# K-Backup: Network automatic backup data to free iSCSI SAN

Monday, November 4, 2013



KernSafe Technologies,Inc

www.kernsafe.com

Copyright © KernSafe Technologies 2006-2013.All right reserved.

## **Table of Contents**

Overview	1
Create iSCSI SAN	2
Backup Job	2
Restore Files	13
Contact	17

### **Overview**

KernSafe K-Backup is an advanced and powerful, full-featured automatic backup software. K-Backup can be scheduled to backup files to destination in minutely, hourly, daily, on specified time etc. Being full-featured backup software, K-Backup is fully compatible with Windows Volume Shadow Copy Service (VSS), but is also provides a system snapshot which allows backup data set consistency if no VSS available.

Using Personal Level to perform local backup, this license of K-Backup allows to backup data to "local" storage, "local" of course includes local hard disk, normally another different from backup source disk and also includes iSCSI Disk and NAS drive, here is the figure for Personal user backup data to KernSafe free iSCSI SAN.



K-Backup is released as a shareware; there is only 20 days trial when you are unregistered user. To get more information about license, please visit:

www.kernsafe.com or send an Email to sales@kernsafe.com.

### **Create iSCSI SAN**

With the help of KernSafe iStorage Server, user can create free iSCSI SAN.

iStorage Server can be downloaded from:

http://www.kernsafe.com/download/istorage-server.aspx

Then user can register iStorage Server as free License.

How to create an iSCSI SAN, user can visit:

http://www.kernsafe.com/tech-articles/istorage-server-quick-start.aspx

After connecting to the iSCSI disk, user should format and create partition on the iSCSI disk and then you can use it as local hard disk.

### **Backup Job**

To be convenient and full-featured software, K-Backup has "Windows Folder" medium built in.

e Backup Job	Bac	kup Medium Jot	Monitor Storage Protection Settings	i Log Viewer Help		
Medium Delete	Refres	h Setup				
otember 12, 2013	ID	Name	Medium Identifer	Туре	Status	
	00	Windows Folder	Win32_Directory	Windows Folder	Online	
mmon tasks						
er's Manual rn More						

Open Backup Job tab, press New Backup.

The dialogue will be shown as below.

Source	
Choose Backup Source Select backup source to schedule a backup jo	ь
Source Path	
Add Items Remove Items	White Filters Black Filters
	< <u>Back N</u> ext > Cancel

Click Add Items to select folders which contain the files you want to

backup.

Source		X
Choose Backup Select backup se	Source burce to schedule a backup	job 🤤
Source Path		
D:\office files		
Add Items	Remove Items	White Filters Black Filters
		< <u>Back</u> <u>N</u> ext > Cancel

Click White Filters to configure the strategies.

White Filter List			×
			+
			Grand
	Add Filters	OK	Cancel

#### Click Add Filters.

For convenience, K-Backup has popular file filters built in.

D	ialog		×
	Microsoft Office AutoCAD SQL Server Picture Files Compressed Files Source Code Files The Last Day Modified test		
		ОК	Cancel

Just select Microsoft Office and click OK.

White Filter List	-	
File name	ends with     ▼	.doc -
File name	<ul> <li>ends with</li> </ul>	.docx -
File name	<ul> <li>ends with</li> </ul>	.dot -
File name	<ul> <li>ends with</li> </ul>	.dotx -
File name	<ul> <li>ends with</li> </ul>	.xls -
File name	<ul> <li>ends with</li> </ul>	.xlsx -
File name	<ul> <li>ends with</li> </ul>	.xlt -
File name	<ul> <li>ends with</li> </ul>	.xltx -
File name	<ul> <li>ends with</li> </ul>	.ppt -
File name	<ul> <li>ends with</li> </ul>	.pptx -
		Add Filters OK Cancel

Press **OK** to finish **White Filters**.

Source	×
Choose Backup Source Select backup source to schedule a backup jo	ь
Source Path	
D:\office files	
Add Items Remove Items	White Filters Black Filters
	< <u>Back N</u> ext > Cancel

Press **Next** to continue.

Media		<b>X</b>
Choose Backup Set up backup r	Medium nedium and distination path	Ø
Media Type:	Windows Folder	
Dest Path:	Browse	j
	< <u>B</u> ack <u>N</u> ext >	Cancel

Select Media Type.

Here lists media we have added in **Backup Medium** tab.

Media		×
Choose Backup Set up backup	Medium nedium and distination path	<b>S</b>
Media Type:	Windows Folder	
Dest Path:		Browse
	< <u>B</u> ack	Next > Cancel

Because of backuping to local destination, we should select Windows

#### Folder.

Browse the **Dest Path**.

Media			×
Choose Backup Set up backup n	Medium nedium and distination path		Ø
Media Type:	Windows Folder		•
Dest Path:	E:\Dest Path	Browse	
		< <u>B</u> ack <u>N</u> ext >	Cancel

To use iSCSI SAN, we should select the iSCSI Disk.

Then press **Next** to continue.

Settings	×
Backup Schedule Settings Set up backup schedule and behavior	
Compress Settings <ul> <li>None</li> <li>Seperated Compress</li> <li>Single Compress File</li> </ul>	Increment Settings Full Backup Incremental Backup
Schedule Every # of Minutes	. 1
Options Continue backup left files when error Jgnore reparse directories. Don't create backup item if not backup	ocurs. p file.
	< <u>B</u> ack <u>N</u> ext > Cancel

Configure Backup Schedule Settings.

#### **Compress Settings**

None: Don't compress

Separated Compress: Compress every file singly

Single Compress File: Compress all files into one compress file

#### **Incremental Settings**

Fully Backup: Backup all files during every execution

Incremental Backup: Backup newer files during execution, except

that first execution will backup all files

#### Schedule

Configure the interval time during two automatic executions of one

job.

#### Options

Continue backup left files when error occurs: Job will execute even

when errors occur

Ignore reparse directories: Job will backup only one of the same

directories to save space

Don't create backup item if not backup file: Job will not create a

backup folder if there are no files to be backup

Press Next to continue.

Name			<b>X</b>
Finishing Back Specify a back	<b>up Setup</b> up name and finish the wizard		6
Backup Name:	Office Files		
		< <u>B</u> ack <u>N</u> ext >	Cancel

Type the Backup Name as you like.

Press Next to continue.



Check the information and press Finish to complete it.

K-Backup Suite le View Go Tool	s Help					
lome Backup Job	Backup Medium	Job Monitor Storag	ge Protection Settin	ngs Log Viewer H	Help	
ew Backup Enable [	Disable Restore Re	fresh Setup Delete Ru	un Fully Backup			
October 14, 2013	Backup Name	Source Path	Target Path	Schdule	Туре	Status
	Office Files	D:\office files	E:\Dest Path	Every 1 Minutes	Increment	Enabled
Common tasks						
User's Manual Learn More						

After the job was successfully created, the status should be "Enabled".

📢 K-Backup Sulte						- <b>D</b> ×
<u>File View Go Tools</u>	<u>H</u> elp					
Home Backup Job	Backup Medium	Job Monitor Storag	e Protection Settings	Log Viewer Help		
New Backup Enable D	)isable Restore Ref	resh Setup Delete Ru	n Fully Backup			
October 14, 2013	Backup Name	Source Path	Target Path	Schdule	Туре	Status
	Office Files	D:\office files	E:\Dest Path	Every 1 Minutes	Increment	Backuping
Common tasks						
User's Manual						
Learn More						

When the job is running, the status will change to "Backuping".

### **Restore Files**

After the job was successfully created, you can check execution

information of the job in **Job Monitor** tab.

Skillarkup Sorte Eile View Go Iooli	s <u>H</u> elp			
Home Backup Job	Backup Medium Job Monitor Store	age Protection Settings Log	Viewer Help	
Restore Wizard Refresh	Delete Rename Map Browse			
October 11, 2013	All Backups		•	Refresh
	Backup Name	Backup Time	Finish Time	tem Coun
Common tasks User's Manual Learn More	☐ Office Files 2013-10-11 152548	2013-10-11 15:25:48	2013-10-11 15:25:49	23/23

Press Restore Wizard on the Job Monitor tab.

Rack in Set			
outrop set.	Office Files	•	
Choose Backup Items:	2013-10-11 152548		

Select a backup item and press Next to continue.

Select backup files to be restored			5	F
Files Tree (0 files seleced)	File Size	Modify Time	File Attribut	e
🖃 🔜 🎍 office files	h in the second second			
🖃 🧾 鷆 Data Sheet				Π
Book 1.xlsx	8.00K	2013-09-17 02:59:16	A	
Book2.xlsx	8.00K	2013-09-17 02:59:16	A	
Book3.xlsx	8.00K	2013-09-17 02:59:16	A	
Book4.xlsx	8.00K	2013-09-17 02:59:16	A	=
Book5.xlsx	8.00K	2013-09-17 02:59:16	A	
Book6.xlsx	8.00K	2013-09-17 02:59:16	A	
Book7.xlsx	8.00K	2013-09-17 02:59:16	A	
Book8.xlsx	8.00K	2013-09-17 02:59:16	A	
🖃 📃 퉲 document				-
document01.docx	9.72K	2013-09-17 02:59:27	A	
document02.docx	9.72K	2013-09-17 02:59:27	A	
comment03.docx	9.72K	2013-09-17 02:59:27	A	
document04.docx	9.72K	2013-09-17 02:59:27	A	
document05.docx	9.72K	2013-09-17 02:59:27	A	
document06.docx	9.72K	2013-09-17 02:59:27	A	
				-

You can select separated files or click root directory to restore all

files.

Press Next to select the local destination you want to restore to.

Restore Wizard		<b>×</b>
Choose Destination Folder Select a destination folder to store backup files		õ
Restore To:		
C:\restore		Browse
	< <u>B</u> ack Finish	Cancel

Press **Finish** to restore files.

Combining iSCSI SAN with local backup is an efficient, safe and stable solution.

### Contact

Support:	support@kernsafe.com
Sale:	sales@kernsafe.com
Home Page:	http://www.kernsafe.com/
Product Page:	http://www.kernsafe.com/product/k-backup.aspx
Licensing:	http://www.kernsafe.com/product/k-backup/license-co
	mpares.aspx
Forum:	http://www.kernsafe.com/forum/



KernSafe Technologies,Inc

www.kernsafe.com

Copyright © KernSafe Technologies 2006-2013.All right reserved.