K-Backup: Automatic Network

Backup solution

Monday, November 4, 2013



KernSafe Technologies, Inc

www.kernsafe.com

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

Table of contents

Overview	1
Create Backup Datastore	2
Add Users	2
Create Group	3
Create Datastore	5
Add Medium	8
Backup Job	13
Restore Files	21
Contact	24

Overview

K-Backup provides a convenient and efficient way to backup important files for office employees. With the help of K-Backup, officers are able to backup word documents, Excel documents and others to local folder, shared folder or Network Stream which can be centrally managed on K-Backup Server.

In this whitepaper, we introduce that how to backup office documents to Network Stream.

To backup files to Network Stream, you should have a K-Backup Server to provide network disk.



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 .

Create Backup Datastore

Add Users

Open K-Backup Server Management Console and click Users on the left

server tree.

K-Backup Server Management Consol	e		
File Server Storage Clients Vi	ew Tools Help		
Create Delete Start Stop	Refresh Add Remove View Access	settings Print About	
Servers Tree × Backup Servers E	K-Backup Server: LocalHost		
	User Name	Groups	
	Properties		×
	1.00 0.80 0.60		Read: Write:
	0.40 0.20		
	0.00 Performance]
		🍠 Connected: Loc	alHost (20-Days Trial)

Right click **Uses** and select **New user...**

Create/Edit User dialogue will be shown as below.

Create/Edit User	×
User Name:	test01
Password:	•••••
Confrim Password:	•••••
(User name and	password are case sensitive.
	OK Cancel

Enter the User Name, Password and Confirm Password.

Then press **OK** to add user.

Add more users as above.

3 K-Backup Server Management Consol	e	
<u>F</u> ile <u>S</u> erver Stora <u>g</u> e <u>C</u> lients <u>V</u> i	ew <u>T</u> ools <u>H</u> elp	
Create Delete Start Stop	Refresh Add Remove View Access	- 🔅 📄 🕕 Settings Print About
Servers Tree X	😭 K-Backup Server: LocalHost	
E	General Datastore Users Groups Logs	
	User Name	Groups
Groups	a test01	
Logs	test02	
	a testus	
	۲ III	
	Ø	Connected: LocalHost (20-Days Trial)

Create Group

Right click Groups and then select New Group...

Create/Edit Group	×
Group name:	TEST
Default Access:	Full Access
Members:	
atest01 atest02 atest03	
Add F	lemove
	OK Cancel

Enter the Group name

Then press **Add...** to add users we have created.

Then press **OK**

3 K-Backup Server Management Consol	e		- • ×
<u>File Server Storage Clients V</u> i	ew <u>T</u> ools <u>H</u> elp		
Create Delete Start Stop	Refresh Add Remove View Access	- OF Settings	() About
Servers Tree X	😭 K-Backup Server: LocalHost		
Backup Servers	General Datastore Users Groups Logs		
	Group Name	Members Count	Default Access
e Groups	St TEST	3	Full Access
	1		
	4		
		ダ Connected: LocalHo	st (20-Days Trial)

Create Datastore

Click **Create** on the toolbar then press **Datastore**.

Create	e Datastore Wizard						×
В	ackup Datastore (You can specify a fol	C onfigurati Ider to hold ea	on ch image l	ïles.			2
Se	ecurity disks parameters Specify a folder to hold	d datastores:					
	Device Size in MBs:	256	* *				Browse
File	e system options Sparse file (Recom Compressed (Enab Encrypted (Enable	imended for im ile file system (NTFS encryp	nage files s compress f tion featur	maller then 11 eature) e)	B)		
	User Password End	crypted		< <u>B</u> ack	t <u>N</u> ext	•>	Cancel

Specify a folder to hold disk images.

Create Datastore Wizard
Backup Datastore Configuration You can specify a folder to hold each image files.
Security disks parameters Specify a folder to hold datastores:
C:\backupserver Browse
Device Size in MBs: 1024
File system options
Sparse file (Recommended for image files smaller then 1TB)
Compressed (Enable file system compress feature)
Encrypted (Enable NTFS encryption feature)
☑ User Password Encrypted
< <u>Back</u> <u>N</u> ext > Cancel

And then check Sparse file and User Password Encrypted.

Note: It is recommended to Check Spare file to save disk space.

Press **Next** to continue.

Create Datastore Wizard	x
Authorization You can select an authorization mode, built-in user or Windows.	
 Built-In User Select this option to use built-in user authorization. NT Authorization Select this option to use Windows or Active Directory authorization. Both Select this option to use both built-in user and Windows authorization. 	
Inherit security roles from global settings < 	

Choose Authorization.

To use the users we have created, choose **Built-In User**.

Do not check "Inherit security roles from global settings."

Press **Next** to continue.

Create Datastore Wizard	×
Completing the Create Datastore Wizard You can specify a datastore name to complete datastore creating.	2
Basic Information	
Datastore Name:	
kemsafe.datastore:TEST	
< <u>B</u> ack Finish	Cancel

Enter the **Datastore Name** and then press Finish.

3 K-Backup Server Management Conso	2 June July		
Create Delete Start Stop	Image: Weight of the second	Access Settings Print Abc	Dut
Servers Tree ×	Datastore Name: TEST		
E ↓ test-PC (127.0.0.1:8681) C ↓ Datastore TEST ↓ Users ↓ Logs	General Online Clients CHAP	ties	Properties
	General		
	IQN: TEST		
	Device Type: Netwo	ork Stream	
	Media Type: Secur	ity Images (Sparse)	E
	Authorization Method: CHAP	•	
	Capacity: 1.00G	•	
	Status		
	Status: Enabl	ed	
	File Name: C:\ba	ckupserver\	
	Server Portal		
	192.168.0.112 8680		
	•		•
		🧭 Connecte	d: LocalHost (20-Days Trial)

Then click **CHAP** on Datastore properties tab.

K-Backup Server Management Conso	le		- 🗆 🗙
File Server Storage Clients V	iew Tools Help		
Servers Tree	Refresh Add Remove View Acces	s Settings Print About	
Backup Servers	Datastore Name: TEST		
e 🗊 test-PC (127.0.0.1:8681)	General Online Clients CHAP		
TEST	CHAP Name	Туре	
	Group		
······································	See TEST	Group	
y 3			
	<		Þ
	1	🖉 Connected: LocalHos	t (20-Days Trial)

To use Datastore, we should add the Group we have created.

Add Medium

Open K-Backup management console and press Backup Medium.

ome Backup Job	Bac	kup Medium Job	Monitor Storage Protection Settings L	.og Viewer Help	
w Medium Delete I	Refres	h Setup			
September 12, 2013	ID	Name	Medium Identifer	Туре	Status
	00	Windows Folder	Win32_Directory	Windows Folder	Online
Common tasks					
User's Manual Learn More					

Press **New Medium** to add the network stream.

Mount Device	X
Choose Device Type Select which device type do you want to mount.	٩
Network Stream Mount a network stream device from KBackup Server as backup medium	
Shared Folder Mount a Windows shared folder as backup medium.	
< <u>Back</u> Next >	Cancel

Select Network Stream and press Next to continue.

Select Datastore	
Select datastore which you want to	
	✓ <u>Manage Path</u>
Datastore	Туре
	(Pade Next) Canad

Click Manage Path and add the K-Backup Server.

Select datastore which you want to	create backup media.
92.168.0.112	✓ Manage
atastore	Туре
TEST	Shared

Check **TEST** and press **Next** to continue.

Mount Device		×
CHAP Secret Specify CHAP	user name and secret to log on the device.	9
Media Name:	test]
Login User:	test01]
Login Password:	•••••	
Mount existing a	levice to the media.	
Encrypt this dev	ice	
Password:]
Confrim Password:]
	< <u>B</u> ack Finish	Cancel

Enter the **Media Name**.

The **User** should be that we created on K-Backup Server.

Press Finish and then a Question will be shown as below.



Since the Datastore is empty, Press Yes.

After the medium was successfully added, you can check the medium information by clicking the medium.

📢 K-Backup Suite					×
<u>F</u> ile <u>V</u> iew <u>G</u> o <u>T</u> ools	<u>H</u> elp				
Home Backup Job	Backup Me	dium Job Mo	nitor Storage Protection	Settings Log V	iewer Help
New Medium Delete F	Refresh Setu	0 0			
October 14, 2013	ID Name	Medi	um Identifer	Media Information	
000000114,2015	00 Windo	ws Fold Win3	2_Directory	Name:	test
	01 test	Strea	m{E8D13399-A9C7-4C40-BF0	Device Type:	Network Stream
Common tasks				Status:	Online
User's Manual Learn More				Total Space:	1,073,709,056 Bytes 1024.0 MB
				Used Space:	34,668,544 Bytes 33.1 MB
				Free Space:	1,039,040,512 Bytes 990.9 MB
	•	111	•		Erase

Backup Job

Open Backup Job tab, press New Backup.

The dialogue will be shown as below.

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

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

to backup.

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

Click White Filters to configure the strategies.



Click Add Filters.

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

Dialog		×	J
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	
File name ends with	.dot
File name 🔻 ends with 🔻	.dotx -
File name 🔻 ends with 🔻	.xls
File name 🔻 ends with 🔻	.xlsx -
File name 🔻 ends with 🔻] .xlt
File name 🔻 ends with 🔻	.xltx -
File name 🔻 ends with 🔻	.ppt -
File name 🔻 ends with 🔻	.pptx
	Add Filters OK Cancel

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

Source	X
Choose Backup Source Select backup source to schedule a backup job	S
Source Path	
G: \office files	
Add Items Remove Items	White Filters Black Filters

Press Next.

Media		×
Choose Backup Set up backup r	Medium medium and distination path	٩
Media Type:	Windows Folder	
Dest Path:	test Browse	
	< <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 medium and disti	nation path			٩
Media Type:	test				•
			< <u>B</u> ack	<u>N</u> ext >	Cancel

Press Next to continue.

Settings	X
Backup Schedule Settings Set up backup schedule and behavior	S
Compress Settings None Seperated Compress Single Compress File 	Increment Settings Full Backup Incremental Backup
Schedule Every # of Minutes	1
Options Continue backup left files when error occ Jignore reparse directories. Don't create backup item if not backup fil	urs. Ie.
	< <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			X
Finishing Back Specify a back	t up Setup up name and finish the wizard		١
Backup Name:	Office Files		
		< <u>B</u> ack <u>N</u> ext >	Cancel

Type the Job Name as you like.

Then Press **Next** to continue.



Check the Job information and press Finish.

📢 K-Backup Suite					
Home Backup Job	Heip Backup Medium	Job Monitor Storage Protection Settings	Log Viewer	Help	
New Backup Enable D	isable Restore Refre	sh Setup Delete Run FullyBackup			
October 11, 2013	Backup Name	Target Path	Schdule	Туре	Status
	Office Files	\\.D92EA6C1-ED7D-494E-BCDA-472	Every 1 Mi	Increment	Enabled
Common tacks					
	-				
User's Manual Learn More					
	•	III			- F.

Restore Files

After the job was successfully created, you can check execution

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

<mark>€</mark> K-Backup Suite <u>F</u> ile <u>V</u> iew <u>G</u> o <u>T</u> ools	Help			- • ×
Home Backup Job	Backup Medium Job Monitor Storage Protecti	ion Settings Log	Viewer Help	
Restore Wizard Refresh	Delete Rename Map Browse			
October 11, 2013	All Backups		•	<u>R</u> efresh
	Backup Name	Backup Time	Finish Time	Item Count
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.

Restore Wizard				×
Choose Backup Ito Select a backup ite	em em to restore			õ
Backup Set:	Office Files	•		
Choose Backup Items:	2013-10-11 152548			
🔽 Browse backup set a	nd choose specified files to restore.			
		< <u>B</u> ack	<u>N</u> ext >	Cancel

Select a backup item and press Next to continue.

Select backup files to be restored			
Files Tree (0 files seleced)	File Size	Modify Time	File Attribute
Image:			
🖃 🥅 🍌 Data Sheet			
Book1.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
document03.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	Α .

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. K-Backup Server provides a central and safe environment to store the important office files. Even though your local files have got lost, you can easily restore the files from K-Backup Server.

Administrators can check the user information on K-Backup Server after logging in from K-Backup.

K-Backup Server Management Consol	e				• X	
<u>File Server Storage Clients Vi</u>	ew <u>T</u> ools <u>H</u> elp					
Create Delete Start Stop	Refresh Add Remove View	Access S	ettings Print Ab	Dout		
Servers Tree × Backup Servers 	Datastore Name: TEST General Online Clients CHAP					
TEST	User Name	IP Address	Computer Name	Access Control	Status	
	lest01	192.168.0.202	test-PC.TendaAP	Full Access	Online	
	@ test02	192.168.0.122	test-PC	Full Access	Online	
	Contraction (Contraction) (Con	192.168.0.132	test-PC	Full Access	Online	
	Properties ×					
	1.00			Rea	d: 📃	
	0.80			Writ	e:	
	0.60					
	0.40					
	0.20					
	0.00					
	K C F F Performance					
			🧭 Connect	ed: LocalHost (20-D	ays Trial)	

K-Backup Server will create a separated Datastore for each client.

Contact

Support:support@kernsafe.comSale:sales@kernsafe.comHome Page:http://www.kernsafe.com/Product Page:http://www.kernsafe.com/product/k-backup.aspxLicensing:http://www.kernsafe.com/product/k-backup/license-compares.aspxhttp://www.kernsafe.com/forum/



KernSafe Technologies,Inc

www.kernsafe.com

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