

Installation and Quick Start Manual

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Version 3.2



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Knox Software Corp. Arkeia 4.2 Installation and Quick Start Manual

Thank you for choosing Arkeia.

The *Install & Quick Start Manual* gives you the essential information to run a quick test of Arkeia., but does not replace the Administrator Manual and the Advanced Manual. For more detailed technical information, please refer directly to the Administrator's Manual.

This software is used in accordance with the terms and conditions of a License Agreement. The License Agreement is valid for all network machines running Arkeia.

1. <u>GENERAL CONCEPTS</u>

1.1 Components

Arkeia is a high performance network backup product that supports a wide variety of operating systems, hardware platforms, tape drives and tape libraries. It is based on the client server model and is composed of three major components:

Server Client Graphical User Interface (GUI)

Each component has the specific responsibilities outlined below:

Server Component Responsibilities:

Provide central catalog/index of all backups Manage tape drive(s) and tape library(s) Manage multiple simultaneous backup/restore processes Manage network connectivity Multiplex datastreams to/from client machines Initiate scheduled backups

Client Component Responsibilities:

Send data from client machine to backup server during backups Place data on client machine during restore operations Optionally compress/encrypt data during backup/restore Provide native file system access to client machine

GUI Component Responsibilities:

Provide easy to use setup and operation screens to the backup administrator Tape drive definitions Tape library definitions Tape pool definitions Tape definitions Savepack definitions (logical backup group) Scheduled backup definitions Provide a user interface to desktop users to restore their own files Provide a UI to help-desk operators to restore desktop files on behalf of others

According to the role of each computer, one or more Arkeia components must be installed. This will be more fully described in the installation section.

1.2. Versions

1.2.1 Free Version

A free version of Arkeia is available. It can back up one Linux Backup server and two Linux / Windows 95/98 clients.

To install the free version choose server-shareware instead of server.

1.2.2 Professional Version

You can test Arkeia during 30 days for free.

2. INSTALLATION

2.1. Requirements

2.1.1 Hardware Requirements

Arkeia requires the following hardware configuration: a computer able to run your operating system and TCP/IP 32 MB RAM a SCSI tape drive

2.1.2 Space Requirements

Arkeia Component	OS Platform	Space required
Server	Unix/Linux	25 MB + Catalog
	Unix/Linux	7 MB
Client	Windows NT	9 MB
	Windows 95/Windows 98	7 MB
	Unix/Linux	5 MB
GUI	Windows NT	5 MB + 10 MB for Java
	Windows 95/Windows 98	5 MB + 10 MB for Java

The online catalog is the file index of the backup tapes. It is located on the Arkeia backup server and needs about 1% of data stored, i.e. 1 MB for every 100 MB of backed up data.

Note:

The backups' validity will influence the size of Arkeia's database.

2.1.3 Installation Order

In order to successfully install Arkeia, you should first install and validate the Arkeia backup server machine prior to installing the client machines.

The following table shows the correct order of installation:

Role of the Machine	Arkeia Component	Installation Order
	Client	1
Arkeia Backup Server	Server	2
	GUI (optional)	3
Antrois Client	Client	1
Arkela Client	GUI (optional)	2
Arkeia GUI only	GUI	1

Install all three Arkeia components on your backup server machine:

Client Server GUI

You have several possibilities to install Arkeia on your computer. The next paragraphs describe the following cases:

- download Arkeia TARGZ packages from the Arkeia web site at: www.arkeia.com
- install Arkeia TARGZ packages from a CD-Rom
- download RPM packages from the Arkeia web site or install them from the CD-Rom

2.2 Backup Server Installation Using the Traditional Unix/Linux Installation Procedure

2.2.1 TARGZ Packages / Download

Download procedure:

1. Download the Arkeia client, server, and GUI software from the Arkeia web site or ftp site into a temporary directory. The Arkeia packages will have a name similar to the following:

client-4.2.12-1.tar.gz server-4.2.6-1.tar.gz or server-shareware-4.2.6-1.tar.gz (free version) gui-4.2.6-1.tar.gz

2. Unzip the files by entering:

gunzip client-4.2.12-1.tar.gz

gunzip server-4.2.6-1.tar.gz

- # gunzip gui-4.2.6-1.tar.gz
- 3. Un-tar the files by entering:

tar xf client-4.2.12-1.tar

tar xf server-4.2.6-1.tar

tar xf gui-4.2.6-1.tar

FI				Xterm
	[root@caladan total 5173	download]#	ls -al	
	total 5173 drwxrwxrwx drwxrwxrwt -rw-rr [root@caladan [root@caladan [root@caladan [root@caladan	2 root 7 root 1 root 1 root download]# download]# download]# download]#	root root root root gunzip gunzip gunzip ls –al	144 Jul 10 13:08 . 444 Jul 10 13:05 664565 Jul 10 12:27 client-4.2.11-2.tar.gz 1815273 Jul 10 12:29 gui-4.2.5-1.tar.gz 2808506 Jul 10 12:31 server-4.2.5-1.tar.gz 0 client-4.2.11-2.tar.gz) gui-4.2.5-1.tar.gz) server-4.2.5-1.tar.gz
	drwxrwxrwx drwxrwxrwt -rw-rr -rw-rr [root@caladan [root@caladan [root@caladan [root@caladan total 5905	2 root 7 root 1 root 1 root download]# download]# download]# download]#	root root root root tar xf tar xf ls -al	135 Jul 10 13:09 . 444 Jul 10 13:05 829440 Jul 10 12:27 client-4.2.11-2.tar 2099200 Jul 10 12:29 gui-4.2.5-1.tar 3112960 Jul 10 12:31 server-4.2.5-1.tar client-4.2.11-2.tar gui-4.2.5-1.tar server-4.2.5-1.tar
	drwxrwxrwx drwxrwxrwt drwxr-xr-x -rw-rr drwxr-xr-x -rw-rr [root@caladan	5 root 7 root 2 root 1 root 2 root 1 root 2 root 1 root download]#	root root root root root root root	223 Jul 10 13:10 . 444 Jul 10 13:05 . 155 Jun 28 13:27 client-4.2.11-2 829440 Jul 10 12:27 client-4.2.11-2.tar 156 Jun 14 21:04 gui-4.2.5-1 2099200 Jul 10 12:29 gui-4.2.5-1.tar 155 Jun 14 15:00 server-4.2.5-1 3112960 Jul 10 12:31 server-4.2.5-1.tar

Fig 1 - Command Lines to Unzip and Un-tar Files

Installation Procedure:

- Install the client software first by entering: # cd client-4.2.12-1 # ./install
- 2. You will be asked to enter the main Knox directory. The default installation directory is */usr/knox*. If you agree, press *Enter*. If this does not meet your local standards, enter the correct directory before continuing.
- 3. After the KNOX directory is specified, you are asked for the temporary working directory. The default choice is the current directory. In our example we will use it with no modification. If there is not enough space on the current filesystem, enter the name of a directory with more space.
- 4. Once the temporary working directory is specified, you must provide the name of the Backup Server. This should be the hostname of the machine you are installing currently.
- 5. As soon as the program asks you to confirm the start of the installation, press *Enter* to start the process.

Note:

You can stop the process with *Control-c* or by entering *n* on the command line.

7				Xterm	
	[root@calac total 5905	an download]]# ls -al		
	drwxrwxrwx	5 root	root	223 Jul 10 13:10 .	
	drwxrwxrwt	7 root	root	444 Jul 10 13:05	
	drwxr-xr-x	2 root	root	155 Jun 28 13:27 client-4.2.11-2	
	-rw-rr	1 root	root	829440 Jul 10 12:27 client-4.2.11-2.tar	
	drwxr-xr-x	2 root	root	156 Jun 14 21:04 gui-4.2.5-1	
	-rw-rr	1 root	root	2099200 Jul 10 12:29 gui-4.2.5–1.tar	
	drwxr-xr-x	2 root	root	155 Jun 14 15:00 server-4.2.5-1	
	-rw-rr	1 root	root	3112960 Jul 10 12:31 server-4.2.5-1.tar	
	[root@calac	lan downloadj	j# cd clien	nt-4.2.11-2	
	[root@calac	an client-4.	.2.11-2]# .	./install	
	11800020 M8	117: *********	****** Star • TH+H	rt of installation ************************************	
	11800020 di	stroinstail:	; ine patn	is /tmp/download/client=4.2.11=2	
	11001200 MK	pinstall: J	ustarrug "	Upposition 4.2.11-2 (Hrkela Cilent) "Vension "2.2.5"	
	01201210 ##	.µIIIStaII+ t K≭ Enton mair	o KNOX dina	ectopy [/wsp/kpoy] ? (a to quit)	
	Ø1001002 ···	- LITCEL MAIN	I KNOW UT 6	ectory [/usi/knok] : (q to quit)	
	T1801170 va	lidateknox:	Got from u	user \$KNOX='/usr/knox'	
	T1801180 va	lidateknox:	Directory	\$KNOX='/usr/knox' OK	
	R1801002 **	* Enter the	temporaru	directory [.] ? (a to auit)	
	4		J		
	I1801170 va	alidatetmpdir	h: Got tmpd	dir ='.'	
	I1801180 va	alidatetmpdir	r: Director	ry tmpdir='.' OK	
	Q1802005 **	* Enter the	hostname o	of your main backup server [] ? (q to quit)	
	caladan				
	I1801350 ai	lichk: tmpspa	ace needed:	: 5000 KB, available in '/': 2469012 KB	
	I1801360 ai	lichk: knoxsp	bace needed	d: 2500 KB, available in '/usr': 5511192 KB	
	§1800001 **	≔ OK to star	rt installa	ation in '/usr/knox' (y/n) [y] ? (q to quit)	
	U				

Fig. 2.1 - Command Line for the Installation of the Client(s)

Ita01170 validatetmpdir: Got tmpdir ='.'
Ita01180 validatetmpdir: Directory tmpdir='.'OK
Q1802005 *** Enter the hostname of your main backup server [] ? (q to quit)
caladan
Ita01350 alichk: tmpspace needed: 5000 KB, available in '/': 2469012 KB
Ita01360 alichk: tmosspace needed: 2500 KB, available in '/usr': 5511192 KB
Q1800001 *** OK to start installation in '/usr/knox' (y/n) [y] ? (q to quit)
Ita02020 untz: Uncompressing and extracting 'obstar.z'...
Ita02050 untz: 'obstar.z' extracted successfully
Ita01060 mkfsu: /dct/default/fsu written ('/usr/knox')
Ita01060 mkfsu: /dct/default/fsu written ('/usr/knox')
Ita0100 cpltree: Tree './knox/hls' succesfully installed
Ita04190 cpltree: Tree './knox/hin/NLSERVD' succesfully installed
Ita04190 cpltree: Tree './knox/hlp/services' updated successfully
Ita02100 unduth: '\$KNOX/nlp/auth.cfg' updated successfully
Ita02100 unduth: '\$KNOX/nlp/auth.cfg' updated successfully
Ita02100 mtor: Invocation of NLSERVD has been inserted in '/etc/rc.d/rc.local'
Ita02180 autoinrc: Invocation of NLSERVD has been inserted in '/etc/rc.d/rc.local'
Ita02180 cpltree: Tree './knox/bin/NLSERVD' will start automatically at boot
Ita02180 startnlservd: Daemon '/usr/bin/NLSERVD' will start automatically at boot
Ita04190 cpltree: Tree './knox/bin' succesfully installed
Ita02180 cpltree: Tree './knox/bin' succesfully installed
Ita02180 autoinrc: Invocation of NLSERVD has been inserted in '/etc/rc.d/rc.local'
Ita02180 cpltree: Tree './knox/bin' succesfully installed
Ita04190 cpltree: Tree './knox/bin' succesfully installed
Ita04290 instlicese

Fig. 2.2 - Command lines for the Installation of the Client(s)

The installation of the client is now complete. Repeat the process described above for the server and GUI components.

The installation process will automatically fill in two key variables.

- Backup Server name, and
- MAIN Knox Directory.

Therefore, installing the server and GUI is as simple as:

- cd ../server-4.2.6-1 or cd ../server-shareware-4.2.6-1 (free version)
- ./install

Press *Enter* to integrate the default values.

Wait for the installation to be completed, then enter:

- cd ../gui-4.2.6-1
- ./install

Press Enter to integrate the default values. Wait for the installation to be completed.

You have now successfully completed the installation of the client, server and GUI components on the Arkeia backup server machine.

2.2.2 TARGZ packages / CD Rom

Go into the correct directory of your operating system, for example:

- #cd /mnt/cdrom
- #cd arkeia/linux/intel/TARGZ/libc6
- Install the client software first by entering: # cd client-4.2.12-1 # ./install
- 2. You will be asked to enter the main Knox directory. The default installation directory is */usr/knox*. If you agree, press *Enter*. If this does not meet your local standards, enter the correct directory before continuing.
- 3. After the KNOX directory is specified, you are asked for the temporary working directory. The default choice is the current directory. Therefore, you have to enter another directory as you are currently in the CD-Rom directory. Example : /tmp
- 4. Once the temporary working directory is specified, you must provide the name of the Backup Server. This should be the hostname of the machine on which you are currently installing Arkeia.
- 5. As soon as the program asks you to confirm the start of the installation, press *Enter* to start the process.

Note:

You can stop the process with *Control-c* or by entering *n* on the command line.

	xterm >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
[root@caladan libc6]# ls -al total 17	
dr-xr-xr-x 8 root root	2048 Apr 27 10:35 .
dr-xr-xr-x 5 root root	2048 Dec 23 1999
-rrr 1 root root	322 May 9 13:30 TRANS.TBL
dr-xr-xr-x 2 root root	2048 Apr 21 13:24 arkc-4.1.13-1
dr-xr-xr-x 2 root root	2048 Feb 8 13:10 client-4.2.9-2
dr-xr-xr-x 2 root root	2048 Feb 25 2001 gui-4.2.4-1
dr-xr-xr-x 2 root root	2048 Sep 9 1999 gui-oracle-4,2,1-1
dr-xr-xr-x 2 root root	2048 Feb 18 15:45 server-4,2,4-1
Greatgealaday libe@lw ad alignt 4 (2046 Jan 4 2000 server-snareware-4,2,3-2
[root@caladan libcoj# cu cilent=4.2 [poot@caladan client=4.2 9=2]# (im	2.0-2/ potall
T1800020 main+ ************************************	of installation ###########
I1800020 Maint	s /mnt/cdrom/arkeia/linux/intel/TARG7/libc6/client-4 2 9-2
I1801200 mknlinstall: Installing "	nnbs" Version "4.2.9–2" ("Arkeja client")
I1801210 mkplinstall: OS: "Linux" \	/ersion "2.2.5"
Q1801002 *** Enter main KNOX direct	tory [/usr/knox] ? (q to quit)
I1801170 validateknox: Got from use	er \$KNOX='/usr/knox'
I1801180 validateknox: Directory \$	(NOX='/usr/knox') OK
Q1801002 *** Enter the temporary d:	irectory [.] ? (q to quit)
/tmp	
11801170 validatetmpdir: Got tmpdir	r =//tmp/
11801180 Validatetmpdir: Directory	tmpdir='/tmp' UK
VI802000 *** Enter the hosthame of	your main backup server [] ((q to quit)
Ualauan 	5000 KB, available in '/': 2474840 KB
IIOVISOU aIICHK: Umpspace needed: (2500 KB, available in 7 - 2414040 KB
01800001 *** OK to start installat	ion in '/usn/knov' (u/n) [u] ? (a to auit)
	TOULTH YOOFYNHON (9/11/18] / (9 to 9010)

Fig. 3.1 - TARGZ Packages CD-Rom Installation

```
q1801002 *** Enter the temporary directory [.] ? (q to quit)
/tmp
11801170 validatetmpdir: Got tmpdir ='/tmp'
11801180 validatetmpdir: Directory tmpdire'/tmp' OK
Q1802005 *** Enter the hostname of your main backup server [] ? (q to quit)
caladan
11801350 ailchk: tmpspace needed: 5000 KB, available in '/': 2474840 KB
11801360 ailchk: tmpspace needed: 2500 KB, available in '/usr': 5511192 KB
Q1800001 *** OK to start installation in '/usr/knox' (y/n) [y] ? (q to quit)
11802020 untz: Uncompressing and extracting 'obstar.z'...
11802020 untz: 'obstar.z' extracted successfully
11802050 mkfsu: /etc/default/fsu written ('/usr/knox')
11804210 docopy: Installing files...
11804190 cpltree: Tree '/tmp/knox/bin/NLSERVD' succesfully installed
11804190 cpltree: Tree '/tmp/knox/bin/NLSERVD' succesfully installed
11804190 cpltree: Tree '/tmp/knox/bin/NLSERVD' succesfully
11802130 updawth: '%NNX/nlp/services' updated successfully
11802130 updawth: '%NNX/nlp/services' updated successfully
11802180 autoinrc: Invocation of NLSERVD in '/usr/bin'
11802180 autoinrc: Invocation of NLSERVD' will start automatically at boot
11804190 cpltree: Tree '/tmp/knox/hip' succesfully installed
11804190 cpltree: Tree '/tmp/knox/bir/NLSERVD' will start automatically at boot
11804190 cpltree: Tree '/tmp/knox/bir/NLSERVD' will start automatically at boot
11804190 cpltree: Tree '/tmp/knox/bir's uscesfully installed
11804200 instlicserv: ADMINSERVER 'caladan' succesfully installed
11804290 runnlservd: Starting new nlservd ...
11802290 runnlservd: New nlservd successfully installed
11802290 runnlservd: New nlservd successfully started, pid is 1774
11800010 myexit: ***************************
```

Fig. 3.2 - TARGZ Packages CD-Rom Installation

The installation of the client is now complete. Repeat the process described above for the server and GUI components.

The installation process will automatically fill in two key variables.

- Backup Server name, and
- MAIN Knox Directory.

Therefore, installing the server and GUI is as simple as:

- cd ../server-4.2.6-1 or cd ../server-shareware-4.2.6-1 (free version)
- ./install

Press *Enter* to integrate the default values.

Wait for the installation to be completed, then enter:

- cd ../gui-4.2.6-1
- ./install

Press *Enter* to integrate the default values Wait for the installation to be completed.

You have now successfully completed the installation of the client, gui and server components on the Arkeia backup server machine.

2.3 Installation Using RPM Installation Procedure / CD-Rom or Download

Go into the correct directory (if you work on a CD-Rom)

- #cd /mnt/cdrom
- #cd arkeia/linux/intel/RedHat6.x

The Arkeia RPM packages will have a name similar to the following :

- arkeia-client-4.2.12-1.i386.rpm
- arkeia-server-4.2.6-1.i386.rpm or arkeia-server-shareware-4.2.6-1.i386.rpm (free version)
- arkeia-gui-4.2.6-1.i386.rpm

Installation Procedure

 Enter the following commands: # rpm -Uvh arkeia-client-4.2.12-1.i386.rpm # rpm -Uvh arkeia-server-4.2.6-1.i386.rpm # rpm -Uvh arkeia-gui-4.2.6-1.i386.rpm

F				_	Xre	·m			×
	[root@caladan	rpm]# ls -	al						
	total 3985								
	drwxrwxrwx	2 root	root	170	Jul	10	14:28	•	
	drwxrwxrwt	8 root	root	530	Jul	10	14:26	••.	
	-rr	1 root	root 4	176285	Jul	10	14:27	arkeia-client-4.2.9-1.i386.rpm	
	-rr	1 root	root 14	15176	Jul	10	14:27	arkeia-gui-4.2.4-1.i386.rpm	
	-rr	1 root	root 2:	181011	Jul	10	14:28	arkeia-server-4.2.4-1.i386.rpm	
	[root@caladan	rpmj# rpm	-Uvh arkeia-o	lient	-4.2.	9-1	1386.	,rpm	
	arkeia-client	7.0	****	*#####	### ##	###	######	*****	
	[root@caladan	rpm]# rpm	-Uvh arkeia-9	gu1−4.	2.4-1	.13	386.rpM)	
	arkeia-gui		########	*****	*### #	###	*######	*****	
	[root⊌caladan	rpmj# rpm	-UVN arkeia-s	server	-4.2.	.4-1	1386.	.rpm	
	arkeia-server		********	*****	*****	****	******	********************	
	[root@caladan	rpmj# cu /	usryknox _ol						
	total 1	KNUX]# 15	-ai						
		9 poot	poot	172	Tu 1	10	1/1+33		
	dowon-vo-v 1	24 root	root	566	Jul	â	17+37	•	
	druvn-vn-v	A root	root	198	Jul	10	1/1+33	** ankoia	
	druxr-xr-x	3 root	root	110	Jul	1ň	14:30	anky	
	druxr-xr-x	2 root	root	670	Jul	10	14:33	hin	
	druxr-xr-x	4 root	root	293	Jul	1ŏ.	14:30	ອມ່	
	drwxr-xr-x	2 root	root	83	Jul	10	14:30	log	
	drwxr-xr-x	2 root	root	662	Jul	10	14:34	nlp	
	drwxr-xr-x	2 root	root	137	Jul	10	14:30	obs	
	[root@caladan	knox]# 🗌							
	-								

Fig. 4 - RPM Installation

When installing the client package in your regular client machine, you must modify one configuration file according to the following procedure:

 Go in the usr/knox/nlp directory: # cd /usr/knox/nlp

- 3. Edit the file *admin.cfg* # vi admin.cfg
- 4. Delete the existing line
- 5. Add a line with the hostname of your Arkeia backup server
- 6. Restart the Arkeia daemon process by typing: # NLSERVD

3. <u>VALIDATION GUIDE</u>

3.1 Backup Server Validation

The *Validation Guide* walks you through a minimal setup of Arkeia. This setup will allow you to validate that the various components were installed correctly. This is done by creating NULL tapes and NULL tape drives.

To obtain a fast and most accurate setup, please follow exactly the steps in the described order. Once you have successfully completed one step, proceed to the next one. It should take no more than one hour to complete the server and client validation.

As soon as you have run the validation tests of the NULL setup, your system can be configured to work with a real tape drive and can perform real backups.

Note:

Field level help is generally provided for all fields. To read the field level help, just tab to or click on a specific field and then press the F1 key.

Please follow each step in the order below:

- 1. Start Arkeia and Login
- 2. Create a NULL tape drive definition
- 3. Create a NULL drivepack definition
- 4. Create a NULL tape pool definition
- 5. Create a NULL tapes definition
- 6. Create a test savepack
- 7. Perform an interactive backup

3.1.1 Start Arkeia and Login

From an xterm prompt, enter ARKEIA &.

After a few seconds, the following screen will be displayed:

Welc	ome to Arkeia
Server: VBS Port number: Login: Password:	redhat60 617 root

Fig 5 - Arkeia Welcome Screen

Make sure that

- the server name is the same as your backup server's hostname.
- the login name is root with no password

Press the check box to login.

After a few seconds, the Arkeia Server Administration screen will be displayed:

<u>C</u> onnect <u>B</u> ackup <u>R</u> estoration	<u>T</u> apes	<u>D</u> evices	<u>U</u> tilities	<u>H</u> elp
Serv	er admini	stration		
Name: root Server: redhat60	ŧ	Date: sept Role: ADN	ember 14, tuesda /INISTRATOR	y 1999
	lo job r unni	ing		
1 4000/00/444 40470 Very here energy (c)		les lister Co		
 1993/09/14 10:36 You have successful 1999/09/14 10:36 You have successful 1999/09/14 10:36 You have successful 1999/09/14 10:36 You have successful 	ly loaded t ly loaded l ly loaded t	the list of r licenses the list of l	ibraries !	
1999/09/14 10:36 root has logged on 1	redhat60 fr	rom sputnik.k	nox.com at 1999-	sep-14 10:36;
🕫 🖬 🔞 📇 🎜 🖬 🗃		3 🕅 🛛	r I	

Fig. 6 - Server Administration Screen

3.1.2/ Create NULL Tape Drive Definition

While on the Server Administration screen, choose *Devices* in the menu, then *Drives management* in the pop-up menu:



Fig. 7.1 - Selecting the Drives Management from the Administration Screen

The following screen will be displayed:

	Drives management
Name: Type:	Owner: root Node: redhat60
Usage: Bef. clean: # of loads:	Content: Library: Content Cont
Authorizations:	☐ <u>P</u> ead ☐ <u>W</u> ule ☐ <u>C</u> ivan ☐ <u>D</u> eleie
Rewind device:	
Comment:	
■ 1999/09/14 10:52 You have ■ 1999/09/14 10:52 You have	e successfully loaded the list of types of drives ! e successfully loaded the list of drives !

Fig. 7.2 - Drives Management Screen Before Modification

=	Drives management
Name: <mark>NULLDrive</mark> Type: <mark>NULL</mark>	Owner: root ↓ Node: redhat60
Authorizations:	■ <u>R</u> ead ■ <u>W</u> rite ■ <u>C</u> lean ■ <u>D</u> elete
Rewind device:	/dev/nuli
Comment:	Null tape drive
 1999/09/14 10:52 You hav 1999/09/14 10:52 You hav 	re successfully loaded the list of types of drives !
XXXXX	

Press the 'NEW' icon and fill in the fields as shown:

Fig. 7.3 - Drives Management Screen During Modification

Press the check box to record your changes.

	Drives management
Name: <mark>NULLDrive</mark> Type: NULL	Owner: root NULLDrive
Usage: Oh00'00" Bef. clean: Never # of loads: O	Content: (Empty)
Authorizations:	☐ <u>R</u> ead
Rewind device:	/dev/null
Comment:	Null tape drive
 1999/09/14 10:56 You have 1999/09/14 10:56 You have 1999/09/14 10:56 You have 1999/09/14 10:56 You have 	ve successfully created drive 'NULLDrive' ! ve successfully loaded the list of drives ! ve successfully loaded drive 'NULLDrive'!
📆 new 🅎 🎾 🔝	

Fig. 7.4 - Example of a set Drives Management Screen

3.1.3 Create NULL Drivepack Definition

While on the Server Administration screen, choose *Devices* in the menu, then *Drivepacks* in the pop-up menu:



Fig. 8.1 - Selecting the Drivepacks from the Server Adminstration Screen



The following screen will be displayed:

Fig. 8.2 - Drivepack Screen

Press the 'NEW' icon and fill in the screen as shown:

	Drivepacks	
3	Drivepacks	
Name : NULL Owner : root Comment : Null d Number of drives:	Pack rive pack All St of drives	Drivepacks
09-27-98 03:31 You	have successfully loaded the list o	f drivepacks !

Fig. 8.3: Drivepack Screen During Modification

Press the check box to record your selection:

	Drivepacks	
	Orivepacks O	
Na Ow Co Nu	me : NULL Pack vner : root mment : Null drive pack mber of drives: All I	epacks 🔗
© © ^{Cu}	List of drives	500
09-1 09-1 09-1	27-98 03:34 You have successfully created drivepack 'NULL P 27-98 03:34 You have successfully loaded the list of drivep 27-98 03:34 You have successfully loaded drivepack 'NULL Pa	ackí ! acks ! ckí!
	new 🌍 🖃	✓ × ?

Fig. 8.4: Example of a Configured Drivepack Screen

Return to the Server Administration screen by pressing the check box.

3.1.4 Create NULL Tape Pool Definition

While being on the Server Administration screen select *Tapes* in the menu, then choose *Pools managem*ent in the pop-up menu.



Fig. 9.1 - Selecting the Pool Management from the Server Administration Screen

	Pools management	
5	Pools management	
0	scratch pool	
	9-27-98 03:36 You have successfully loaded	the list
3	new 🌍 🍳 📊 🗹	×

The following screen will be displayed:

Fig. 9.2 - Pools Management Sceen

Click on the 'NEW' button and fill in the fields as shown in the next figure:



Fig. 9.3 - Pool Creation Screen

Press the check box to record your selection.



Fig. 9.3 - Example of a Pools Management Screen

Proceed directly to Create null tapes definitions.

3.1.5 Create NULL Tapes Definition

While being on the Server Administration screen select *Tapes* in the menu, then choose *Pools Management* in the pop-up menu.



Fig. 10.1 - Selecting the Pools Management from the Server Administration Screen

The following screen will display the list of existing pools :

	Pools management 🛛 🗖 🗖	×
a	Pools management	
0	scratch pool NULL Pool	2
	9-27-98 03:40 You have successfully created pool 'NU 9-27-98 03:40 You have successfully loaded the list	
3	new 🧊 🔍 🛄 🗹 🗙 🖸	1

Fig. 10.2 - Pools Management Screen

To create tapes, double click on the NULL Pool.



Fig. 10.3 - Tapes in Pool Screen

Press the 'NEW' button and fill in the fields as shown:

4		Create	tape(s)		
Γ	nzw	Oreate	tape(s) 🕥		
	Tape name:	NULL TP-			0
I	First number: Type:	1 NULL	Last number:	5	
I	Owner: Authorizations:	root <u>R</u> ead	Write	📕 Rec <u>y</u> cle	
I	Recycling dest.: Recycling mode:	current pool	Lean ↓		
I	Current pool:	NULL Pool			
	Ø				
Ľ				×	2

Fig. 10.4 - Creation of Tapes Screen

Press the check box to record your selection. This will create five NULL tapes and close the window. You will automatically return to the previous screen, in which the five NULL tapes will now be displayed:

	Tapes in pool 'NULL	- Pool'	
	Tapes in pool 'NUL	L Pool' 🥥	
NULL TP-1 NULL TP-2 NULL TP-3 NULL TP-4 NULL TP-5	free free free free free	00001 00002 00003 00004 00005	
09-27-98 03:47 You 09-27-98 03:47 You 09-27-98 03:47 You 09-27-98 03:47 You	have successfully created have successfully loaded t have successfully loaded t	'5/5' tapes ! the list of tapes ! the list of tapes !	

Fig. 10.5 - Example of the Tapes in the Pool Screen

Click on the check box to close this screen, as well as the *Pools Management* screen. You automatically return to the Server Adminstration screen.

3.1.6 Create a Test Savepack

While being on the Server Administration screen select *Backup* in the menu, then choose *Savepacks* in the pop-up menu.



Fig. 11.1 - Selection of the Savepack Screen

The following screen will be displayed:



Fig. 11.2 - Savepack Management Screen

Press the 'NEW' button and create a test the savepack as follows:



Fig. 11.3 - Creation of the Savepack

Press the check box to record your selection. You will return to the previous screen:

4		Savepacks management	
	78	Savepacks management	
L	Ø	List of trees to backup 🔗 🔗 Savepacks	
		Test savepack	
L	0	0	0
	09 09 09)-27-98 03:53 You have successfully created savepack 'Test savepack' !)-27-98 03:53 You have successfully loaded the list of savepacks !)-27-98 03:53 You have successfully loaded savepack 'Test savepack'!	
	3	new 🌍 🕂 🗏 🔀 🗹 🔰	< 🕐

Fig. 11.4 - Example of the Savepack Management Screen

To complete the creation of the savepack, press the 'NAVIGATOR' icon on the navigation bar tool (the four-color arrows).

Then, the following screen will automatically be displayed:



Fig. 11.5 - Example of the Savepack Navigator

You should see one icon of a computer with the hostname of your backup server. Select the icon by raising the orange box to its left, as shown in the next figure:



Fig. 11.6 - Example of the Savepack Navigator

Press the check box to record your selection. You automatically will return to the Server Administration screen.

3.1.7 Perform an Interactive Backup Using the NULL Definitions Created

While being on the Server Administration screen select *Backup* in the menu, then choose *Interactive Backup* in the pop-up menu.



Fig; 12.1 - Selection of the Interactive Backup Screen

The following screen will be displayed:

	Interactive backup
Savepack: Drivepack: Pool:	Test savepack 🕴 NULL Pack 🔮 NULL Pool 🕏
Туре:	Total Backup 🖨 Standard 🖨
Tape strategy: Valid for:	Complete existing tapes 🖨 30 Day(s)
Parallelism: Tag: Comment:	Default 🖶 Use emails 🖨
1999/09/14 08:57	You have successfully loaded the list of ba
3 3 7	X X

Fig. 12.2 - Interactive Backup Screen

If the Savepack, Drivepack and Pool do not figure on the above screen, scroll the pop-up list of each field and change the selections, so that they match with the screen shown above.

Press the check box to validate your choice and to start the interactive backup. The following screen will be displayed:



Fig. 12.3 - The Arkeia Backup Screen

Arkeia is now simulating a backup of your system. The data is being written on a NULL drive, and the speedometer needles start moving. You can cancel the backup simulation by pressing the *Stop* icon on the tool bar.

You have now successfully completed the validation of your Arkeia backup server.

3.2 Client Validation

This section helps you to setup the Arkeia backup of a client machine.

As soon as you have installed Arkeia on the client machine, you can proceed to the configuration in the following order:

- 1. Start Arkeia and login
- 2. Create a test savepack
- 3. Perform an interactive backup using the null definitions just created

3.2.1 Start Arkeia and Login

From an xterm prompt, enter ARKEIA &.

After a few seconds, the following screen will be displayed:

-	Welcome to Arkeia				
	Server: VBS Port number: Login: Password:	redhat60			

Fig 13.1 - Arkeia Welcome Screen

Make sure that

- the server name is the same as your backup server's hostname.
- the login name is root with no password

Press the check box to login.

<u>C</u> onnect	<u>B</u> ackup	<u>R</u> estoration	<u>T</u> apes	<u>D</u> e [,]	vices	<u>U</u> tilities	<u>H</u> elp
		Serve	er admin	istrati	on		
Name: Server:	root redhat60		U I	Date: Role:	septe ADM	mber 14, tuesda INISTRATOR	y 1999
		N	lo job runr	ning			
 1999/09/14 10:36 You have successfully loaded the list of roles 1999/09/14 10:36 You have successfully loaded licenses 1999/09/14 10:36 You have successfully loaded the list of libraries ! 1999/09/14 10:36 root has logged on redhat60 from sputnik.knox.com at 1999-sep-14 10:361 							
3 👼	10 📇	12 🖬 🗃		₽Ì>	୍ବାତ୍		

After a few seconds, the Arkeia Server Administration screen will be displayed again:

Fig. 13.2 - Server Administration Screen

3.2.2 Create a Test Savepack

While being on the Server Administration screen select *Backup* in the menu, then choose *Savepacks* in the pop-up menu.

<u>C</u> onnect	<u>B</u> ackup <u>R</u> estorati	on [
	<mark>™ <u>T</u>apes ► <u>→ D</u>evices ►</mark>	ver ad
	<mark>-E</mark> <u>S</u> avepacks	_0
Server:	Interactive backup Berindic backup	ŧ
0		No job

Fig. 14.1 - Selection of the Savepacks from the Server Administration Screen

The following screen will be displayed:

Savepacks manage	ment
List of trees to backup	Savepacks
redhat60: // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // // //	Test savepack
1999/09/14 09:07 You have successfully loaded to 1999/09/14 09:07 You have successf	the list of savepacks ! savepack 'Test savepack'!
📆 new 資 🕂 📃 隆	

Fig. 14.2 - Savepack Management Screen

Press the *NEW* button and create a test savepack for your client machine.

4		Arkeia	-	X
ſ	Client test	Name of savepack to create	0	
-				

Fig. 14.3 - Creation of the Savepack

Press the check box to record your selection. You automatically return to the previous screen. The client savepack appears on the savepack list.

k		Savepaci	ks management		
	78	Savepack	s management	0	
	🖉 📃 List o	f trees to backup	00	Savepacks	
				Client test Test savpack	
	09-27-98 04:28 09-27-98 04:28 09-27-98 04:28 09-27-98 04:28	You have successfull You have successfull You have successfull	y created savepac y loaded the list y loaded savepack	k 'Client test' ! ; of savepacks ! ; 'Client test'!	
	📆 nzw 🅎 •	+ 🗉 🔀			×

Fig. 14.4 - Savepack Management Screen

To complete the creation of the savepack, press the 'NAVIGATOR' icon on the navigation bar tool (the four-color arrows). Then, the following screen will automatically be displayed:



Fig. 14.5 - Navigator Screen

Note:

You now have two icons on the navigator screen: one for your server machine and the other for your client machine.

Select the client machine you want to backup by raising the orange box to its left. See below for an example.



Fig. 14.6 - Example of the Navigator Screen

Press the check box to record your selection.

Savepacks manage	ment
List of trees to backup	Savepacks
suse:	Client test Test savepack
 1999/09/14 09:49 You have successfully loaded s 1999/09/14 09:49 You have successfully modified 1999/09/14 09:49 You have successfully loaded s 	savepack 'Client test'! d savepack 'Client test' ! savepack 'Client test'!
📆 new 🌍 🕂 🗐 隆	

Fig; 14.7 - Example of the Savepack Management Screen

Exit this screen by pressing the check box and return to the Server Administration screen.

3.2.3 Perform an Interactive Backup Using the NULL Definitions Created

From the Server Administration screen select *Backup* in the menu, then choose *Interactive Backup* in the pop-up menu.



Fig. 15.1 - Selecting the Interactive Backup Screen

The following screen will be displayed.

a	Interactive backup				
Savepack: Drivepack: Pool:	Client test ↓ NULL ↓ NULL ↓				
Туре:	Total Backup 🖨 Standard 🖨				
Tape strategy: Valid for:	Complete existing tapes 🖨 30 Day(s)				
Parallelism: Tag: Comment:	Default 🖶 Use emails 🖨				
1999/09/14 11:39 You have successfully loaded the list of b					
3 3 7					

Fig. 15.2 - Interactive Backup Screen

If the *Savepack*, *Drivepack* and *Pool* do not figure on the above screen, scroll the pop-up list of each field and change the selections, so that they match with the screen shown above.

Press the check box to validate your choice and to start the interactive backup. The following screen will be displayed:



Fig. 15.3 - The Arkeia Backup Screen

Arkeia is now simulating a backup of your system. The data is being written on a NULL drive, and the speedometer needles start moving. You can cancel the backup simulation by pressing the *Stop* icon on the tool bar.

You have now successfully completed the validation of your Arkeia client machine.

3.3 Setup of Your First Backup to a Real Tape

This section helps you to set up Arkeia to perform a backup of your machine(s) on a real tape drive. For this operation, it is necessary that you already have installed and validated the server (see section 3.1 and 3.2).

For the set up proceed to the configuration in the following order:

- 1. Start Arkeia and login
- 2. Create a tape drive definition
- 3. Create a drivepack definition
- 4. Create a tape pool definition
- 5. Create a tape definition
- 6. Perform an interactive backup

3.3.1 Start Arkeia and Login

From an xterm prompt, enter ARKEIA &.

After a few seconds, the following screen will be displayed:

edhat60
17
oot

Fig 16.1 - Arkeia Welcome Screen

Make sure that

- the server name is the same as your backup server's hostname.
- the login name is root with no password

Press the check box to login.

<u>C</u> onnect	<u>B</u> ackup	<u>R</u> estoration	<u>T</u> apes	<u>D</u> e'	vices	<u>U</u> tilities	<u>H</u> elp
		Serve	er admin	istrati	on		
Name: Server:	root redhat60		ŧ	Date: Role:	septe ADM	mber 14, tuesda NISTRATOR	ay 1999
		N	lo job r unr	ning			
 1999/09/14 10:36 You have successfully loaded the list of roles 1999/09/14 10:36 You have successfully loaded licenses 1999/09/14 10:36 You have successfully loaded the list of libraries ! 1999/09/14 10:36 root has logged on redhat60 from sputnik,knox,com at 1999-sep-14 10:36 							
3 👼							

After a few seconds, the Arkeia Server Administration screen will be displayed:

Fig. 16.2 - Server Administration Screen

3.3.2 Create a Tape Drive Definition

While on the Server Administration screen, choose *Devices* in the menu, then *Drives management* in the pop-up menu:



Fig. 17.1 - Selecting the Drives Management from the Administration Screen

The following screen will be displayed:

=	Drives management
Name: NULLDrive Type: NULL Usage: Oh00'00" Bef. clean: Never # of loads: O Authorizations:	Owner: root Image: Node: redhat60 Content: (Empty) Read Write Older Delete
Comment:	Null tape drive
 1999/09/14 10:56 You have 1999/09/14 10:56 You have 1999/09/14 10:56 You have 	e successfully created drive 'NULLDrive' ! e successfully loaded the list of drives ! e successfully loaded drive 'NULLDrive'!
📆 new 🅎 🎾 🔛	

Fig. 17.2 - Drive Management Screen before modification

Press the 'NEW' icon and fill in the fields as shown:

=	Drives management
Name: DAT Drive Type: STD_DAT	Owner: root NULLDrive ▲ Node: redhat60
Authorizations:	■ <u>R</u> ead ■ <u>W</u> rite ■ <u>C</u> lean ■ <u>D</u> elete
Rewind device:	/dev/st0
Comment:	DAT tape drive
 1999/09/14 12:00 You hav 1999/09/14 12:00 You hav 1999/09/14 12:00 You hav 	/e successfully loaded the list of types of drives ! /e successfully loaded the list of drives ! /e successfully loaded drive 'NULLDrive'!
XXXXX	

Fig. 17.3 - Example of modification of the Drives Management Screen

Note:

The rewind-device is set to /dev/st0. This is a Linux specific device name. Place the cursor in the rewind device field an press F1 for additional information regarding the name of rewind devices for other platforms. If your tape drive is not located on /dev/st0 please change the rewind device to the correct device name.

As soon as you have specified the control device press the check box to record your selection. You will obtain the following screen automatically:

=	Drives management
Name: DAT Drive Type: STD_DAT Usage: 0h00'00'' Bef. clean: 20 h # of loads: 0 Authorizations:	Owner: root Node: redhat60 NULLDrive Content: (Empty) Read Write Clean Delete
Rewind device:	/dev/st0
Comment:	DAT tape drive
 1999/09/14 12:04 You have 1999/09/14 12:04 You have 1999/09/14 12:04 You have 	e successfully created drive 'DAT Drive' ! e successfully loaded the list of drives ! e successfully loaded drive 'DAT Drive'!
📆 new 資 🎾 📖	

Fig. 17.3 - Example of modified Drives Management Screen

Click the check box to return to the Server Administration screen.

3.3.3 Create a Drivepack Definition

From the Server Administration screen select *Devices* in the menu, then choose *Drivepacks* in the pop-up menu.

es	D	evices	<u>U</u> tilities	<u>H</u> elp
listr	=	<u>D</u> rives n	nanagement	
	3	Drive <u>p</u> a	cks	
🤌 🖟 Libraries management				@
Dai	ie:	sebreum	er z7, sunuay i	998

Fig. 18.1 - Selection of the Drivepacks Screen

The following screen will be displayed:

Ľ		Drivepacks	
	a <u></u>	Drivepacks 🥥	
	Name : NULL Pack Owner : root	NULL Pack	s Ø
	Comment : Null drive pack	•	
	List of drives Image: NULLDrive		
	Current drive priority:	• 0	
	 09-27-98 03:34 You have success 09-27-98 03:34 You have success 09-27-98 03:34 You have success 	sfully created drivepack 'NULL Pack' sfully loaded the list of drivepacks sfully loaded drivepack 'NULL Pack'!	!
	🐻 new 🅎 🖃		×

Fig. 18.2 - Drivepack Screen before modification

Press the 'NEW' icon and fill in the screen as shown:

	Drivepacks	
3	Drivepacks	
Name : DAT Owner : root Comment : drive Number of drives: DAT Drive DAT Drive	Pack pack for Dat drives All ist of drives 1 ty: 1 V	Drivepacks
 09-27-98 06:03 You 09-27-98 06:03 You 	i have successfully loaded the list i have successfully loaded drivepac	: of drivepacks ! ck ^NULL Pack?!
	1	

Fig. 18.3 - Creation of a new Drivepack

Press the check box to record your selection.

	Drivepacks	
	Drivepacks	
Name : DAT Pack Owner : root Comment : drive pack fo Number of drives:	or Dat drives	Drivepacks
DAT Drive	Irives Ø	
Current drive priority:	1 🕂 🥝 🤇	» <mark>۲</mark>
 09-27-98 06:05 You have 09-27-98 06:05 You have 09-27-98 06:05 You have 09-27-98 06:05 You have 	successfully created drivepa successfully loaded the list successfully loaded drivepad	ack 'DAT Pack' ! : of drivepacks ! :k 'DAT Pack'!
🗃 new 🅎 🖃		

Fig. 18.4 - Modified Drivepacks Screen

Press the check box to return to the Server Administration screen.

3.3.4 Create a Tape Pool Definition

While on the Server Administration screen, choose *Tapes* in the menu, then *Pools Management* in the pop-up menu:



Fig. 19.1 - Selecting the Pools Management Screen

The following screen will be displayed:

	Pools management	
5	Pools management	
SC NI	ratch pool JLL Pool	
09-2	27-98 06:05 You have successfully loaded a	the list
1	ew 🕎 🔍 🛄 🗹	×I

Fig. 19.2 - Pools Management Screen

Click on the 'NEW' button and fill in the fields as shown below:



Fig. 19.3 - Pool Creation Screen

Press the check box to record your selection. Then, the following screen will be displayed:

	Pools management 🛛 🗖 🗖 🛛
5	Pools management
0	scratch pool DAT Pool NULL Pool
	9-27-98 06:08 You have successfully created pool 'D(9-27-98 06:08 You have successfully loaded the list
3	new 🧊 🔍 🛄 🛛 🗹 🔀 🕐

Fig. 19.4 - Pools Management Screen

3.3.5 Create a Tape Definition

To make sure that the pools management screen is displayed, choose *Tapes* in the menu, then *Pools Management* in the pop-up menu while being on the Server Administration screen:



Fig. 20.1 - Selecting the Pools Management Screen

The following screen will be displayed:

K		Pools management 🛛 🗖 🗖 🔀
	a	Pools management
	0	scratch pool DAT Pool NULL Pool
	0	9-27-98 06:08 You have successfully created pool 'DF 9-27-98 06:08 You have successfully loaded the list
	3	new 🥎 🔍 🔔 🗹 🗹 🗹

Fig. 20.2 - Pools Management Screen

To create tapes within the DAT Pool, select and double click on DAT Pool. The following screen will be displayed:



Fig. 20.3 - Tapes in Pool 'DAT Pool' Screen

Press the 'NEW' button and fill in the fields has shown:

K		Create tape(s)	
	new	Create tape(s)	
	Tape name:	DAT tape-	0
I	First number:	1 Last number:	4
I	Owner:	root	Decusia
	Authorizations:	<u>D</u> elete <u>C</u> lean	Rec <u>y</u> cie
I	Recycling dest.: Recycling mode:	FIFO	
I	Current pool:		

Fig. 20.4 - Create Tape(s) Screen

Note:

You must select the correct type of your tape in the 'Type'-Field. This example uses 90 m DAT tapes. If you use other tapes, choose the correct type in the pop-up menu.

Press the check box to record your selection. The following screen will display the 4 DAT tapes that you just created:

K		Tapes in pool 'DAT	Pool'	
	•	Tapes in pool 'DA'	T Pool' 🥥	
	DAT tape-1 DAT tape-2 DAT tape-3 DAT tape-4	free free free free	00001 00002 00003 00004	
	09-27-98 06:12 You have 09-27-98 06:12 You have 09-27-98 06:12 You have 09-27-98 06:12 You have	successfully created successfully loaded successfully loaded	'4/4' tapes ! the list of tapes ! the list of tapes !	

Fig. 20.5 - Example for Tapes in Pool 'DAT Pool'

Close this window and the *Pools Management* screen by clicking the check box. You will automatically return to the *Server Administration* screen.

3.3.6 Perform an Interactive Backup Using the Definitions Created

Place a new unused tape in your tape drive.

While being on the Server Administration screen, select *Backup* on the menu and *Interactive Backup* in the pop-up menu.



Fig. 21.1 - Selecting the Interactive Backup Screen

The following screen will be displayed:

1	Interactive backup	
Savepack: Drivepack: Pool:	Test savepack 🚽 DAT Pack 🔮 DAT Pool 🔮	
Туре:	Total Backup 🖨 Standard 🖨	
Tape strategy: Valid for:	Complete existing tapes 🖨 30 Day(s)	
Parallelism: Tag: Comment:	Default 🖶 Use emails 🚔	
1999/09/14 12:11 You have successfully loaded the list of ba		
a a 76		

Fig. 21.2 - Interactive Backup Screen

Note:

Make sure that

- the Savepack field is set to 'Test savepack'.
- the Drivepack field is set to 'DAT Pack'. This contains your DAT drive.
- that the Pool field is set to 'DAT Pool'. This contains your DAT tapes.

As soon as this is done, press the check box to start the interactive backup. A screen similar to the following one will be displayed:

	arkeia		
00h00'09" Server redhat60 Savepack Test savepac Drivepack DAT Pack Pool DAT Pool Cruise unlimited	0 0000 0006 Backup Speed	Speed in MB/min Instant Average 43 38 34 files 1 drive	
	1 DAT Drive 43 MB/min DAT tape-1		
Name Drive	e Speed Current directory 45 redhat60:/portages	# flows: 1	
1999/09/14 12:12 [1] Trying to connect to "redhat60" 4 1999/09/14 12:12 [1] Connected to "redhat60" 4			
9 🕼 🗙 🎜 🔍			

Fig. 21.3 - Interactive Backup Screen

Arkeia is now backing up your system. The data is being written on your tape drive. Once the speedometer needles start moving, you can cancel the backup by pressing the *Stop* icon. Click on *yes* when you are asked for a confirmation.

You have now successfully completed a real backup of your Arkeia backup server.

Personal Notes:

