

# Hard Drive Failure - Back Up - Recovery

To view each slide scroll down with the mouse wheel



The dreaded blue screen  
You cant get any futher

How good is your backup – are you happy to loose some important files or photos

Some Applications don't need a backup as it is part of the service and backup is managed on the internet (cloud):

Gmail

Google Doc's

Some provide a hybrid service with large cloud storage for backup:

Microsoft Office 365 comes with 1000 GB of storage

For the rest of us we may have to buy cloud storage or connect external storage via the USB port.

We will look at a few backup Options

Windows 10 File History

Windows 7 Disk Image

Allway Sync - free download from Allway Sync

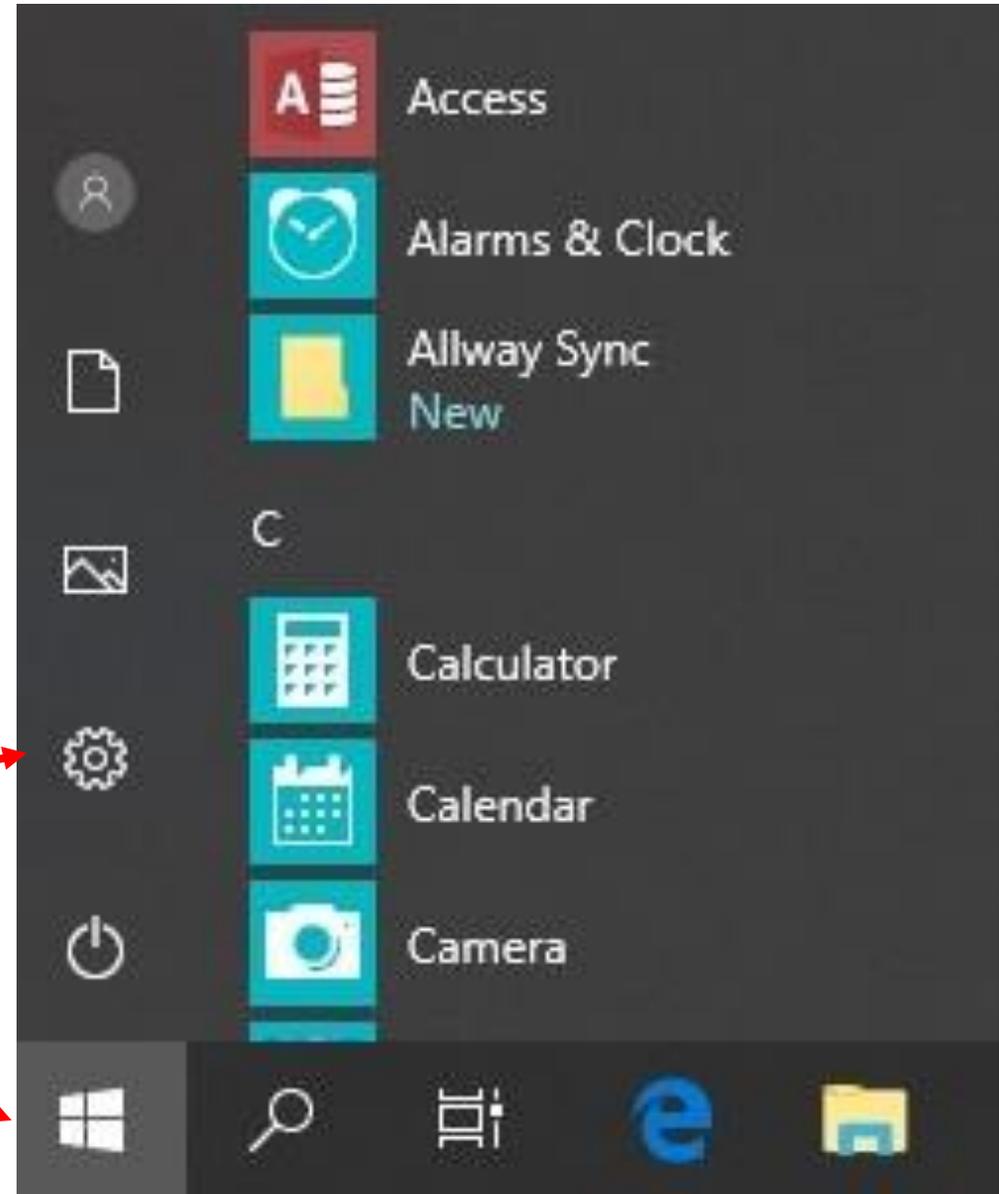
Macrium – free download from Macrium

Picasa for Photo and Video in the Picasa APP

First find out how much storage you are using

To find how large your Hard Drive is and how much is used, go to

- 1) Windows Button
- 2) then Settings

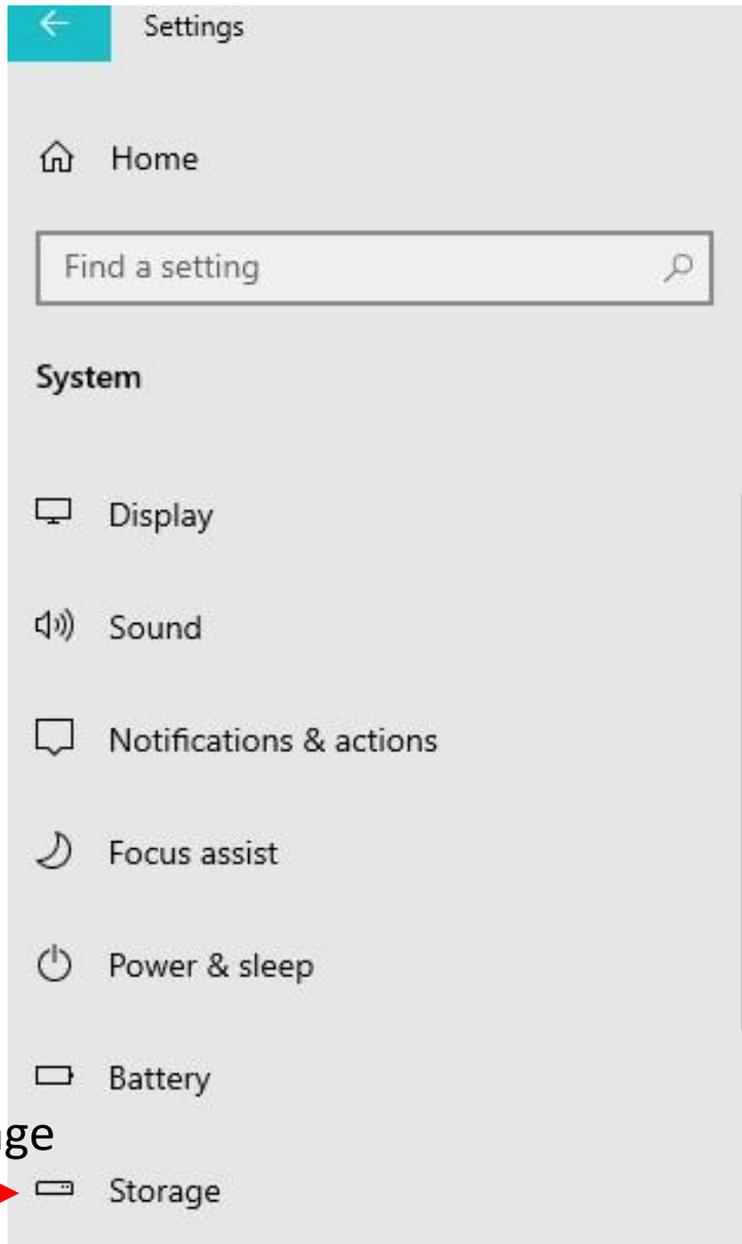


Find a s

Click to open System Settings



-  **System**  
Display, sound, notifications, power
-  **Network & Internet**  
Wi-Fi, airplane mode, VPN
-  **Accounts**  
Your accounts, email, sync, work, family



Click to open Storage



## Storage

### Local storage

This is you hard drive (C) size



This is the amount you are using

### Storage sense

Windows can automatically free up space by getting rid of files you don't need, like temporary files and content in your recycle bin

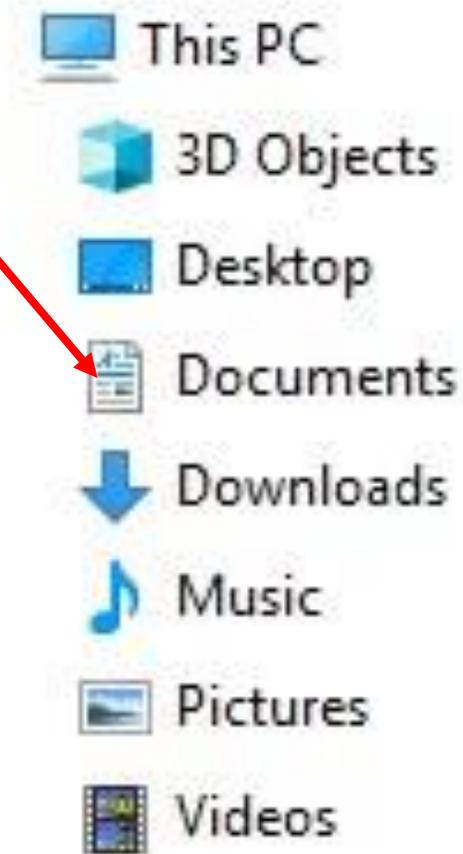


[Change how we free up space automatically](#)

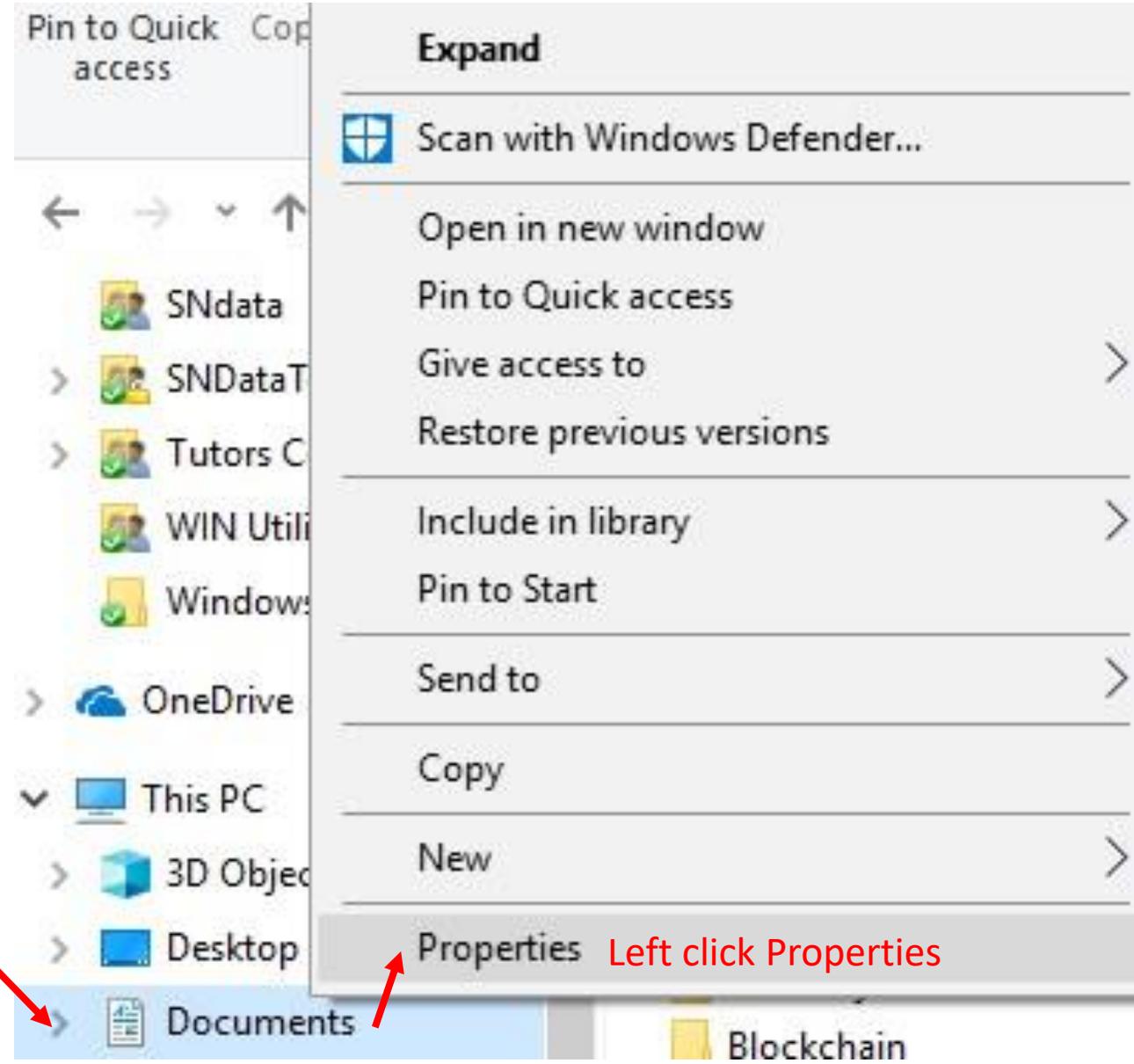
[Free up space now](#)

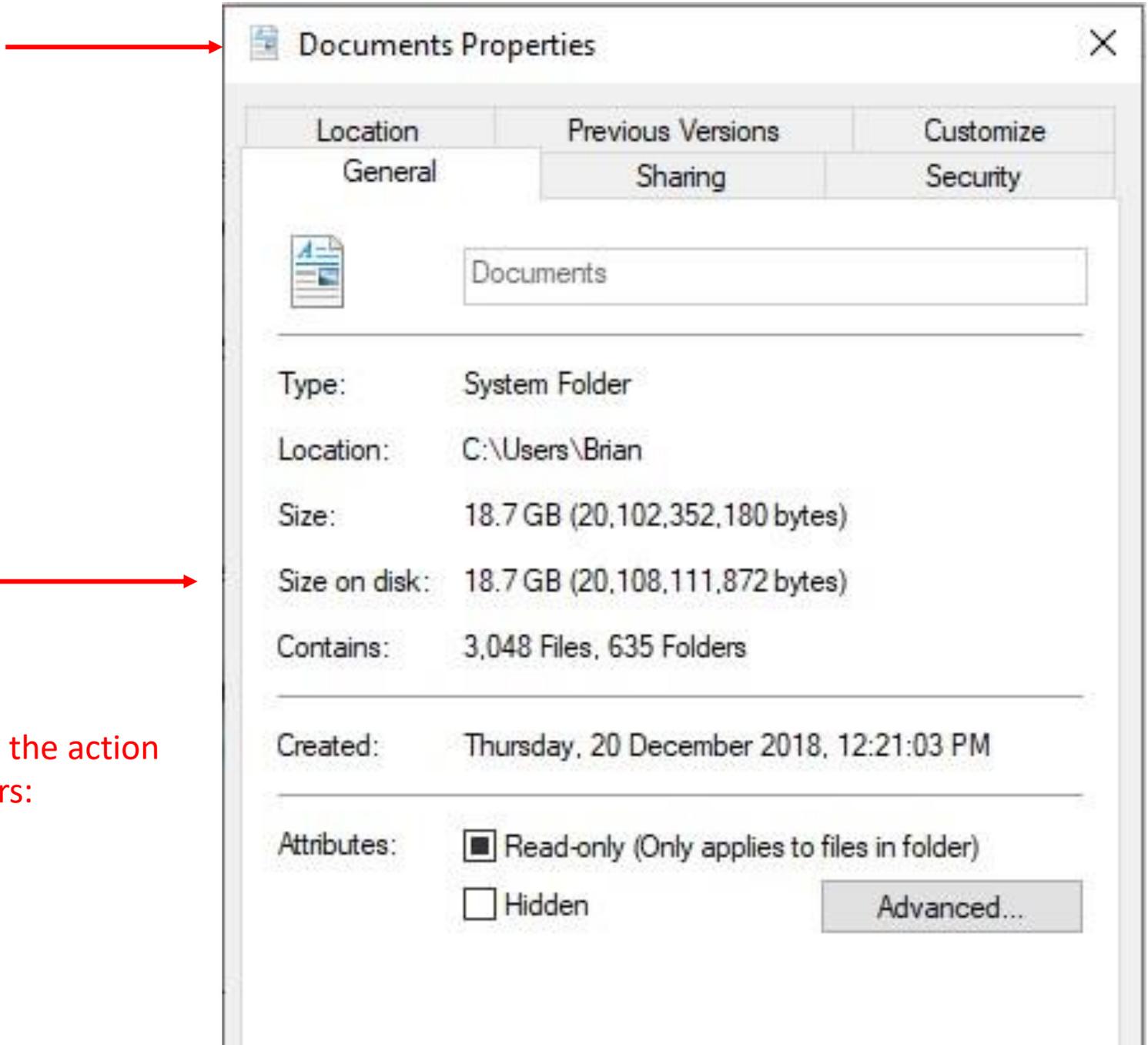
### More storage settings

To find the size of the major folders go to File explorer then ie. Documents



Right click on Documents





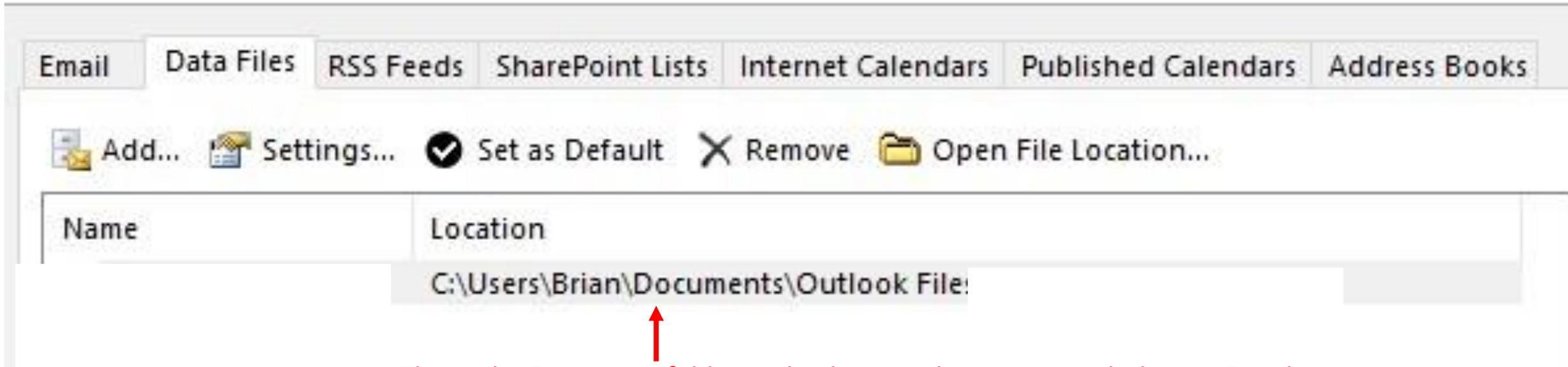
You can repeat the action  
for other folders:  
Photos  
Music  
Video

## If you want to back up Emails and Contacts

### Data Files

In Office Outlook 2019 go to File – Info –Account Settings-Data Files to find the Email storage location

Outlook Data is saved as a two large .PST files in my example in the Document Folder

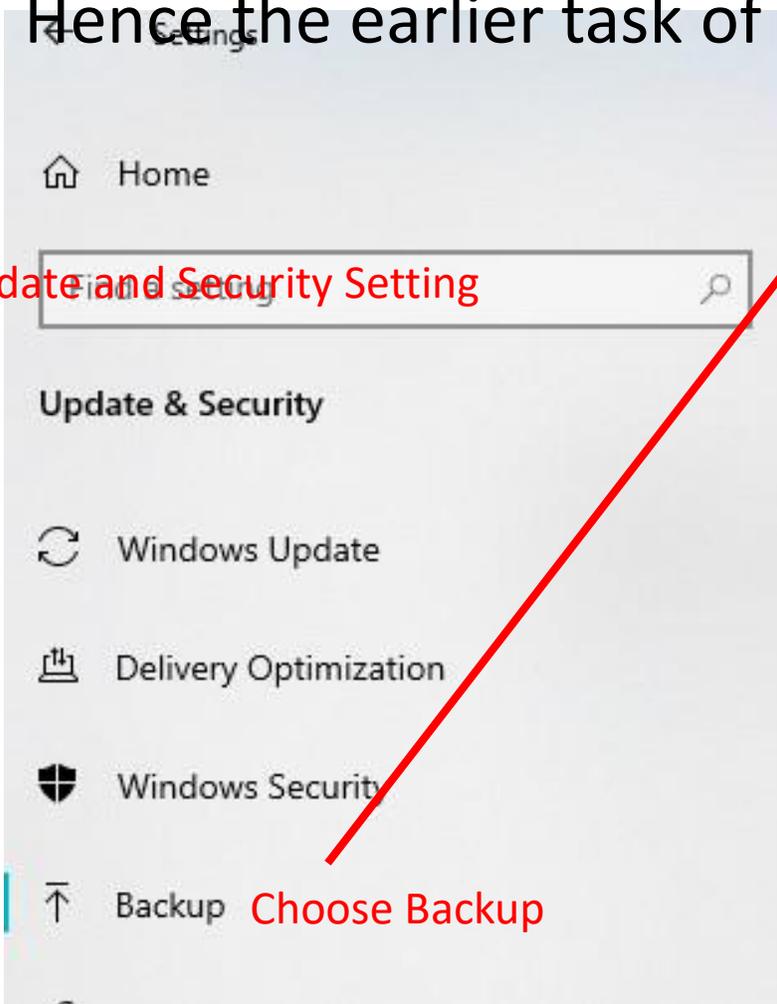


This is the Document folder, so backing up documents includes my Emails

### Win 10 Mail APP

email messages are stored locally on a mail folder in the **hidden AppData folder**. Email messages are stored as **.EML files**

Windows 10 has a built in backup using “File History”  
You need an external USB connected Drive with sufficient capacity  
Hence the earlier task of looking for Folder size.



Go To Update and Security Setting

## Backup

### Back up using File History

Back up your files to another drive and restore them if the originals are lost, damaged, or deleted.

Automatically back up my files



Turn Off until you have connected the external drive and looked at the options on the next slide

[More options](#)

### Looking for an older backup?

If you created a backup using the Windows 7 Backup and Restore tool, it'll still work in Windows 10.

[Go to Backup and Restore \(Windows 7\)](#)

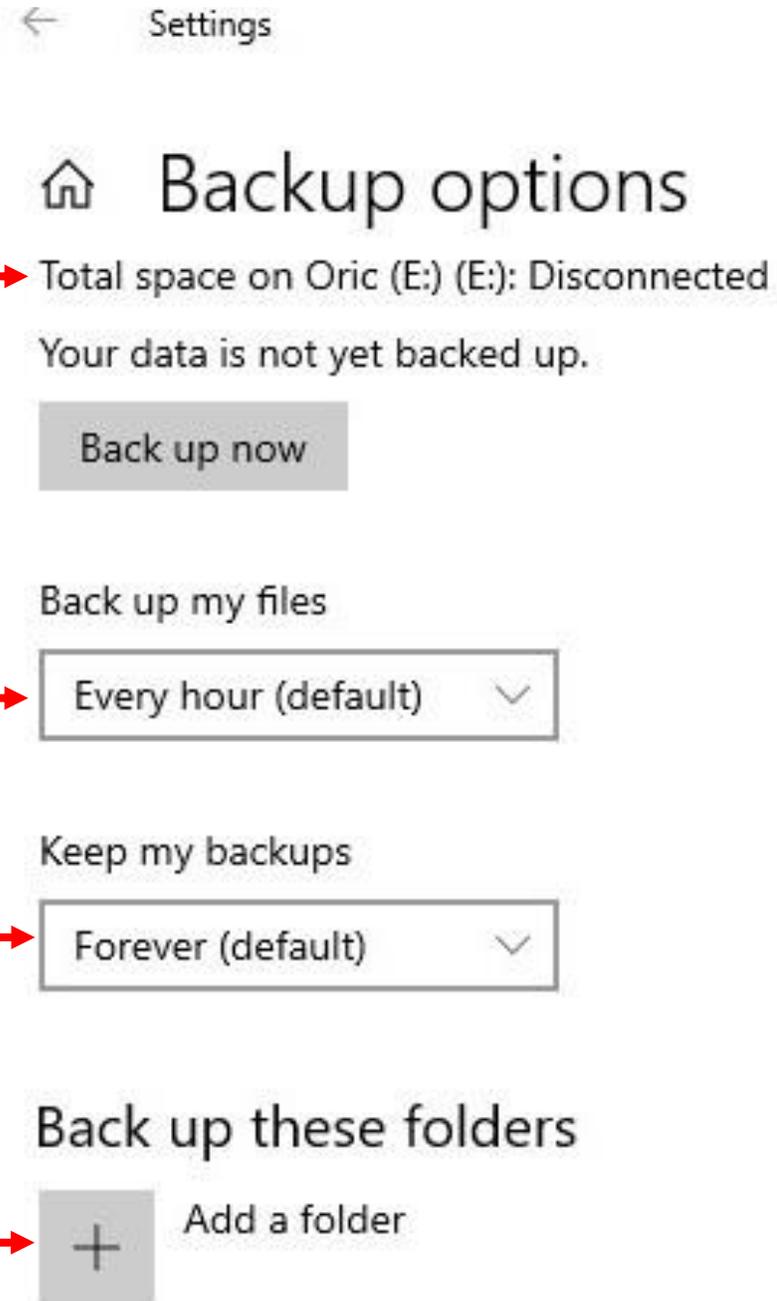
File History requires a large external drive usually connected via the USB port.

Connect your external drive  
But “cloud storage” Is not supported

Each file you are working on is backed up hourly (can be set from 10 minutes to daily )

Each backup creates a new version of the file and you can limit how long it is retained

Email PST files are a problem for File History as they can be large and could well fill up the external storage



## Backup options

Forever (weekly)

### Back up these folders



Add a folder



Downloads

C:\Users\Brian



Contacts

C:\Users\Brian



Dropbox

C:\Users\Brian



Pictures

C:\Users\Brian

The folders below are included  
You can add any other folder of choice

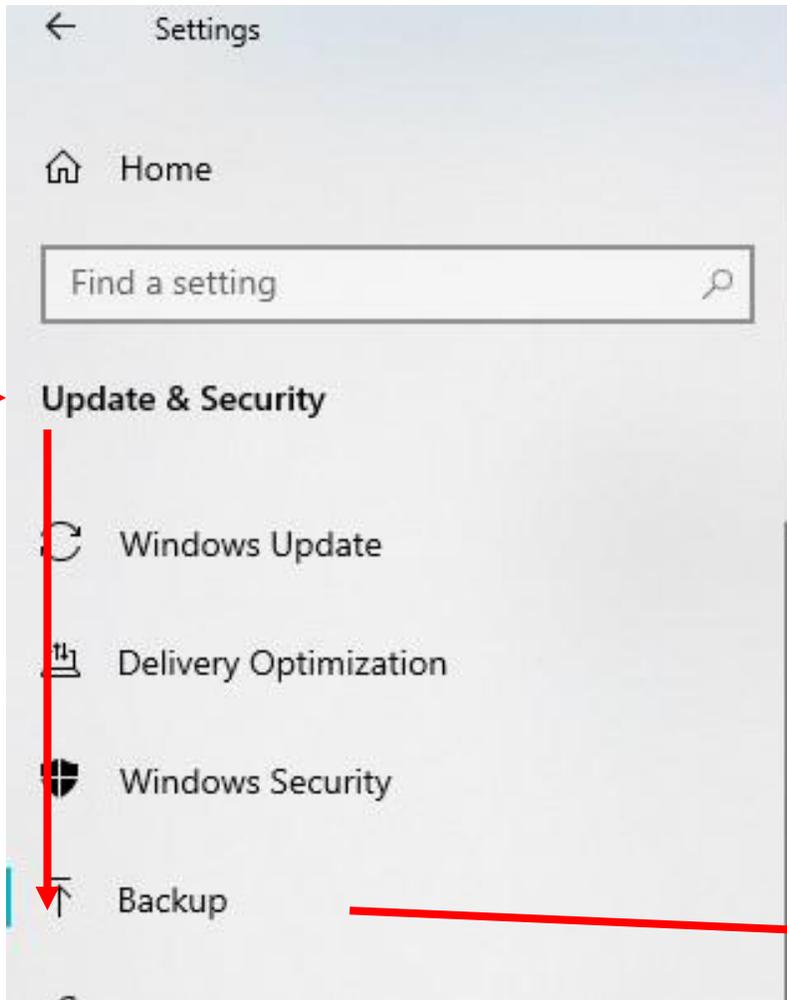
### Exclude these folders



Add a folder

Select any folders you don't want backed up

Now go back two steps and turn on Automatic backup and its underway  
If you want manual control go back one step and choose Backup Now



File History only backs up data  
For at complete whole disk backup you need an Image  
using this Windows 7 feature

## Total Disk Image for everything

### Looking for an older backup?

If you created a backup using the Windows 7 Backup and Restore tool, it'll still work in Windows 10.

[Go to Backup and Restore \(Windows 7\)](#)

Click this option

## Backup and Restore (Windows 7)

  > Control Panel > All Control Panel Items > Backup and Restore (Windows 7)

Control Panel Home

-  Create a system image
-  Create a system repair disc

Select create system image  
Follow the instructions

## Back up or restore your files

Backup

Windows Backup has not been set up.

Restore

Windows could not find a backup for this computer.

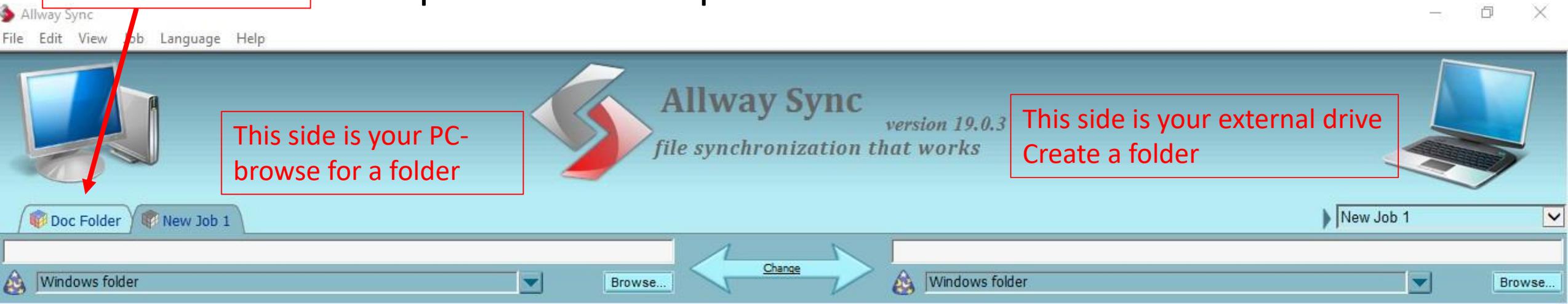
 [Select another backup to restore files from](#)

## Picasa Backup for photos and Videos

If you are a Picasa user and have created special albums, Slideshows or face-recognition-people lists then use Picasa Backup as these features will be lost in File History, Allway Sync or Macrium

Always Sync only has a single version of a file :  
it copes with Email pst files well.

Jobs are created for  
Each type of folder  
You want to back up



This side is your PC-  
browse for a folder

This side is your external drive  
Create a folder

Allway Sync can be set to run automatically when ever the backup device is connected or you can run a backup on demand.

Allway Sync analyses files to identify changes then updates those changes on the backup device

