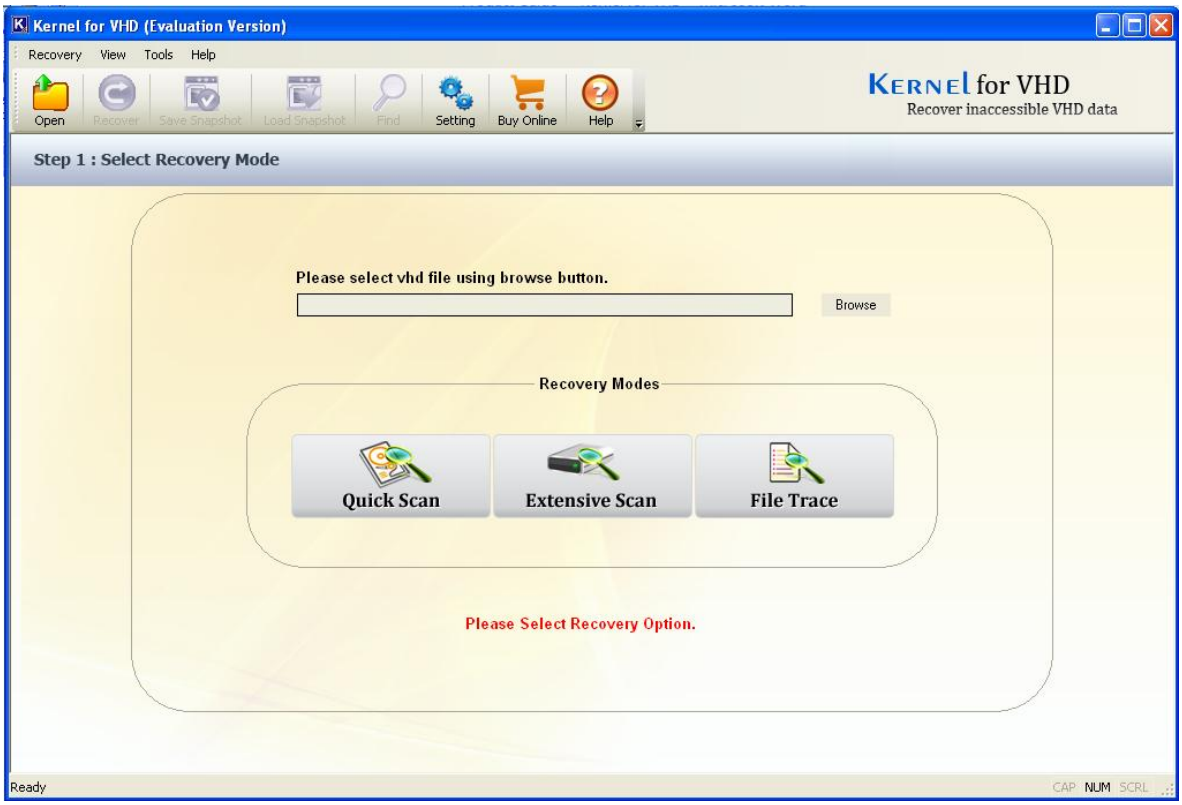


Figure 2.1: Welcome Screen

2.2 Menu Bar

The Menu bar of Kernel for VHD comprises following four menus:

- Recovery Menu
- View Menu

- Tools Menu
- Help Menu

Recovery Menu

Recovery menu of the Kernel for VHD software appears, as shown in the following figure:

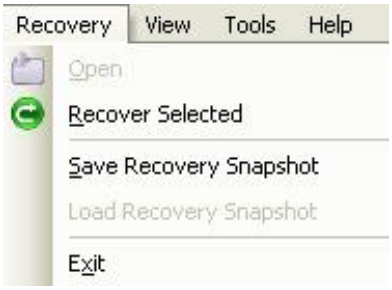


Figure 2.2: Recovery Menu

Following table enlists the options available in the **Recovery** menu:

Option	Description
Open	Select this option to add corrupt VHD file to the application.
Recover Selected	Select this option to start the process of saving the recoverable data.
Save Recovery Snapshot	Select this option to save the recoverable data as snapshot when you do not have time to sit and wait for the data to be saved on your computer's hard disk or another storage media.
Load Recovery Snapshot	Select this option to load the saved snapshot.
Exit	Select this option to close the software.

View Menu

The **View** menu allows changing the pattern of viewing the recovered files in the software. **View** menu of Kernel for VHD software appears, as shown in the following figure:

Figure 2.3: View Menu

Following table enlists the options available in the **View** Menu:

Option	Description
Icons	Select this option to view the recovered files in form of icons.
List	Select this option to view the recovered files in a list-like structure.
Details	Select this option to view the recovered files with complete details such as size, type, date, etc.

Tools Menu

Tools menu of Kernel for VHD software appears, as shown in following figure:

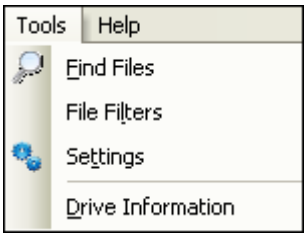


Figure 2.4: Tools Menu

Following table enlists the options available in the **Tools** menu:

Option	Description
Find Files	Select this option to find specific file(s) from the recovered file(s). For example, if you need to view .xls files, then type *.xls in "Find Files" dialog box and the software will display all the MS Excel file(s) amongst the recovered files.
File Filters	This option works similar to the **Find Files** option. However, the only difference among both is using the **Find Files** option, you can search for a specific type of file, say *.xls but with the **File Filters** option, you can specify multiple file types, say *.xls, *.docx, *.pdf, etc. Based on the file type(s) you specify, the software displays the recovered items.
Settings	Select this option to configure following software settings based on which the software will search the lost files and folders: • Sectors to be read in one attempt. • Rename, overwrite, or skip the duplicate files. • Include deleted files in the search, exclude deleted files from recovered files, or only recover the deleted files.
Drive Information	Select this option to gather information about the system drive.

Help Menu

Help menu of the Kernel for VHD software appears, as shown in following figure:

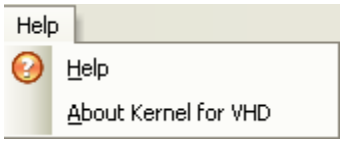


Figure 2.5: Help Menu

Following table enlists the options available in the **Help** menu:

Option	Description
Help	Select this option to view Help manual of the software.
About Kernel for VHD	Select this option to view version information and software support details of the software.

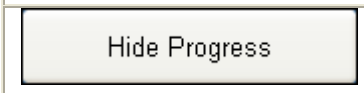
2.3 Tool Bar

Tool bar consists of buttons that work as shortcuts for various options available in the main menus of Kernel for VHD software. Following table enlists the buttons available on the Tool bar of the software:

Button	Button Name	Description
	Recover	Click this button to start the saving process.
	Save Snapshot	Click this button to save the recovery snapshot.
	Load Snapshot	Click this button to load the recovery snapshot.
	Find	Click this button to enter and search specific file types amongst thousands of file(s) recovered by the software.
	Setting	Click this button to view and modify following software settings based on which the software will search the lost files and folders: • Sectors to be read in one attempt • Rename, overwrite, or skip the duplicate files • Include deleted files in the search, exclude deleted files from recovered files, or only recover the deleted files • Number of retries on bad sectors
	Buy Online	Click this button to purchase the software online.
	Help	Click this button to view Help manual of the software.

2.4 Buttons Used

There are several buttons used in the software that helps user throughout the recovery process. Following table lists the buttons used in the software:

Button	Description
	Click this button to start the saving process.
	Click this button to hide the searching process. While searching for the files and folders on the selected hard disk partition or logical disk drive, the software displays the progress. If you do not want to see that progress then just click the “Hide Progress” button. Clicking the “Hide Progress” button also improves the recovery speed.
	Click this button to view the searching progress.
	Click this button to proceed to next step during the recovery process.
	Click this button to navigate back during the recovery process.
	Click this button to stop the searching or saving process in-between.

3. Install and Uninstall

3.1 Install Kernel for VHD

The software can be installed by following few simple steps. However, before doing so, you need to ensure that the software installer file is available with you. If it is not available, it can be downloaded from the site http://www.nucleustechnologies.com/vhd-recovery.html

After downloading the installer file, execute the following steps for installing the software:

1. Double- click **Kernel for VHD** installer file.
2. Follow the on-screen instructions. When the installation process completes **'Setup Installation Complete'** message appears on the software installation screen.
3. Click the **Finish** button to launch the software.

After the completion of software installation process, a shortcut to start the software will be added in the Windows Start Program menu. User can start the software from Program menu. One can also create desktop icon of the software where from it can be started by double clicking the icon.

3.2 Uninstall Kernel for VHD

User can uninstall Kernel for VHD software from computer system by using one of the following two methods:

- Uninstall from Windows Start menu
- Uninstall from Control Panel

> **Note**: Before starting the un-installation process, make sure that the Kernel for VHD software is not in use.

Uninstall from Windows Start menu

Execute the following steps to uninstall Kernel for VHD from Windows Start menu:

1. Click **Start > All Programs > Kernel for VHD > Uninstall Kernel for VHD.** A warning message before uninstalling the software will be displayed on the screen.
2. Click **Yes** button to uninstall the software.
3. Click the **OK** button.

Kernel for VHD is successfully uninstalled from computer system.

Uninstall from Control Panel

Execute the following steps to uninstall Kernel for VHD from Control Panel:

1. Click **Start > Control Panel**. The Control Panel window appears.
2. Double-click the **Add or Remove Programs** icon. A list of the programs installed on the computer system appears.
3. Select **Kernel for VHD** and click the **Remove** button. A warning message before uninstalling the software will be displayed on the screen.
4. Click the **Yes** button to uninstall the software.
5. Click the **OK** button.

Kernel for VHD is successfully uninstalled from the computer system.

4. Using Kernel for VHD

Kernel for VHD provides three extensive file recovery modes which recover corrupted, inaccessible or damaged VHD files. The recovery modes are as follows:

- **Quick Scan**
- **Extensive Scan**
- **File Trace**

4.1 Recover Data Using Quick Scan Mode

The Quick Scan mode is the fastest recovery mode and resolves minor corruption issues in VHD files stored in the hard disk of the computer. Execute the following basic steps to recover data using Quick Scan mode.

1. Click **Start > All Programs > Kernel for VHD > Kernel for VHD** to launch the software. The welcome screen of the software appears.
2. Browse and select the VHD file.

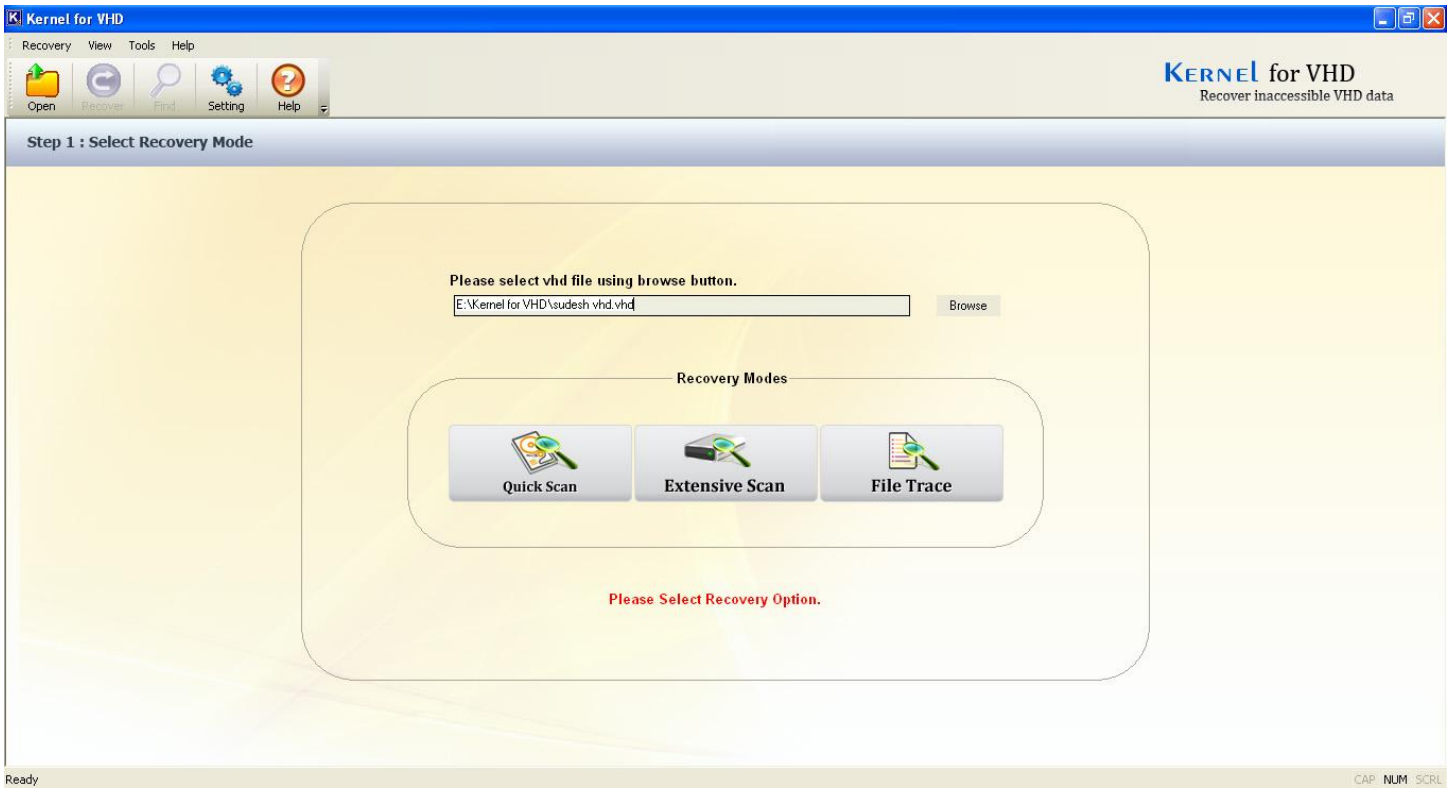


Figure 4.1: Selecting VHD File for Quick Scan Recovery Mode

3. Select Quick Scan mode. The Quick Scan interface appears.
4. Select Virtual Hard Disk from the left panel of the window. The detail of the virtual hard disk is shown in the right panel.
5. Click Next to continue the recovery process.

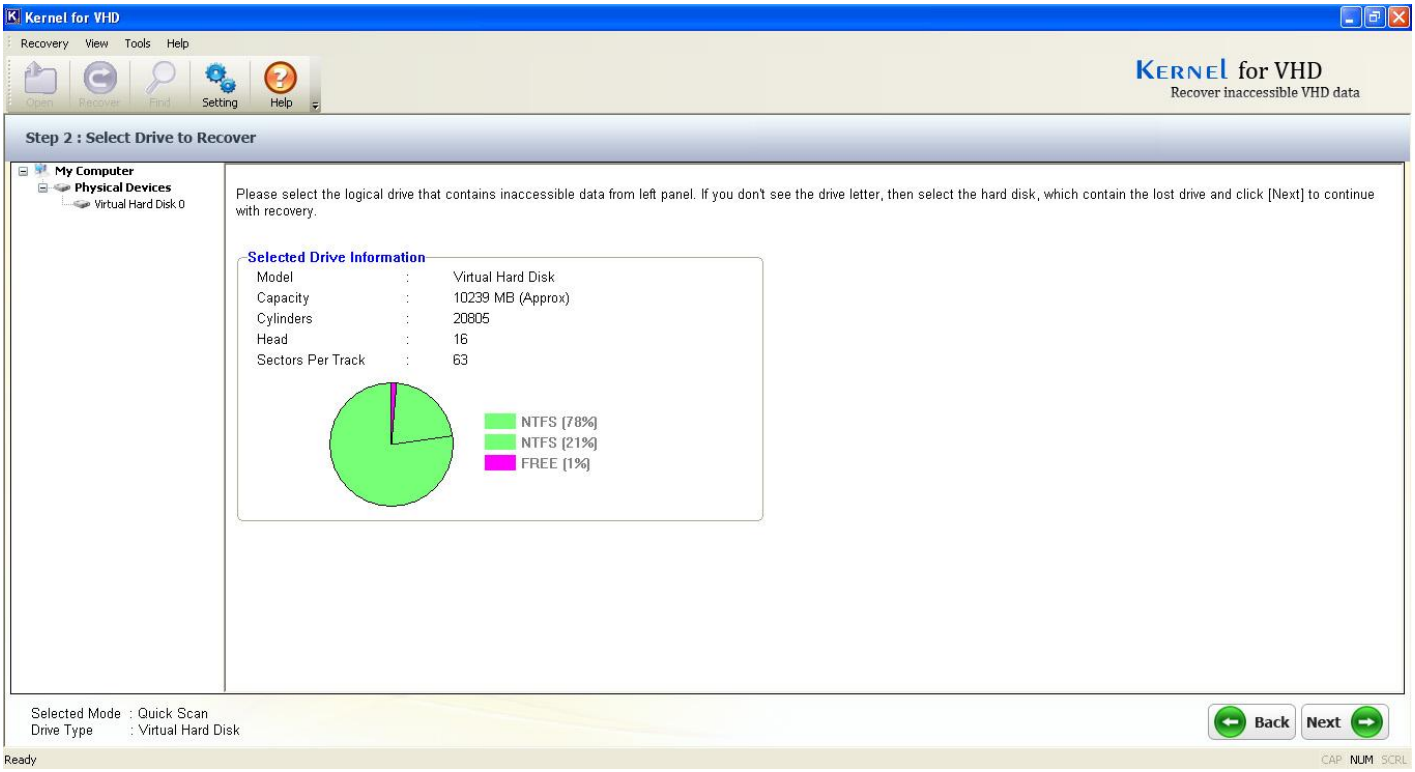


Figure 4.2: Selecting Drive to Recover for Quick Scan Recovery Mode

A dialog box is displayed. Select the radio button **Use existing partition info** to recover data from an existing partition on the selected hard disk. Else, select **Search partition** option.

6. Click OK to continue.

The partition searching process takes place. You can stop the process in between by using the Stop button. The available partitions are displayed in the left panel.

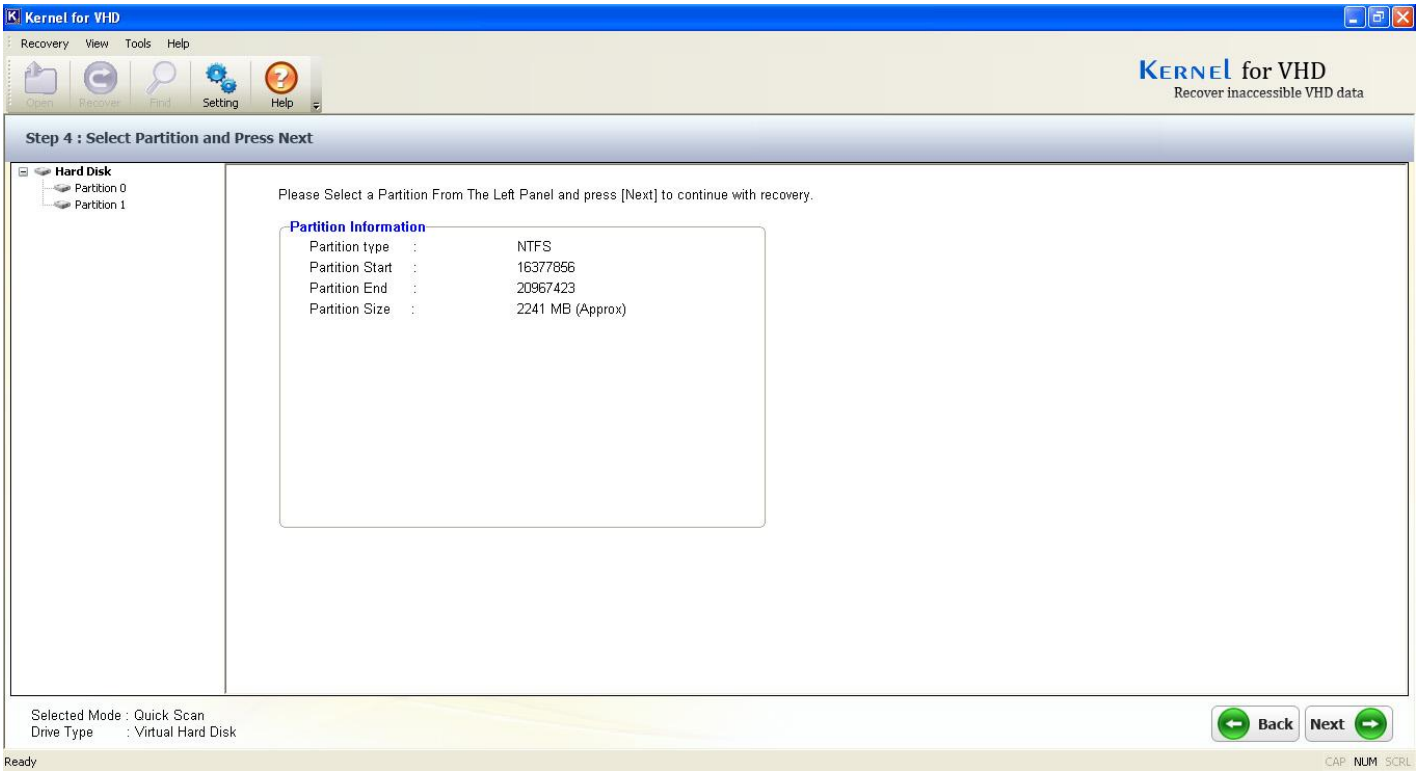


Figure 4.3: Selecting the Partition for Quick Scan Recovery Mode

7. Select any partition displayed in the left panel of the window. You can view the details of the partition by clicking it.

8. Click Next. The folder searching process is executed.

> **Note**: You can show or hide the progress of the search process by clicking the Hide Progress/ Show Progress buttons.

When the search process completes, all the folders are enlisted in the left panel. You can expand the folders and view their details displayed in the right panel.

9. Select and check the folders which you want to recover.

10. Click Recover button.

The software displays a dialog box asking you to provide the location for saving the recovered files.

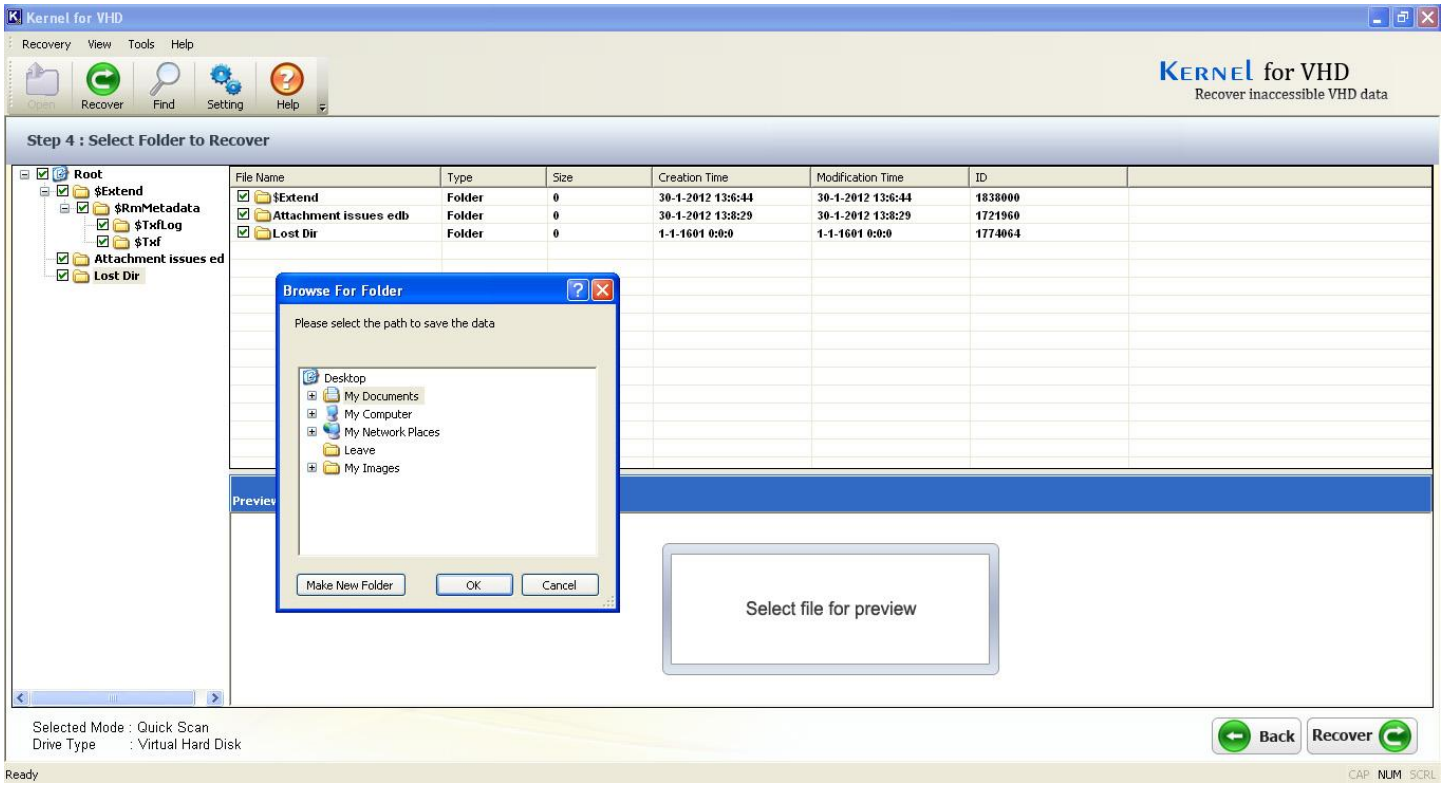


Figure 4.4: Selecting Folder to Recover for Quick Scan Recovery Mode

11. Specify the location to save the selected items and click OK button.

When the saving process is done, the software displays a dialog box containing message regarding successful saving of files.

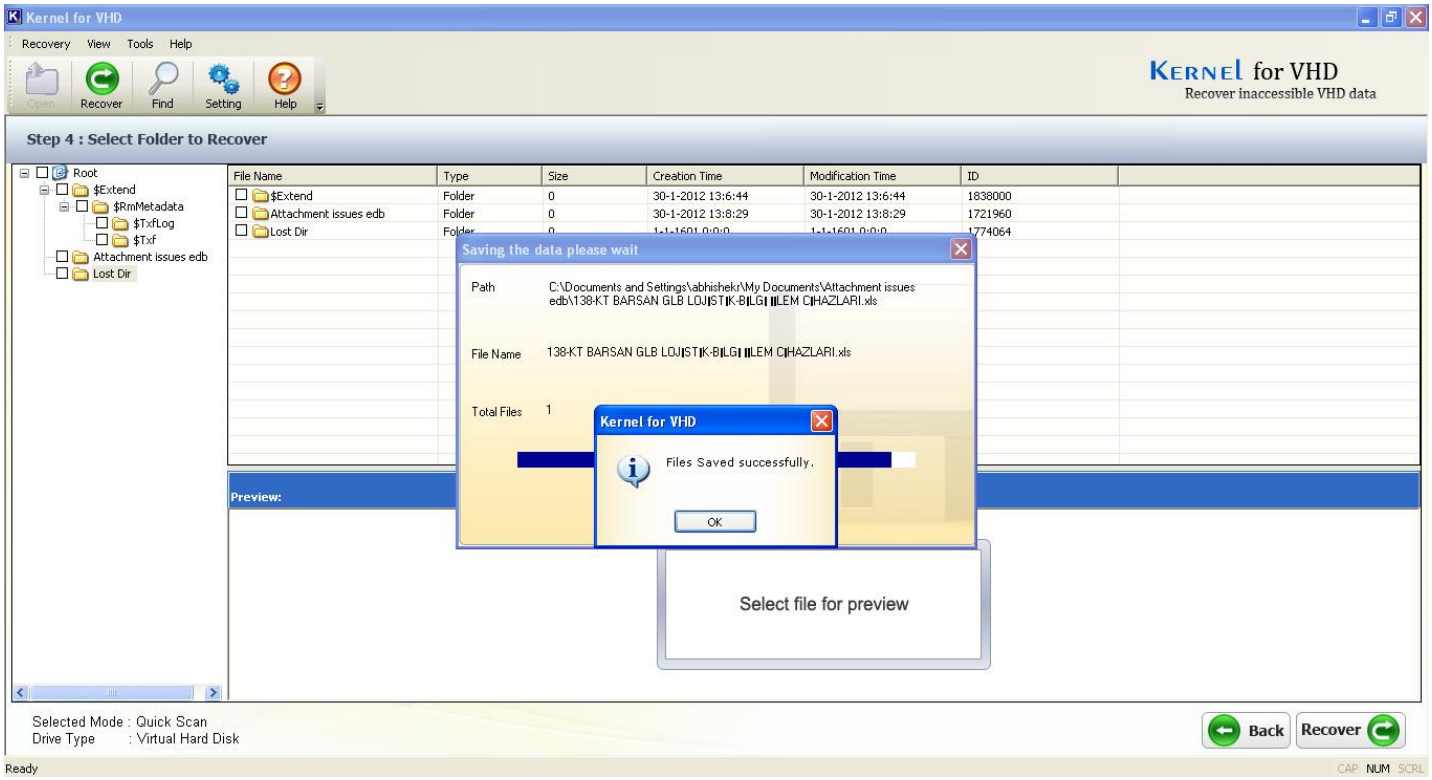


Figure 4.5: Displaying successful saving of files for Quick Scan Recovery Mode

12. Click OK button to close the dialog box.

You can view the recovered files from the specified locations.

4.2 Recover Data Using Extensive Scan Mode

The Extensive Scan Mode is the powerful recovery mode that performs intensive scanning of the corrupted or damaged VHD files. This mode can effectively recover the files that cannot be recovered by Quick Scan mode.

Execute the following steps to recover data using Extensive Scan mode:

1. Click **Start > All Programs > Kernel for VHD > Kernel for VHD** to launch the software. The welcome screen of the software appears.

2. Browse and select the VHD file.

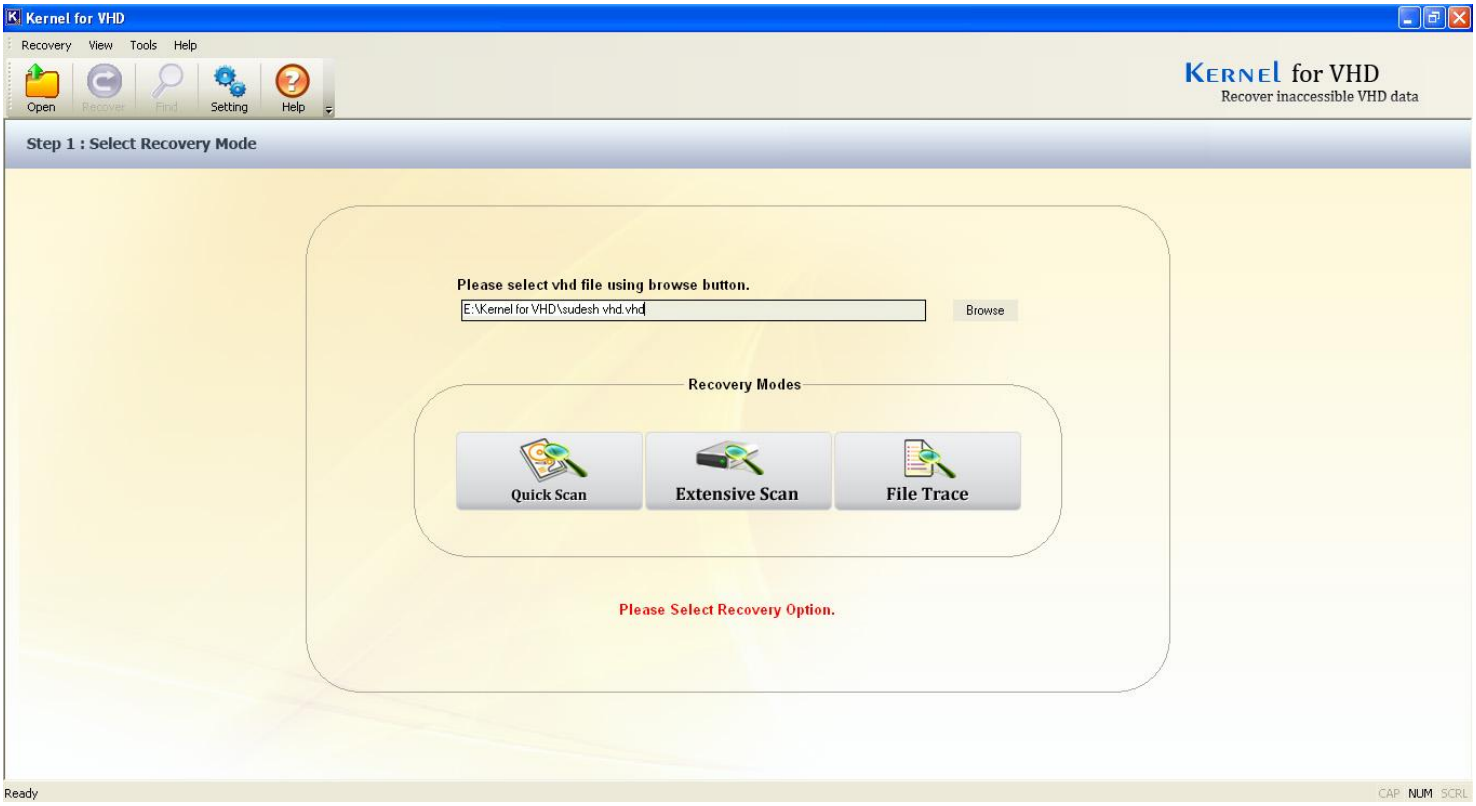


Figure 4.6: Selecting Recovery Mode for Extensive Scan Mode

3. Select Extensive Scan mode. The Extensive Scan interface appears.
4. Select Virtual Hard Disk from the left panel of the window. The detail of the virtual hard disk is shown in the right panel.
5. Click Next to continue the recovery process.

A dialog box is displayed. Select the radio button **Use existing partition info** to recover data from an existing partition on the selected hard disk. Else, select **Search partition** option.

6. Click OK to continue.

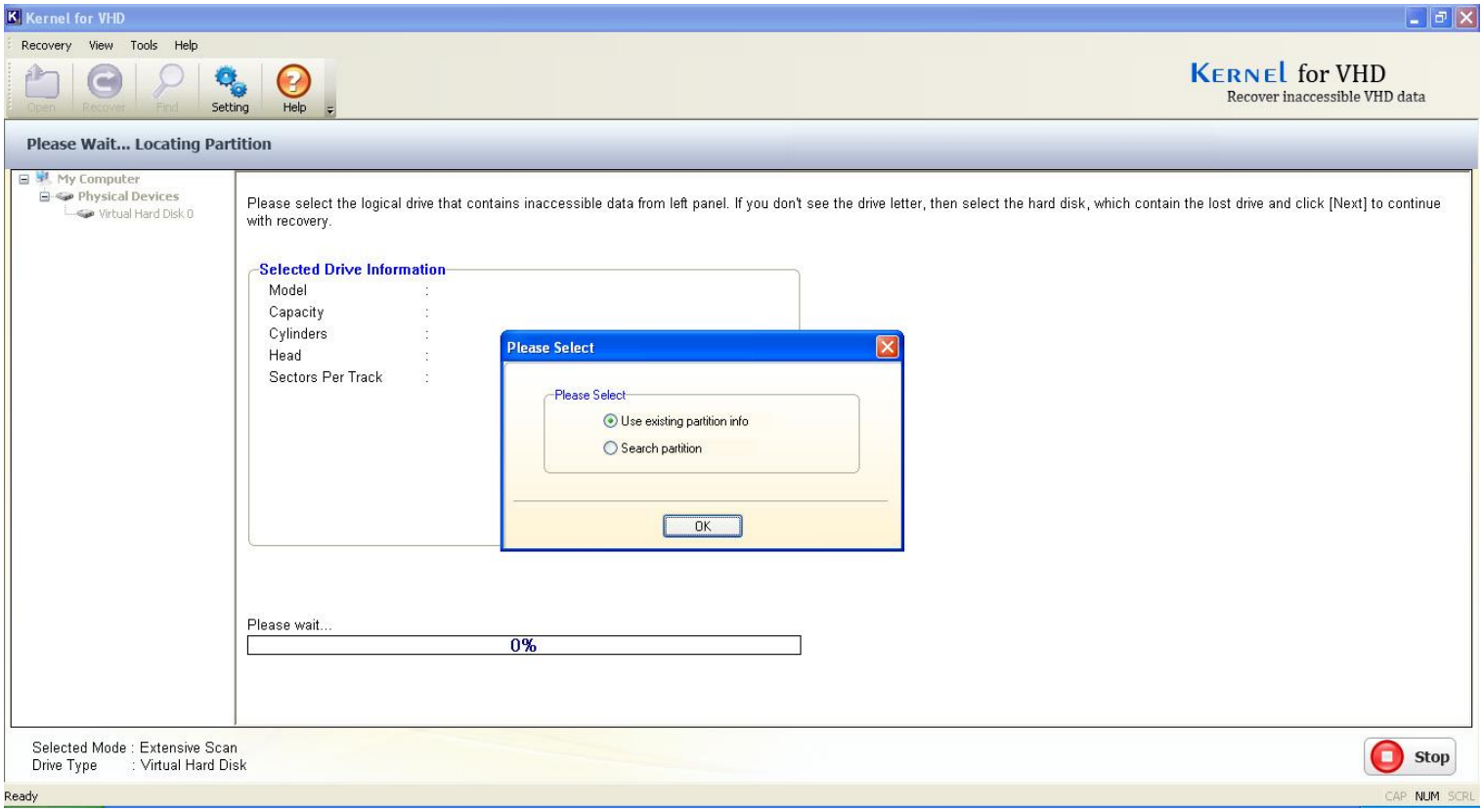


Figure 4.7: Selecting partitions for Extensive Scan Mode

The partition searching process takes place. User can stop the process in between by using the Stop button. The available partitions are displayed in the left panel.

7. Click Next.
8. Select the File System from the left panel of the window.
9. Click Next.

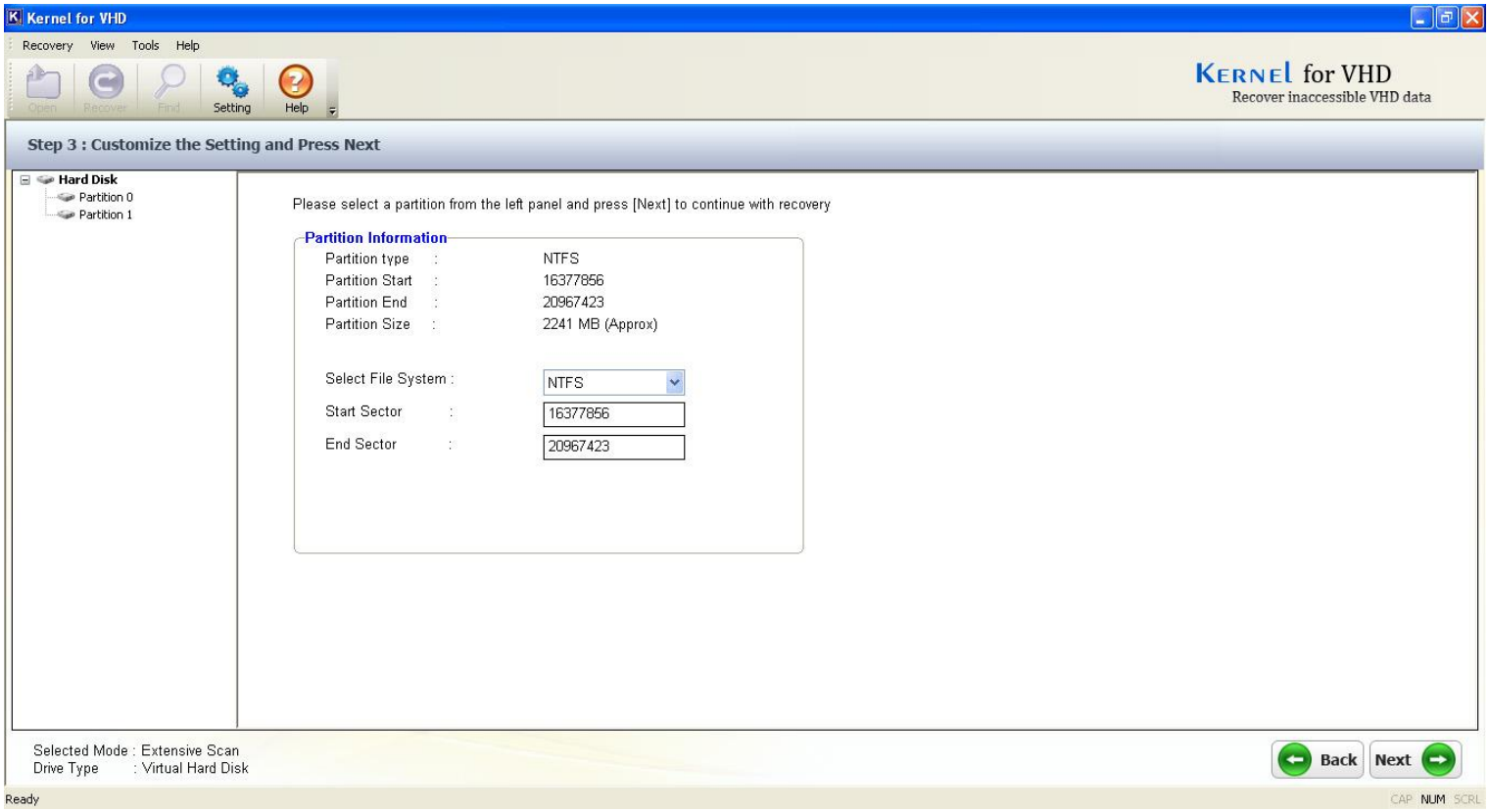


Figure 4.8: Customizing the settings for Extensive Scan Mode

The folder searching process is executed.

> **Note**: You can show or hide the progress of the search process by clicking the Hide Progress/ Show Progress buttons. You can also stop the search process by clicking the Stop button.

When the search process completes, the recovered file system is enlisted in the left panel. Select the file Click Next.

All the folders within this file are listed in the left panel. You can expand the folders and view their details displayed in the right panel.

10. Select and check the folders which you want to recover.

11. Click Recover button.

The software displays a dialog box asking you to provide the location for saving the recovered files.

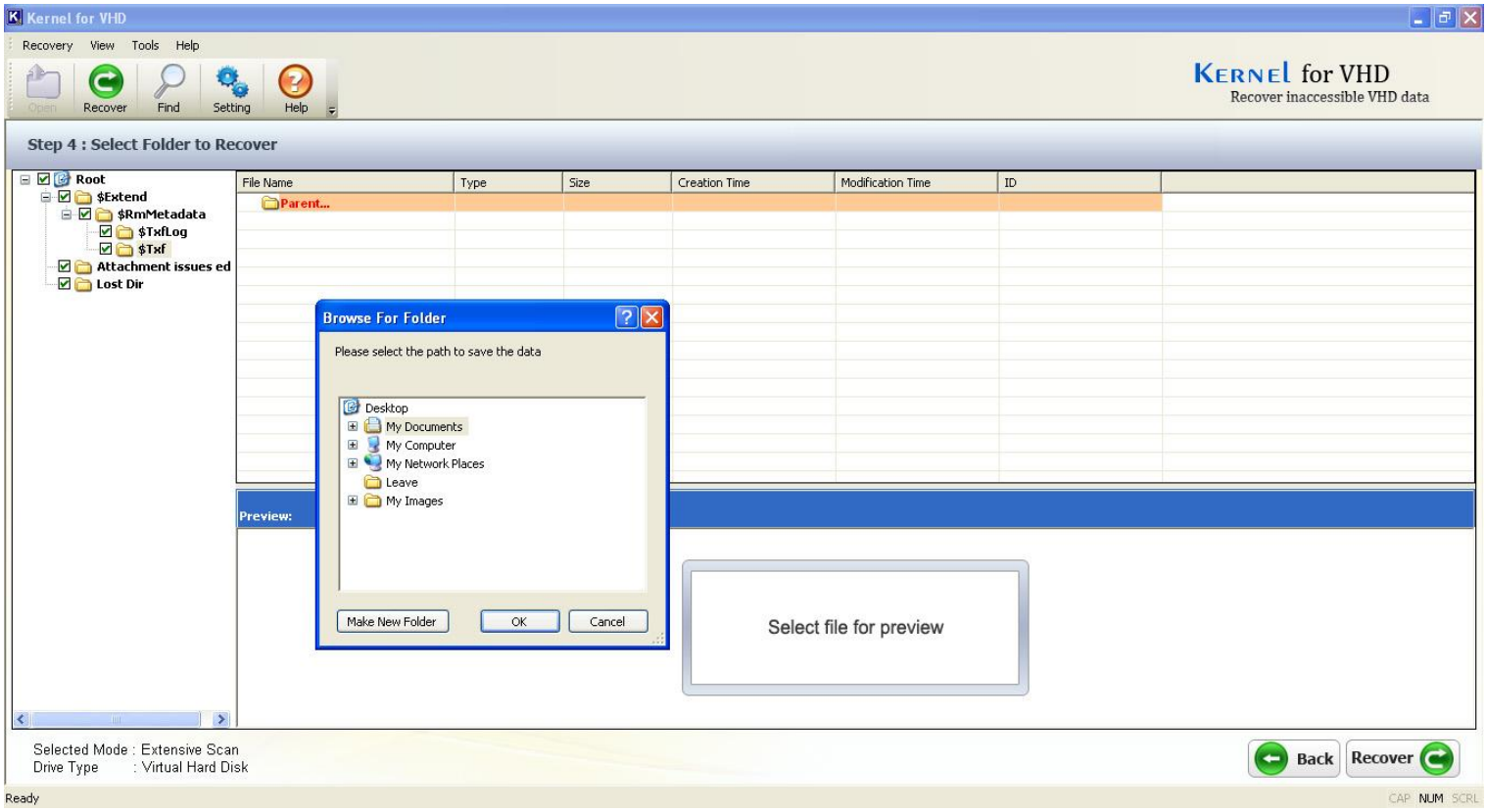


Figure 4.9: Selecting Folder to recover for Extensive Scan Mode

12. Specify the location to save the selected items and click OK button.

When the saving process is done, the software displays a dialog box containing message regarding successful saving of files.

13. Click OK button to close the dialog box.

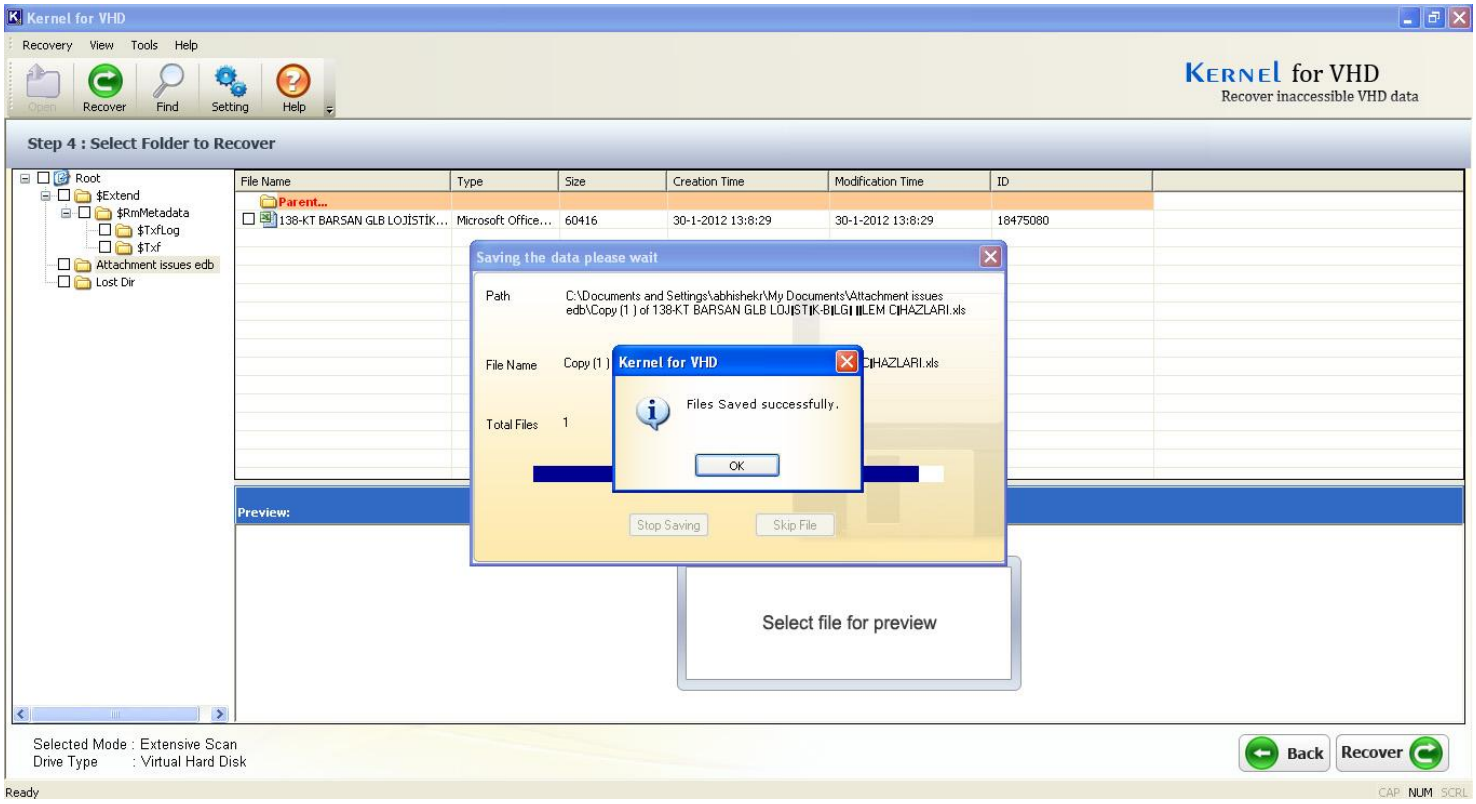


Figure 4.10: Displaying successful saving of files in Extensive Scan Mode

User can view the recovered files from the specified locations.

4.3 Recover Data Using File Trace Mode

The File Trace method is capable to recover those files that cannot be recovered with Quick Scan and Extensive Scan modes. With the help of raw scanning of the corrupted and damaged files, it recovers the data.

Using following simple steps, recover the VHD files using File Trace method:

1. Click **Start > All Programs > Kernel for VHD > Kernel for VHD** to launch the software. The welcome screen of the software appears.

2. Browse and select the VHD file.

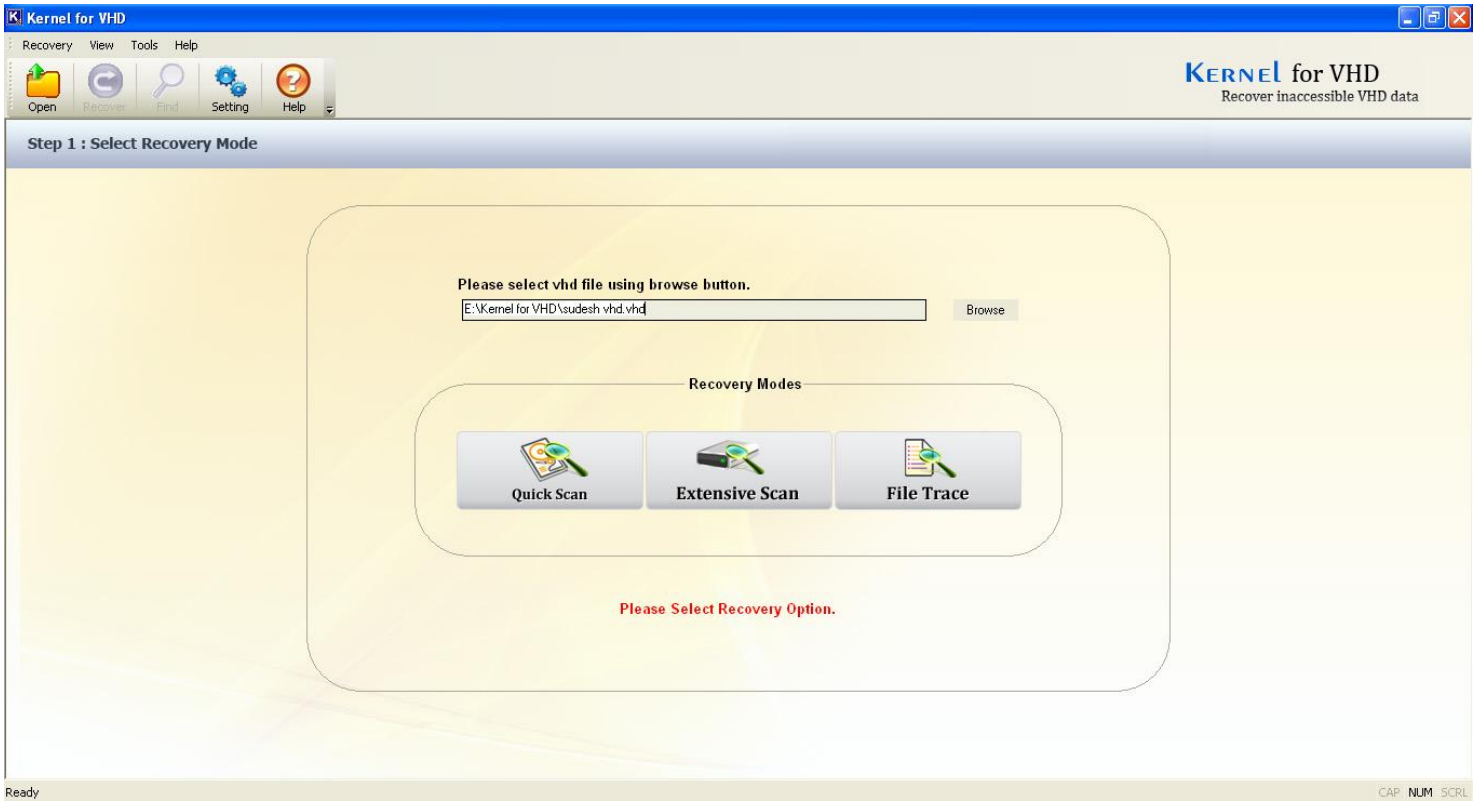


Figure 4.11: Selecting Recovery Mode for File Trace Method

3. Select File Trace mode. The File Trace interface appears.

4. Select Virtual Hard Disk from the left panel of the window. The detail of the virtual hard disk is shown in the right panel.

5. Click Next to continue the recovery process.

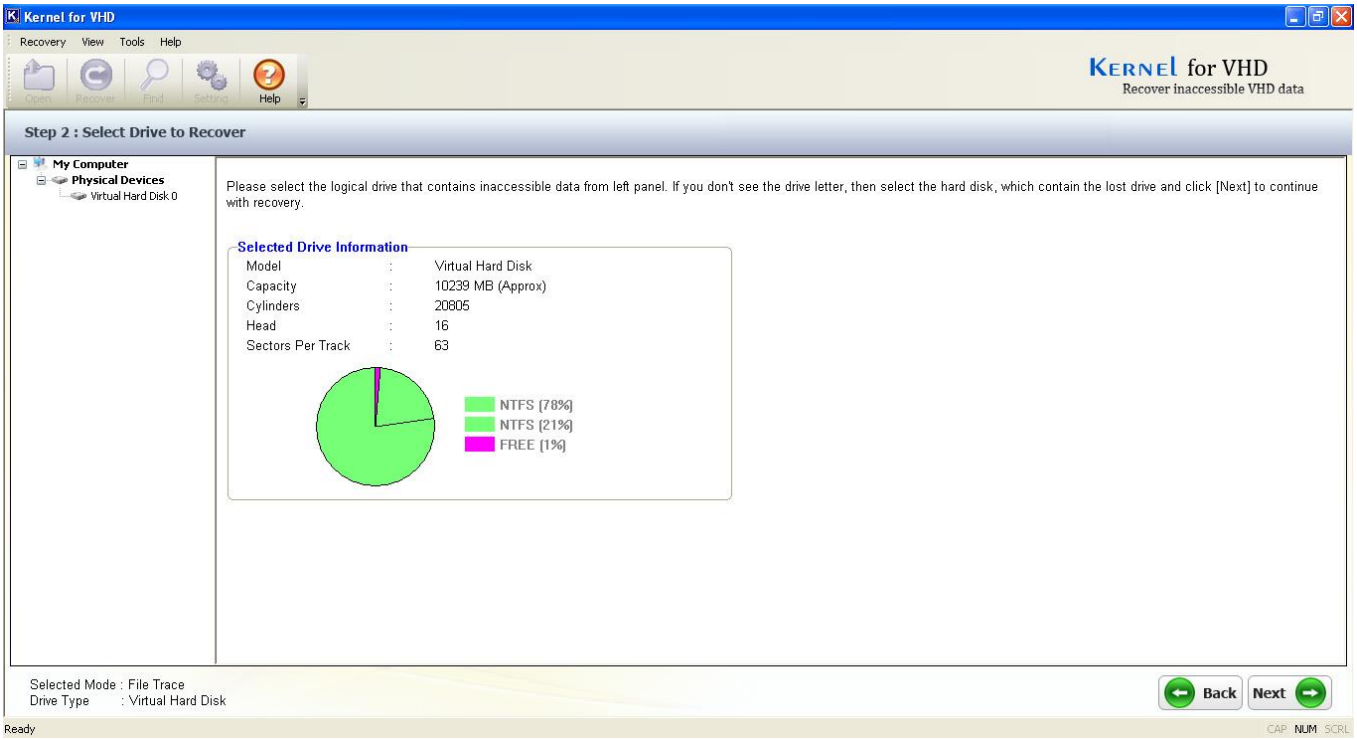


Figure 4.12: Selecting Drive to Recover for File Trace Method

A dialog box is displayed. Select the radio button **Use existing partition info** to recover data from an existing partition on the selected hard disk. Else, select **Search partition** option.

6. Click OK to continue.

The partition searching process takes place. You can stop the process in between by using the Stop button. The available partitions are displayed in the left panel.

7. Click Next.

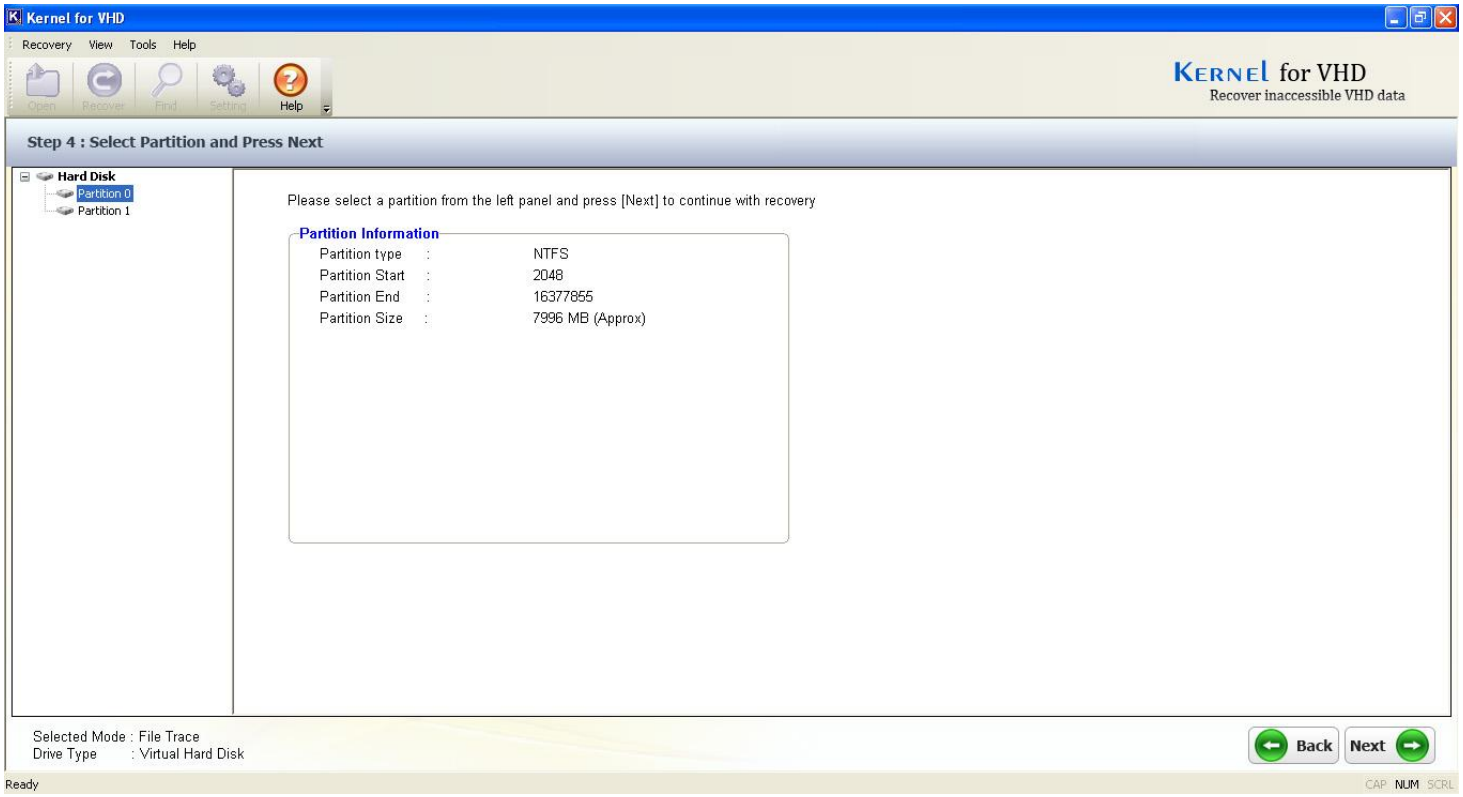


Figure 4.13: Selecting Partition to Recover for File Trace Method

8. Click OK to continue. The File Types interface appears.

> **Note**: You can select single or multiple file types for recovery.

9. Check the files you want to recover from the File Types interface.
10. Click OK to continue. Data searching process takes place.

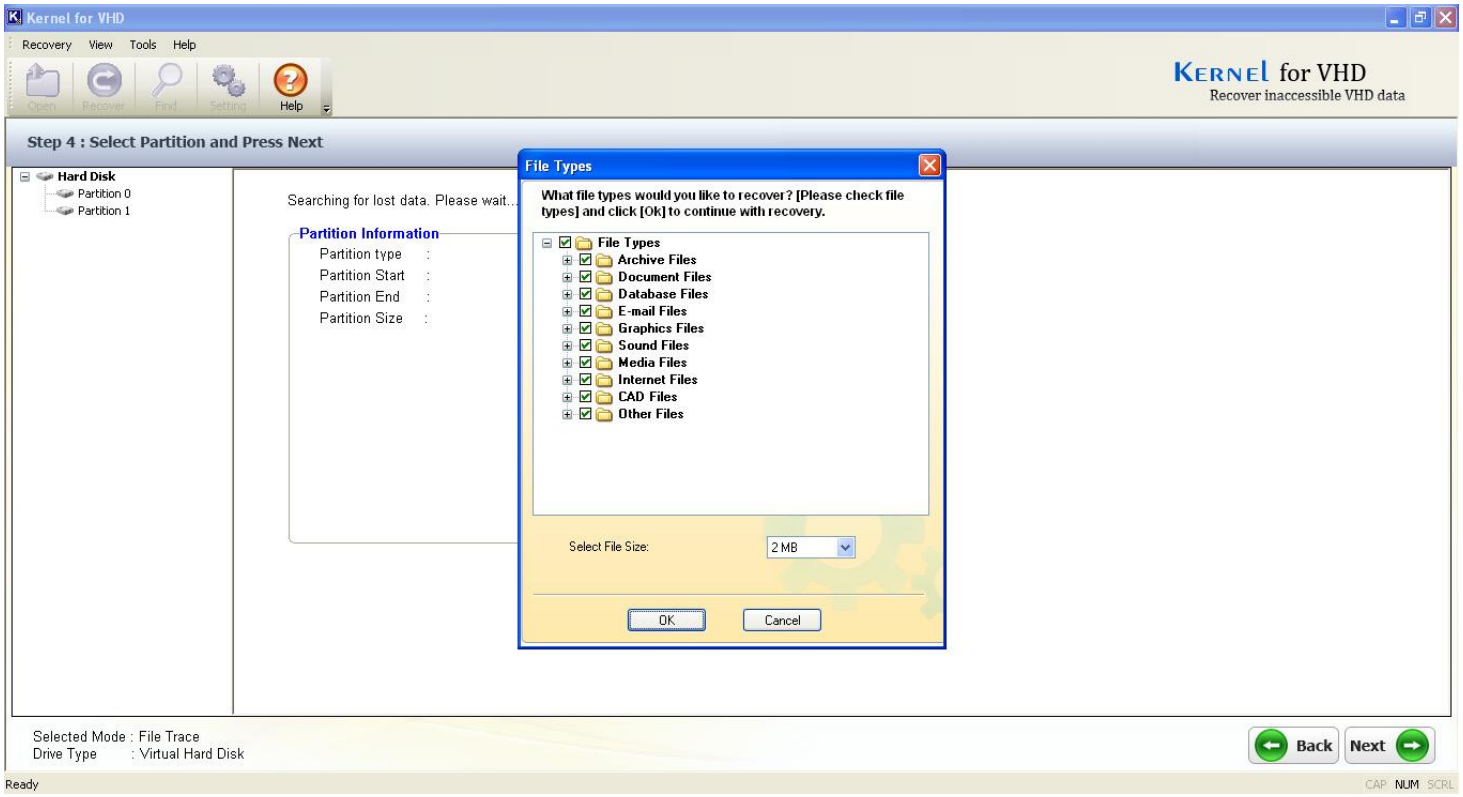


Figure 4.14: Selecting File Types to Recover for File Trace Method

> **Note**: You can show or hide the progress of the search process by clicking the Hide Progress/ Show Progress buttons. You can also stop the search process by clicking the Stop button.

After successful completion of search process, the folders with all file types inside them are displayed in a tree-like structure in the left panel. You can expand the folders and view their details displayed in the right panel.

11. Select the file types that you want to recover.
12. Click Recover button.

The software displays a dialog box asking you to provide the location for saving the recovered files.

13. Specify the location to save the selected items and click OK button.

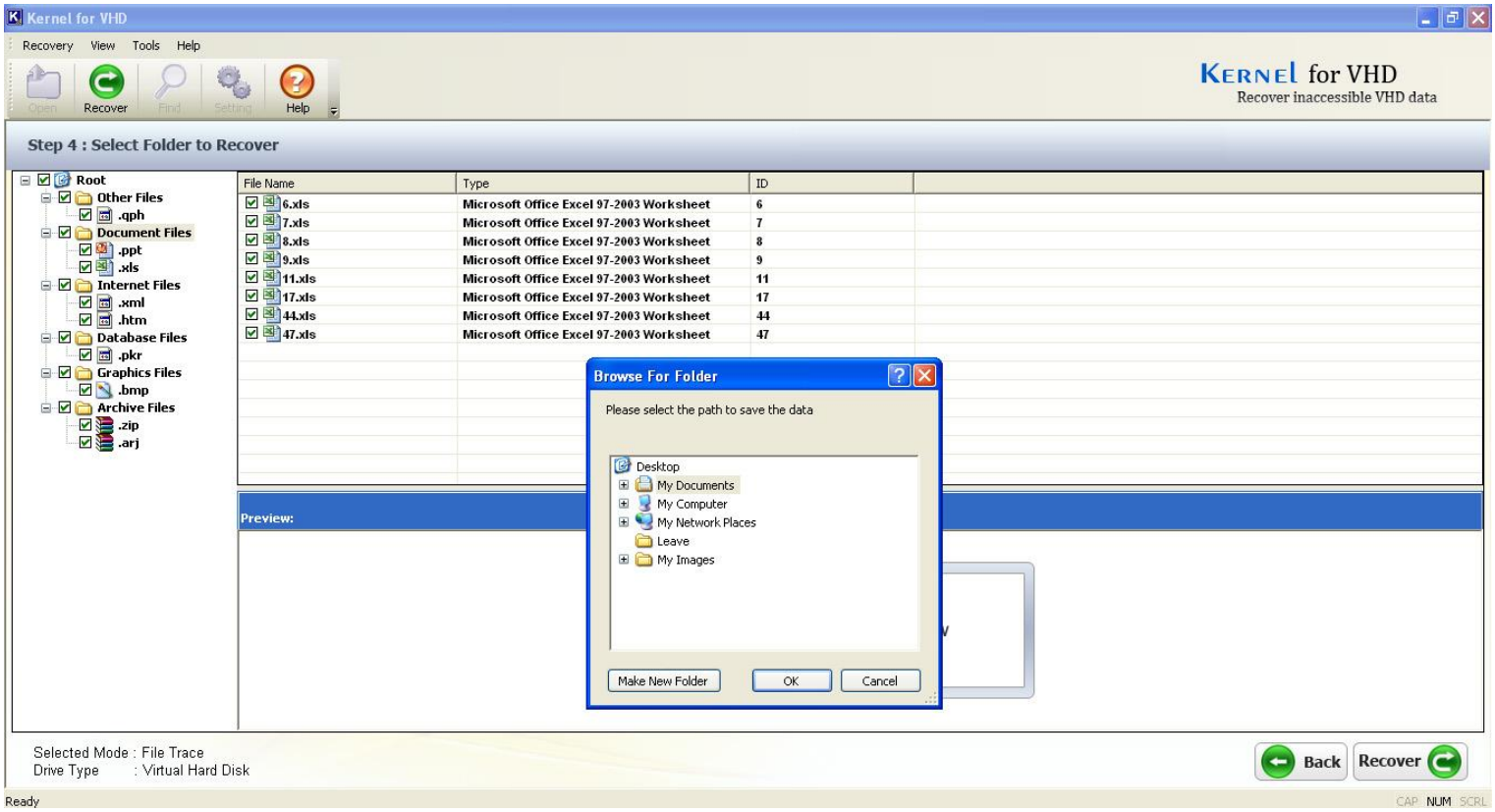


Figure 4.15: Selecting path to save the recovered data in File Trace Method

When the saving process is done, the software displays a dialog box containing message regarding successful saving of files.

14. Click OK button to close the dialog box.

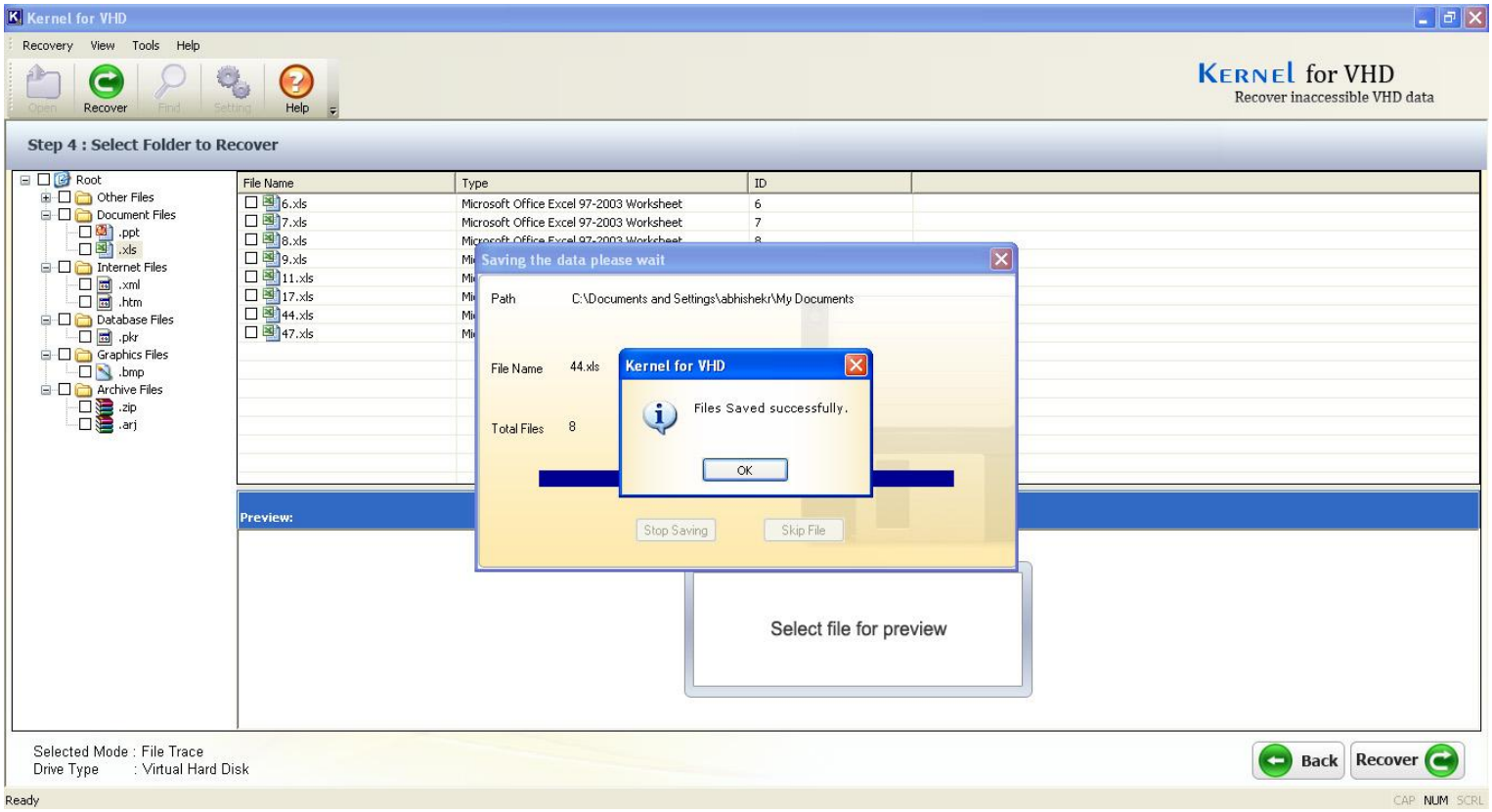


Figure 4.16: Displaying successful saving of recovered data in File Trace Method

User can view the recovered files from the specified locations.

5. Download Purchase and Register

5.1 Free Trial Download

Kernel for VHD is available as trial version for FREE to download so that a user can analyze the features, functionalities, capabilities and can understand the complete working of the software. The trial version works almost same as that of the full version but with a limitation that it does not allow saving the recovered VHD files. To avoid this limitation, purchase the full version of the software.

Free version of Kernel for VHD can be downloaded from our website:

http://www.nucleustechnologies.com/download-vhd-recovery.html

5.2 Purchase & Register

Purchase the Full version of Kernel for VHD software for saving the recovered files and folders. The FREE trial version of the software allows you to preview the recovered items but does not allow saving them. For saving the recovered items, purchase the complete version of the software.

You can purchase the software through our website:

http://www.nucleustechnologies.com/buy-vhd-recovery.html (encrypted and secure site).

Payment and Delivery

Purchase the Kernel for VHD software from our authorized resellers, which provide number of payment options for your ease - Paypal, FAX, Credit Card, E-cheque, Pay Order, etc.

After making the purchase transaction with our resellers, an email is sent consisting of activation details and download link of the Full version comprising of the activation code. This email is sent to the email address, which you have used while processing the purchase transaction with our resellers.

We suggest you not to use false e-mail address while making the purchase transaction.

For any other details related to purchase process, software activation process, email us at: **sales@nucleustechnologies.com**

5.3 Support

Lepide Software Pvt. Ltd. provides round-the-clock technical support for its product range to solve technical and software queries. The software comes with an embedded help manual that can be accessed by clicking Help in the software main window. You can also press the F1 key on the keyboard of your computer to access the embedded help manual of Kernel for VHD.

Telephone Support:

+91-9818725861

1-866-348-7872 (Toll Free for USA/CANADA)

Email Support:

sales@nucleustechnologies.com for Sales

support@nucleustechnologies.com for Support

contact@nucleustechnologies.com for General Queries

6. Troubleshooting

6.1 Common Issues

What are the limitations in trial version of Kernel for VHD?

The free demo version of Kernel for VHD works almost same as that of the full version of the software but with a limitation that it does not allow saving the recovered VHD files.

6.2 Frequently Asked Questions

1. **How to purchase Kernel for VHD?**

One can buy Kernel for VHD from our website:

http://www.nucleustechnologies.com/buy-vhd-recovery.html

2. **I have lost my full version for Kernel for VHD. Can you help me?**

Please email us at sales@nucleustechnologies.com. Please include your name, address, email address, and order confirmation number (if you have it). We will be happy to help you.

3. **What are the three recovery modes in Kernel for VHD?**

The three recovery modes for Kernel for VHD are Quick Scan, Extensive Scan, and File Trace.

4. **What are the supported Windows OS Platforms for Kernel for VHD?**

The supported Windows OS Platforms for Kernel for VHD are: Windows 8, Windows 7, Windows Vista, Windows XP, Windows 2000, Windows 2003, and Windows Server 2008/R2.

5. **What are the various reasons for corruption of VHD files?**

VHD files may get corrupted due to partition deletion, partition damage and partition formatting.

6. **Give the link for downloading the free trial version of Kernel for VHD.**

The free trial version of Kernel for VHD can be downloaded using the link:

http://www.nucleustechnologies.com/download-vhd-recovery.html

7. Legal Notices

This section comprises the legal specification about Kernel for VHD and the company LEPIDE SOFTWARE Private Limited.

7.1 Copyright Notice

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