



BACKING UP YOUR DATA

WHAT IS BACKUP

The copying of your documents, photos, music, videos (personal data) so you have a second copy of the data to be used to restore and recover.



A backup copy can be created by:

- Simply copying data to create one or more copies
- Mirroring data - the copy is always updated with whatever is written to the primary data)

WHY BACKUP

- Computer hardware failure
- Water Damage
- Data Corruption
- Data Integrity
- Accidental deletion of data
- Virus, Malware, Ransomware
- Loss of Hardware - fire or possibly theft
- Power failure
- Aliens ???





BACKUP ESSENTIALS

- Runs Automatically - set & forget
- Runs Seamlessly - no media swapping
- Includes Multiple Versions of your files
- Local backup, Offsite backup or both



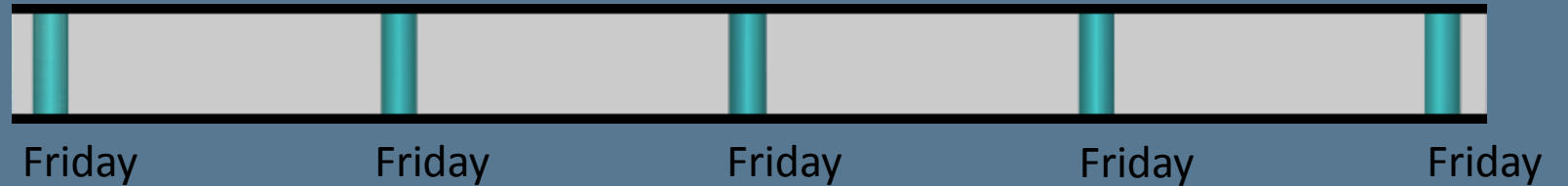
BACKUP FEATURES

- Data compression for effective storage
- Scheduling for minimal user interaction, user maintenance and more automation
- Segmentation for organizing the space or volume of data

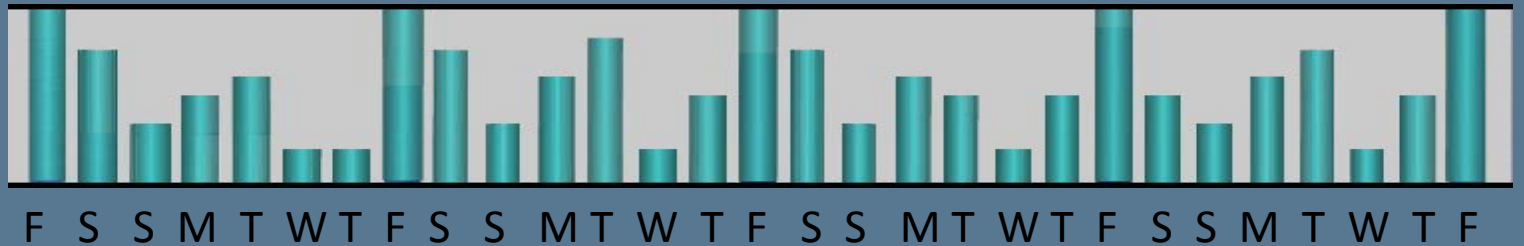
BACKUP TYPES

Three basic types of backups:

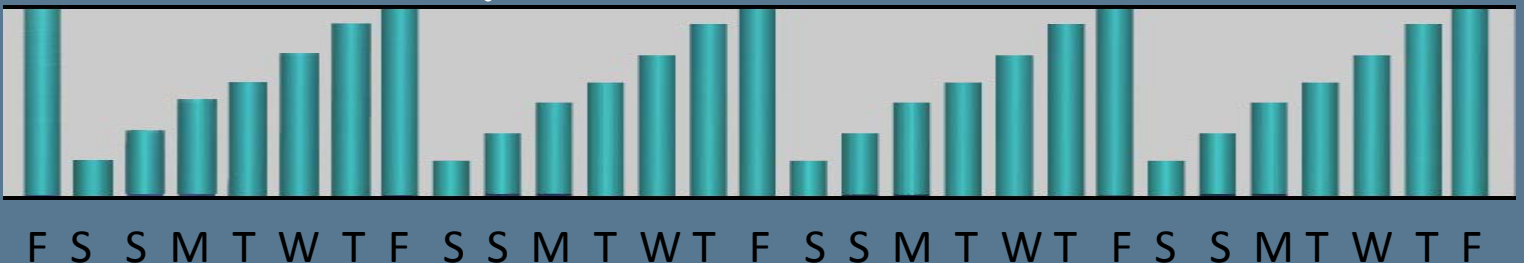
- Full backups



- Incremental backups

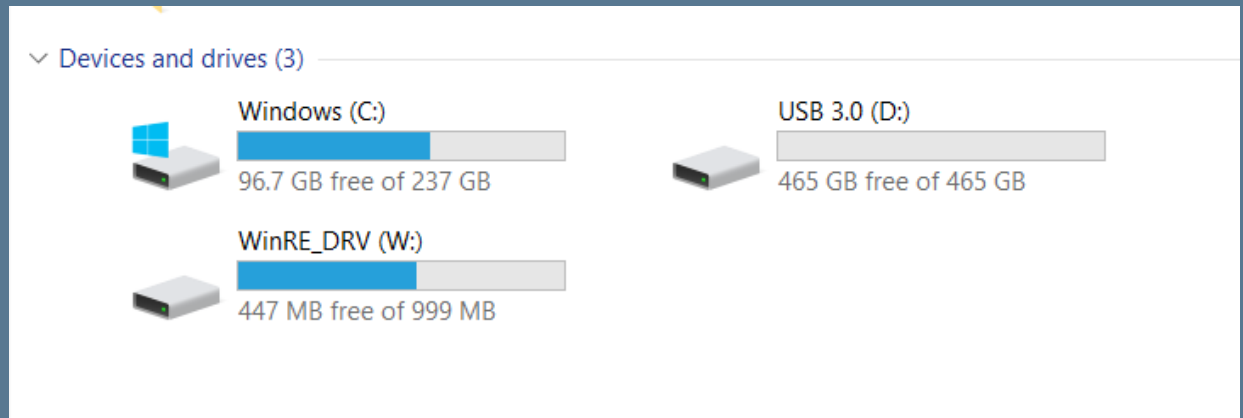


- Differential backups



LOCAL BACKUP

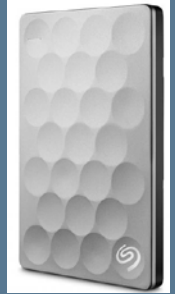
- Requires an external local storage device
 - External USB Hard Disk



LOCAL BACKUP - Drives

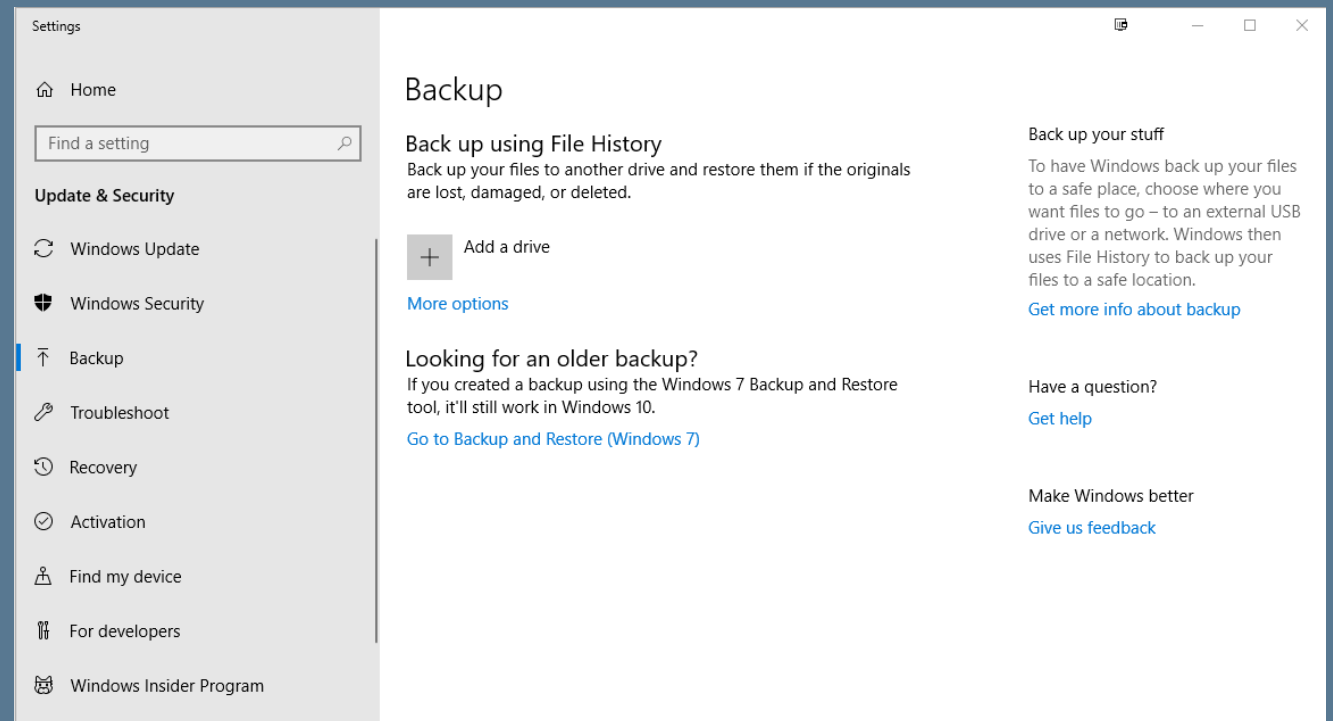
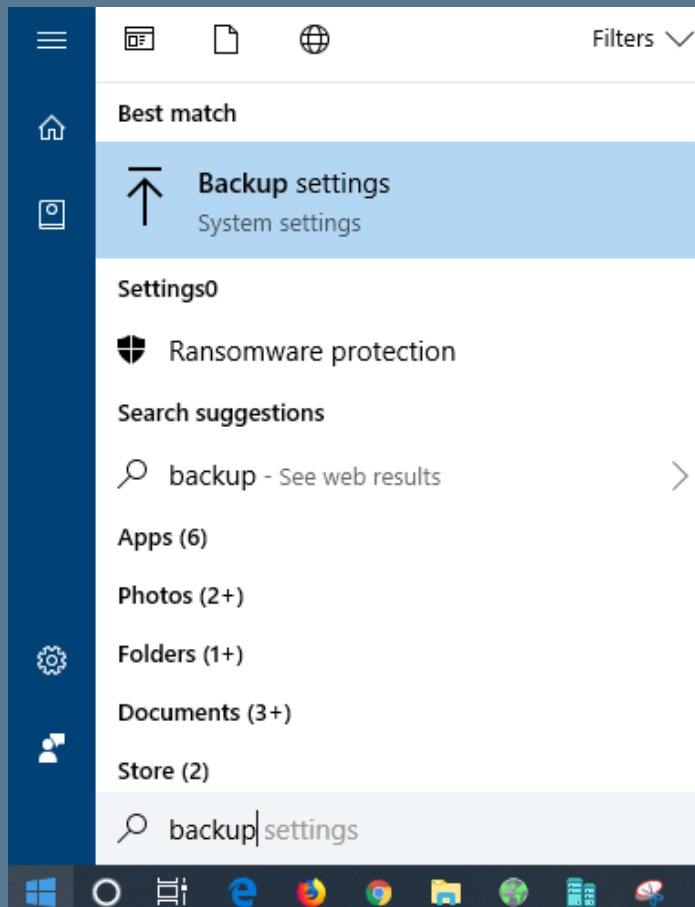
External local storage devices

- Seagate Backup Plus Ultra Slim
 - 9.6mm thk, USB 3, £53 (1TB), £73 (2TB)
- WD MyPassport
 - USB 3, £45 (1TB), £62 (2TB)
- PNY Pro Elite 512GB Flash Drive
 - USB 3, £71 (256GB),
• £115 (512GB)



LOCAL BACKUP in WIN 10

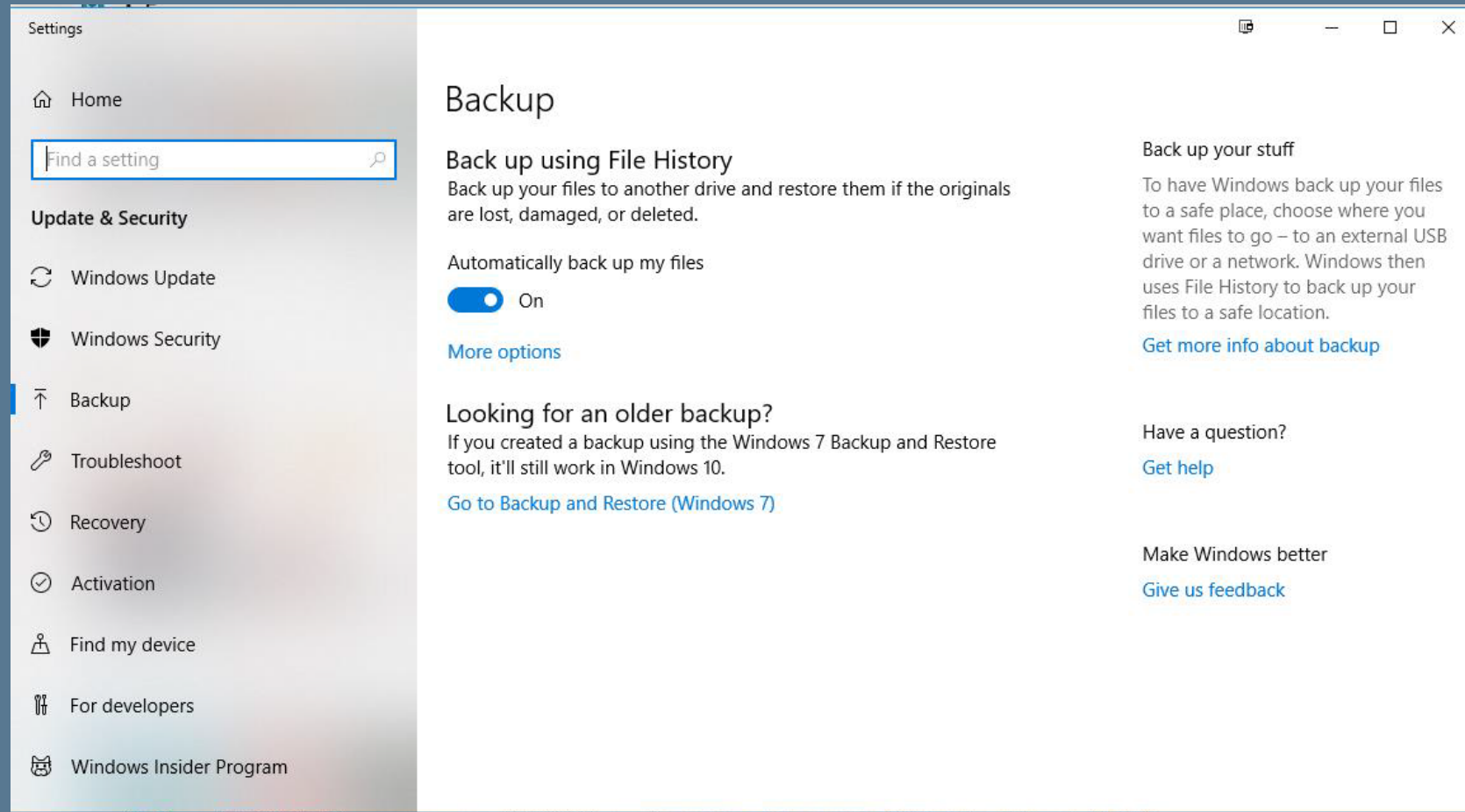
- Windows 10 includes "File History" to backup your data to another drive. (Backup & Restore in Win 7)
- Click start and type Backup Settings



Click **Add a Drive** and select your new external USB Drive

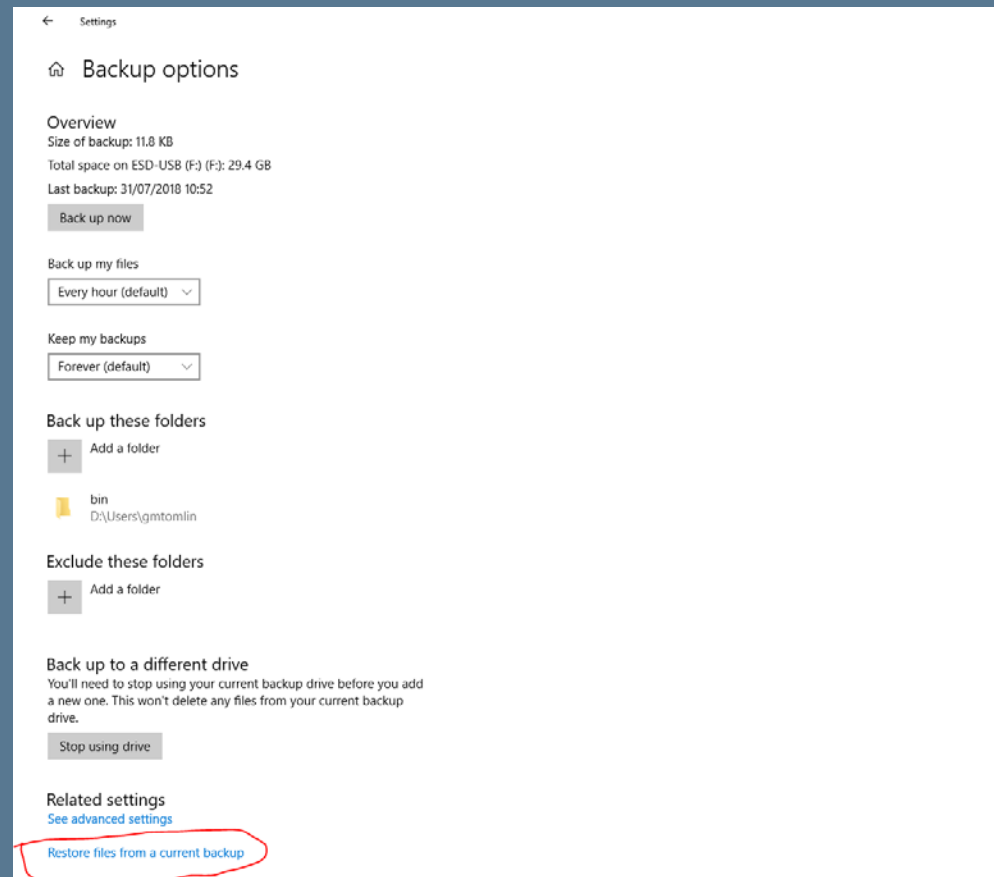
LOCAL BACKUP in WIN 10

- You are now backing up your data



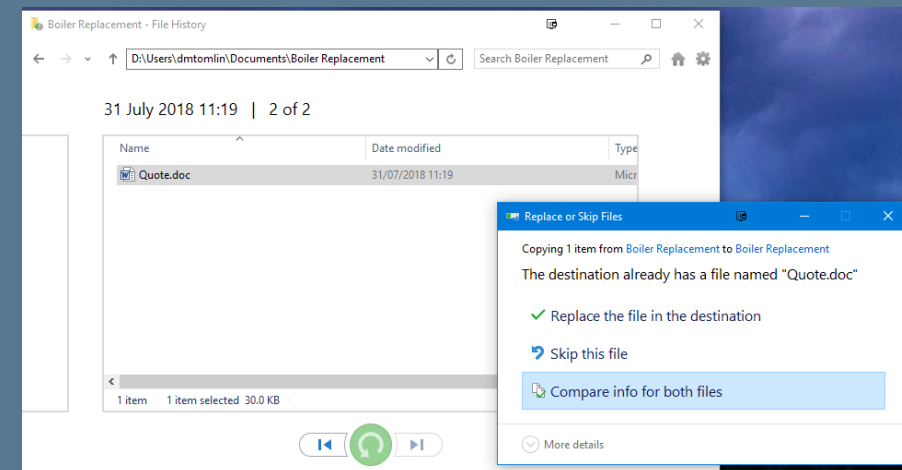
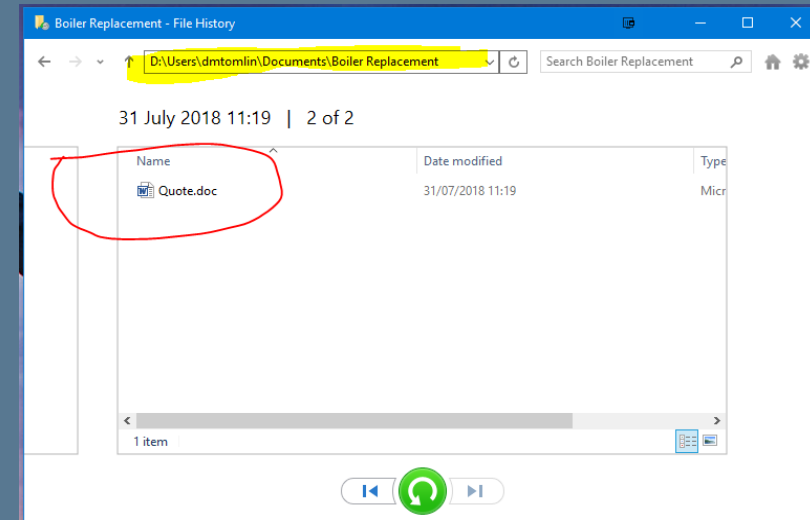
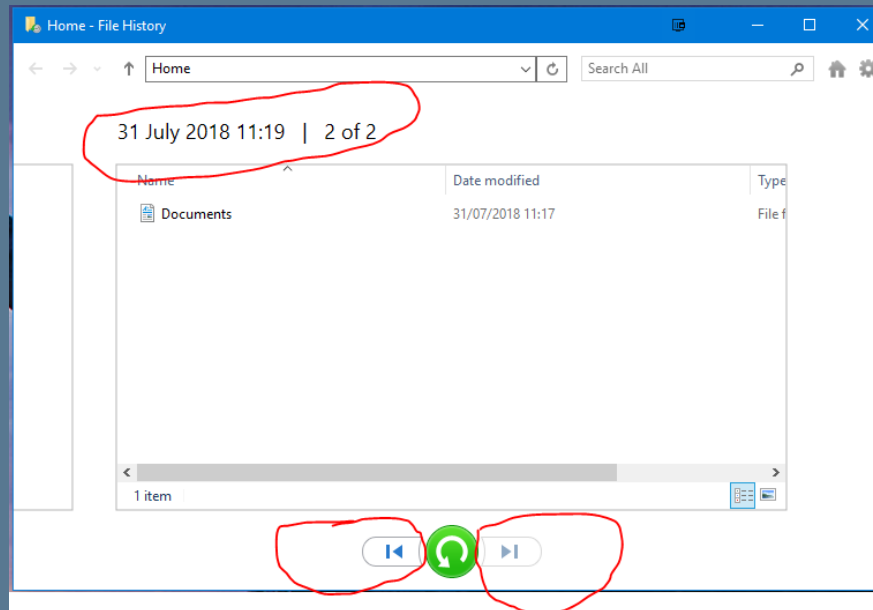
FILE RESTORE in WIN 10

- To recover a file or folder, go to **Backup** and click on **More options** and click **Restore files from a current backup** at the bottom of the screen



FILE RESTORE in WIN 10

- You can select the date you want to restore from and also the file you want to restore

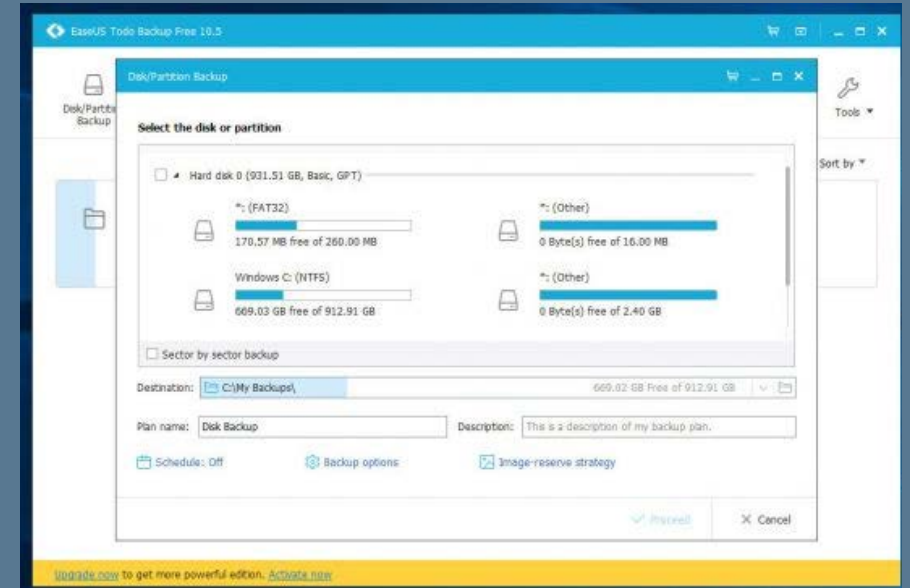


BACKUP SOFTWARE

Free Options :

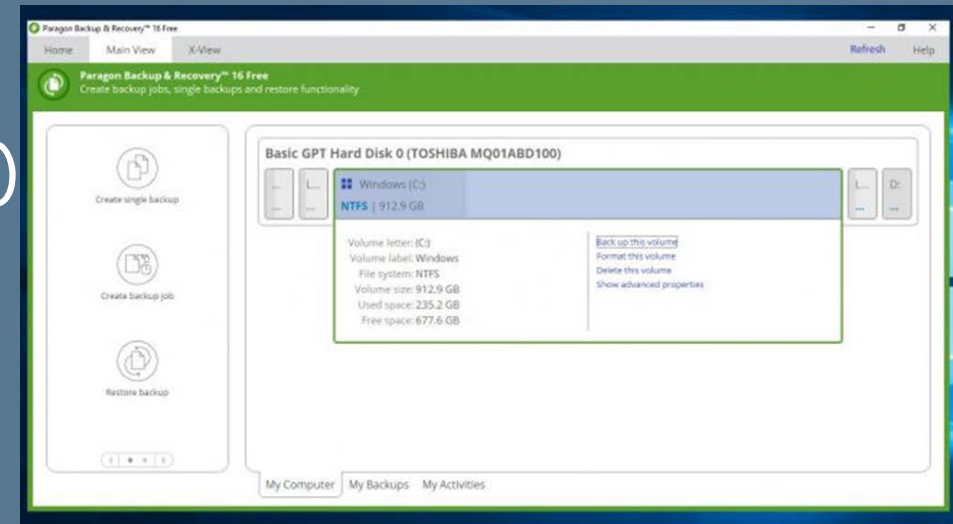
1. EaseUS Todo Backup Free

- Clear interface
- Full range of backup types
- Easy scheduling
- Automatic 'smart' backups



2. Paragon Backup & Recovery

- Wizard-based setup (beginners)
- Highly customizable
- Advanced data recovery





CLOUD BACKUPS

- Backup your data directly to a cloud storage provider:
 - Apple iCloud (OSX only using Timemachine)
 - Dropbox - Dropbox Folder Sync
 - Google Drive - Backup & Sync
 - Microsoft One Drive

Requires subscription for the storage and may require additional software to perform backups

CLOUD BACKUPS

Backup using a cloud backup providers

Provider	iDrive	Acronis	SOS Online Backup	One Backup	Apple iCloud
Storage (Free)	2TB (5GB)	250GB (none)	100GB (none)	1TB (2GB)	2TB (5GB)
Devices	Unlimited	1	5	Unlimited	OSX only
Disk Image	Yes	Yes	Yes	Yes	Yes
Versions	Unlimited	6 Months	Unlimited	Unlimited	Unlimited
Cost	£4.5 /month	£3.25 /month	£5.2 /month	£8.35 /month	£6.99 /month

MY BACKUP SYSTEM

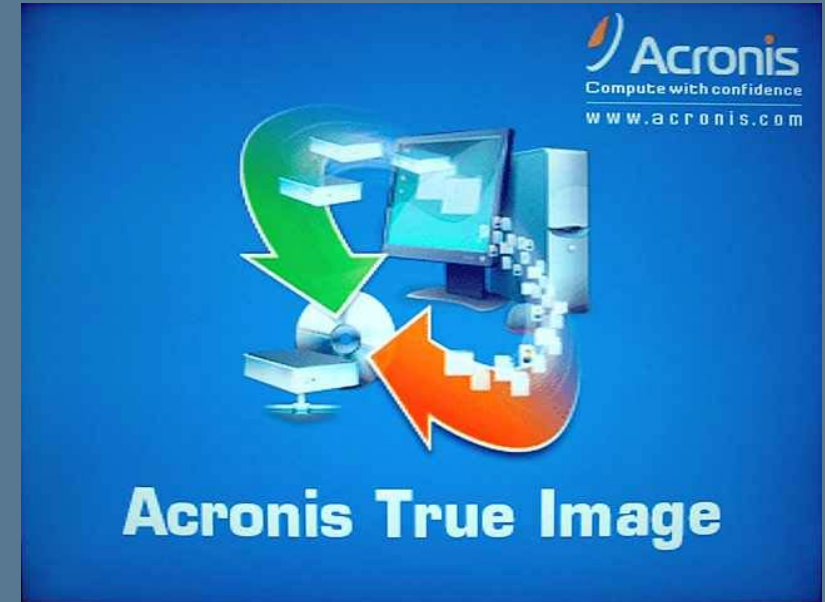
- How do I backup my system



SATA HDD Dock



SATA Internal
6TB HDD



Acronis
True Image 2018

Run weekly, for all Drives, Incremental with a full version after 10 incremental versions, excludes system files.



TAKE AWAY MESSAGE

- Something will fail !! - Be Prepared
- Plan what and where to backup
- Backup on a regular basis
- TEST, TEST and TEST again to prove the RESTORE WORKS.
- JUST DO IT