Backups. Who needs em?

In the famous words of Alfred E. Neuman What, me worry?

For those of you who don't know who Alfred E. Neuman is. Here he is. No, he's the guy on the right.



Why bother to backup your computer?

Because something is going to go wrong.

Hardware Failure

Software Failure

Virus/Malware

Ransomware Attack

Your kids (grandkids)/spouse play with your computer

How can we make the process easier?

How about <u>automation</u> and <u>simplification</u>.

Most common types of backups

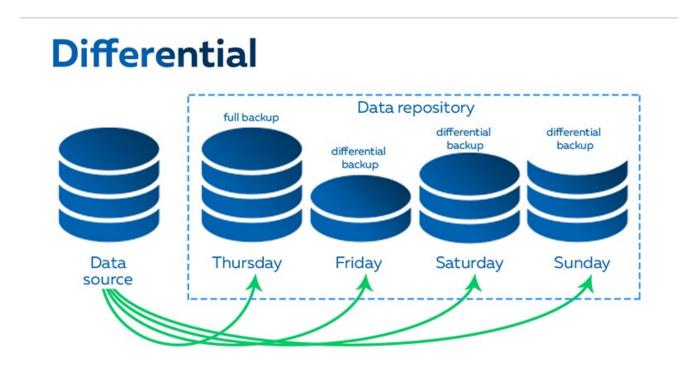
Full

Differential

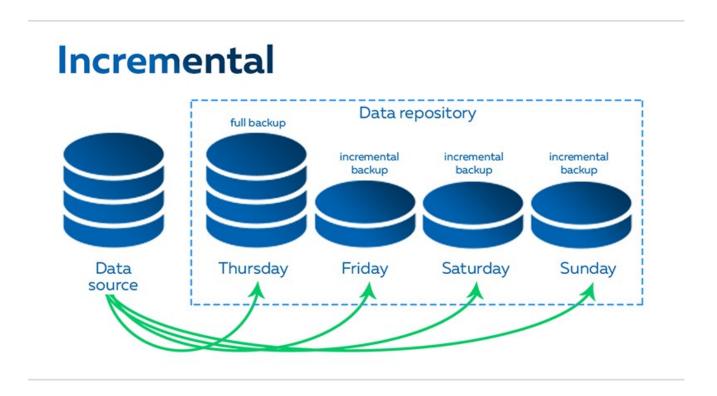
Incremental

Full backup – Everything gets backed up. Takes up the most space, takes the longest.

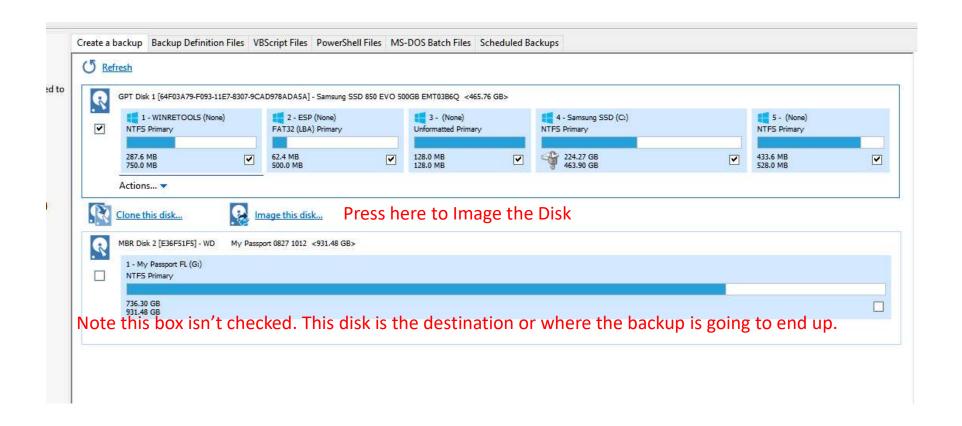
Differential Backup – Backup is everything that has changed since the last full backup. Fast and smaller backups.

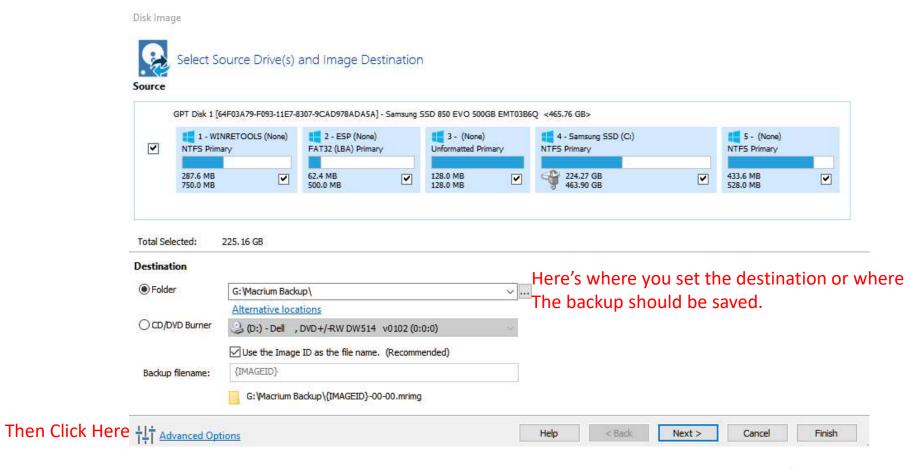


Incremental Backup – Backup is everything that has changed since the last Incremental Backup. Fast and smallest.

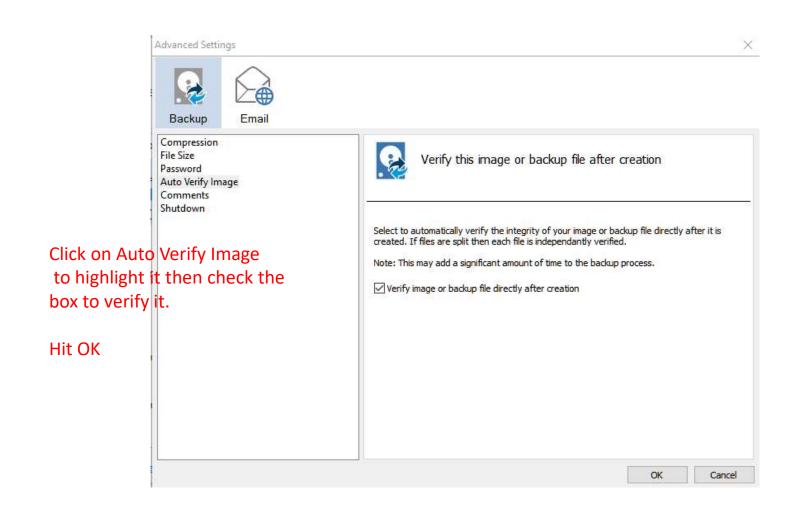


Next is Automation. Both Macrium and EaseUS allow scheduling so backups can be run automatically.

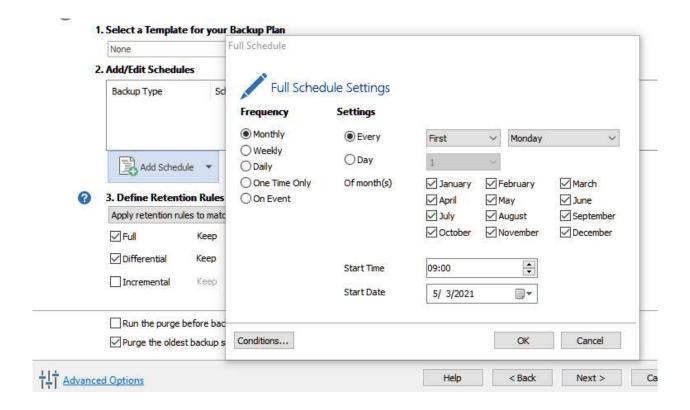




Keep hitting next after each step in this case after setting Auto Verify.

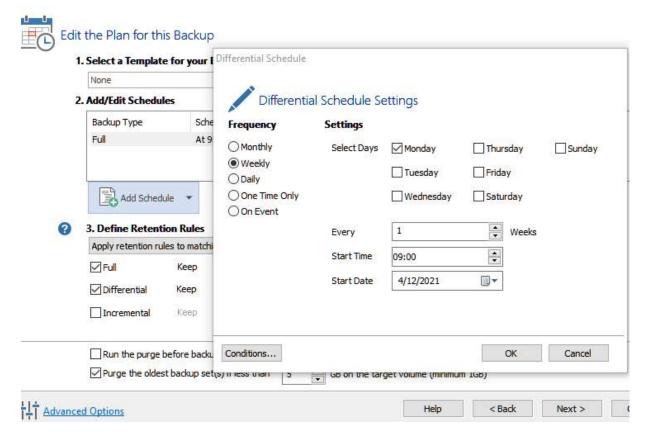


Click on Add Schedule Then Add a Full Schedule



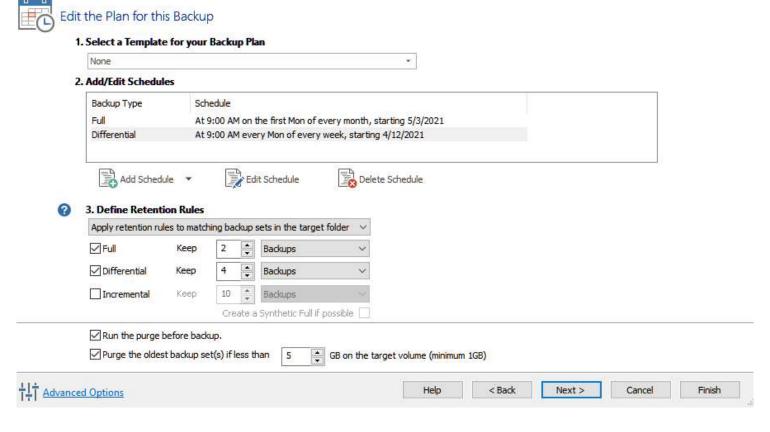
Say OK when done with the first schedule. Don't hit Next until the second schedule is done.

Add Another Schedule This Time a Differential Schedule

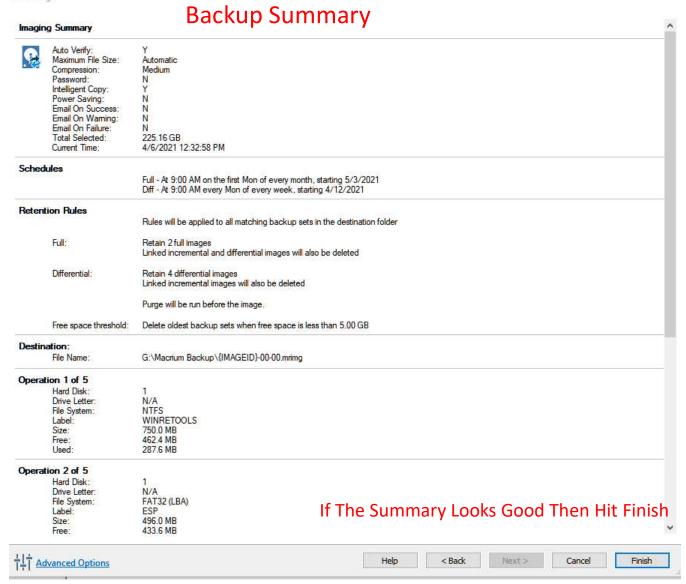


Say OK Then Hit Next

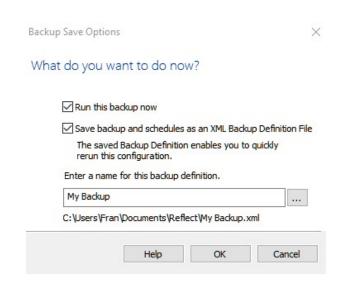
Define the Retention Rules (how many backups to keep)



Hit Next



Hit Finish And You Get This



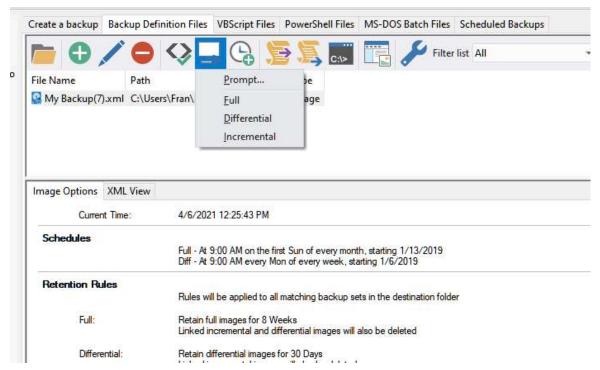
At a minimum, leave the box checked to save the backup definition or hit OK to run it as well.



Here's my backup definition file which was just saved. Click Once On It And You'll See The Details.

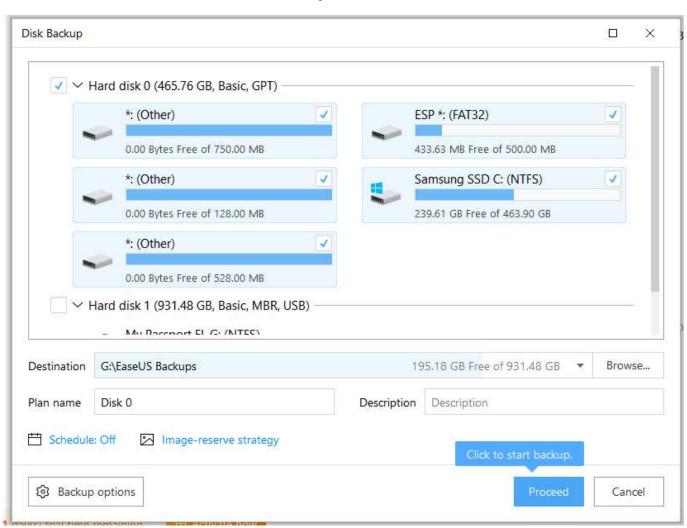
mage Options	XML View	
Current Time:		4/6/2021 12:25:43 PM
Schedules		
		Full - At 9:00 AM on the first Sun of every month, starting 1/13/2019 Diff - At 9:00 AM every Mon of every week, starting 1/6/2019
Retention Ru	ules	
		Rules will be applied to all matching backup sets in the destination folder
Full:		Retain full images for 8 Weeks
		Linked incremental and differential images will also be deleted
Differential:		Retain differential images for 30 Days
		Linked incremental images will also be deleted
		Purge will be run before the image.
Free space threshold:		Delete oldest backup sets when free space is less than 5.00 GB
Destination:		
File Name:		G:\Macrium Backup\{IMAGEID}-00-00.mrimg
Operation 1	of 5	
Hard Disk:		1
Drive Letter:		N/A
File System: Label: Size:		NTFS
		WINRETOOLS
		750.0 MB
Free:		462.4 MB
Used:		287.6 MB
Operation 2	of 5	
Hard Disk:		1
Drive Letter:		N/A
Dia Contact		EAT22 (I DA)

Click on the computer icon and you get these choices. If you want to run a backup, click on Full or Differential and it will start backing up.

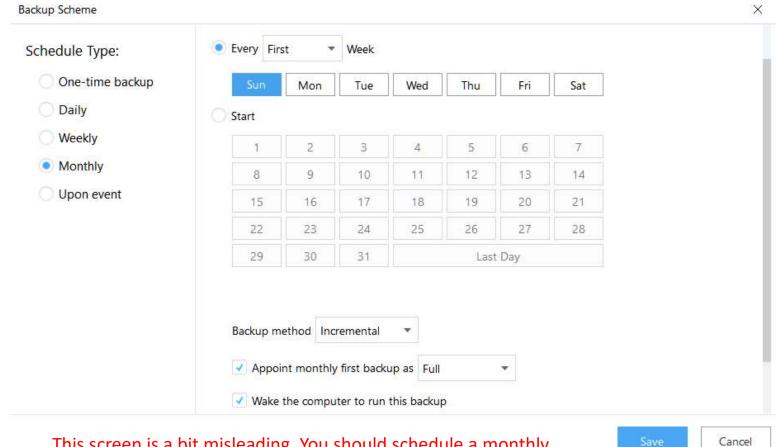


If you want to change the Backup Definition File, click on the pencil. You'll then be able to edit it.

There's a similar process for EaseUS

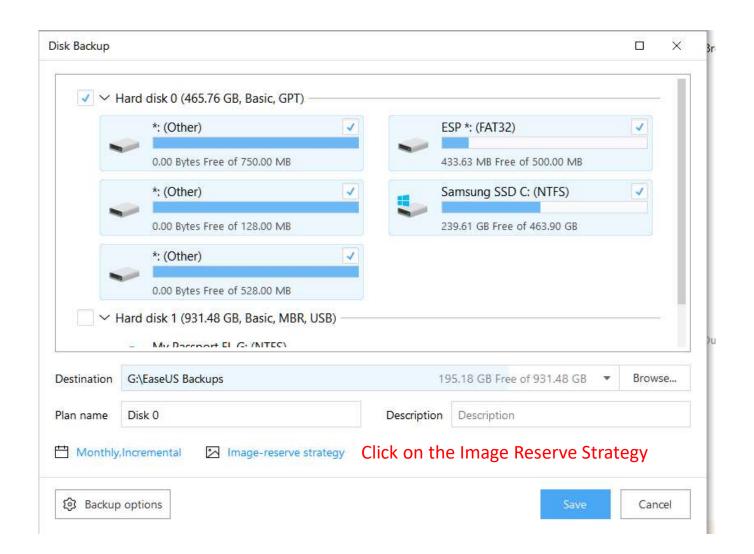


Click to Schedule

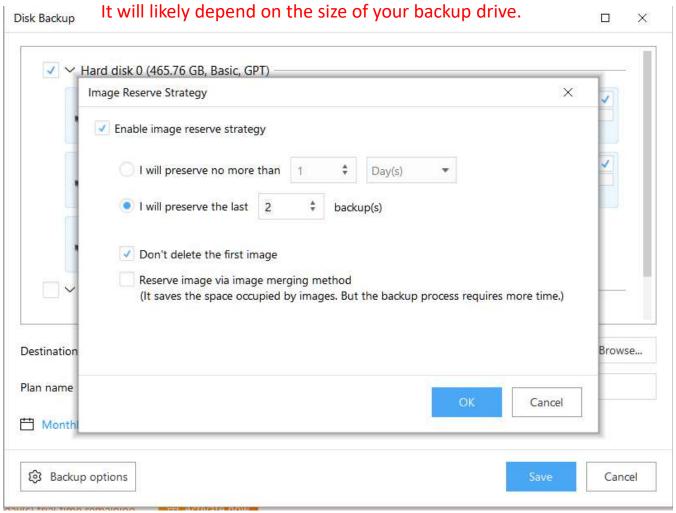


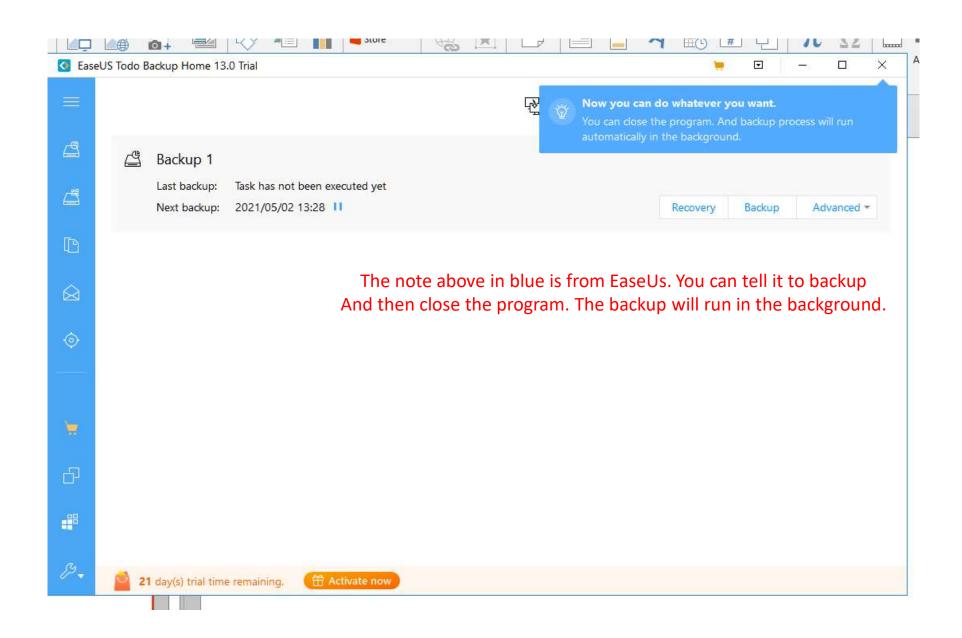
This screen is a bit misleading. You should schedule a monthly full backup then create another schedule for weekly incremental backups.

Then save it.



Here's where you tell the software how many backups to keep. It will likely depend on the size of your backup drive





A wise man I know once said that there are two types of people:

Those that back up and those that wish they did.

Which are you?