# **BACKUP SERVER**

#### AIM:

To install and configure Back in Time Backup server in Linux.

#### ABOUT :

Back In Time is a simple backup tool for Linux inspired from "TimeVault".The backup is done by taking snapshots of a specified set of directories.Back In Time is just a GUI.The real work is done by the commands:rsync(taking snapshots and restores),diff(checks if something is changed) and cp(makes hardlinks).This server acts as a "user mode" backup system.

#### **PROCEDURE:**

1.First edit /etc/apt/sources.list file

sudo gedit /etc/apt/sources.list

2.Add the following line

deb http://le-web.org/repository stable main

- 3.Save and exit the file
- 4. Then add the GPG key information:

wget http://le-web.org/repository/le-web.key

sudo apt-key add le-web.key

5.Update the source list

sudo apt-get update

6.Install back in time using the following command

sudo apt-get install backintime-common backintime-gnome

#### **Using Back In Time**

1. Open Back In Time from Applications-->System Tools-->Back In Time



2. When it opens first time you would see the similar screenshot as below. Select the location of snapshots and the scheduled time.

8			Settin	gs		>
General	Include	Exclude	Auto-remove	Options	Expert Options	
Where	to save	e snapsl	nots			
R	thi 🖉					~
Sched	ule	12 5				
Every	/ Week	a (1)	S.			~
					4//	<u>//</u>
					<u>↓ ок</u> 🔞 ⊆а	ancel

3. Click on Include tab and start adding the folders for backup.

8			Settin	gs		2
General	Include	Exclude	Auto-remove	Options	Expert Options	
Include	folders					
0.0	W/M					
	4	Add			- <u>R</u> emove	
				ſ	실 <u>O</u> K <mark>⊗</mark> Canc	el
				L		

Ş			Settin	gs	
General	Include	Exclude	Auto-remove	Options	Expert Options
Include	folders				
i /etc/	acpi				
				98	OK. COM
	1	> <u>A</u> aa			<u> </u>

<b></b>		Back In Time		
Backup Now Update	snapshots Snapshot Na	me Remove Snapshot Settings	About	() Help
Snapshots	Now			
Now	Up [	다. Hidden files	Restore	Copy Snapshots
	Shortcuts	Name	∽ Size	Date
	Global	🖴 bin	4 KB	2009-04-24 21:06:03
	Root	i boot	4 KB	2009-05-09 09:42:37
	😭 Home	C cdrom	4 KB	2009-04-24 20:57:18
	Backup folders	🚘 dev	ЗКВ	2009-06-24 17:17:11
	🔄 /etc/acpi	iei etc	12 KB	2009-06-24 20:34:37
		🗎 home	4 KB	2009-04-24 21:03:37
			4 KB	2009-05-09 09:39:02
		📄 🔤 lost+found	16 KB	2009-04-24 20:57:07
		🗎 media	4 KB	2009-04-20 14:59:25
		🚔 mnt	4 KB	2009-04-13 10:33:15
		📄 opt	4 KB	2009-04-20 14:59:25
		🚔 proc	0 bytes	2009-06-24 17:15:33
		🗟 root	4 KB	2009-06-24 20:37:54
		🚔 sbin	4 KB	2009-05-09 09:39:47
		🚔 selinux	4 KB	2009-03-06 16:21:23
		i srv	4 KB	2009-04-20 14:59:24

### 4. Once you completed the selection of your files click on backup now.

5. After completing the backup you should see similar to the following screen.

		Back In Time			×
Backup Now Update	🖒 🕞 📄	ame Remove Snapshot Settings	Abou	t Help	~
Snapshots	Now				_
Now	W/B .		.0		
Today	Up UT	Hidden files	Restore	Copy Snapsh	ots
2009-06-24 20:40:04	Shortcuts	Name	Size	Date	
	Global	🕞 bin	4 KB	2009-04-24 21:06:03	3
	Root	🖨 boot	4 KB	2009-05-09 09:42:37	7
	🕋 Home	🖨 cdrom	4 KB	2009-04-24 20:57:18	в
	Backup folders	🚘 dev	ЗКВ	2009-06-24 17:17:11	1
	🧾 /etc/acpi	逼 etc	12 KB	2009-06-24 20:34:37	7
		🚔 home	4 KB	2009-04-24 21:03:37	7 =
		🚘 lib	4 KB	2009-05-09 09:39:02	2
		🗉 🔤 lost+found	16 KB	2009-04-24 20:57:07	7
		📄 media	4 KB	2009-04-20 14:59:25	5

6.You can view the Backup folder details.

		Back In Time				
Backup Now Update	这 📄 snapshots Snapshot Nan	ne Remove Sr	apshot Settings	a About	() Help	.
Snapshots	Snapshot: 2009-06-2	4 20:40:04				
Now	& CAL		- 4			-And
Today		Ama	Hidden files	Restore	Copy	Snapshots
2009-06-24 20:40:04	Shortcuts	Name	100	✓ Size	Date	
	Global	🗀 etc	2 Op	// 4 KB	2009-00	6-24 20:34:3
	Root		S	16		
	🕋 Home					
	Backup folders					
	I /etc/acni					

Using Back In Time

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Snapshots	Snapshot: 2012-03-30	21:45:10		
Now	1 /home			
Today		1		
2012-03-30 21:45:10	Shortcuts	Name 👻	Size	Date
	Global	i howtogeek	4 KB	2012-03-30 21:36:45
	Root			
	🏠 Home			
	Bookmarks			
	Documents			
	Music			

Ubuntu includes <u>Deja Dup</u> an integrated backup tool, but some people prefer Back In Time instead. Back In Time has several advantages over Deja Dup, including a less-opaque backup format, integrated backup file browser, and more configurability.

Deja Dup still has a few advantages, notably its optional encryption and simpler interface, but Back In Time gives Deja Dup a run for its money.

### Installation

Back In Time is available in Ubuntu's Software Center. Unlike Deja Dup, Back In Time also has a GUI that integrates with KDE. If you're using Ubuntu's default Unity desktop, install the GNOME version.

80	😣 🖨 💷 Ubuntu Software Center									
<del>(</del>	->	<b>All Software</b>	•	Installed	*	History	<b>Q</b> back in time			
All S	oftware	2								
	Back In T Simple bac	ime (backin kup system	time-k	de)						
	Back In T Simple bac	ime (backin kup system	time-g	nome) ★	***	(42)				

Back In Time is also available in Fedora, Mandriva, and other Linux systems' repositories.

## **Backing Up Files**

Back In Time installs two shortcuts – "Back In Time" and "Back In Time (root)." The root version runs with root permissions, which are required to access and back up certain system files. If you're just backing up your personal files, select the "Back In Time" shortcut.



You'll see the Settings window after you launch Back In Time. This window is more complex than Déjà Dup's, but it also offers greater configurability. For example, Back In Time lets you create different profiles with separate backup settings, a feature Deja Dup lacks.

Settings			
Profile: Main profile			‡ Edit N
General Include Exclude Auto-remove Where to save snapshots /home/howtogeek/Backups	Options	Expert Options	
► Advanced Schedule			
Disabled			
District			
			Cancel

You'll have to specify a location for your backup snapshots in the "Where to save snapshots" box on the General tab and a list of files or folders you want to back up on the Include tab. The other options in the Settings window are optional.

😣 Setl	tings						
Profile:	Main profile						Edit
General	Include Ex	clude	Auto-remove	Options	Expert Option	าร	
Include	files and fold	ers					
	Add file			Add f	older		Remove
							Cancel

Unlike Deja Dup, Back In Time allows you to configure when your backups are automatically removed. Deja Dup only removes older backups when the storage space fills up, while Back In Time offers much finer-grained control on the Auto-remove tab.

Settings					_	
ofile: Main profile				-	E	dit 1
eneral Include Exclude Auto-remove	Options	Expert Options				
Older than:	10		+	Year(s	s)	
🖉 If free space is less than:	1		-	Gb		
Smart remove						
Keep all snapshots for the last		2			*	day(s)
Keep one snapshot per day for the l	ast	7			*	day(s)
Keep one snapshot per week for the	e last	4			*	week(s)
Keep one snapshot per month for th	ne last	24			*	month(s
Keep one snapshot per year for all y	ears					
Don't remove named snapshots						

Once you're done configuring your backups, click the OK button and use the "Take snapshot" button to take your first snapshot. Back In Time uses <u>rsync</u> as its backend, which offers incremental backups – future backups will only copy changes and will complete quickly.

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	) 🕺 🚖 🕜 🛛 🖸		
Snapshots	Now		
Now	1		
	Shortcuts	Name 🔻	Size
	Global	📄 bin	4 KB
	Root	📄 boot	4 KB
	🏠 Home	📄 cdrom	4 KB
	Bookmarks	📄 dev	4 KB
	Documents	📄 etc	12 KB
	📄 Music	📄 home	4 KB
	Pictures	📄 lib	4 KB
	📄 Videos	lost+found	16 KB
	📄 Downloads	📄 media	4 KB
	Backup folders	📄 mnt	4 KB
	/home/howtogeek	📄 opt	4 KB
	and the second s	📄 proc	0 bytes
		📄 root	4 KB
		📄 run	840 bytes
		📄 sbin	4 KB
		📄 selinux	4 KB
Done			

## **Restoring Files**

Unlike Deja Dup, which uses a <u>Duplicity</u>-based, opaque backup format, Back In Time uses rsync directly. Your backup snapshots are stored as files and folders on your hard disk, allowing you to browse them directly. You could perform a backup to a removable hard drive, plug it directly into Windows, and access your files without converting or extracting anything. Unfortunately, this does mean that Back In Time doesn't offer the same encrypted backup feature Deja Dup does.



Back In Time offers a graphical snapshot browser that makes it easy to browse your backup snapshots and restore individual files, while Deja Dup offers no such browser. Deja Dup's Nautilus integration allows you to restore individual files from a file browser window, but only if you know the folder they were originally contained in. There's no way to browse a snapshot without restoring the entire thing to another folder.



Back In Time is a more powerful, configurable tool with a less opaque backup format.

### **RESULT:**

Thus the backup server is installed and configured successfully.