(In progress) MACB Time

https://ptylu.github.io/

Windows NTFS contains 4 times:

- **M**odification : Modification Time

- Access : Access Time

MFT record Change : Metadata change

- **B**irth : File Creation Time

Windows Explorer can only show Modification, Access and Birth

Operation	Modification	Access	Change (Metadata)	Birth
File Creation	Date Updated	Date Updated		Date Updated
File Modification	Date Updated	Date Updated (NO if registry key modification)		NO
File Copy	NO (Inherite)	YES		Date Updated
File Access	NO	NO*		NO

Hint 1: If modification is before the Birth, means the file was copied.

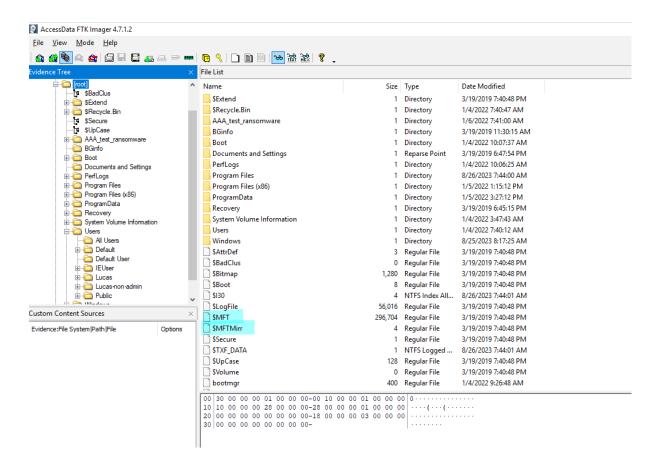
Timestomp

(Get-Item "C:\Users\Lucas\Documents\test_timestomp.txt").CreationTime=("27 August 2023 17:00:00")

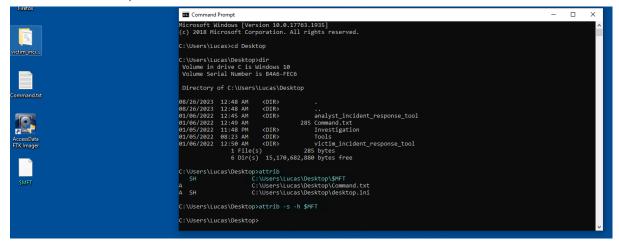
\$MFT

\$MFT located in C:\\$MFT \$MFTMirr is a backup of \$MFT

1) Use of FTK Imager for the \$MFT Dump



 After \$MFT Dump, need to launch the command (because hidden by default): attrib -s -h \$MFT

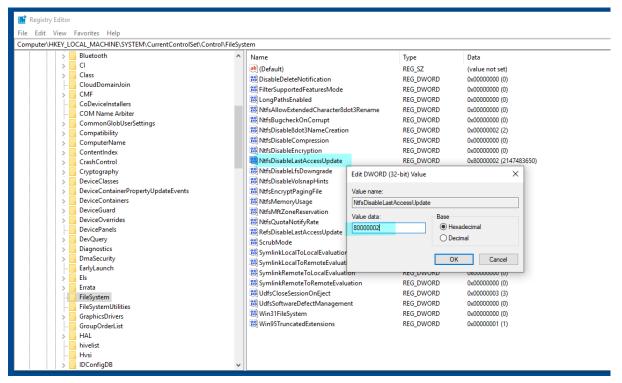


- 3) Use of Eric Zimmerman's tool MFTECmd.exe
- MFTECmd.exe -f C:\Users\Lucas\Desktop\\$MFT --csv
 "C:\Users\Lucas\Desktop\out_mft"
- (1) Registry

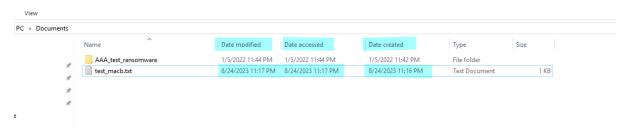
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\FileSystem\NtfsD isableLastAccessUpdate can be modified to ask the system to modify/not modify the Access time when file Modification. Below the parameters

- 0x80000000: User Managed, the "Last Access" updates are enabled,
- 0x80000001: User Managed, the "Last Access" updates are disabled,
- 0x80000002: System Managed, the "Last Access" updates are enabled,
- 0x80000003: System Managed, the "Last Access" updates are disabled.

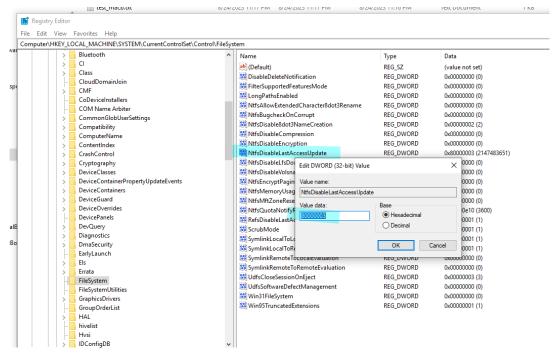
However, tested on Windows 10 and Windows 11, the modification of this Key doesn't affect the property. The Access time is always updated!



Modification with 80000002 to enable the update



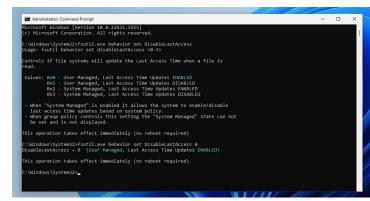
After file Modification, Date Modified and Date Accessed are the same



Modification with 80000002 to disable the update. Doesn't work

Tested on Windows 11, it's the same behavior. The registry key to disable the time update during file modification doesn't work

During my test, I discovered a tiny bug that was corrected on Windows 11. In windows 10, the value Enabled/Disabled were inverted



REF

https://www.tenforums.com/tutorials/139015-enable-disable-ntfs-last-access-time-stamp-upd ates-windows-10-a.html