Sun City Computer Club

Windows SIG

January 28, 2020

Questions, Comments, Suggestions welcomed at any time

Even Now

Audio Recording of this session

Audio Recording in Progress

- SIG attendees are required to be members of the chartered club sponsoring that SIG.
- Sun City Community Association By-law

- Your input is desired, needed, requested,
- 2020 meeting schedule Annex
 SIG leader?
- Special Interest GROUP
- 2020 dues mailing lists

Windows SIG news

- MS Edge released non-beta
- Beta still available AND improving
- Microsoft data breach 250 Million support call records redacted kinda BE Wary
- Windows 7 patch AFTER patch cessation

Windows News

- Very Very important
- Windows CryptoAPI Spoofing CVE-2020-0610 KB4528760
- Realtek Bluetooth
- Realtek Network
- .NET framework 3.5 & 4.8
- Malicious Software Removal tool
- RDP

Windows Patch Tuesday

- Very Very important
- TRUST
- NSA Cybersecurity Directorate
- NSA Announcement
- EternalBlue NotPetya & WannaCry
- IDentity verification
- ECC not RSA
- MithM
- Signed Update
- TLS
- Replace RSA based signing with ECC
- Fully patched Windows 10 gave "vulnerable" with Vivaldi
- Patch browsers, email clients

CryptoAPI spoofing vulnerability



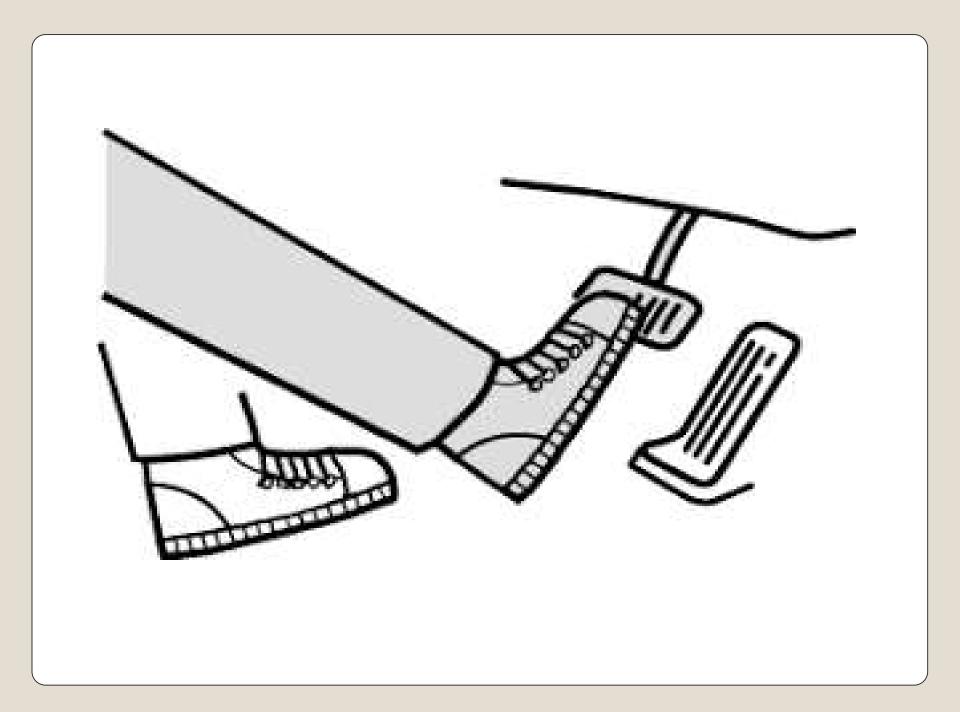
∨ Quality Updates (8)

2020-01 Cumulative Update for .NET Framework 3.5 and 4.8 for Windows 10 Version 1909 for x64 (KB4532938)

Successfully installed on 1/14/2020

2020-01 Cumulative Update for Windows 10 Version 1909 for x64-based Systems (KB4528760)

Successfully installed on 1/14/2020



- No moving parts
- No mechanical wear & tear
- Every disk block same access time as every disk block
- Finite write cycles
- Several thousand
- GOOD BACKUP practices 3-2-1
- Disk drive optimization techniques evolve

Care & Feeding solid state disk



mize Drives

. . X

You can optimize your drives to help your computer run more efficiently, or analyze them to find out if they need to be optimized. Only drives on or connected to your computer are shown.

S<u>t</u>atus

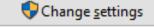
	Media type	Last run	Current status
WINDOWS (C:)	Solid state drive	1/18/2020 5:59 PM	Optimization not available
RECOVERY (D:)	Solid state drive	1/18/2020 6:33 PM	Optimization not available
Windows (F:)	Hard disk drive	1/18/2020 5:57 PM	OK (0% fragmented)
Recovery Image (G:)	Hard disk drive	1/18/2020 5:59 PM	OK (0% fragmented)





Scheduled optimization

On



Drives are being optimized automatically.

Frequency: Weekly

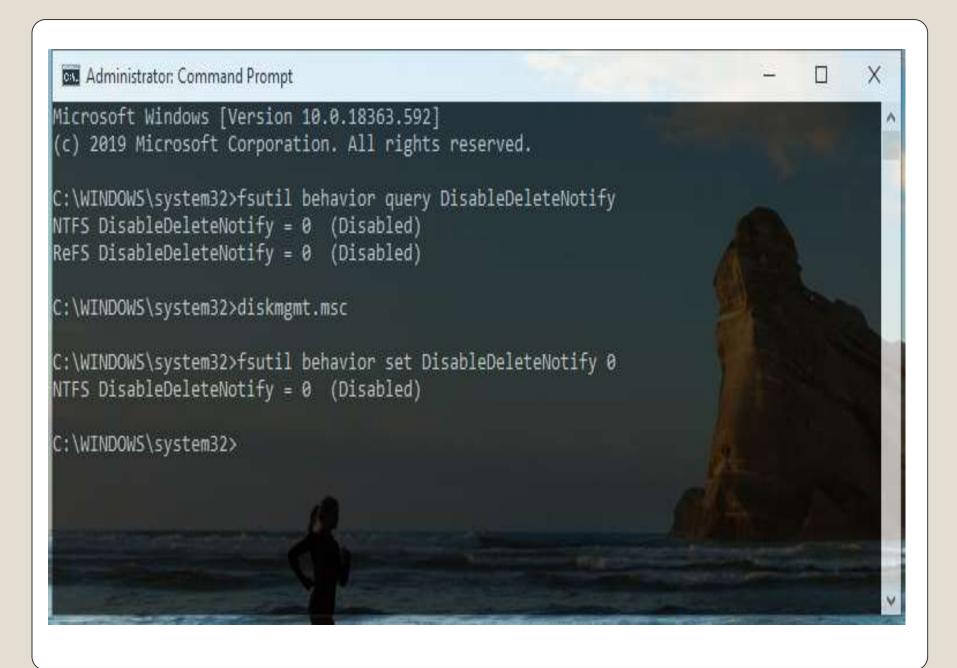
Close

- Less sensitivity to temperature, etc.
- Keep disk firmware & software up to date
- Disk segregation SSD for OS
- Disk RAID
- Larger SSD will have less write cycles used
- More RAM for disk caching

Care & Feeding Solid state disk

- Do NOT Defrag
- Do NOT use mechanical disk optimization
- Do NOT exceed 90% full
- Disable indexing security? Really?
- Paging file to hard drive(s)
- Disable SuperFetch (SysMain)

Care and Feeding Solid state disk



- Pagefile, swapfile, Misc. storage
- IMHO, better to have than not
- Better to have on hard disk than SSD
- Better to have minimal on SSD, use HD

Pagefile



Control Panel\System and Security\System







> Control Panel > System and Security > System

Control Panel Home

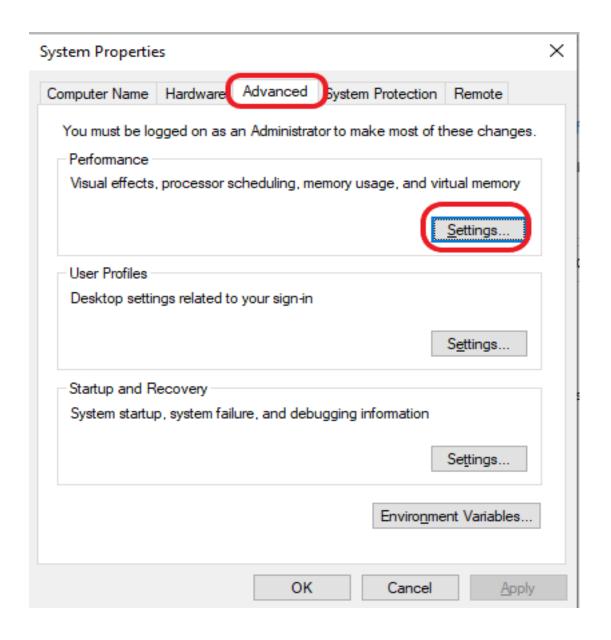
- Device Manager
- Remote settings
- System protection
- Advanced system settings

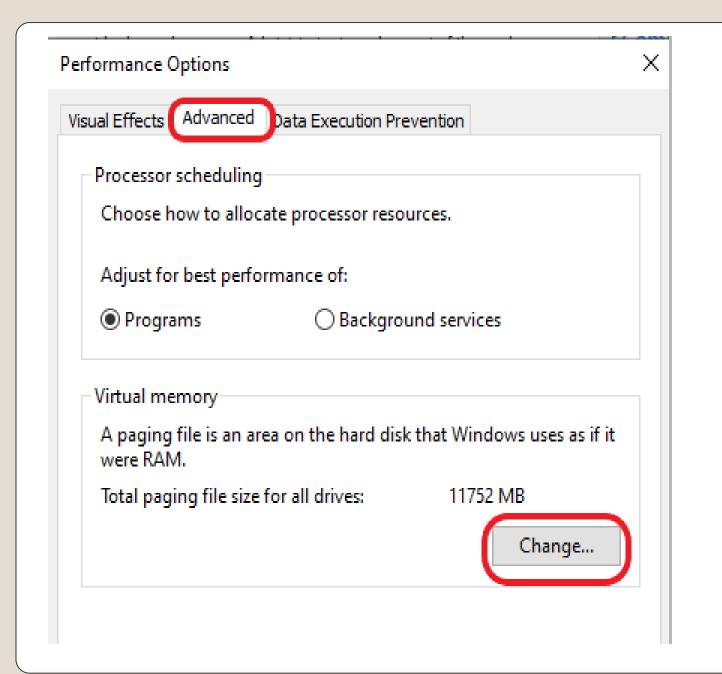
View basic information about your computer

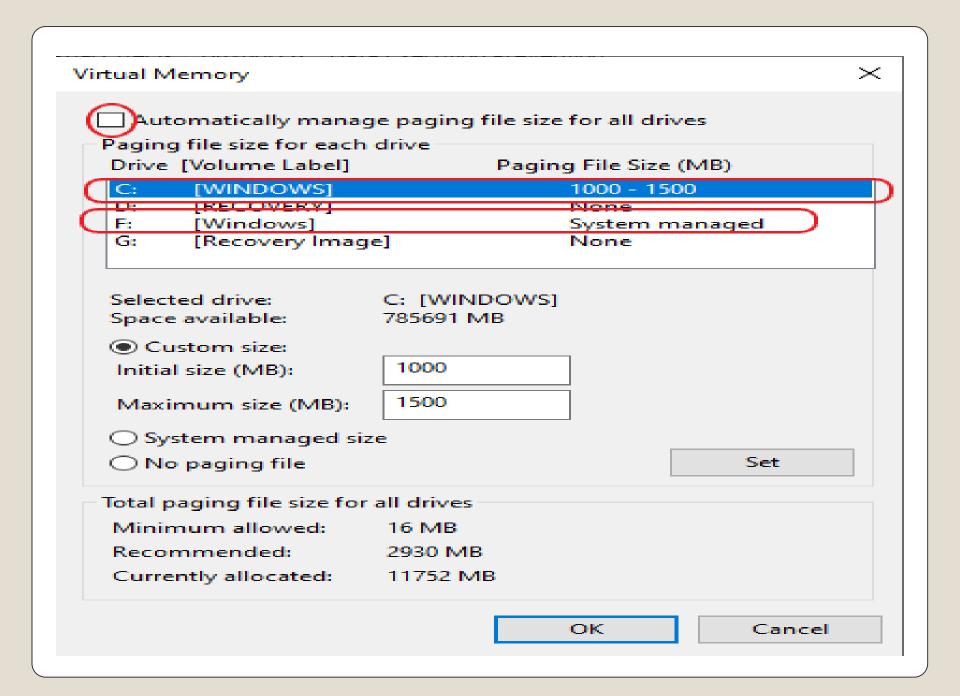
Windows edition

Windows 10 Home

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- Hibernation file -> hiberfil.sys
- Recent advances -> SSD more reliable
- HHD have physical fatigue
- Microsoft update drivers, not firmware
- High Performance

Care and Feeding Solid state disk

- Replace laptop drive
- Kit to replace
- Help Center
- Add drive to Desktop / tower
- SCSI, IDE, ATA, SATA, SAS
- Form Factor
- Existing cabling

Well, now I want SSD



- None of us are as experienced as all of us
- Awareness, Preparedness, Understanding
- Participate

