

iStorage Server: Remote CD/DVD burning

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KernSafe Technologies, Inc.

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Overview

KernSafe iStorage Server is an advanced and powerful, full-featured software-only iSCSI Target that fully conforms to the latest iSCSI Standard 1.0 (former Draft 20). It is an IP SAN solution allowing you to quickly export existing storages such as disk images, VHD files, physical disks, partitions, CD/DVD-ROMs, tapes or any other type of SCSI based devices and even a variety of popular CD/DVD images to the client machines. The software thus delivers immediate benefits, as it allows storage to be consolidated, virtualized and centrally managed. iStorage Server also provides RAID-1 (mirror) feature enabling you to create two iSCSI devices for mirror backup. Furthermore, iStorage Server also supports a lot of features such as: VHD (Virtual Hard Disk) target, snapshots, STPI, RAID-1 and failover, these features are very important and popular in storage industry world and make iStorage Server suitable for any size of business.

This article will demonstrate how to remotely burn CD/DVD using KernSafe iStorage. Basic idea of remote CD/DVD burning is to create backups on optical disc's but using remote CD/DVD burners. The benefit of that is you don't need to have an optical drive to do it, you can use one remotely. It saves you time and money because every client can use the same optical drive.

In this case we will need at two computers - server with installed iStorage Server software and CD/DVD burner as well as client.

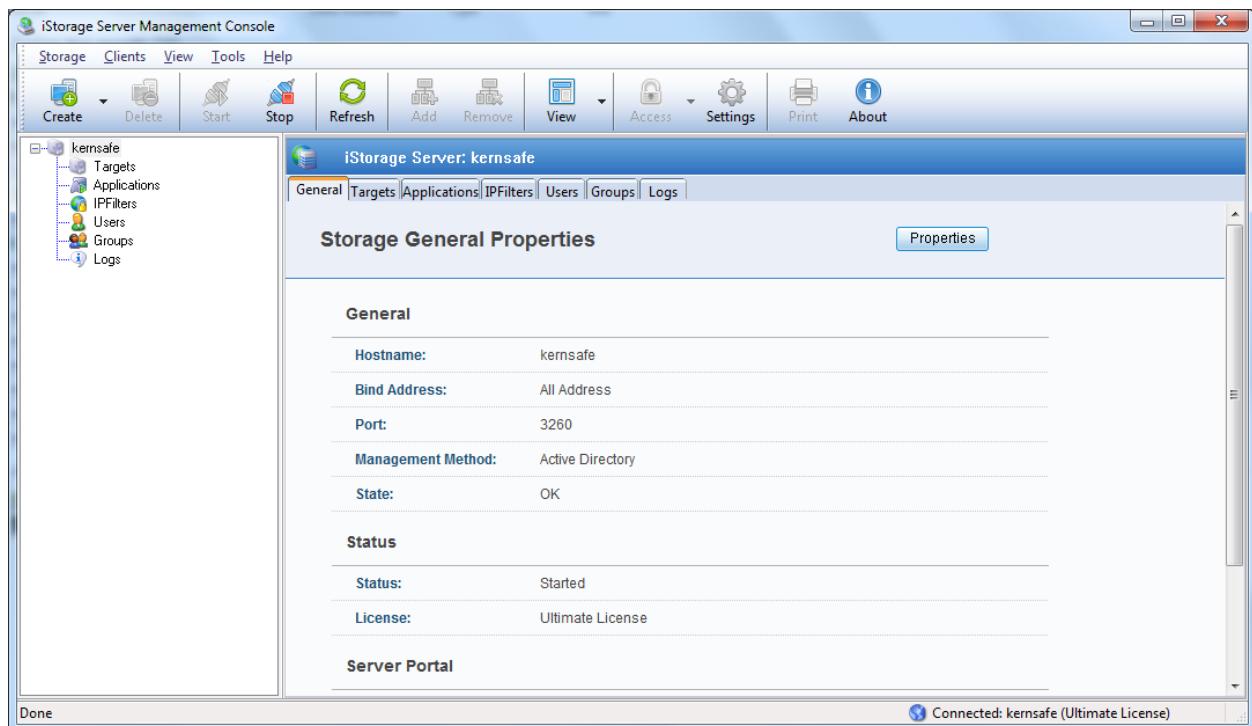
Configuring on iStorage Server

Preparing server to burn a CD/DVD

We will connect to the Physical Drive which in this case will be a CD/DVD burner on the server machine running iStorage Server software.

Creating Target

Open iStorage Server Management Console.



Launch the **iStorage Server management consolle**, press the **Create** button on the toolbar, the **Create iSCSI Target Wizard** will appear.

Select device type.

Create iSCSI Target Wizard



iSCSI Device Type



Select which device type of the iSCSI target you want to create.

Hard Disk

Create iSCSI target by using physical disk, partition, standard image file or VHD.

CD/ DVD Device

Create iSCSI target by using physical optical drive or CD / DVD image file.

Generic SCSI

Create iSCSI target by using generic SCSI device, such as disk, CD-ROM, tape, printer.

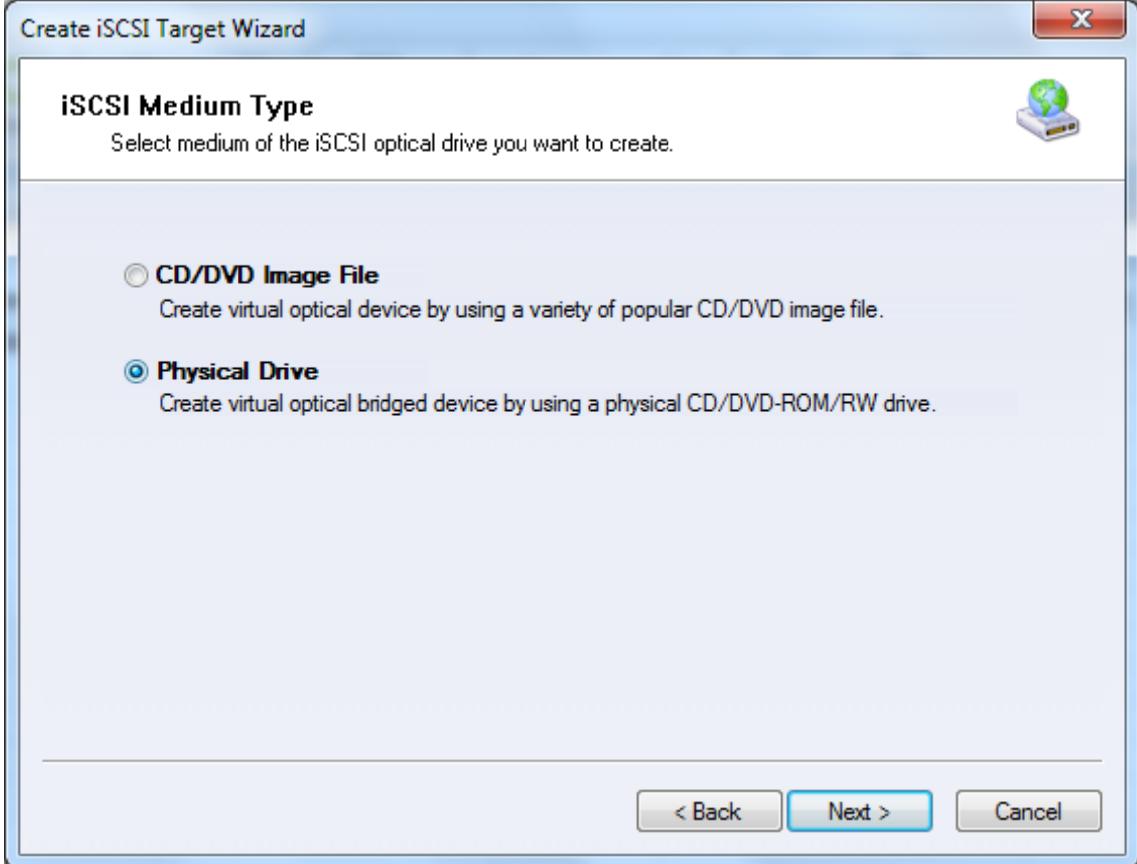
< Back

Next >

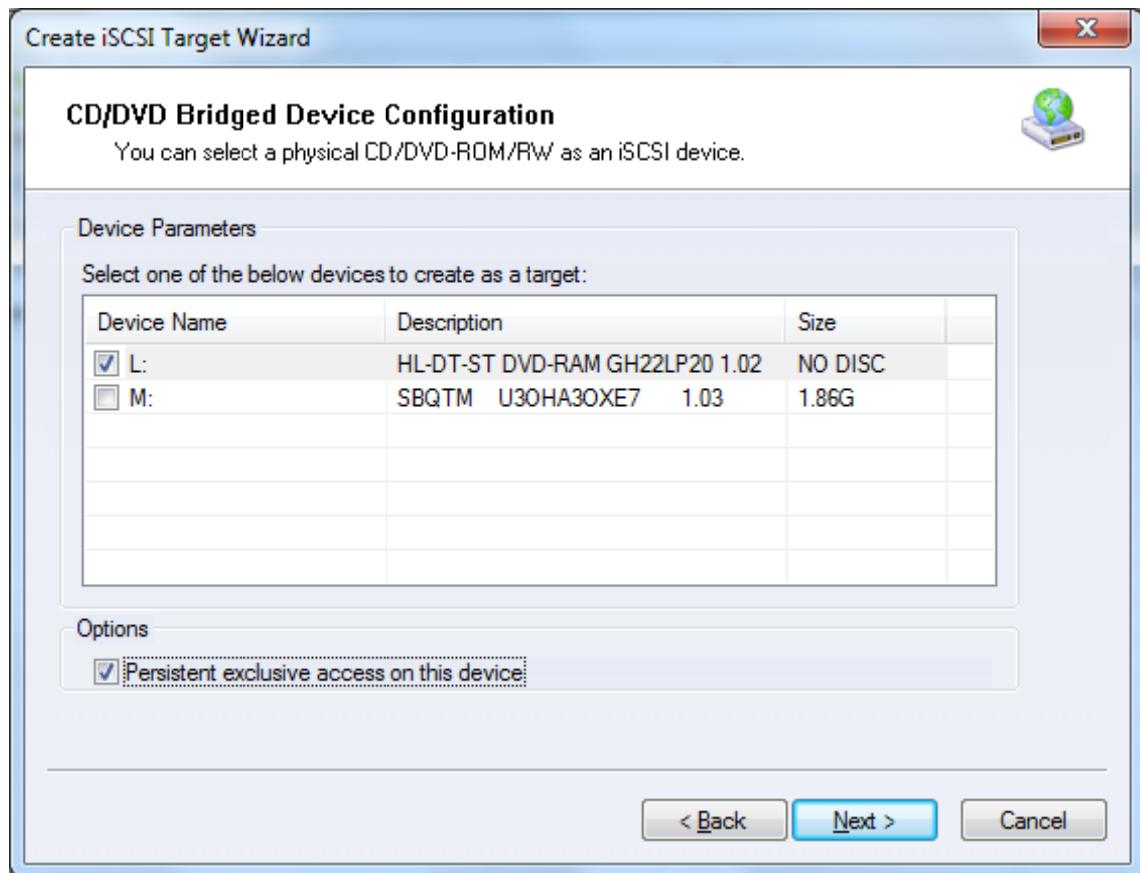
Cancel

Choose **CD/ DVD Device**.

Press the **Next** button to continue.



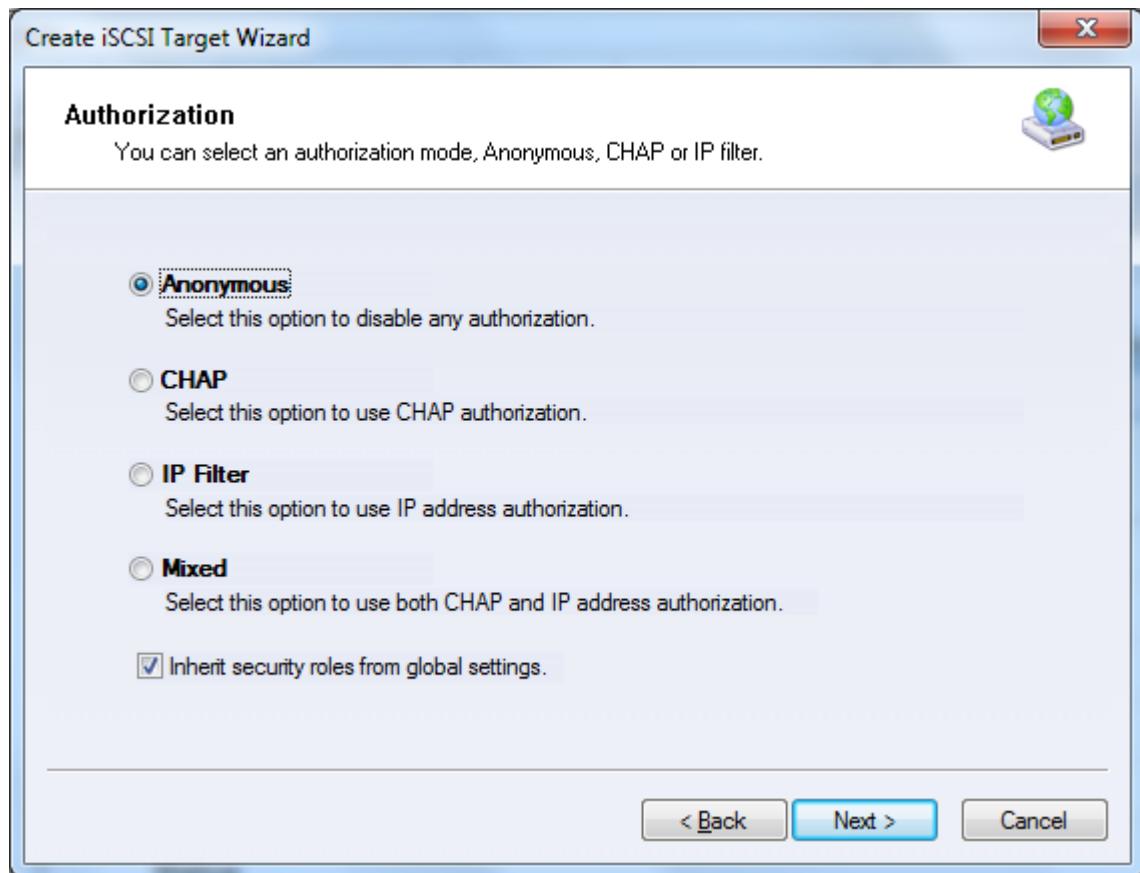
Chose **Physical Drive**, to create a bridged connection.



From the list of available devices choose your optical drive.

NOTE: Make sure option **Persistent exclusive access on this device** is checked on the Vista Operating System or newest versions of Windows.

Press the **Next** button to continue.



Choose the Authentication Mechanism. Decide which authentication mechanisms you would want to use: **Anonymous**, **CHAP**, **IP Filter** or **Mixed** authentication.

1) Anonymous

All initiators will get full access permission without any authorization required.

2) CHAP (Challenge-handshake authentication protocol)

All initiators need to specify a CHAP user and secret to connect to the target. iStorage Server has a built-in user called "Guest", which is used for initiators without CHAP secret specified.

3) IP Filters

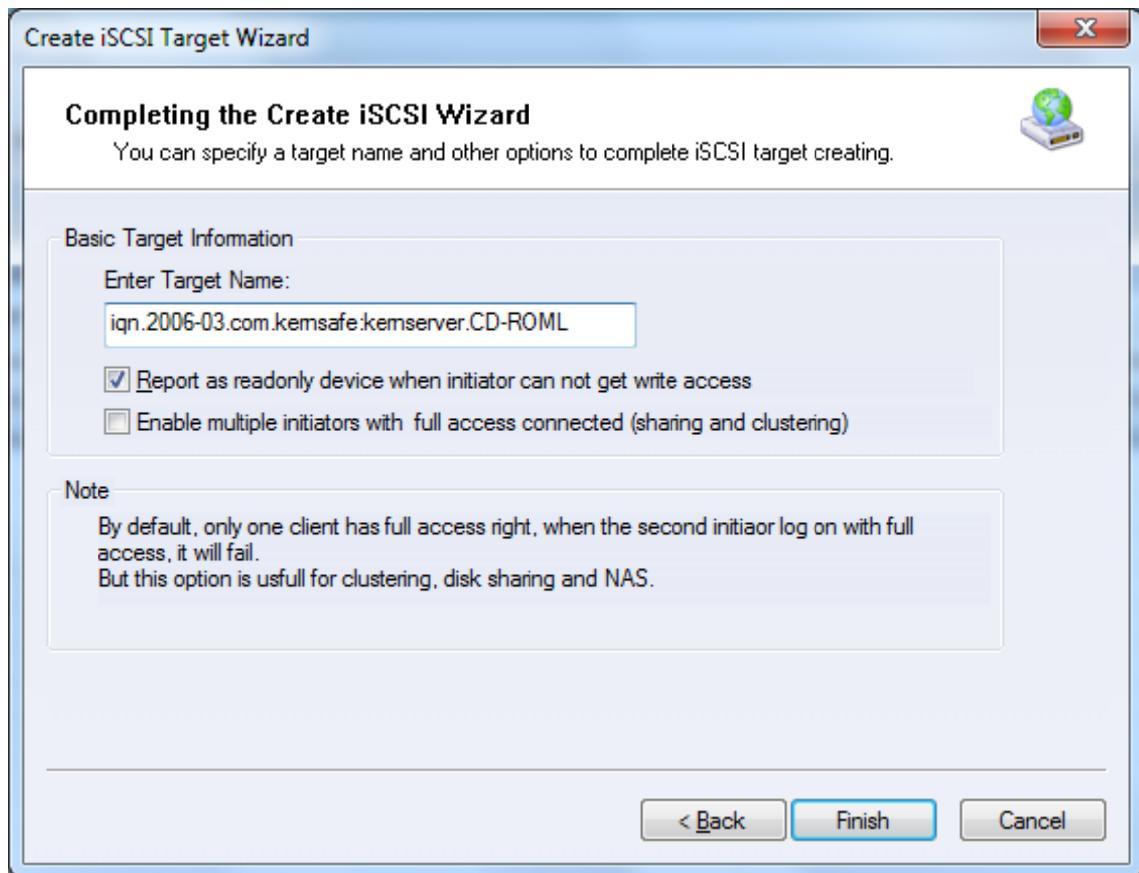
All initiators will be authorized by the incoming IP address defined by IP Filter roles.

4) Mixed

Security policy is determined by both CHAP and IP Filters.

If you check **Inherit security roles from global settings**, all client security roles are form global settings, otherwise, each client will have its own permission.

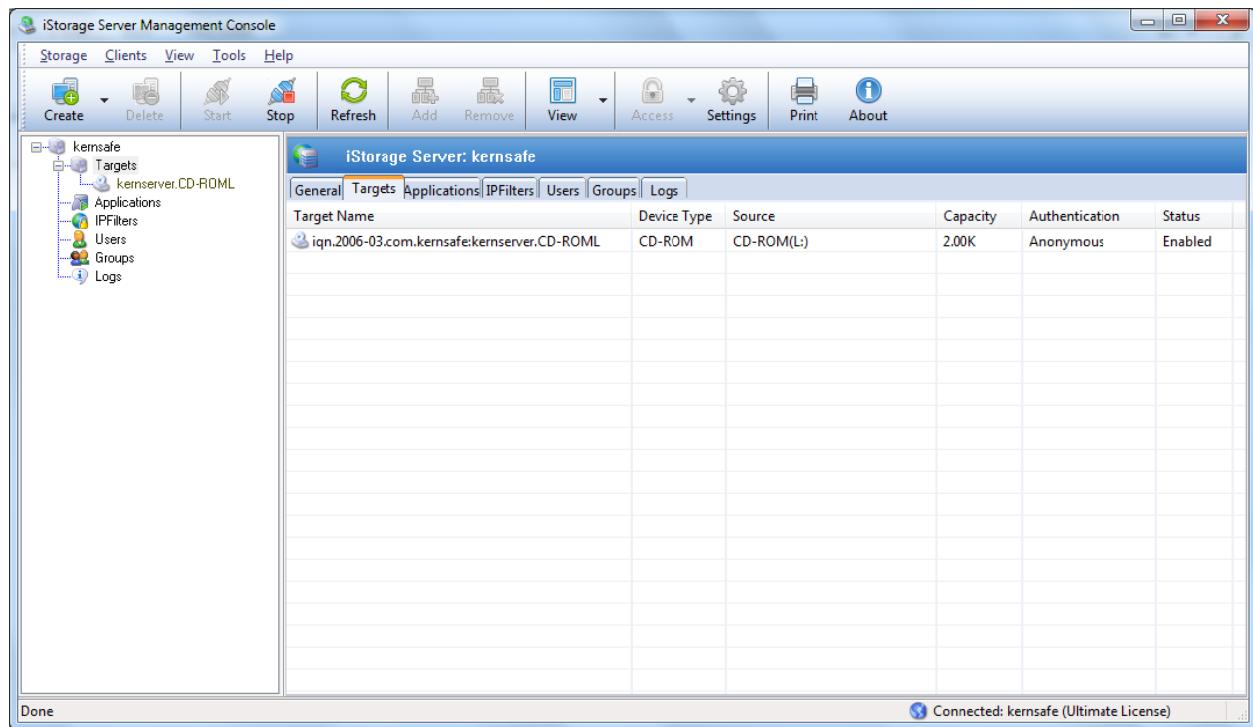
Press the **Next** button to continue.



Enter the name for your target device.

If you check **Report as readonly device when initiator cannot get write access**, the system will give you a report when you load the target without write access.

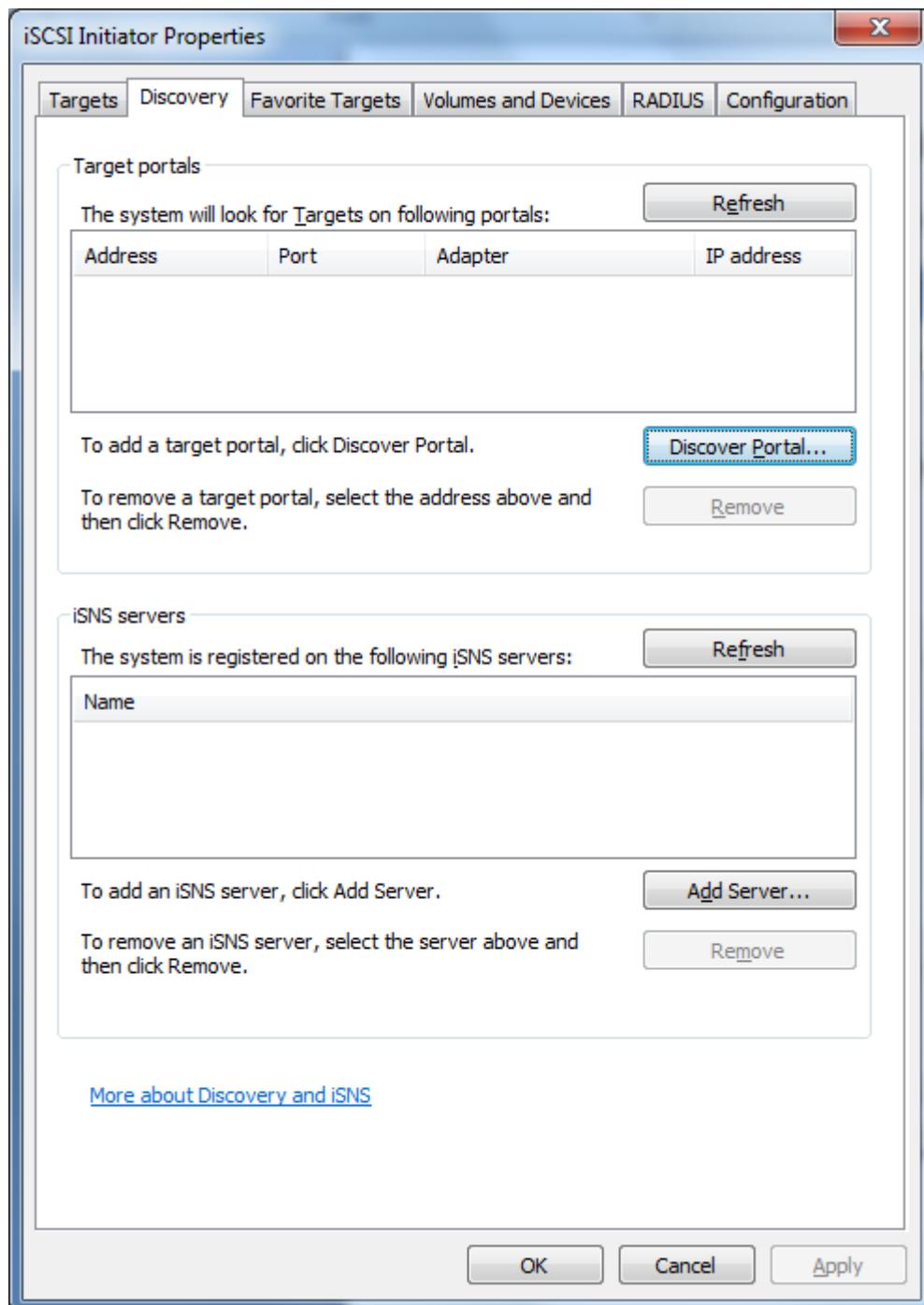
Press the **Finish** button to continue.



After successfully creating an iSCSI Target, you should be able to see it in your **Targets** tab in **iStorage Server Management Console**.

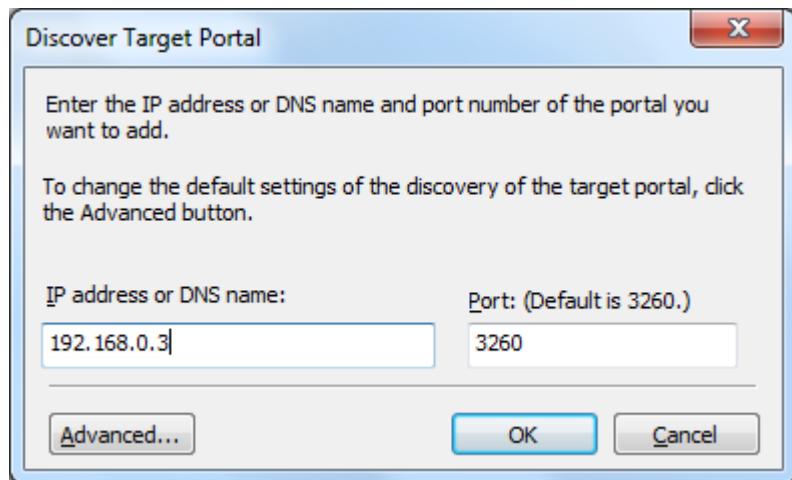
Logging on to the target

Open initiator, in this case I will use **Microsoft iSCSI Initiator**.



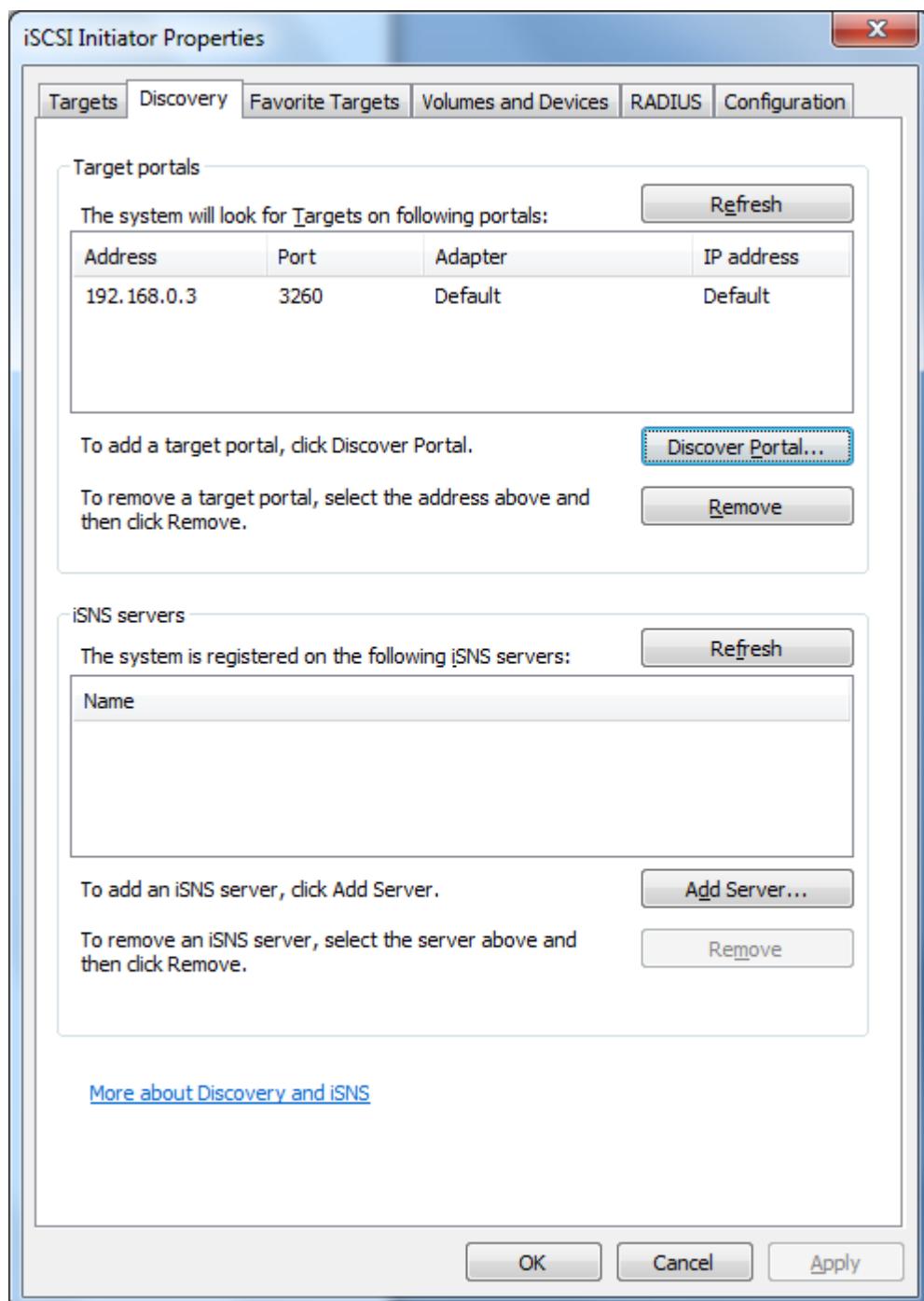
Select the **Discovery** tab page.

Press the **Discover Portal...** button, the **Discover Target Portal** dialog will appear.

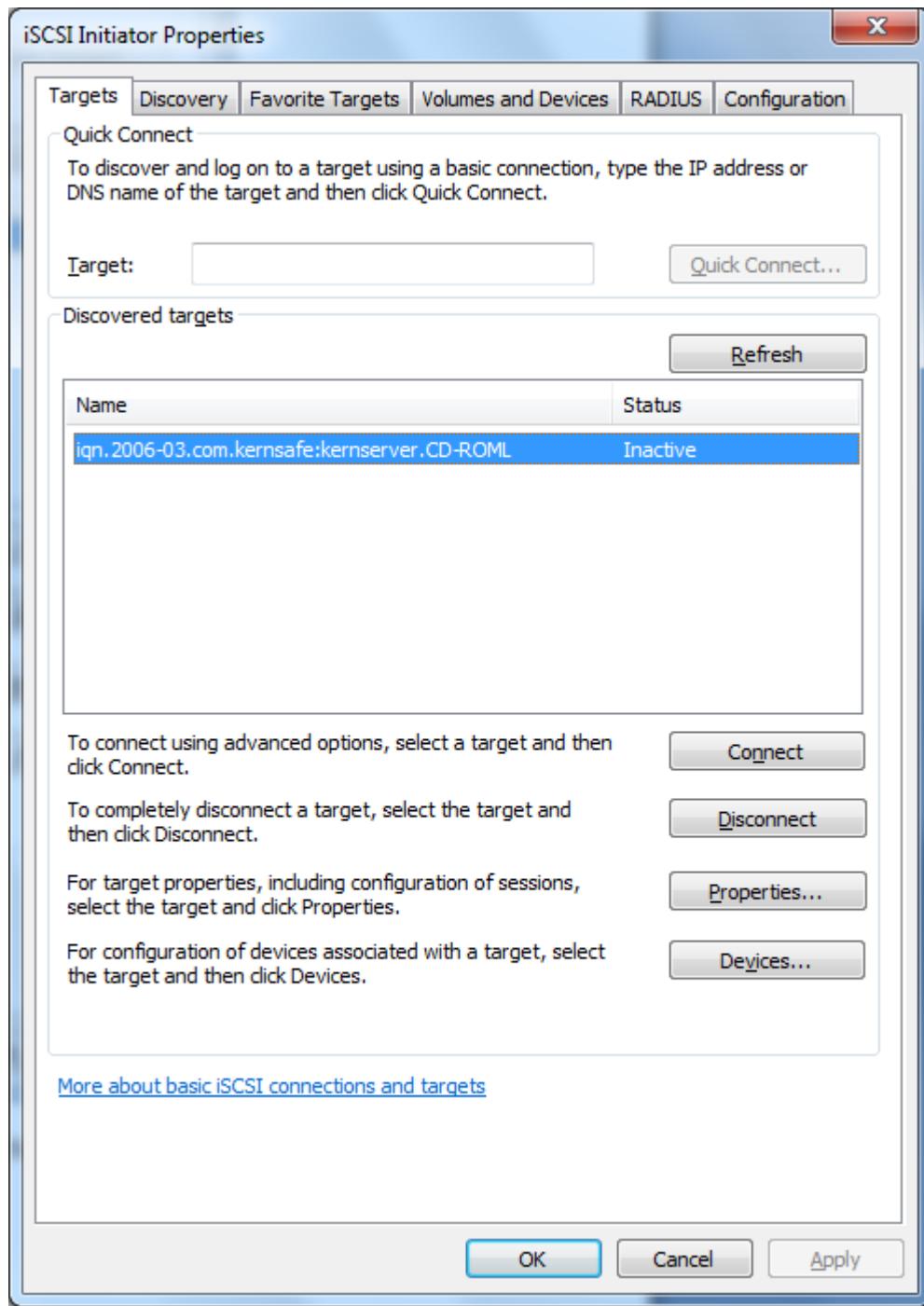


Type the **IP address** and **Port** of your server. Default port is 3260.

Press the **OK** button to continue.

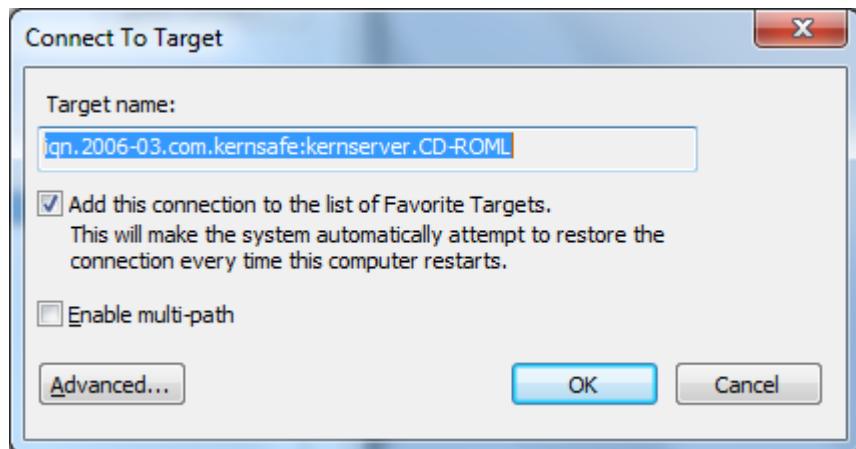


Change to **Targets** tab.



Select the target in the **Targets** list, and then press the **Connect** button.

Then the **Connect to Target** dialog will appear.

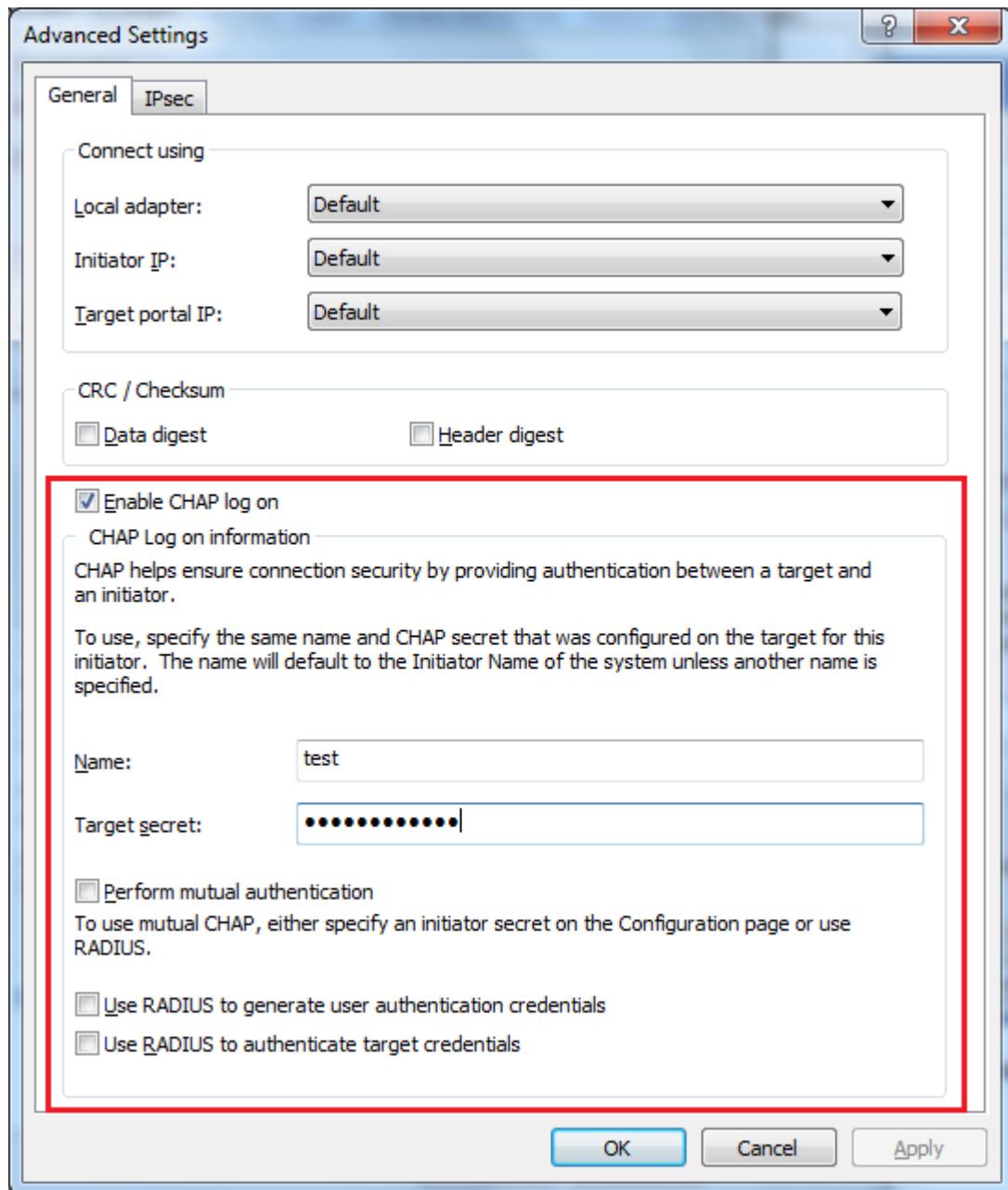


If your iSCSI target is using **IP filter** or **Anonymous** authorization, just press the **OK** button to continue.

Check **Add this connection to the list of Favorite Targets**, to log-on this target automatically after system boots.

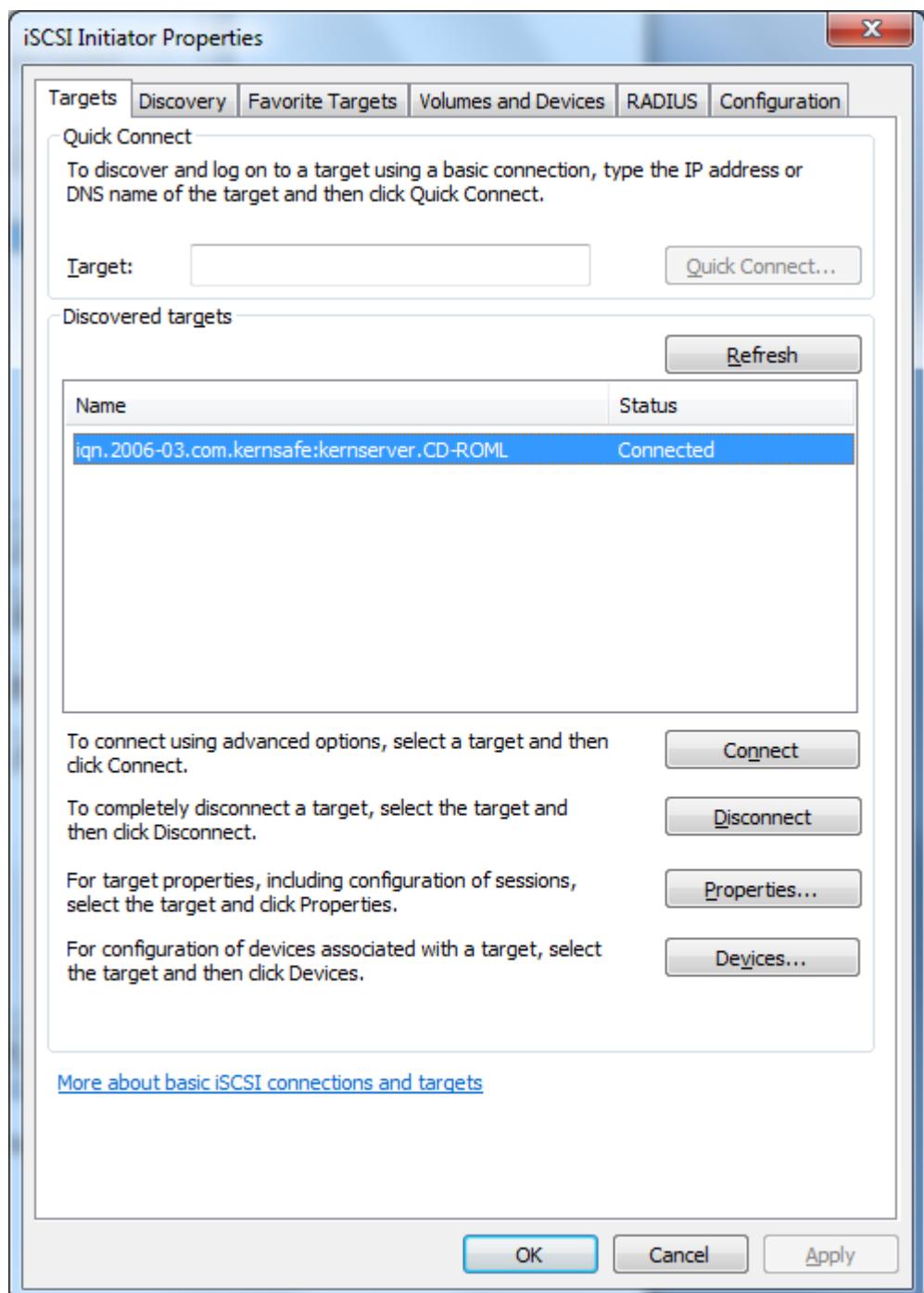
Press the **OK** button to continue.

If your iSCSI target is using **CHAP user authorization**, press the **Advanced...** button, the **Advanced Settings** dialog will appear.

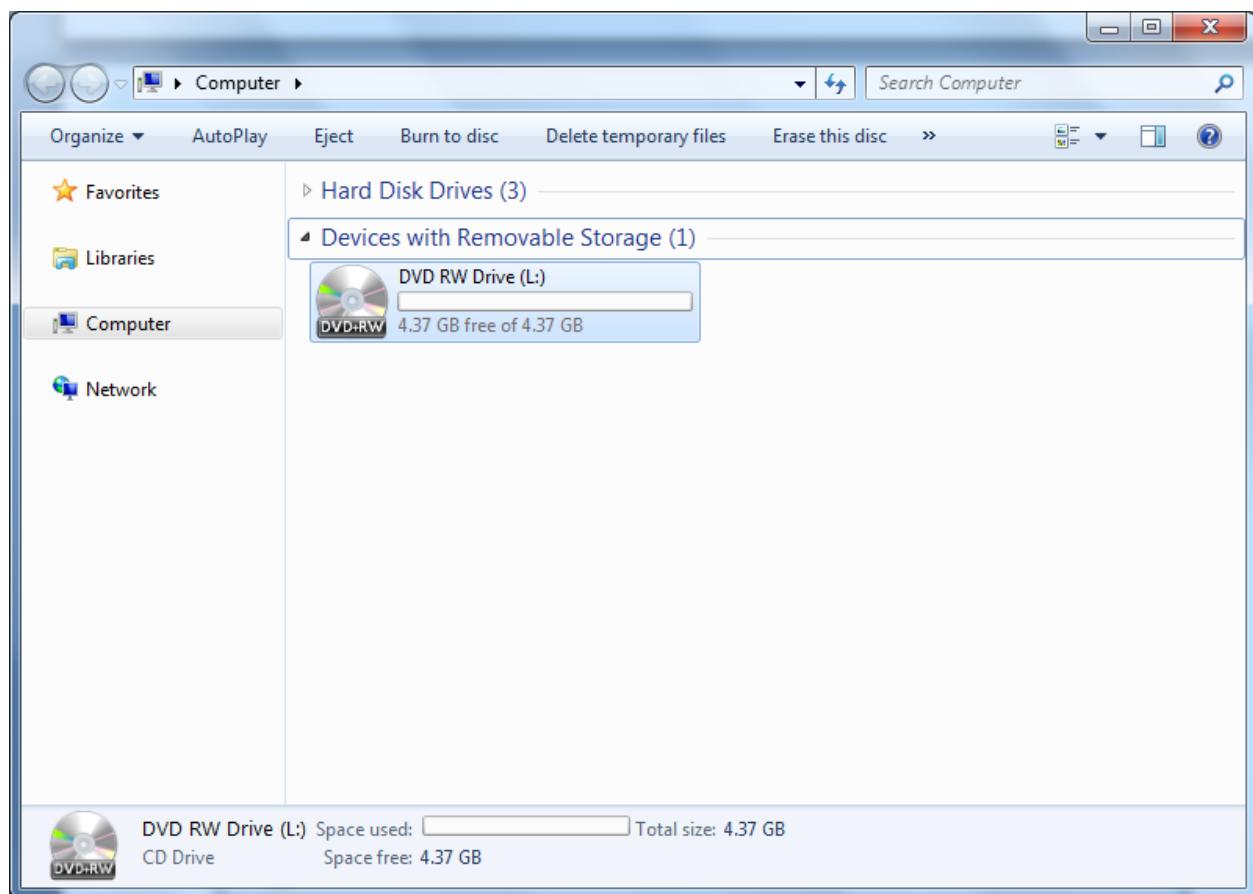


Select **Enable CHAP log on** and type **Name** and **Target secret**.

Press the **OK** button to continue.



When the connection is successfully created, you will see the connection in the **Status** column.



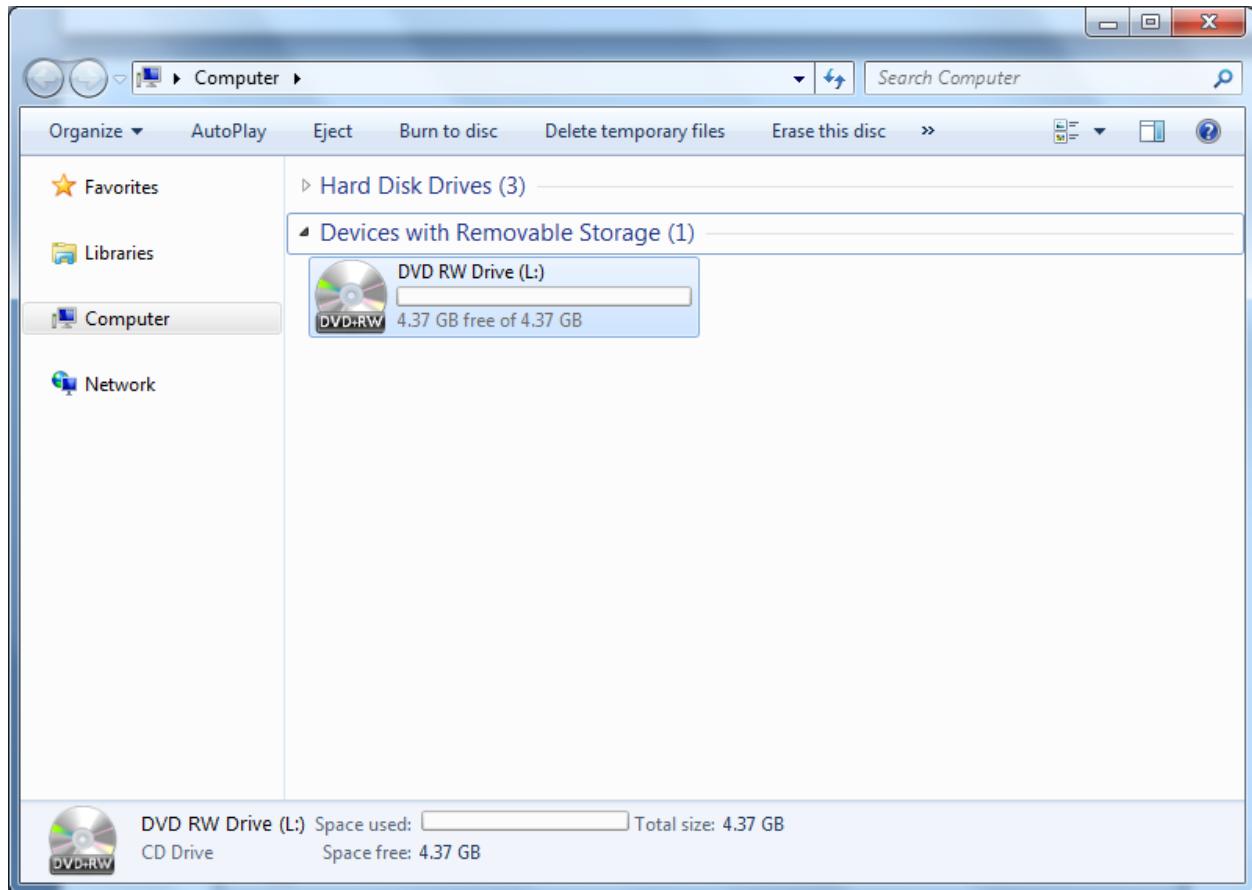
Now, you may now operate the iSCSI optical drive just as a normal CD/DVD drive.

Burning data on to a CD/DVD on the remote server

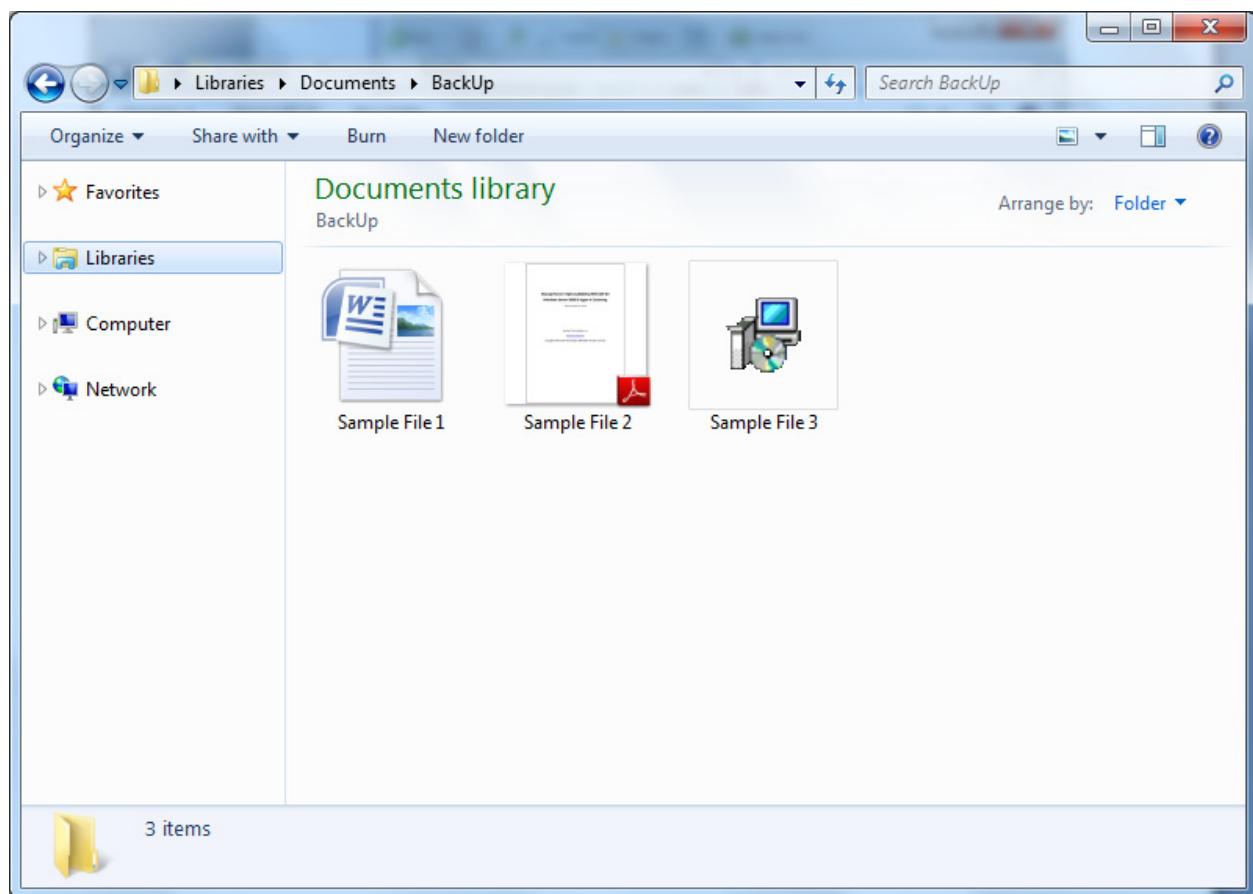
Using Microsoft Default Software

If you want to burn data on to an optical drive on the remote server using default Microsoft software, please do as follows.

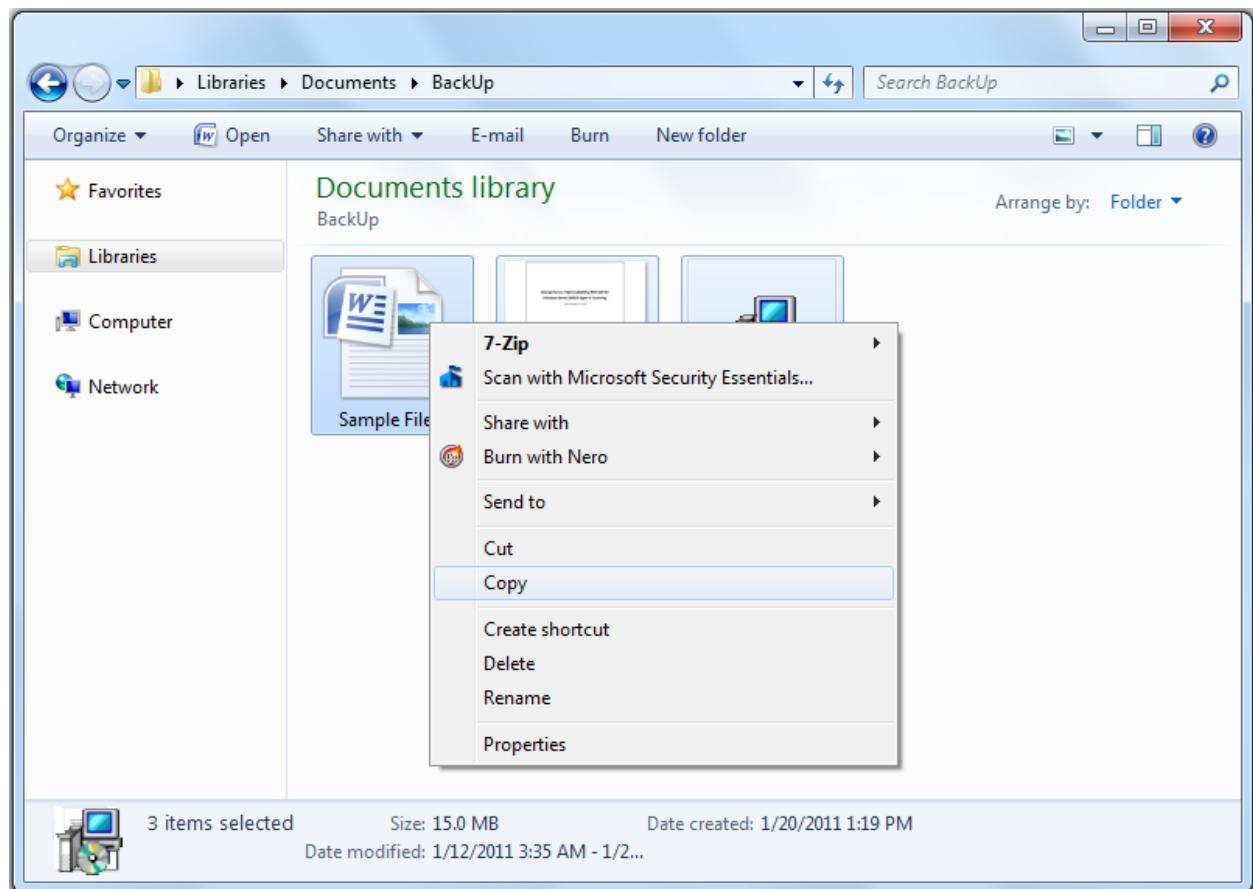
Open **My Computer**.



Browse to the data you want to burn.



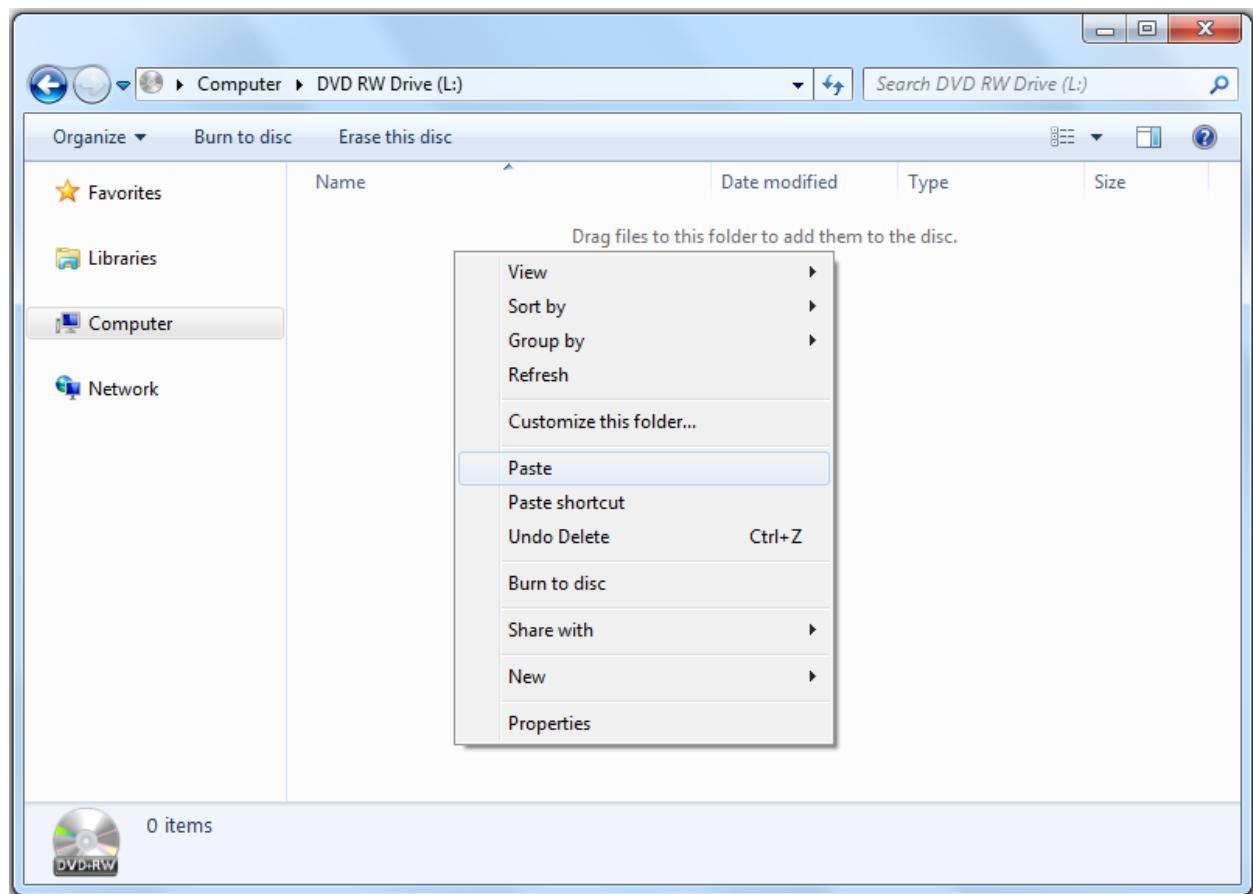
Select the data and copy it by either pressing **CTRL+C** after selection, or choose **Copy** from the content menu.



Open My Computer.

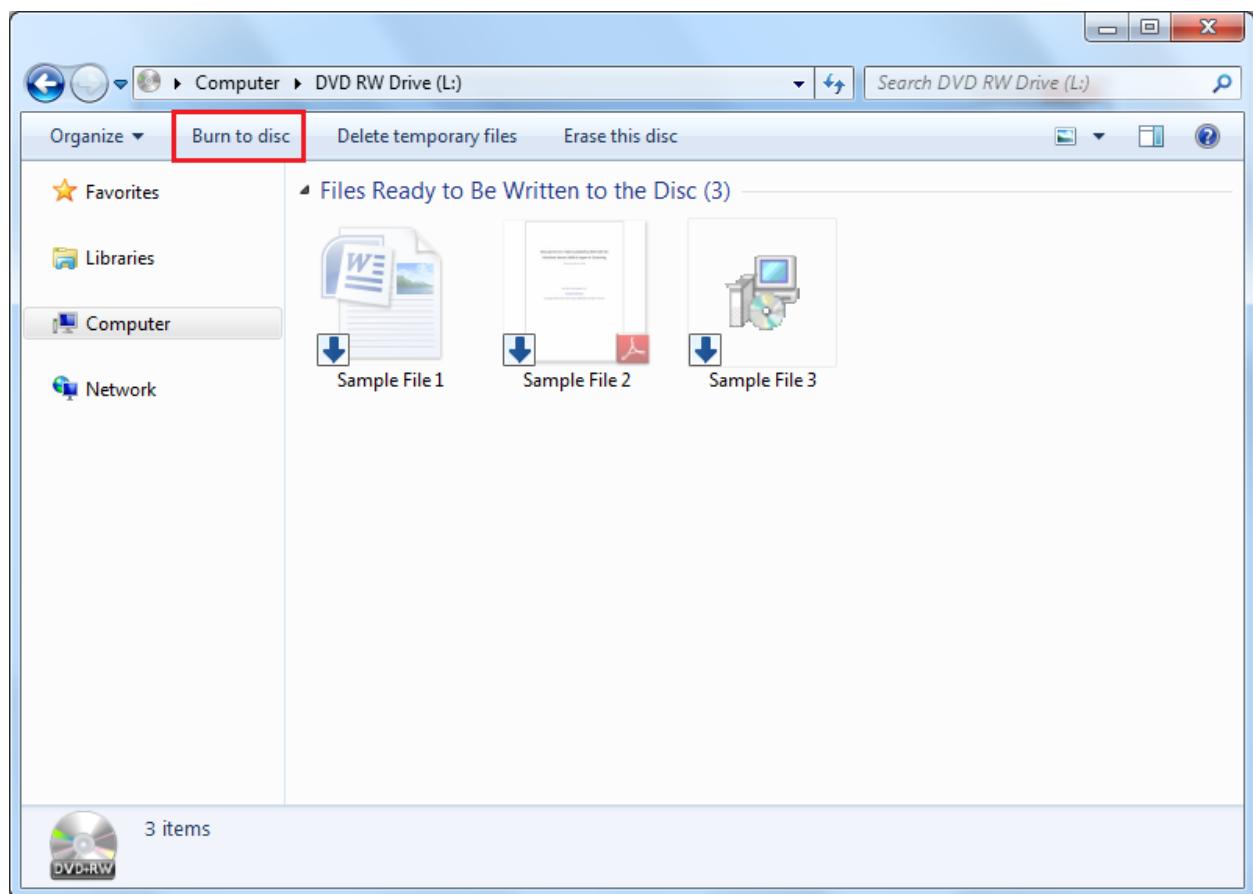
Open Disc Drive which you want to use for burning the data.

NOTE: Please make sure there is a disc in optical drive in the remote server.



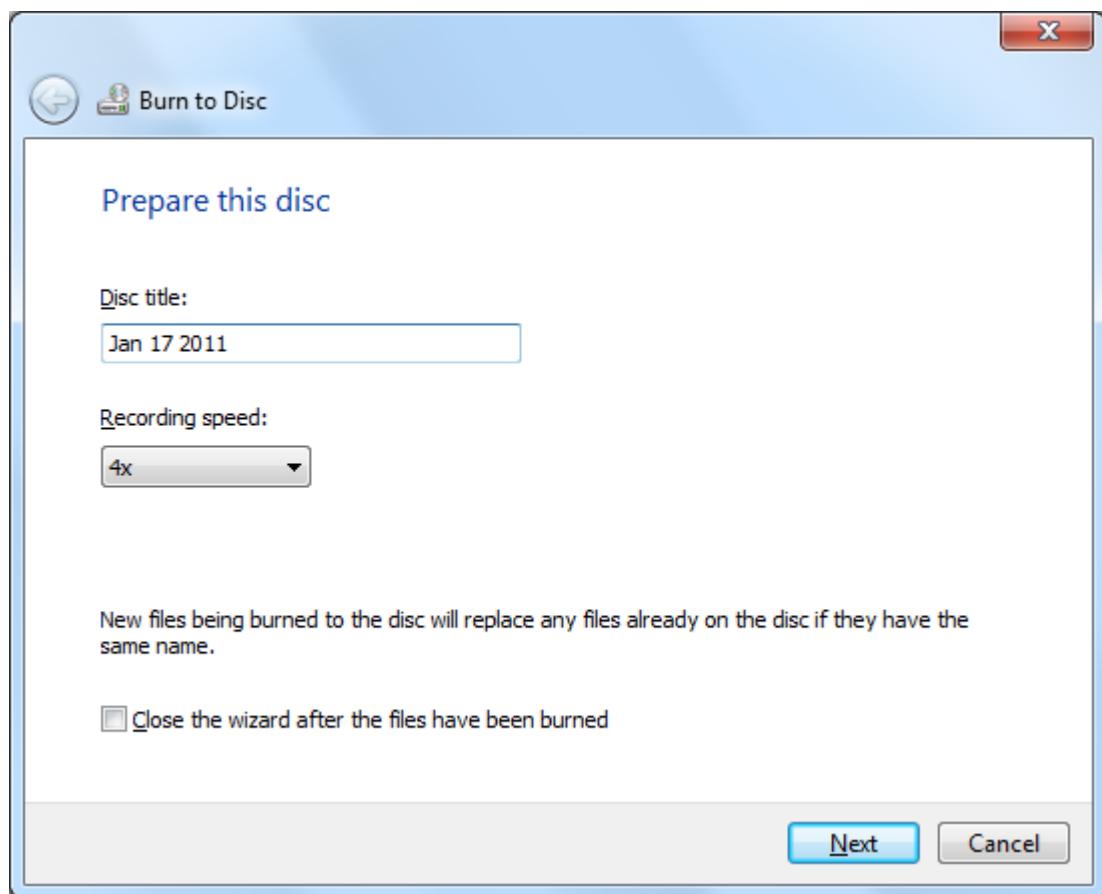
Paste copied files on to a CD/DVD by either pressing **CTRL+V**, or choosing **Paste** from the content menu.

After successfully pasting the temporary files on to a CD/DVD, you should see that those files are ready to be written on the CD/DVD.



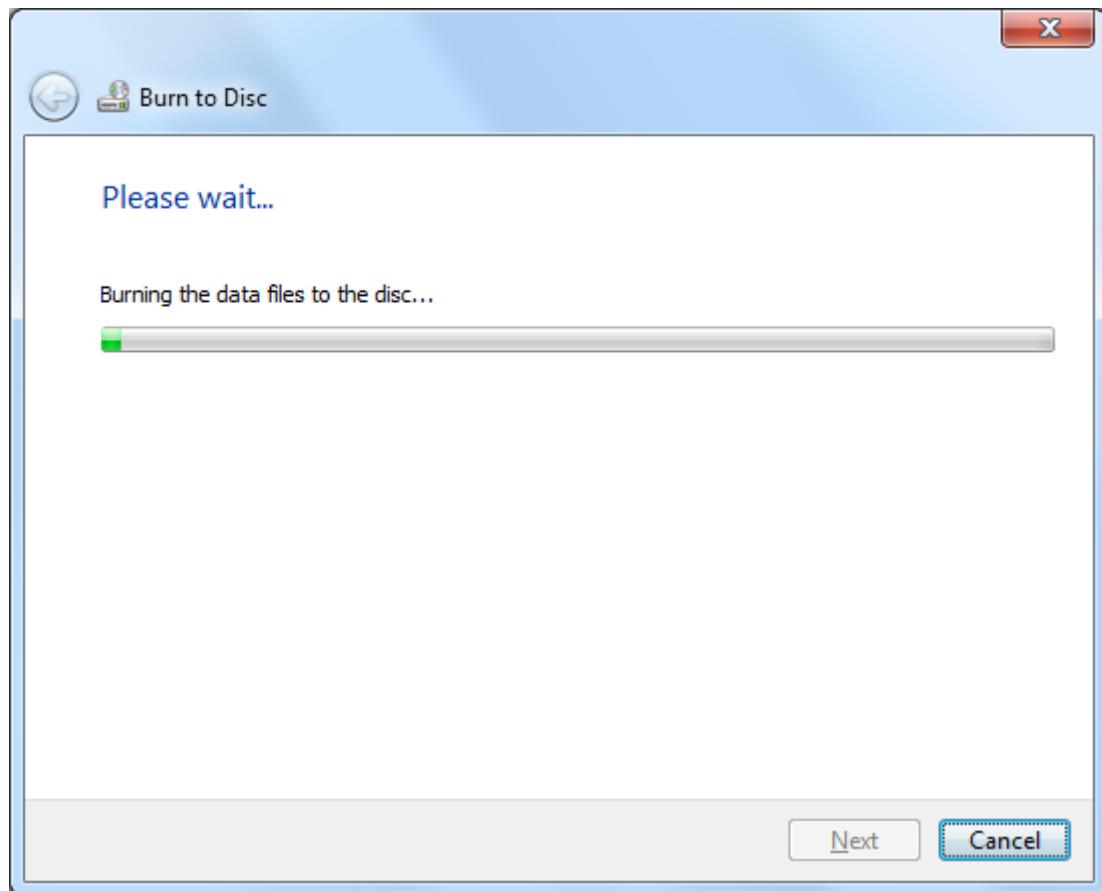
Click **Burn to disc**, to continue.

A **Burn to Disc Wizard** will appear.



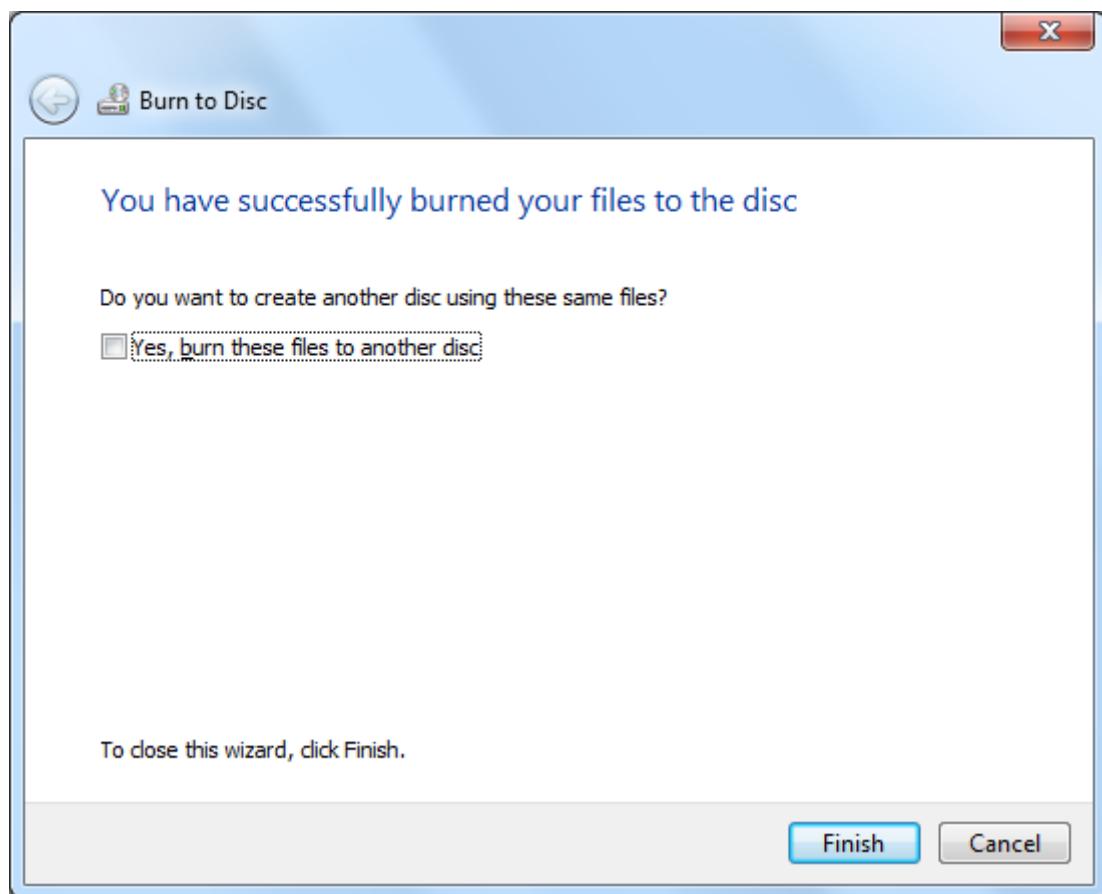
Type your CD/DVD title.

Press the **Next** button to continue.

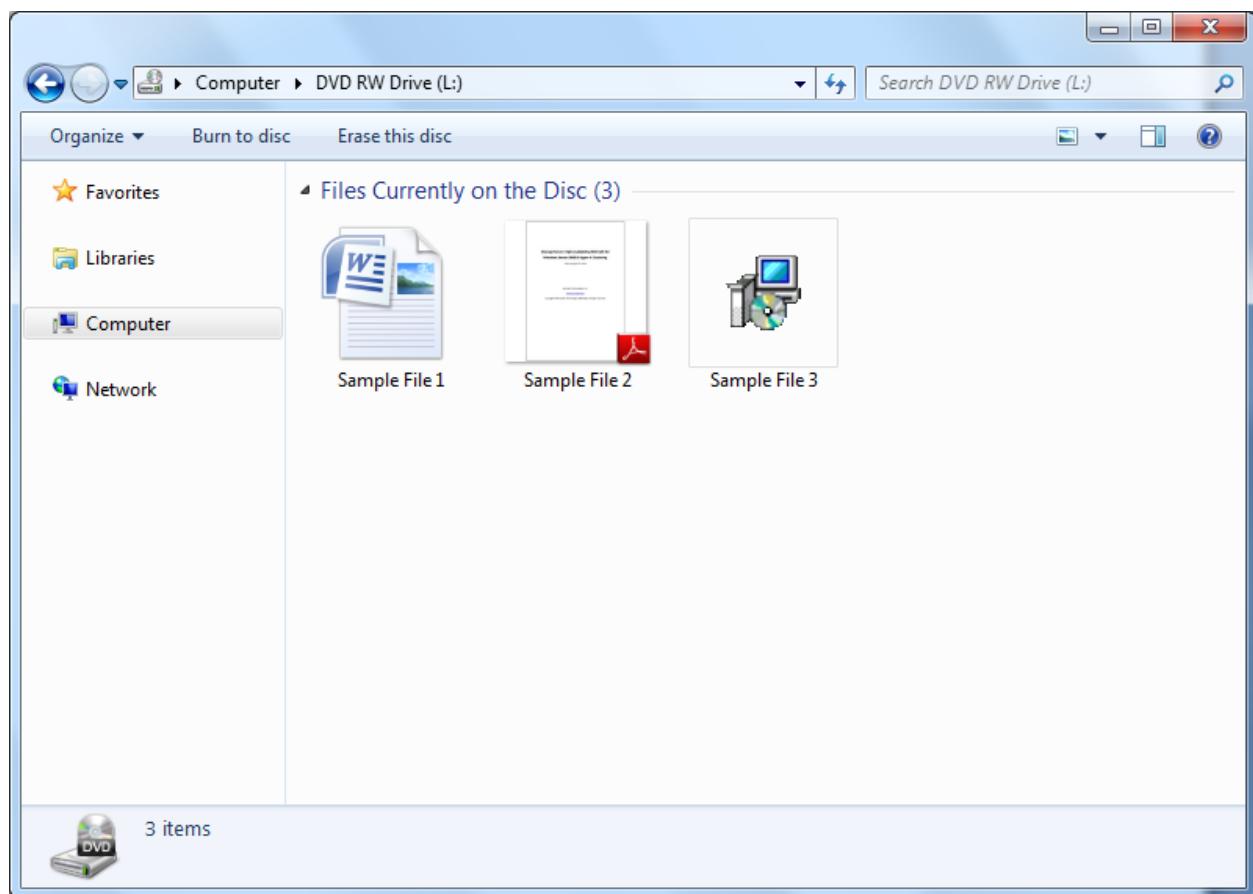


System will burn the data you selected on to disc.

Please wait for the completion of the process.



After successful burning, click **Finish** button to continue.

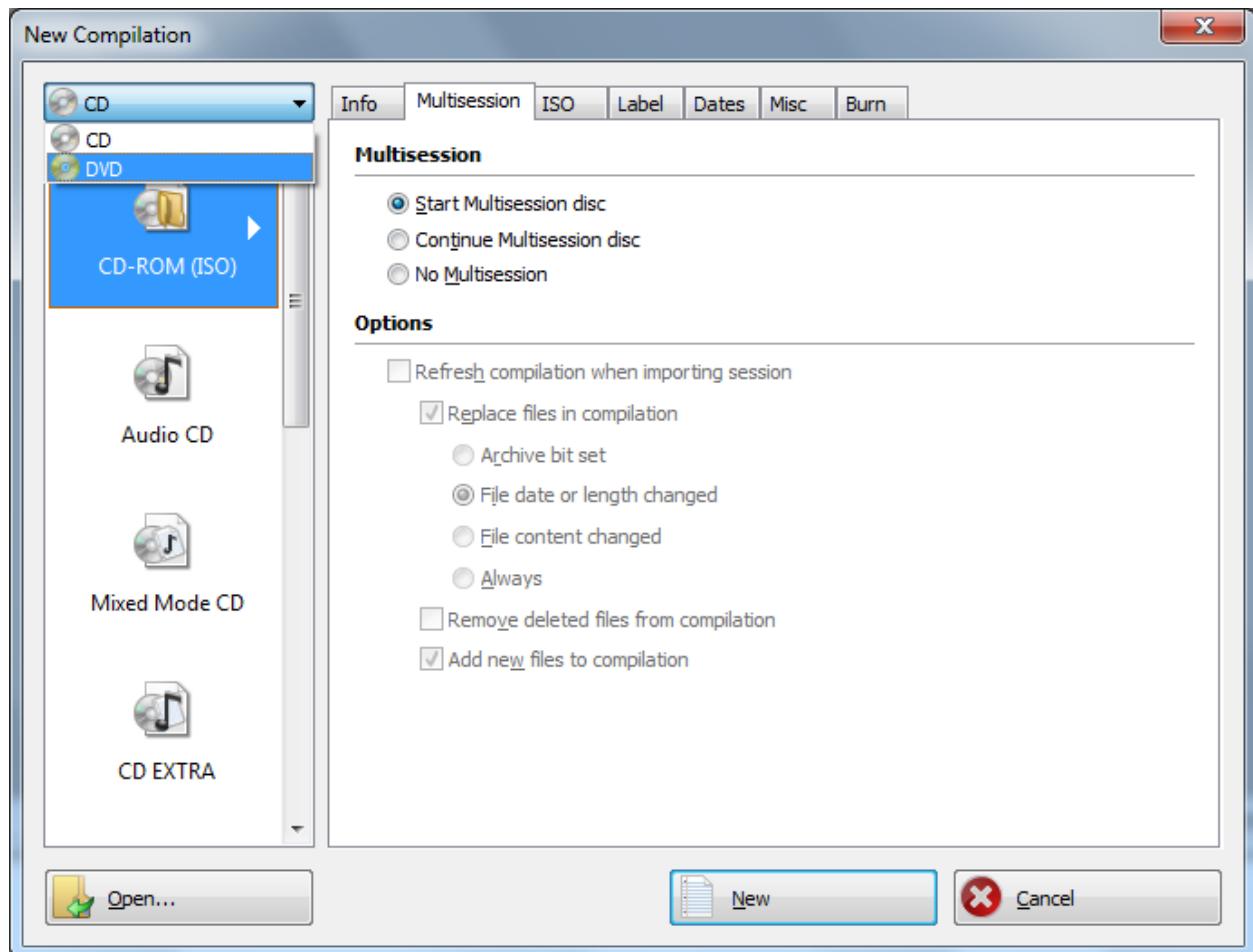


You can now view files you burned by opening drive window.

Using Nero Burning ROM

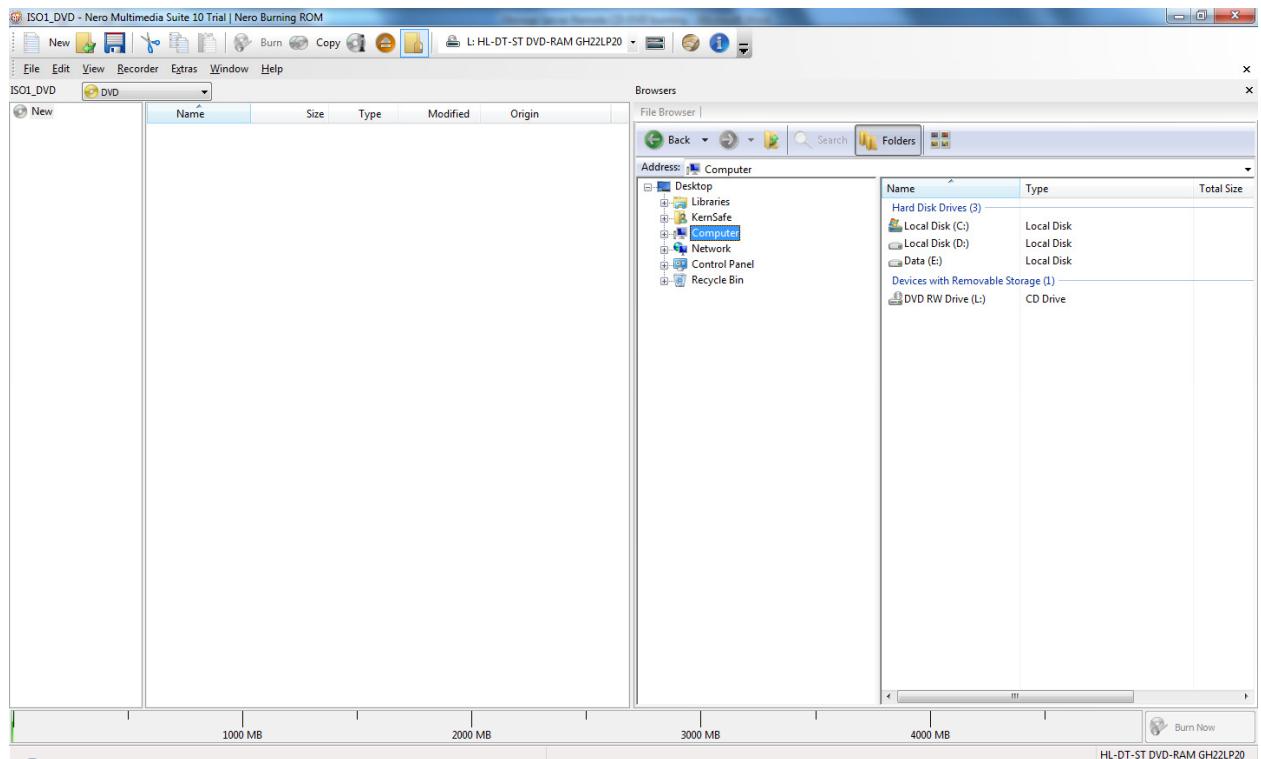
Open Nero Burning ROM, you can download the trial version by following this link
<http://www.nero.com/eng/downloads-nero-burning-rom-trial.php>.

A New Compilation window will show up.

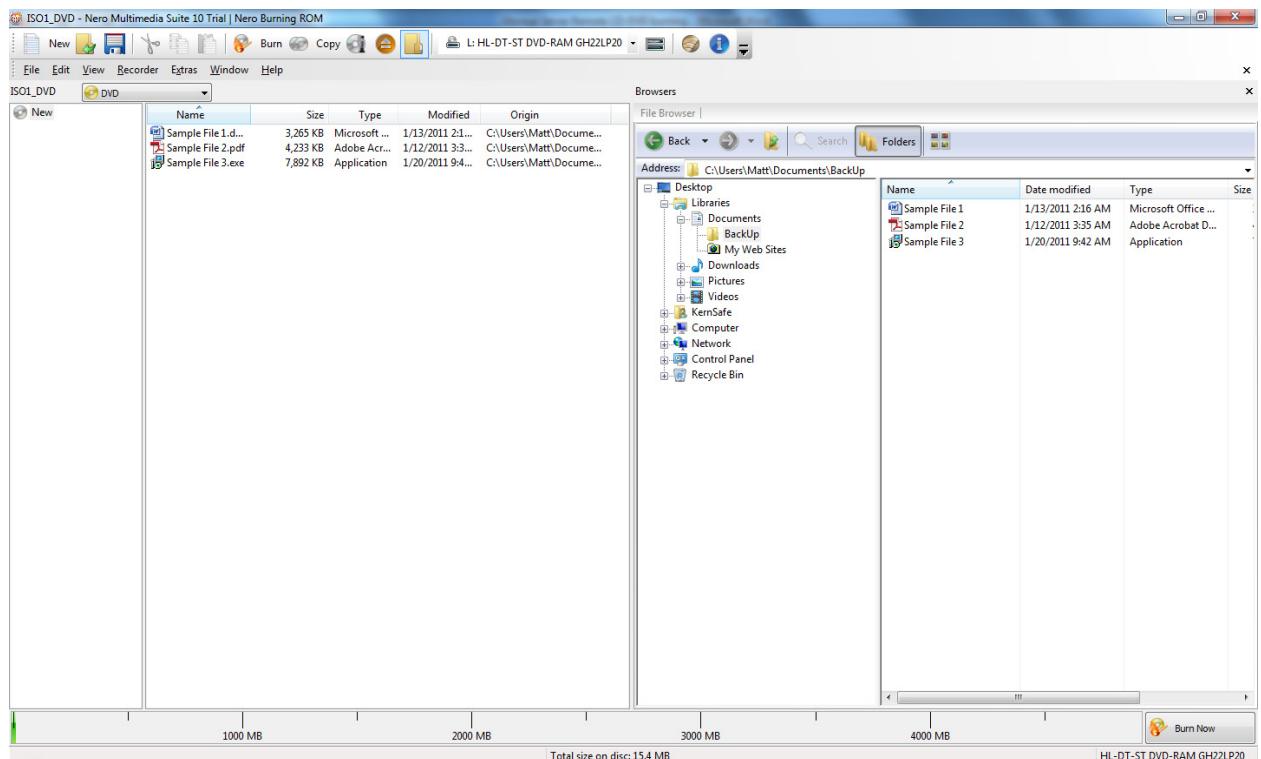


Chose either **CD** or **DVD**, depending on which media you want to write your data.

Click **New** button, to continue.



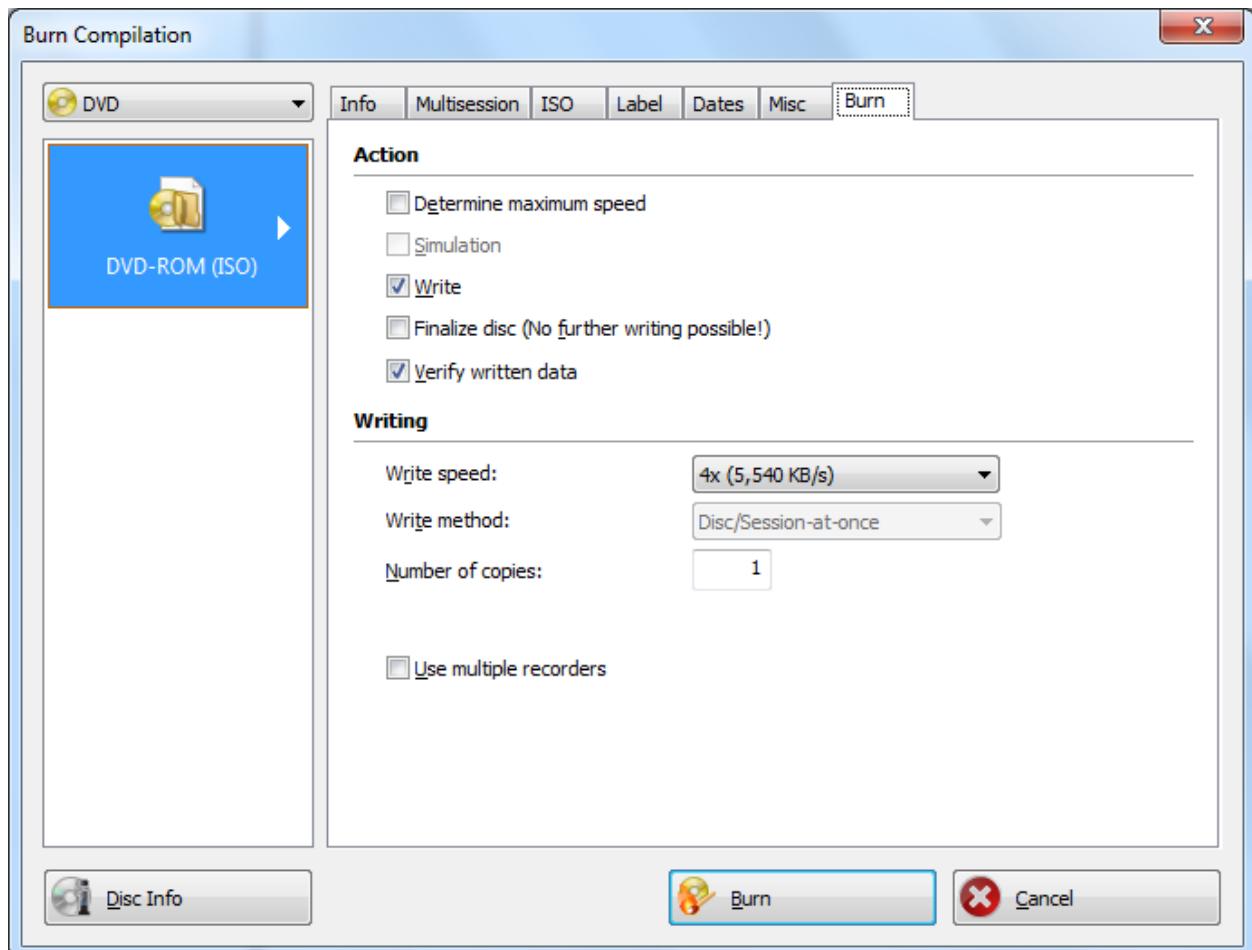
Browse to the directory where you have files you want to burn.



Drag and drop files you want to burn on to the media.

Press **Burn** button, located on the menu bar, to continue.

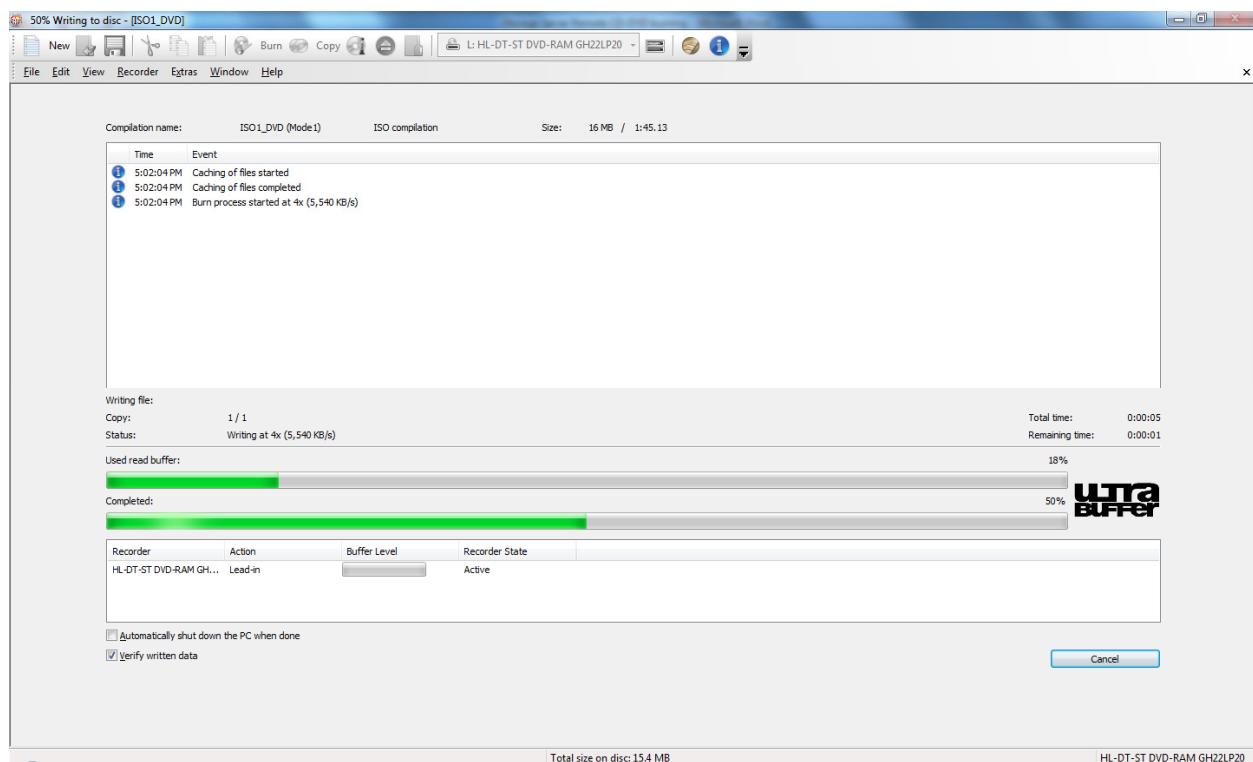
A **Burn Compilation** window will appear.



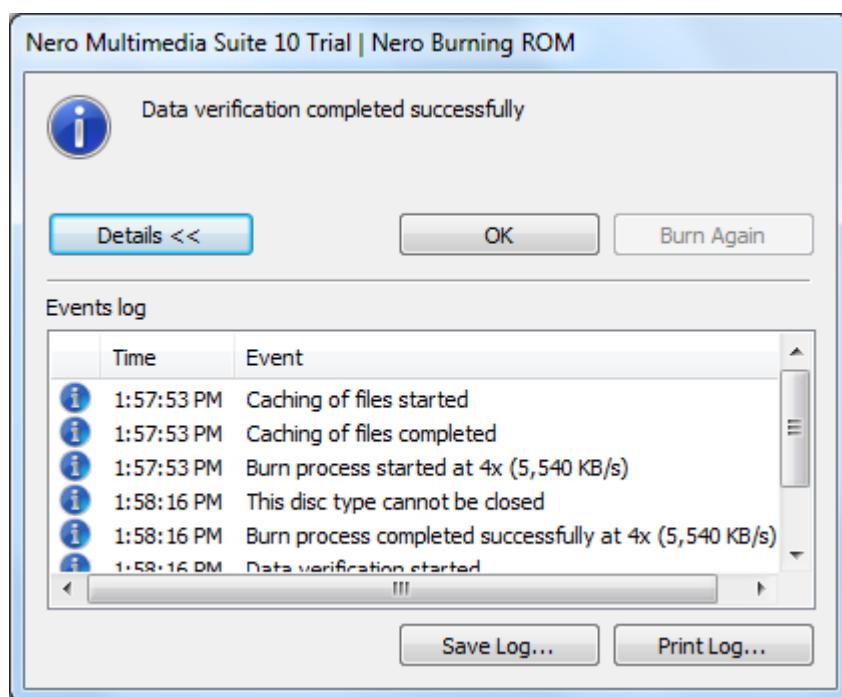
Set up your write speed and click the **Burn** button to start burning the data on the remote burner.

Checking option **Verify written data**, will result in checking checksums of the files, therefore preventing in accidentally writing data with errors. This option is recommended.

Checking option **Finalize disc (No further writing possible!)** will result in impossibility of later adding files to the compilation.

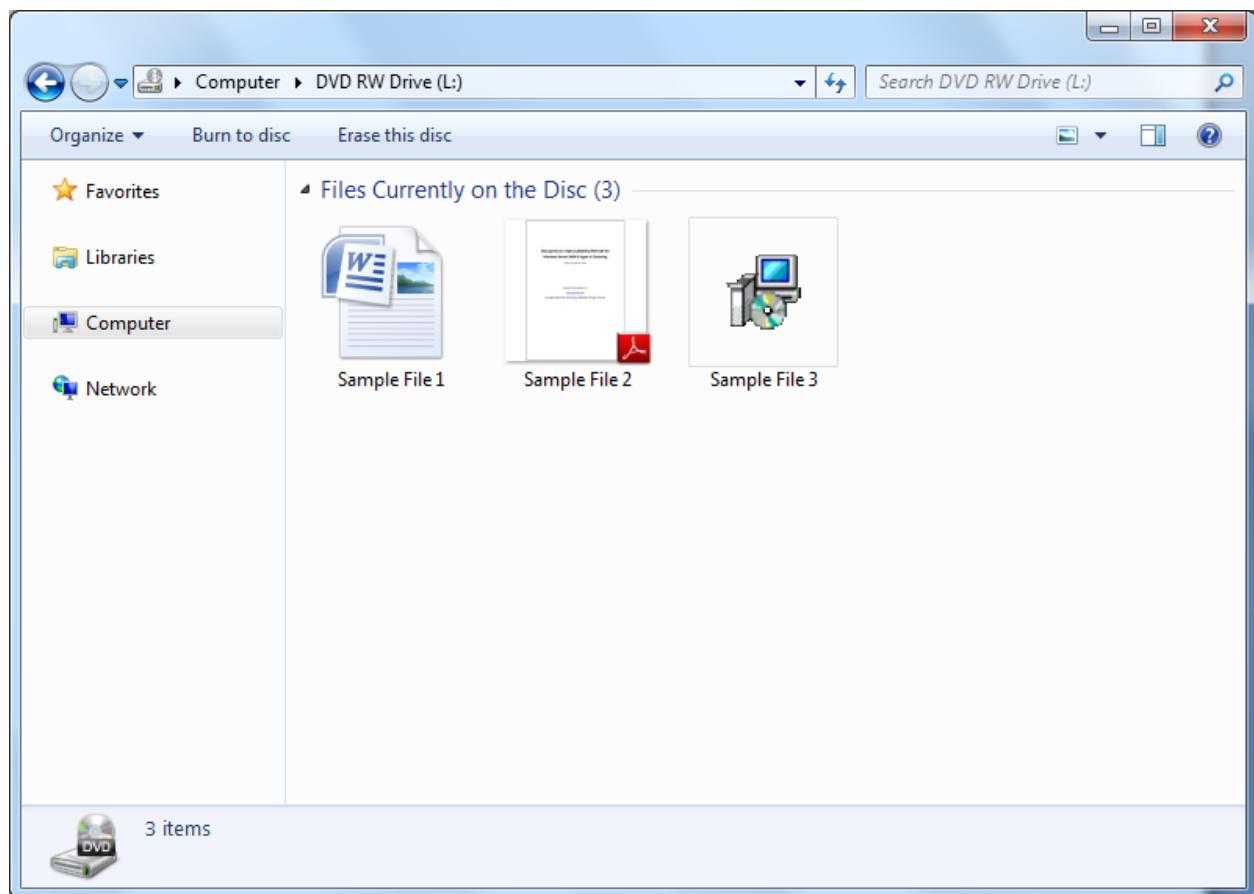


The burning process on the Remote CD/DVD drive will start.



After burning will finish, a window will appear that process was finished successfully.

Press **OK** button, to continue and finish burning CD/DVD on the remote optical drive.



You can now view files you burned by opening drive window.

Contact

Support: support@kernsafe.com

Sales: sales@kernsafe.com

Home Page: <http://www.kernsafe.com/>

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