Sun City Computer Club

Windows SIG

July 13, 2021

Questions, Comments, Suggestions welcomed at any time

Even Now

- Audio Recording of this session
- Use the link above to access MP4 audio recording

- Audio Recording in Progress

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

- Sig leader – anyone?
- Topic Suggestions – plea(se)
- Your suggestions future presentations
- Cyber OK?
- In person meetings

Microsoft Patch Tuesday Schedule B

- 117 Vulnerabilities
- 6 Publicly Disclosed
- 13 Critical
- 4 Exploited
- Average CVSS 8.03
- Maximum CVSS 9.9
- KB5004237

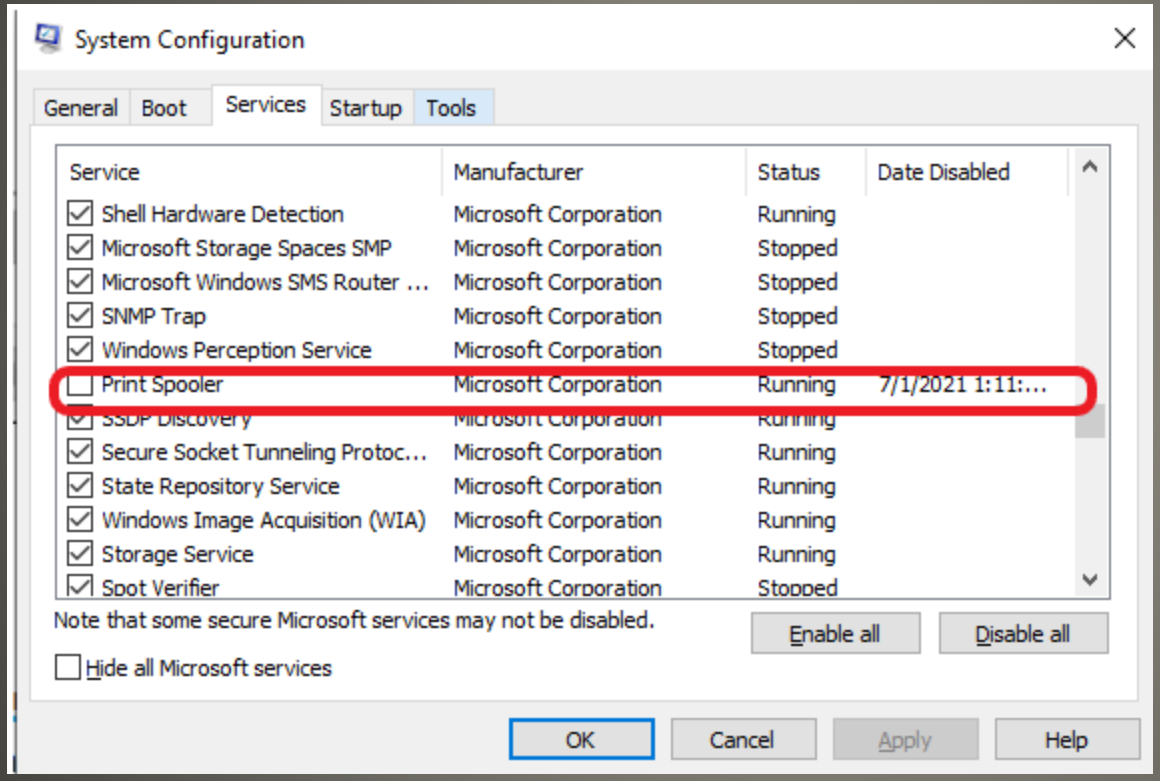
- Windows Malicious Software Removal Tool KB890830

Security Intelligence Updates Microsoft Defender

Print Nightmare

- Microsoft Print Spooler vulnerabilitie(s)
- Elevation of Privilege (EoP)
- ALL versions of Windows
- *Remember Administrator caution ?*
- PoC published after a patch
- Bug elevated Remote Code Execution (RCE)

- Disable / Stop print Spooler service
- Run > msconfig



PrintNightmare

- CMD Run as Administrator

```
C:\Users\duck>sc query Spooler

SERVICE_NAME: Spooler
        TYPE               : 110  WIN32_OWN_PROCESS  (interactive)
        STATE              : 4  RUNNING
                                (STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
        WIN32_EXIT_CODE    : 0  (0x0)
        SERVICE_EXIT_CODE  : 0  (0x0)
        CHECKPOINT         : 0x0
        WAIT_HINT          : 0x0
```

```
C:\Users\duck>sc config Spooler start= disabled
```

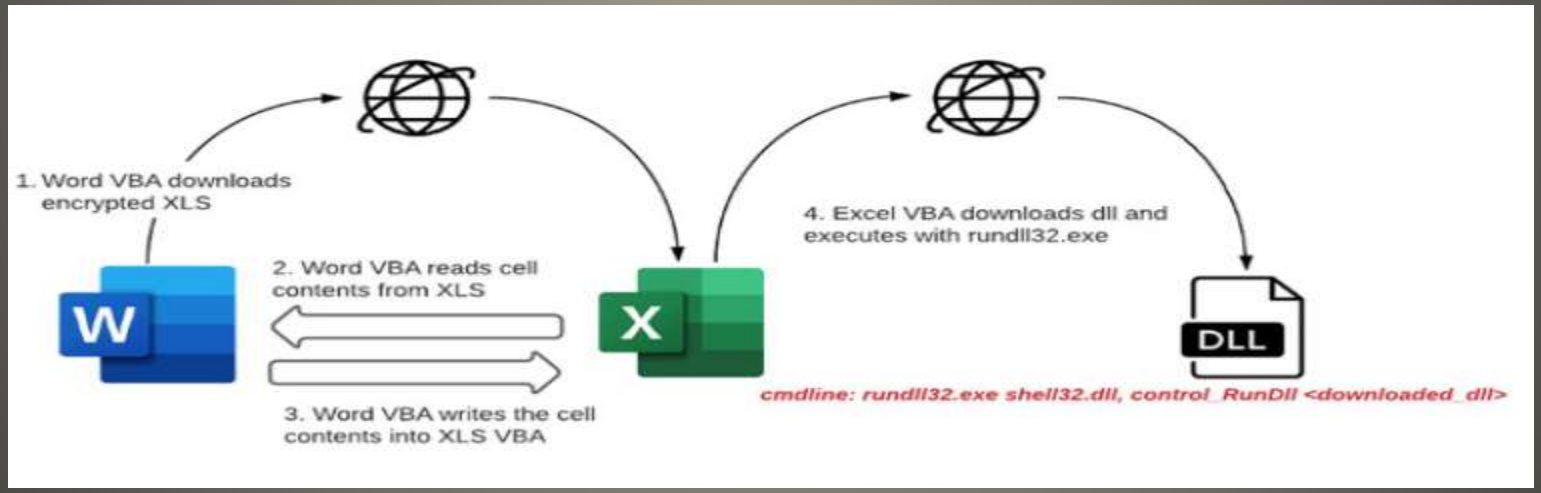
```
C:\Users\duck>>sc query Spooler

SERVICE_NAME: Spooler
        TYPE               : 110  WIN32_OWN_PROCESS  (interactive)
        STATE              : 1  STOPPED
        WIN32_EXIT_CODE    : 1077  (0x435)
        SERVICE_EXIT_CODE  : 0  (0x0)
        CHECKPOINT         : 0x0
        WAIT_HINT          : 0x0
```

PrintNightmare

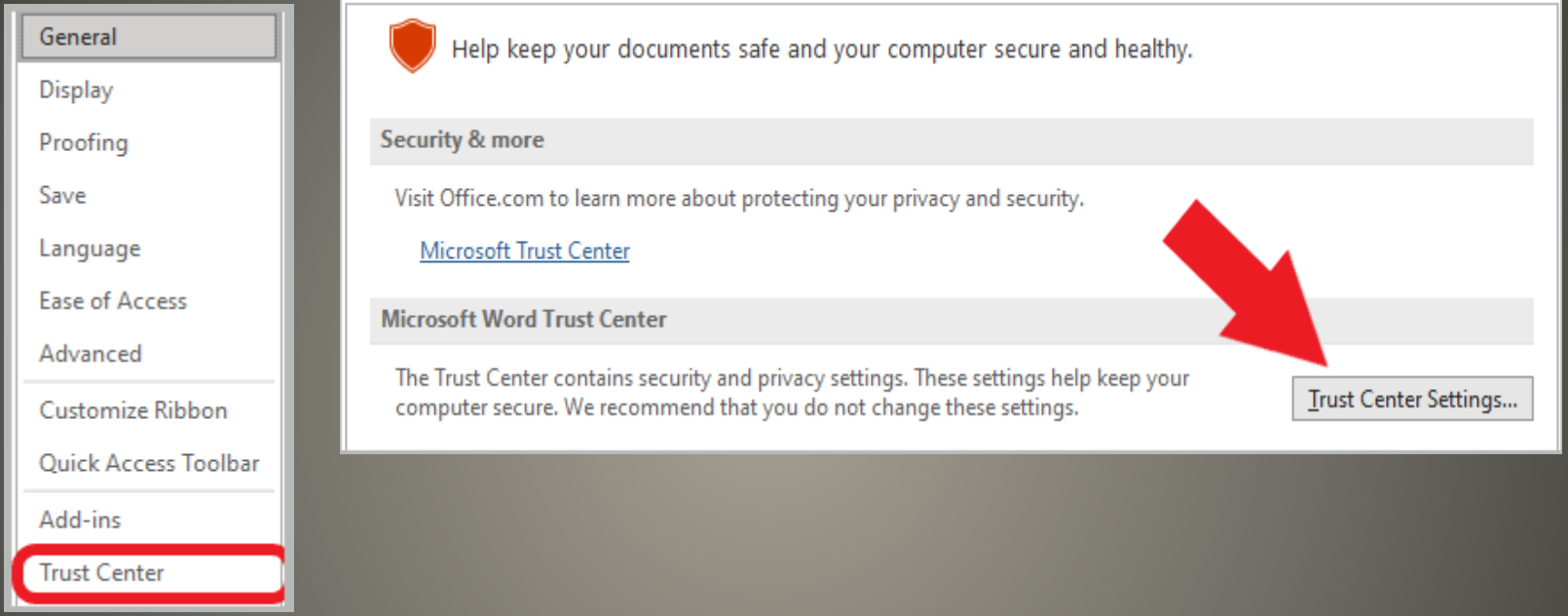
- Microsoft Translator
  Universal cross site scripting
  3-June first report
  24-June patch
  $20,000 reward

Edge vulnerability

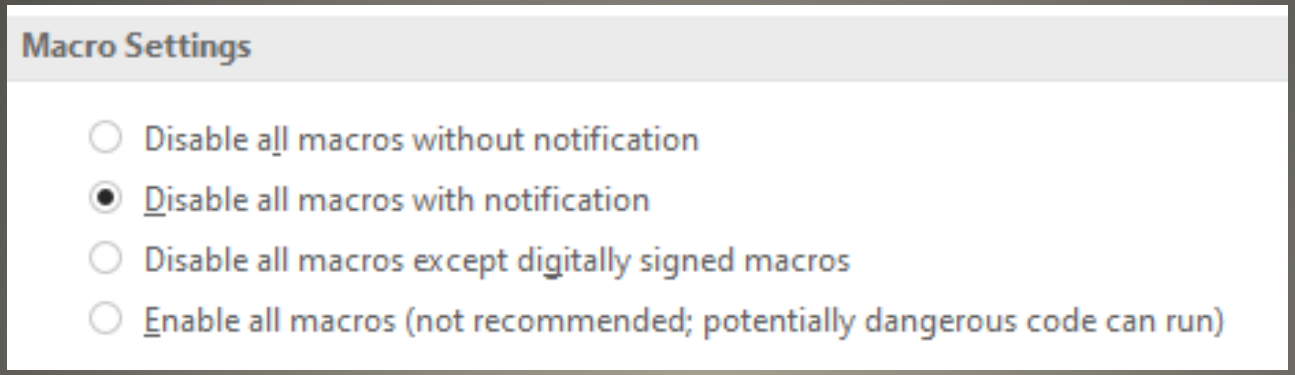
- Re-check after any office updates
- Set for office subscription, WEB Office, Office 265
- Similar for Office replacements – LibreOffice



- File -> Options

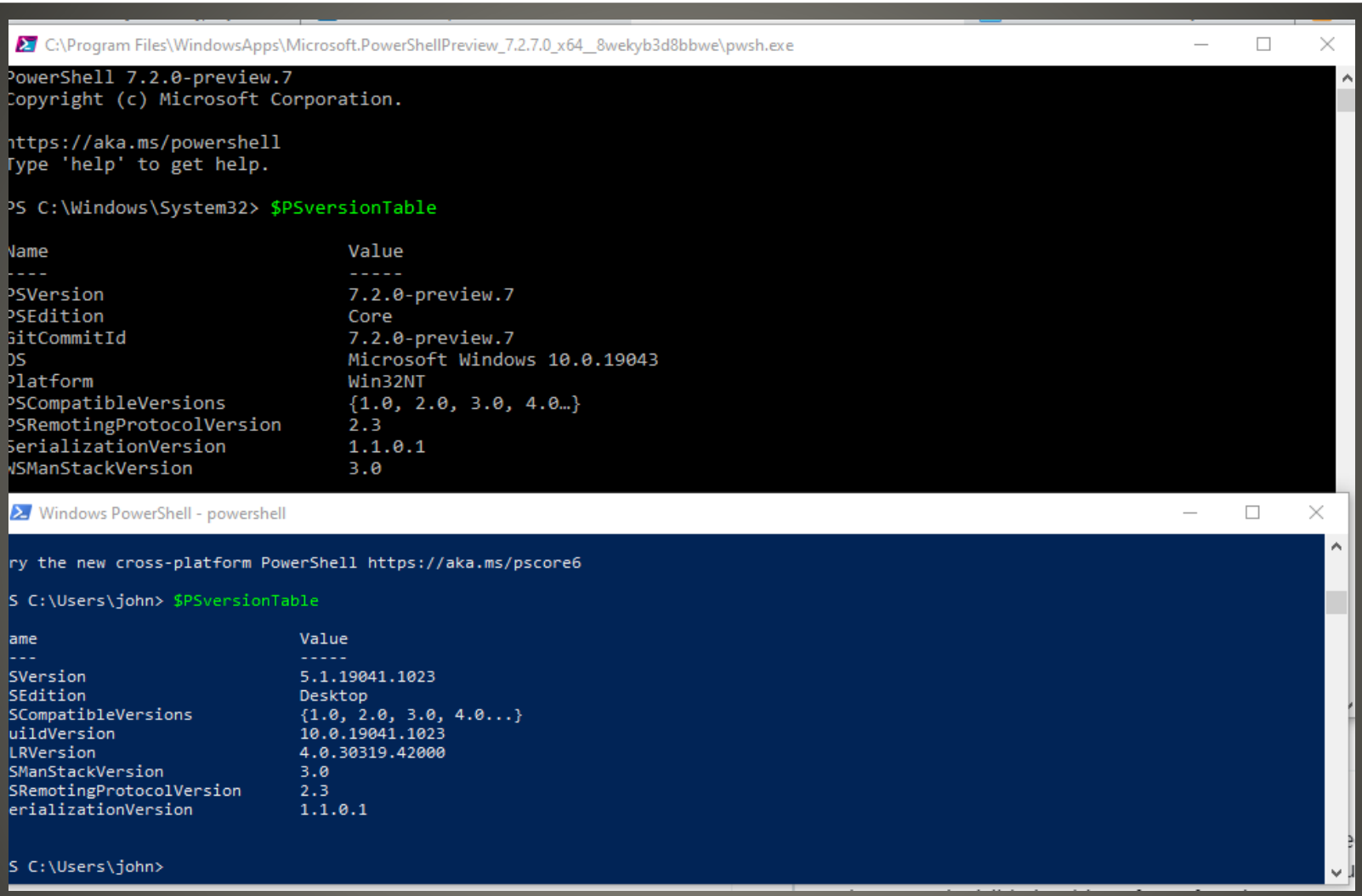


NEW Office macro disable bypass

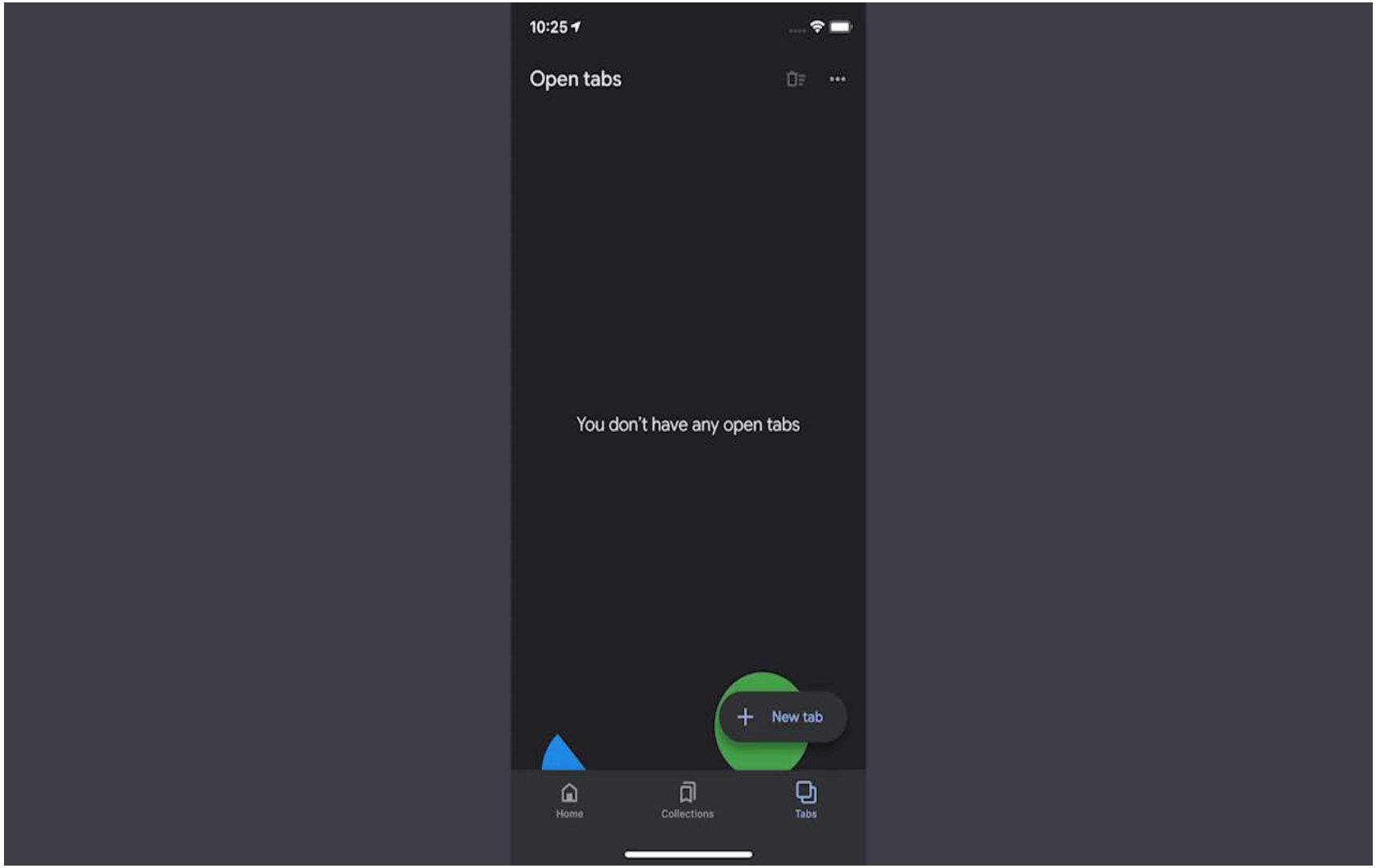


Office Macro Settings

Cloud PC Microsoft

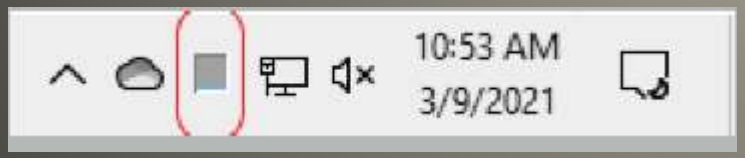

C:\Program Files\WindowsApps\Microsoft.PowerShellPreview_7.2.7.0_x64__8wekyb3d8bbwe\pwsh.exe
PowerShell 7.2.0-preview.7
Copyright (c) Microsoft Corporation.
https://aka.ms/powershell
Type 'help' to get help.
PS C:\Windows\System32> $PSversionTable
Name Value
PSVersion 7.2.0-preview.7
PSEdition Core
GitCommitId 7.2.0-preview.7
OS Microsoft Windows 10.0.19043
Platform Win32NT
PSCompatibleVersions {1.0, 2.0, 3.0, 4.0…}
PSRemotingProtocolVersion 2.3
SerializationVersion 1.1.0.1
WSManStackVersion 3.0
Windows PowerShell - powershell
ry the new cross-platform PowerShell https://aka.ms/pscore6
S C:\Users\john> $PSversionTable
ame Value
SVersion 5.1.19041.1023
SEdition Desktop
SCompatibleVersions {1.0, 2.0, 3.0, 4.0...}
uildVersion 10.0.19041.1023
LRVersion 4.0.30319.42000
SManStackVersion 3.0
SRemotingProtocolVersion 2.3
erializationVersion 1.1.0.1
S C:\Users\john>

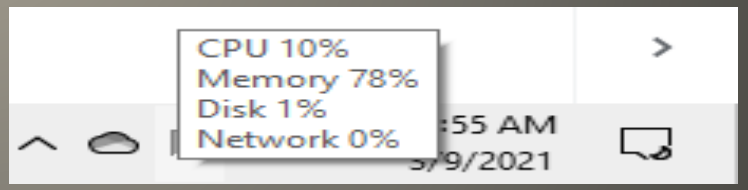
PowerShell

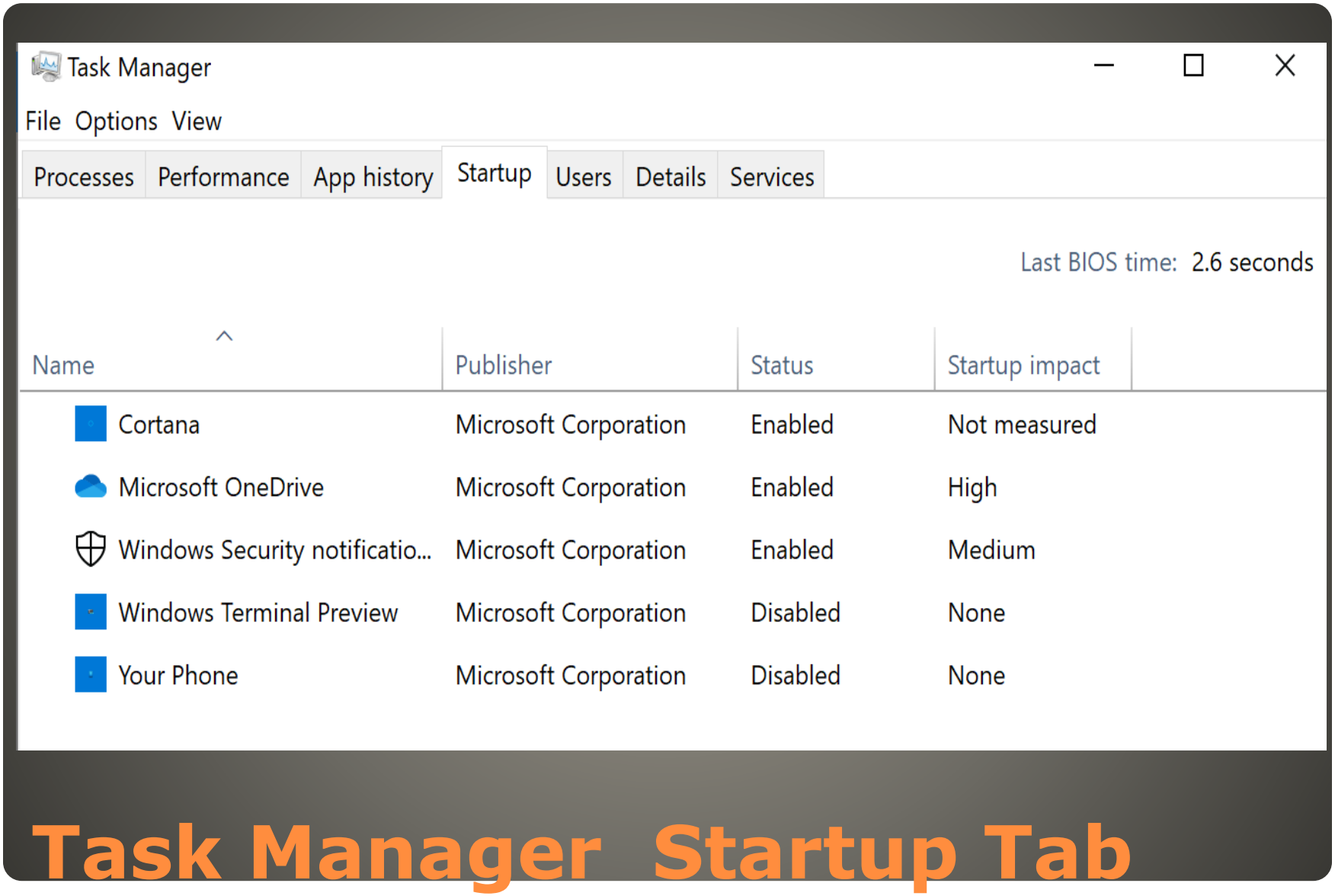

10:25
Open tabs
You don't have any open tabs
New tab
Home
Collections
Tabs

What's running?

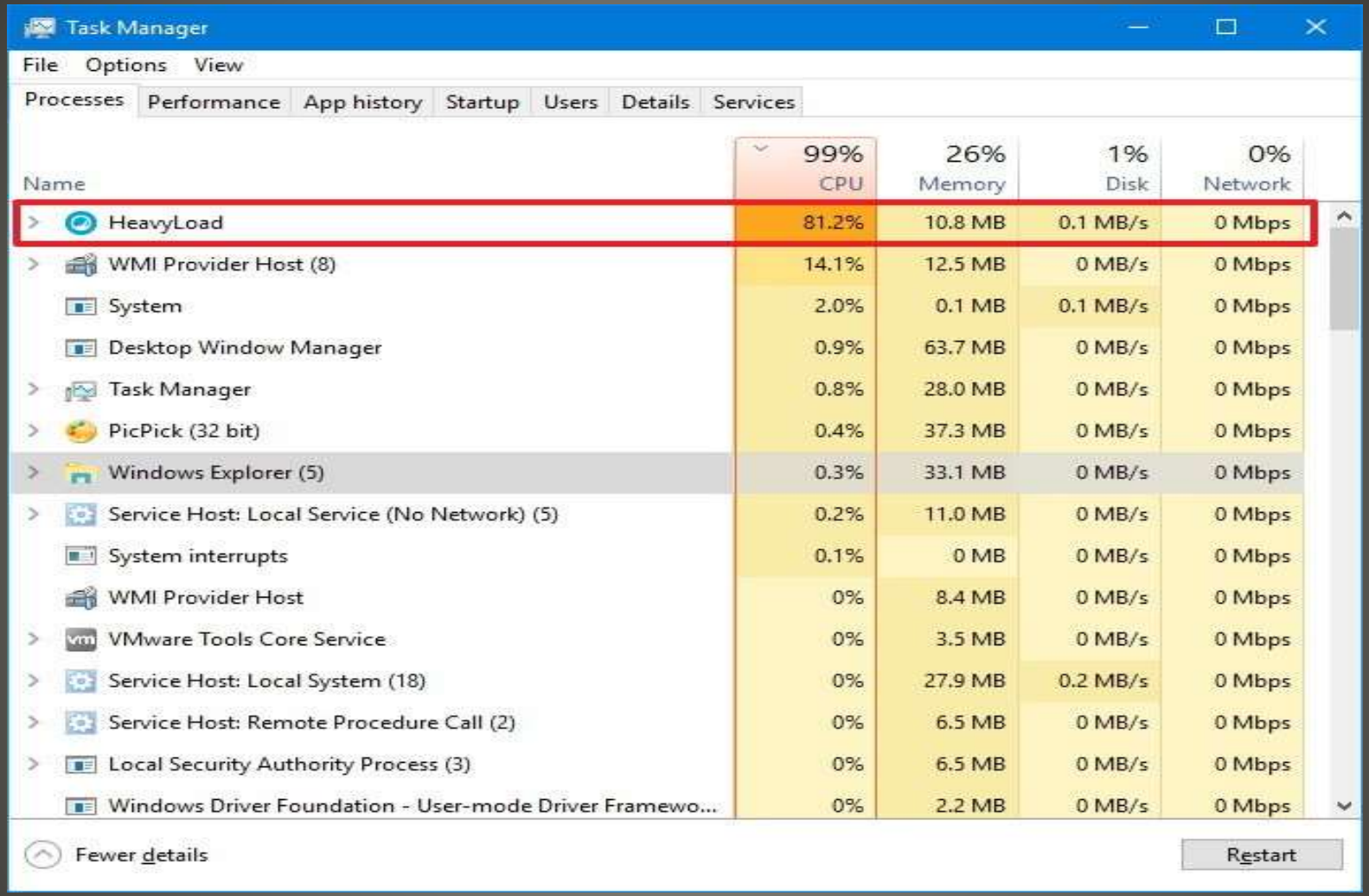
- Task Manager
  CTRL+SHIFT+ESC
  CTRL+ALT+DEL - useful
  Right click empty space on task bar
  Win + R taskmgr
- Resource Monitor
- Performance > Open Resource Monitor



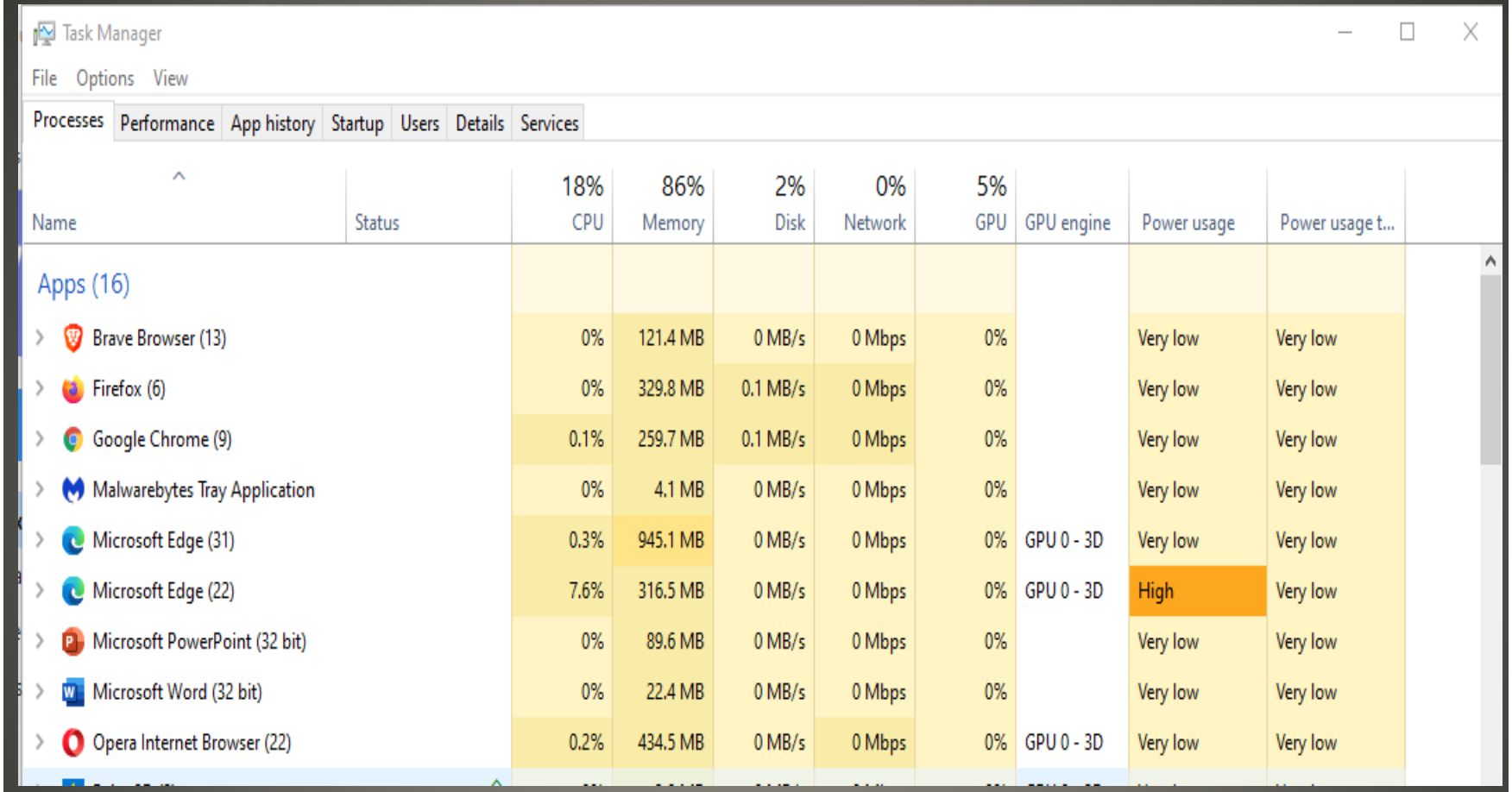




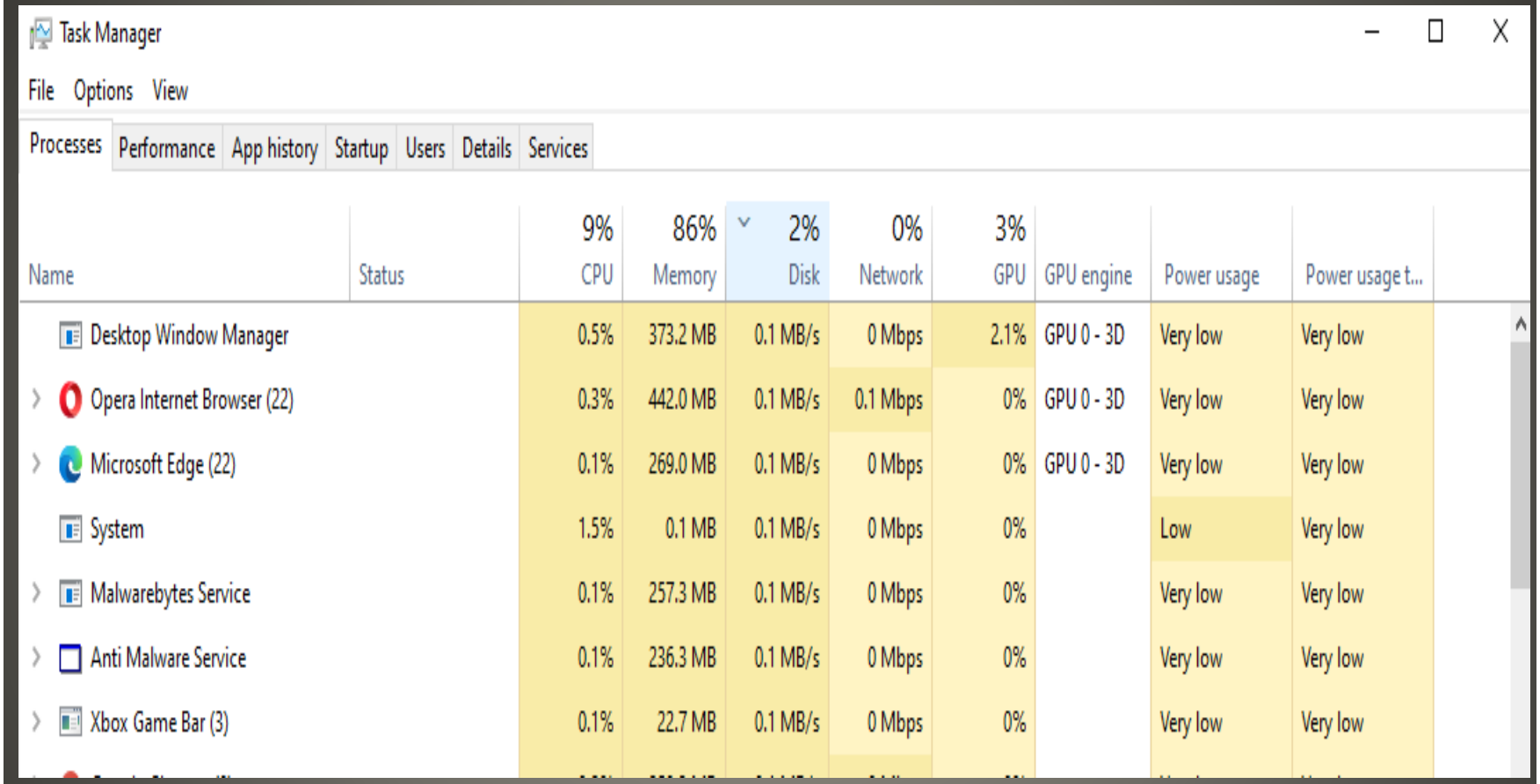
Task Manager Startup Tab



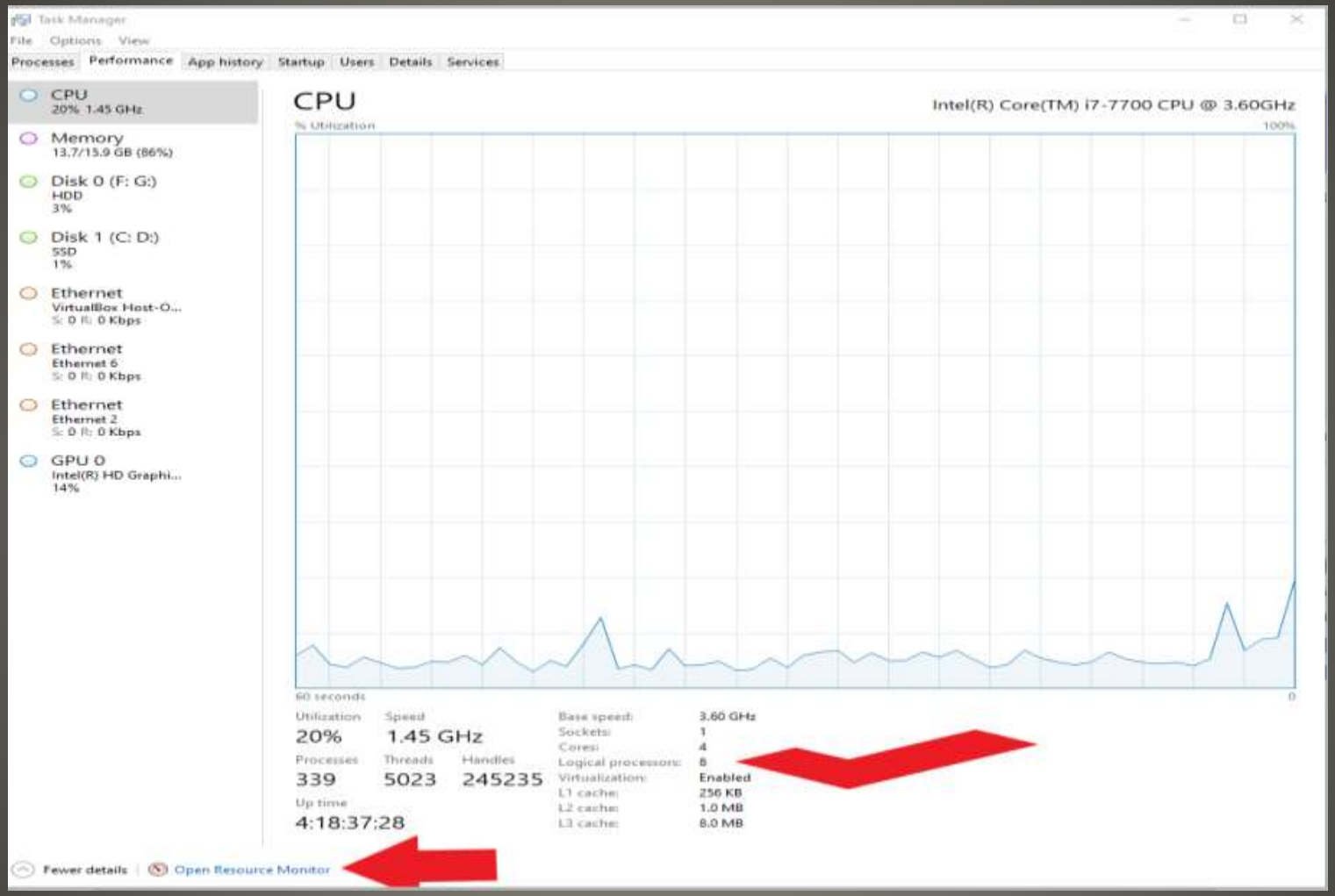
Task Manager process Tab



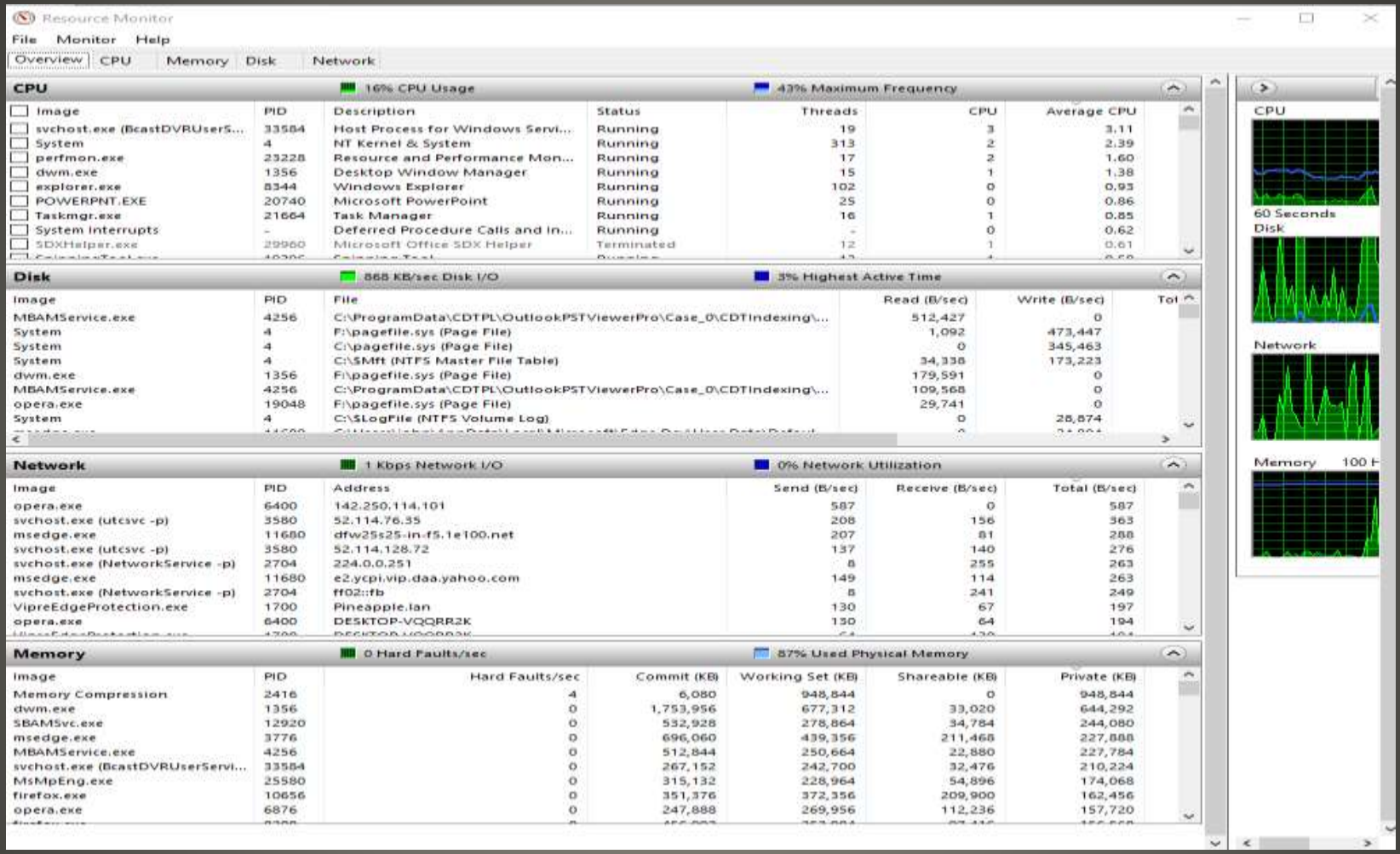
Processes Tab + Power



Sort on any column



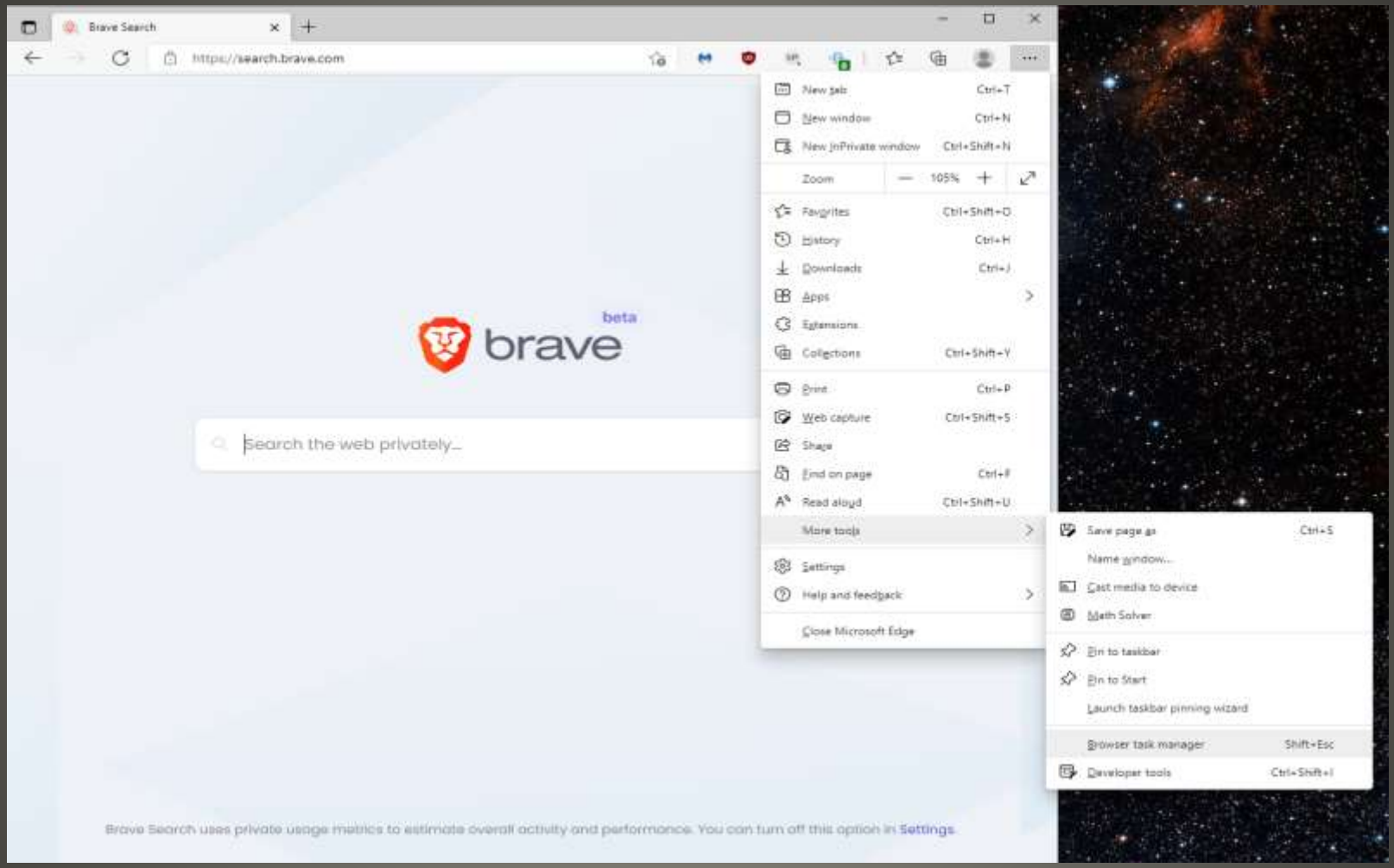
Performance Tab



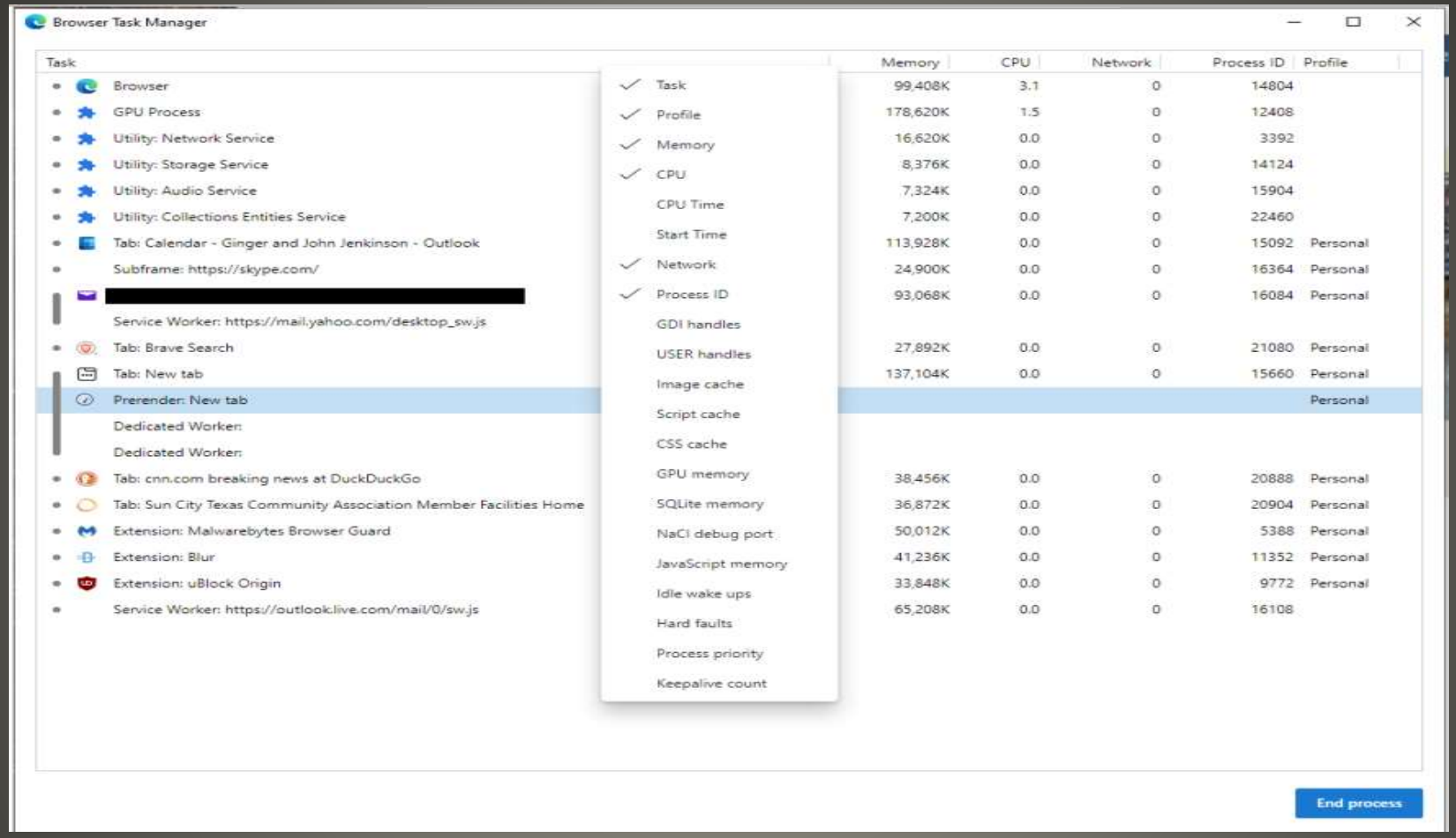
Resource Monitor

- Yeah but
- Browsers have performance monitors

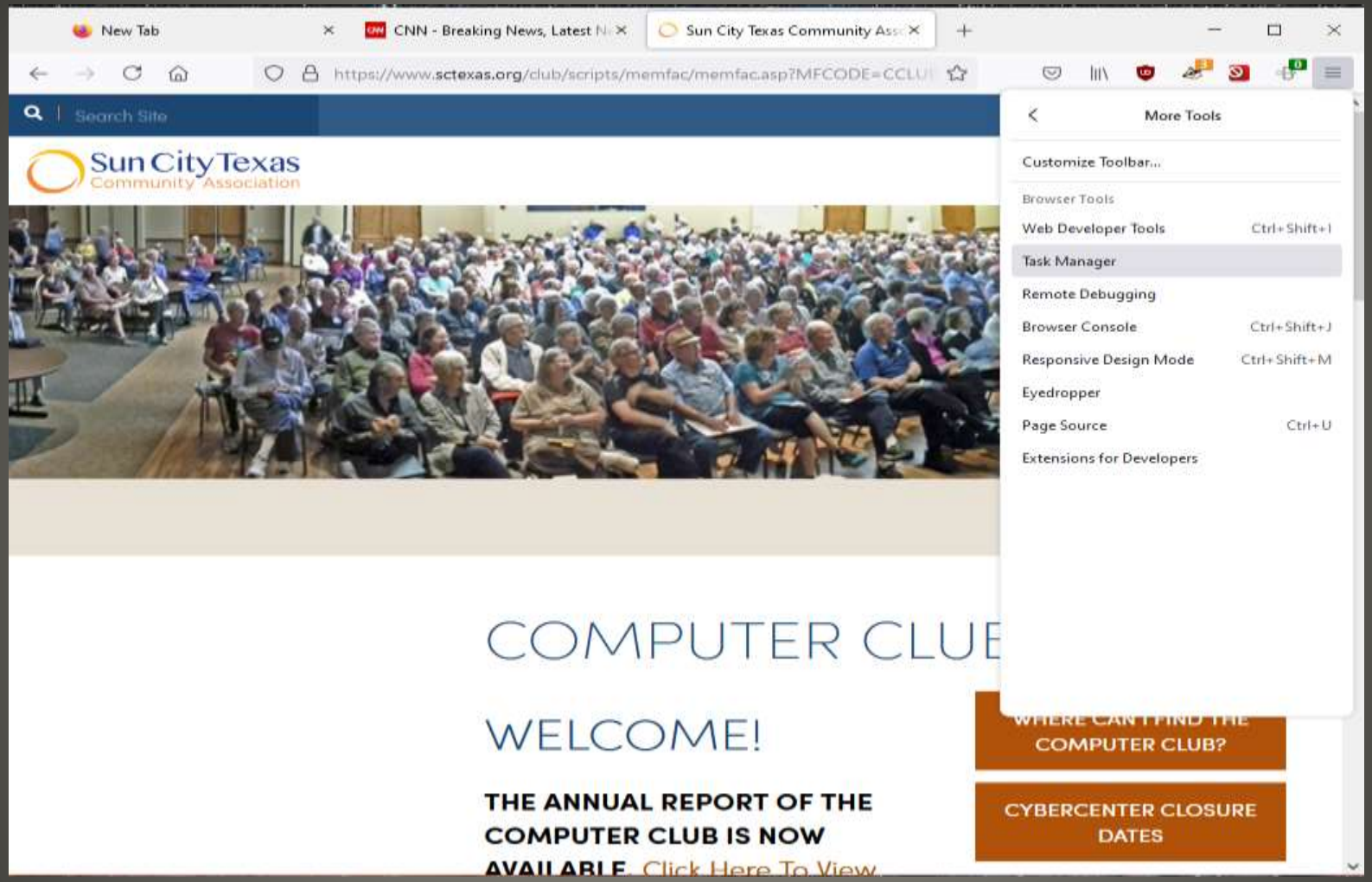
Task Manager slides from March 9, 2021


Brave Search
https://search.brave.com
New tab Ctrl+T
New window Ctrl+N
New InPrivate window Ctrl+Shift+N
Zoom 105%
Favorites Ctrl+Shift+O
History Ctrl+H
Downloads Ctrl+J
Apps
Extensions
Collections Ctrl+Shift+Y
Print Ctrl+P
Web capture Ctrl+Shift+S
Share
Find on page Ctrl+F
Read aloud Ctrl+Shift+U
More tools
Settings
Help and feedback
Close Microsoft Edge
Save page as Ctrl+S
Name window...
Cast media to device
Math Solver
Pin to taskbar
Pin to Start
Launch taskbar pinning wizard
Browser task manager Shift+Esc
Developer tools Ctrl+Shift+I
beta
brave
Search the web privately...
Brave Search uses private usage metrics to estimate overall activity and performance. You can turn off this option in Settings.

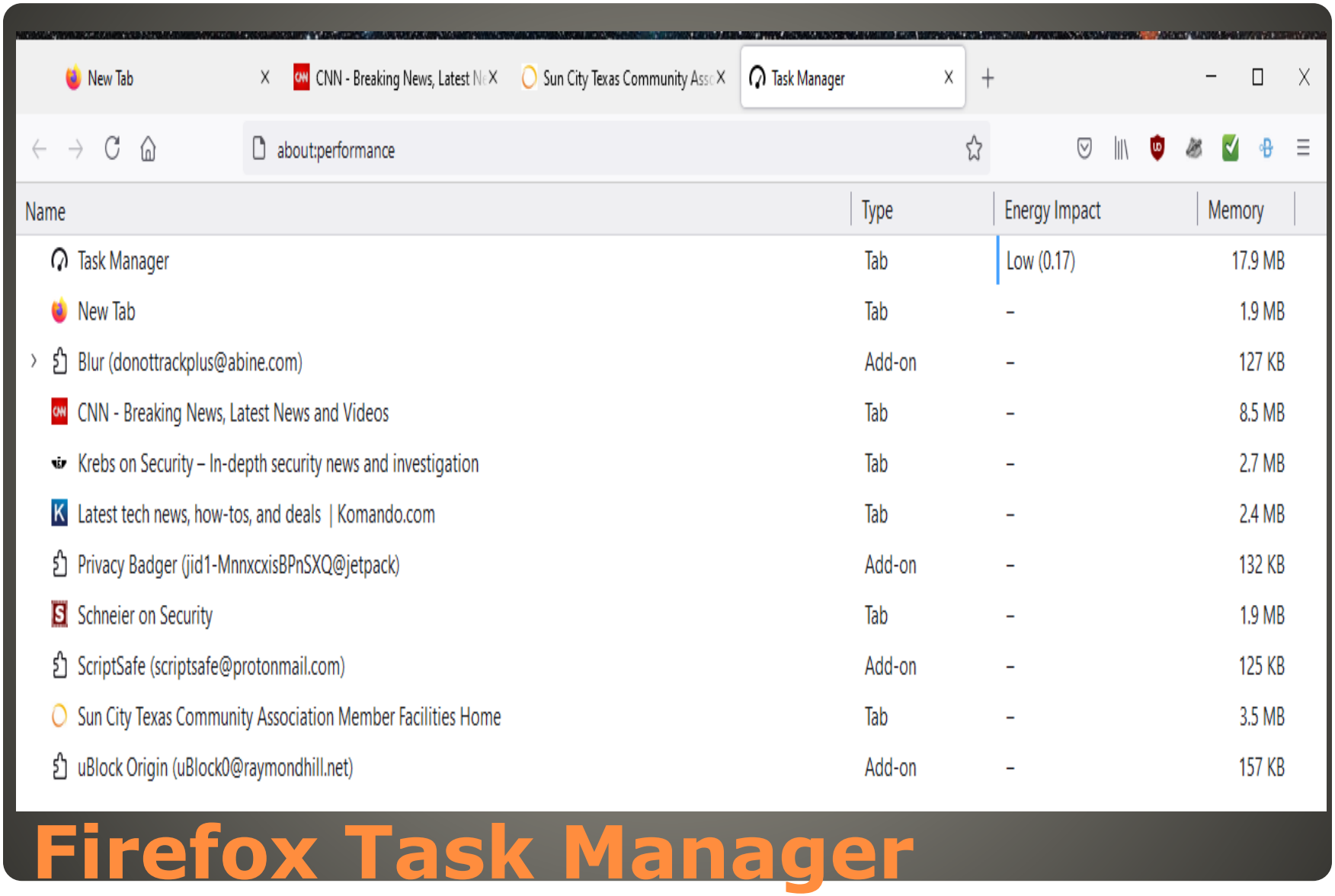
Edge

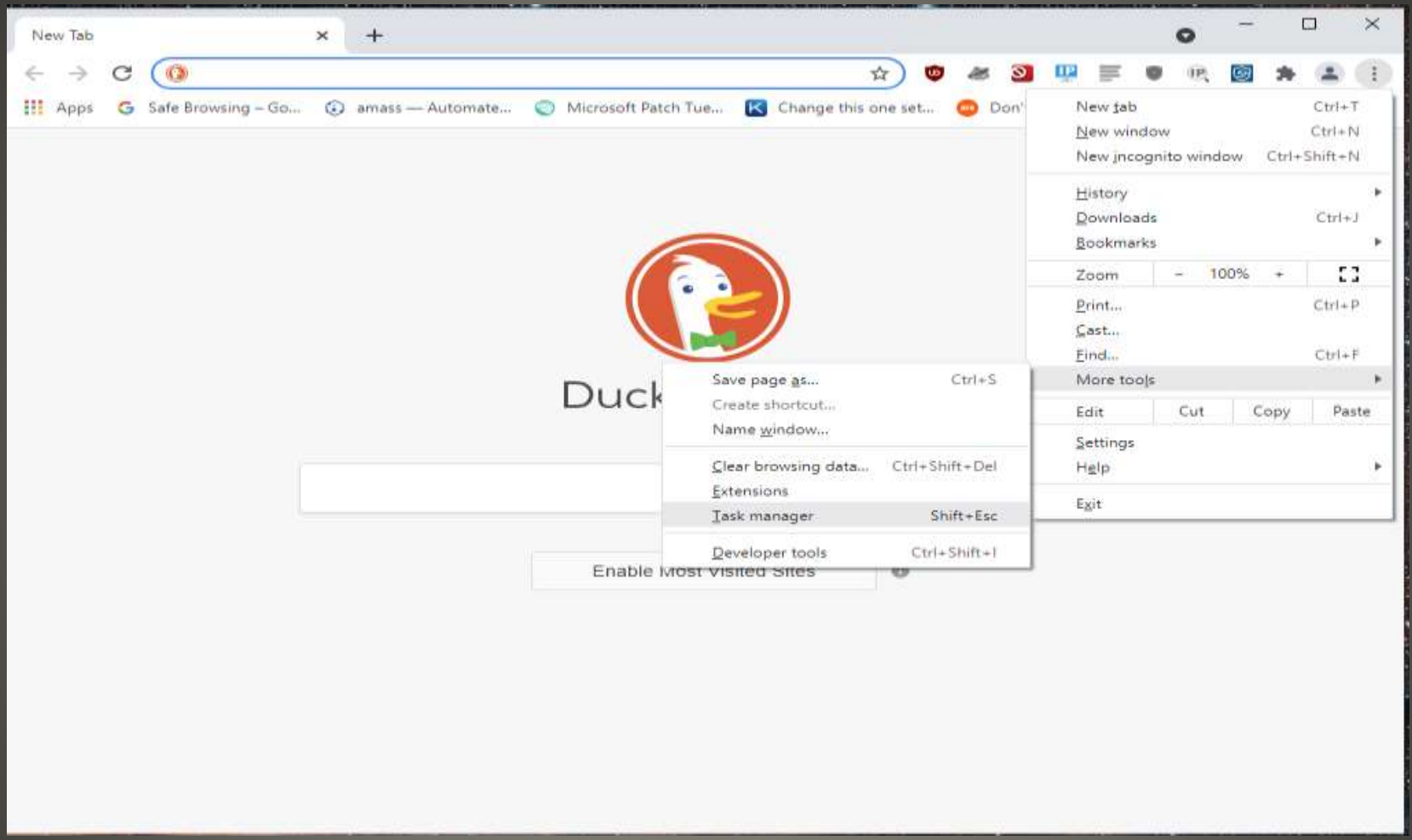


Edge Task Manager - details

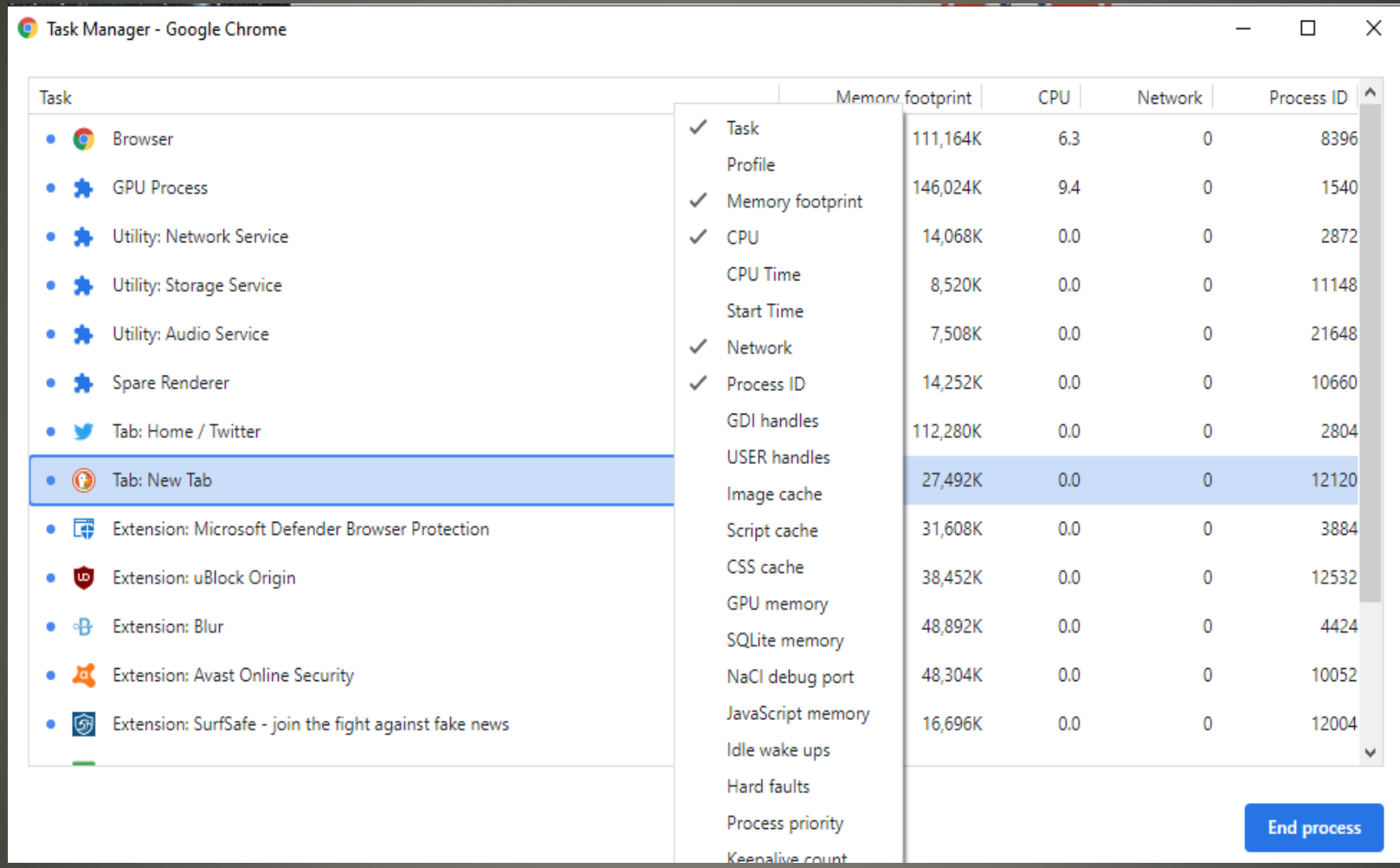


Firefox Task Manager

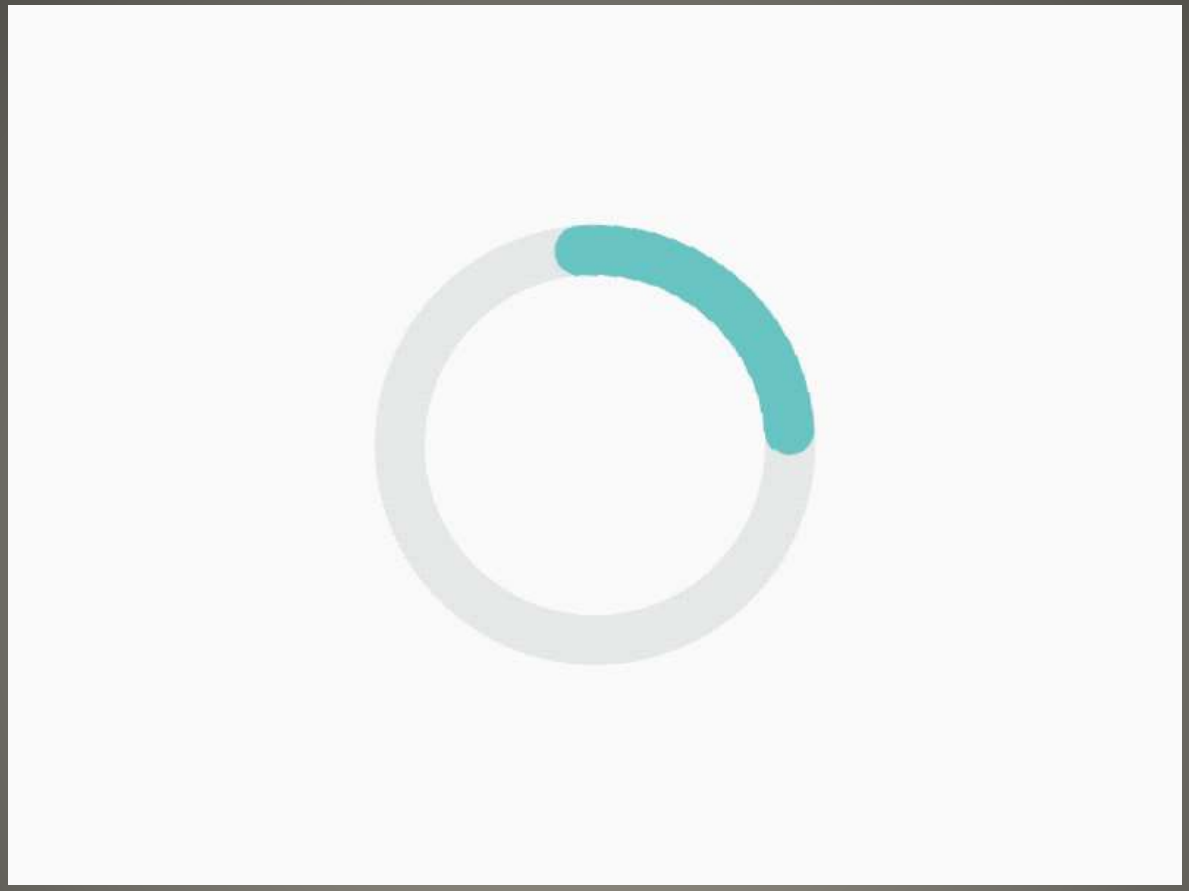

New Tab
CNN - Breaking News, Latest
Sun City Texas Community Ass
Task Manager
about:performance
Name
Type
Energy Impact
Memory
Task Manager
Tab
Low (0.17)
17.9 MB
New Tab
Tab
–
1.9 MB
Blur (donottrackplus@abine.com)
Add-on
–
127 KB
CNN - Breaking News, Latest News and Videos
Tab
–
8.5 MB
Krebs on Security – In-depth security news and investigation
Tab
–
2.7 MB
Latest tech news, how-tos, and deals | Komando.com
Tab
–
2.4 MB
Privacy Badger (jid1-MnnxcxisBPnSXQ@jetpack)
Add-on
–
132 KB
Schneier on Security
Tab
–
1.9 MB
ScriptSafe (scriptsafe@protonmail.com)
Add-on
–
125 KB
Sun City Texas Community Association Member Facilities Home
Tab
–
3.5 MB
uBlock Origin (uBlock0@raymondhill.net)
Add-on
–
157 KB
Firefox Task Manager



Chrome Task Manager



Chrome Task Manager



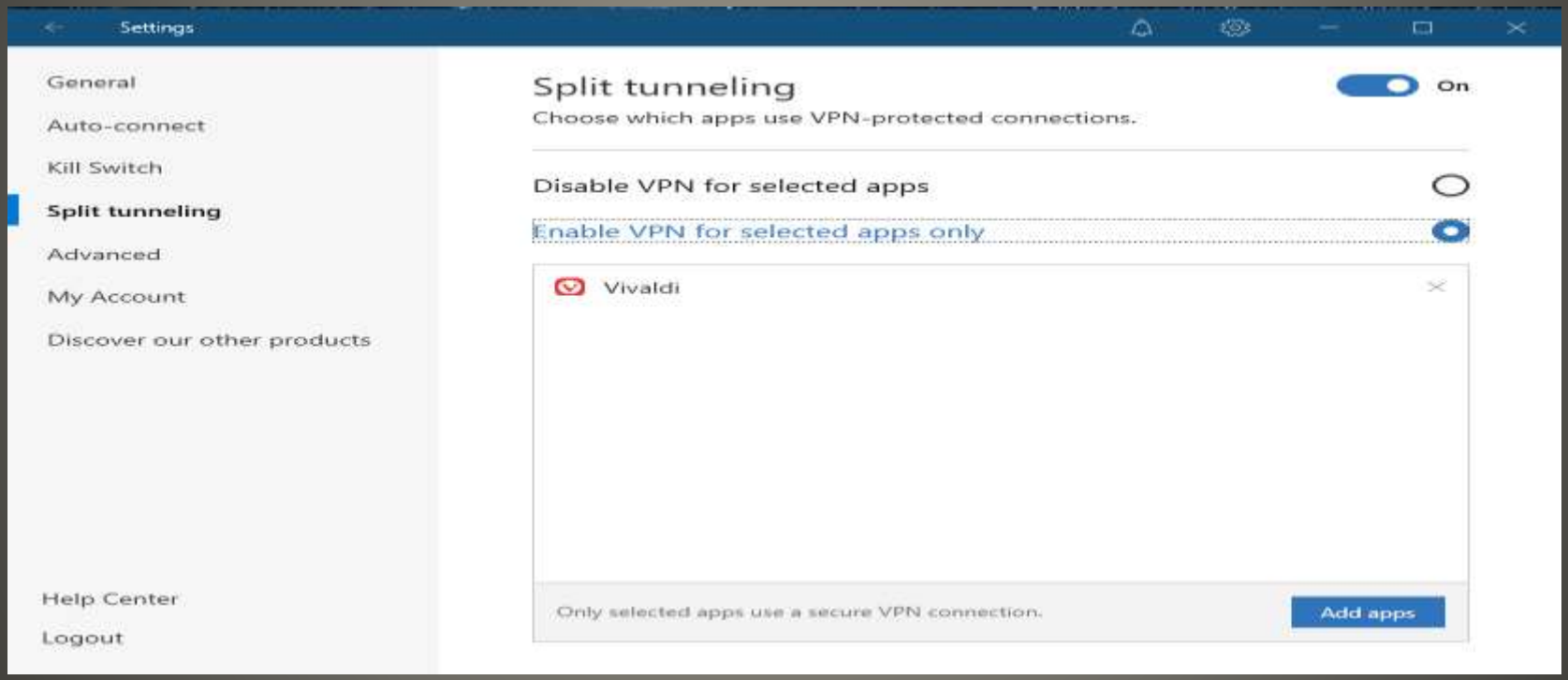
Spinning?

Task Manager – System Tray

Is it just me?

- https://downforeveryoneorjustme.com
- https://down.com
- https://www.isitdownrightnow.com

- Pick and choose
- Best for ???



Split tunneling - VPN

SIG News

- Dale Cockle has an eMail list he sends Microsoft Windows tips, news, and information to.

  If you would like to join his list

  Send your request:

  k5jic@tstar.net

[Win10] Win11 Compatibility Checker

[Win10] WSJ - Windows 11 Revamped For Apps

[Win10] Even More Win11 (Links Only)

[Win10] More Win11 (Links Only)

[Win10] WSJ - Microsoft Windows Gets Fresh Start

[Win10] Windows 11 is a free upgrade

[Win10] Windows Icons from Ver 1 to 11

[Win 10] Windows 11 Confirmed

[Win10] End of support Oct 14, 2025

[Win10] More on Win 11 Story

[Win10] News and Interests Taskbar Widget

[Win10] Microsoft's Windows 11

[Win10] Copy and Move Files with File Explorer

[Win10] Securely deleting files

[Win10] Escape from "S" Mode

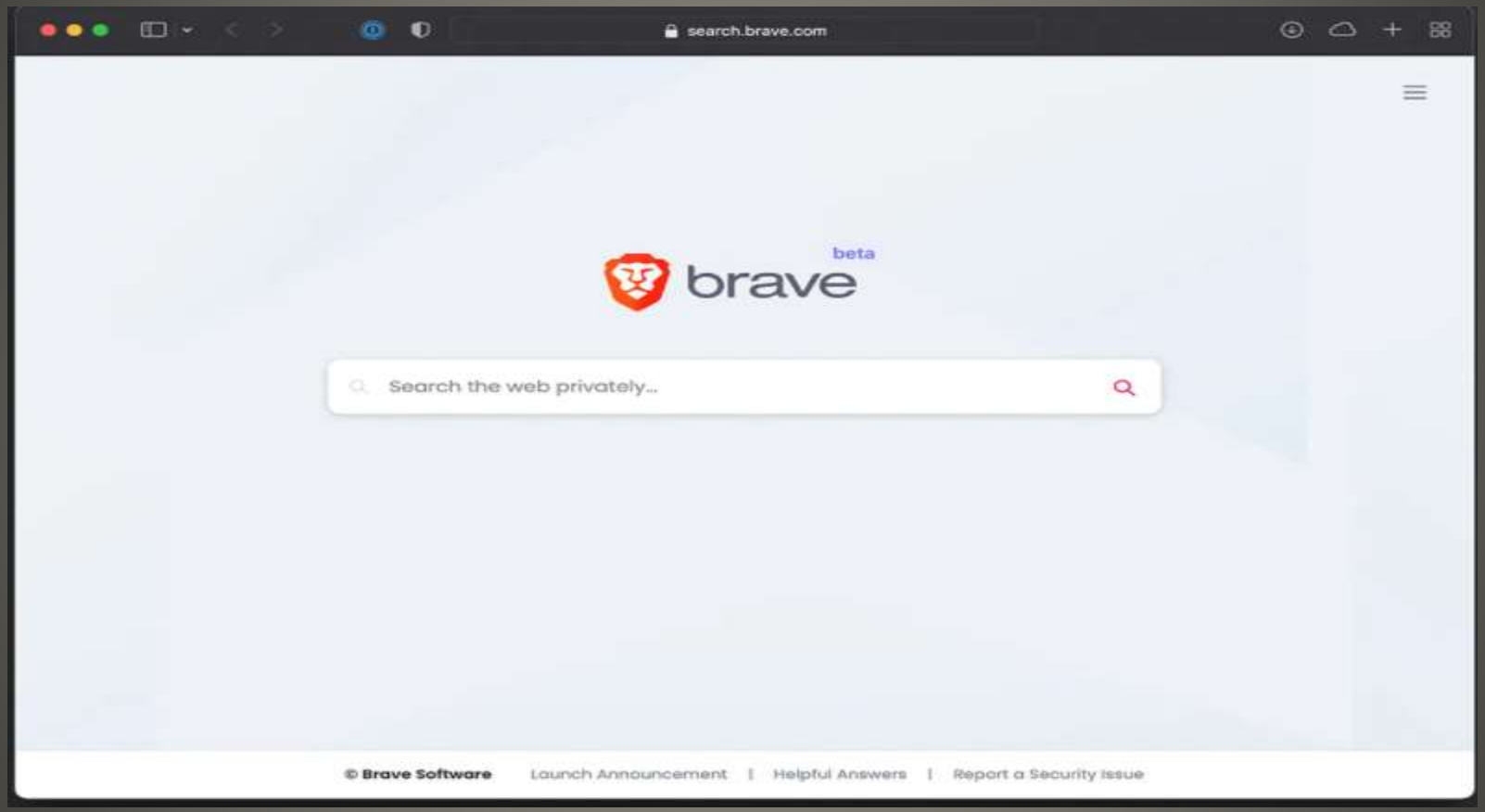
[Win10] How to go back to ver 20H2 from 21H1

[Win 10] Chrome Crashes After 21H1 Update

[Win10] MS dropping MSIE Support on many versions on June 15, 2022

[Win10] upgrade from 10 Home to 10 Pro for free

- https://search.brave.com



Brave search engine - Beta

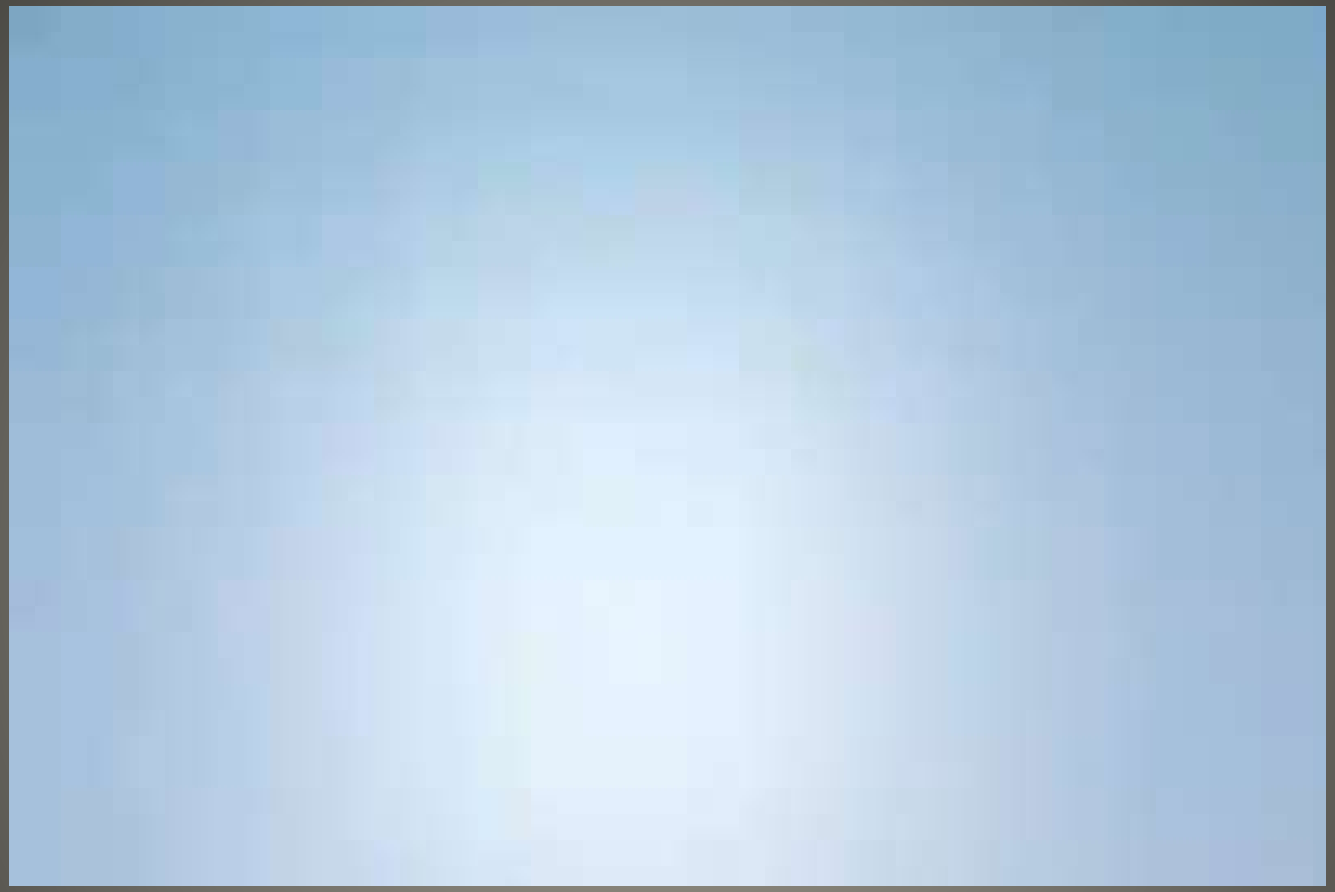
Stealing your cookies... bye,bye!
OK

POC FACEBOOK XSS ACCOUNT TAKEOVER CVE-2021–34506
Watch later
Share
Recordar contraseña
Vansh Devgan (Mayank Sharma)
Intro

- Microsoft Translator
  Universal cross site scripting
  3-June first report
  24-June patch
  $20,000 reward

Edge vulnerability

About Windows
Windows 11
Microsoft Windows
Version Dev (OS Build 21996.1)
© Microsoft Corporation. All rights reserved.
The Windows 11 Pro operating system and its user interface are protected by trademark and other pending or existing intellectual property rights in the United States and other countries/regions.
This product is licensed under the Microsoft Soft
Terms to:
Pinned
All apps
Microsoft Edge
Mail
Calendar
Microsoft Store
Photos
Settings
Office
Xbox
Solitaire
Spotify
Netflix
To Do
News
PicsArt
Twitter
Messenger
Photoshop Elements
Calculator
Recommended
More
OneDrive
Recently added
Get Started
Welcome to Windows
img19
5m ago
img0
9m ago
Tom's Notebook
1h ago
Document 1
Yesterday at 8:03 AM
Tom Warren
10:04 AM
Tuesday
6/15/2021



Windows 11

Windows 11

- The last version of windows (sic)
- 64-bit, 4GB RAM, 64GB storage
- No 32-bit support
- Windows 10 support end Oct 14, 2025
- Windows 11 lure

  SHA256hash

B8426650c24a765c24083597a1eba48d9164802bd273b678c4fefe2a6da60dcb

- Beware Insider ToS

Windows 11

- UEFI, secure boot capable
- TPM V2.0 or greater
- Home edition – Microsoft account & Internet
- Microsoft store 12% fee or no fee
  Apple App store & Google Play 15-30%
  Android apps Amazon's Appstore
- App store Updates moved to Library icon

Windows 11 Android Apps Your Phone

- Automatic HDR (High Dynamic Range)

Xbox features

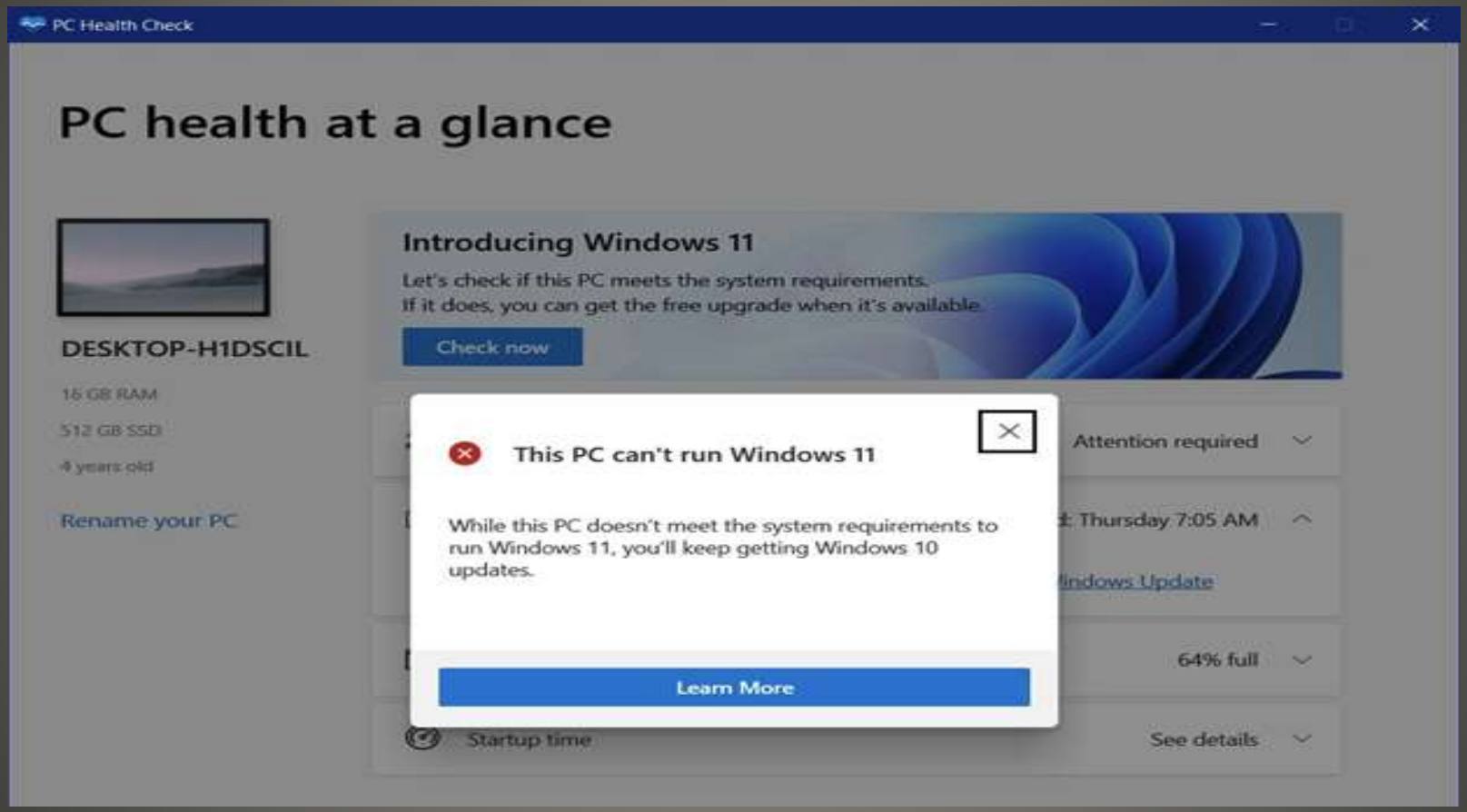
- Direct storage
  Large game worlds loaded from speedy drives
- Xbox game pass

Xbox Features Windows 11

Windows 11 features

- Windows widgets
- Windows Teams
- Snap layouts
- Rounded corners
- Feature updates one per year
- “Holiday Season” release
- Trusted Platform Module (TPM V2.0)
- Firmware attacks
- Modern CPUs, Secure boot, virtualizations
  Spectre & Meltdown

- https://aka.ms/GetPCHealthCheckApp



PC Health Check

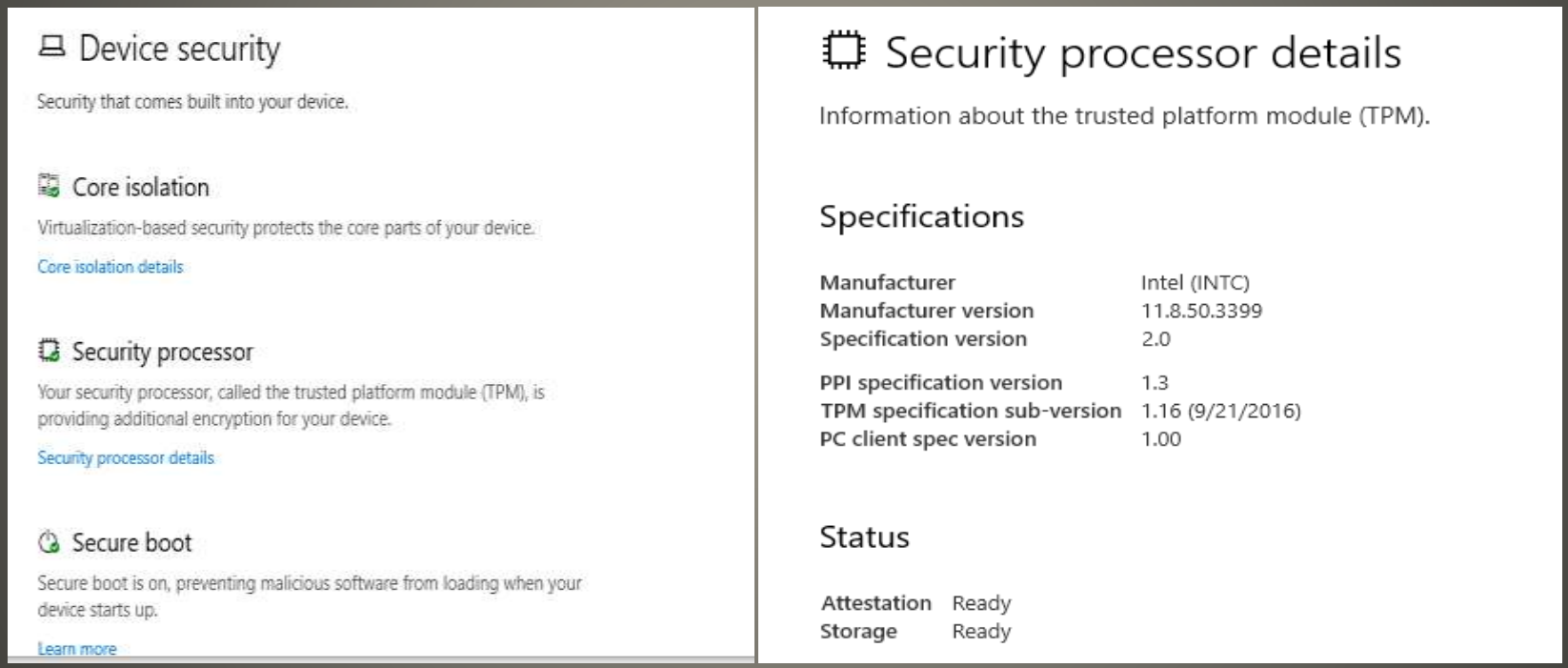
Windows 11 features

- Snap layouts
- Snap groups
- Taskbar teams
- Teams update
- Widgets
- Enhanced touchscreen, pen, voice
- Xbox
- Design/Interface
- Android App integration
- Virtual desktop improvements
- Smaller security updates
- 10-day roll-back

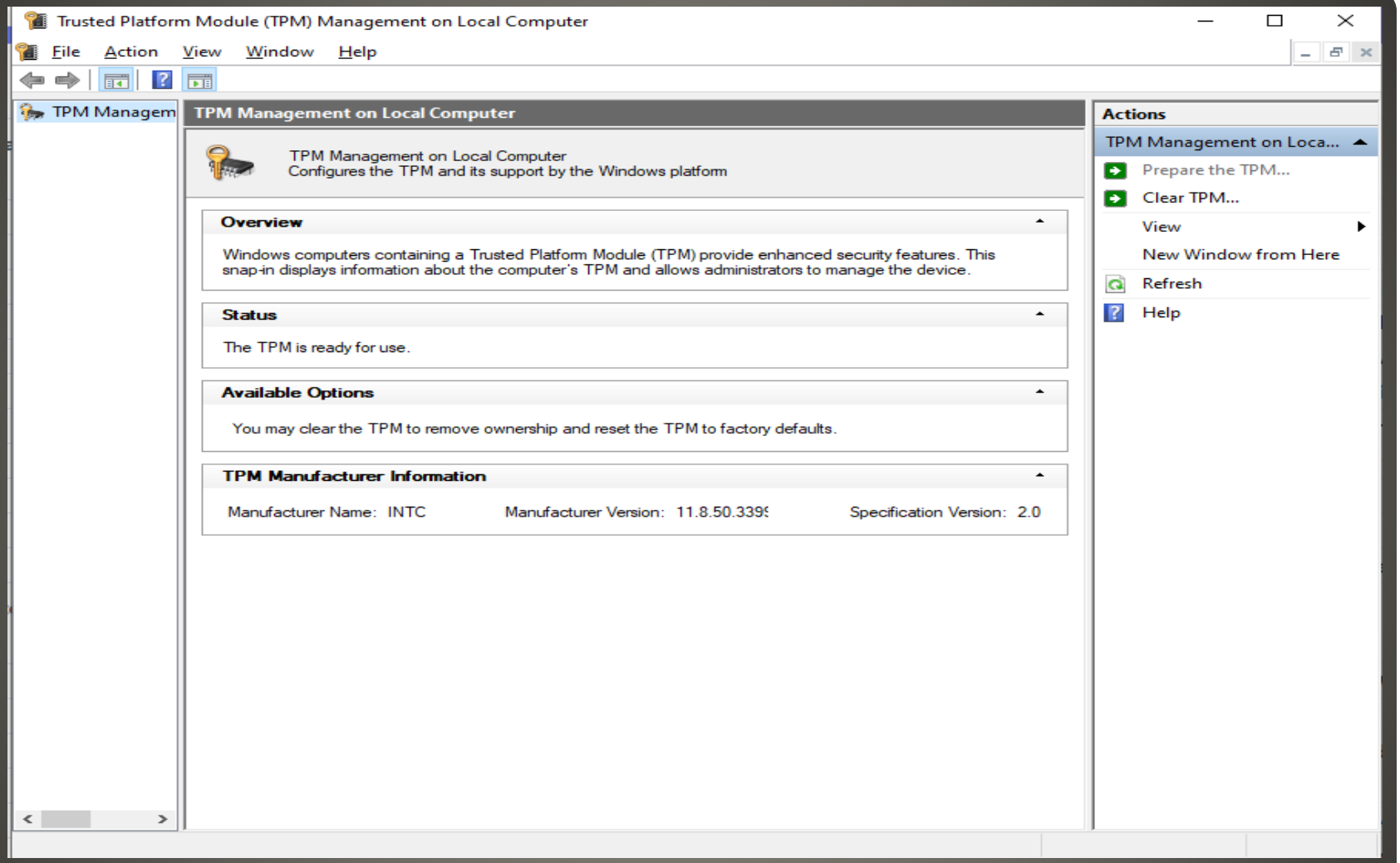
- Windows 10
  4.4.0-19041
- Windows 11
  4.19.128

Windows 11 WSL

- Windows Security > Virus & threat Protection > Device Security
- Device Security



TPM


Trusted Platform Module (TPM) Management on Local Computer
File Action View Window Help
TPM Managem
TPM Management on Local Computer
TPM Management on Local Computer
Configures the TPM and its support by the Windows platform
Overview
Windows computers containing a Trusted Platform Module (TPM) provide enhanced security features. This snap-in displays information about the computer's TPM and allows administrators to manage the device.
Status
The TPM is ready for use.
Available Options
You may clear the TPM to remove ownership and reset the TPM to factory defaults.
TPM Manufacturer Information
Manufacturer Name: INTC
Manufacturer Version: 11.8.50.339
Specification Version: 2.0
Actions
TPM Management on Loca...
Prepare the TPM...
Clear TPM...
View
New Window from Here
Refresh
Help

tpm.msc

- Intel Platform Trust Technology (PTT)
- AMD Ryzen fTPM
- Can add?
- FOLLOW STEPS

TPM

TPM & such

TPM 1.2 and 2.0

Crypto-processor
- Random number generator.
- RSA/ECC key generator.
- HMAC generator.
- SHA-1/SHA-256 hash generator.
- Signature engine

- **Platform integrity.** Makes sure the boot process is correct.
- **Disk encryption.** The encryption key used for dis encryption is fully or partially defined by the SRK.
- **Password protection.** The storage of the user's password in the chip.

Versatile memory:
- Platform Configuration Registers (PCR).
- Attestation Identity Keys (AIK).
- Storage Keys.

Persistent memory:
- Endorsement Key (EK). A private key from a key pair. A user wishing to send a message to this TPM uses the public key to encrypt. Public key is also stored on TPM.
- Storage Root Key (SRK). Used to encrypt disk storage.

TPM & such

- Trusted boot environment
- Endorsement key pair
- Storage Root key pair
- RSA (usually)
- Used to encrypt AES key for encryption
- Return of Coppersmith Attack
  week RSA prime number generator
  Estonia e-ID
  Static ID -> Mobile devices

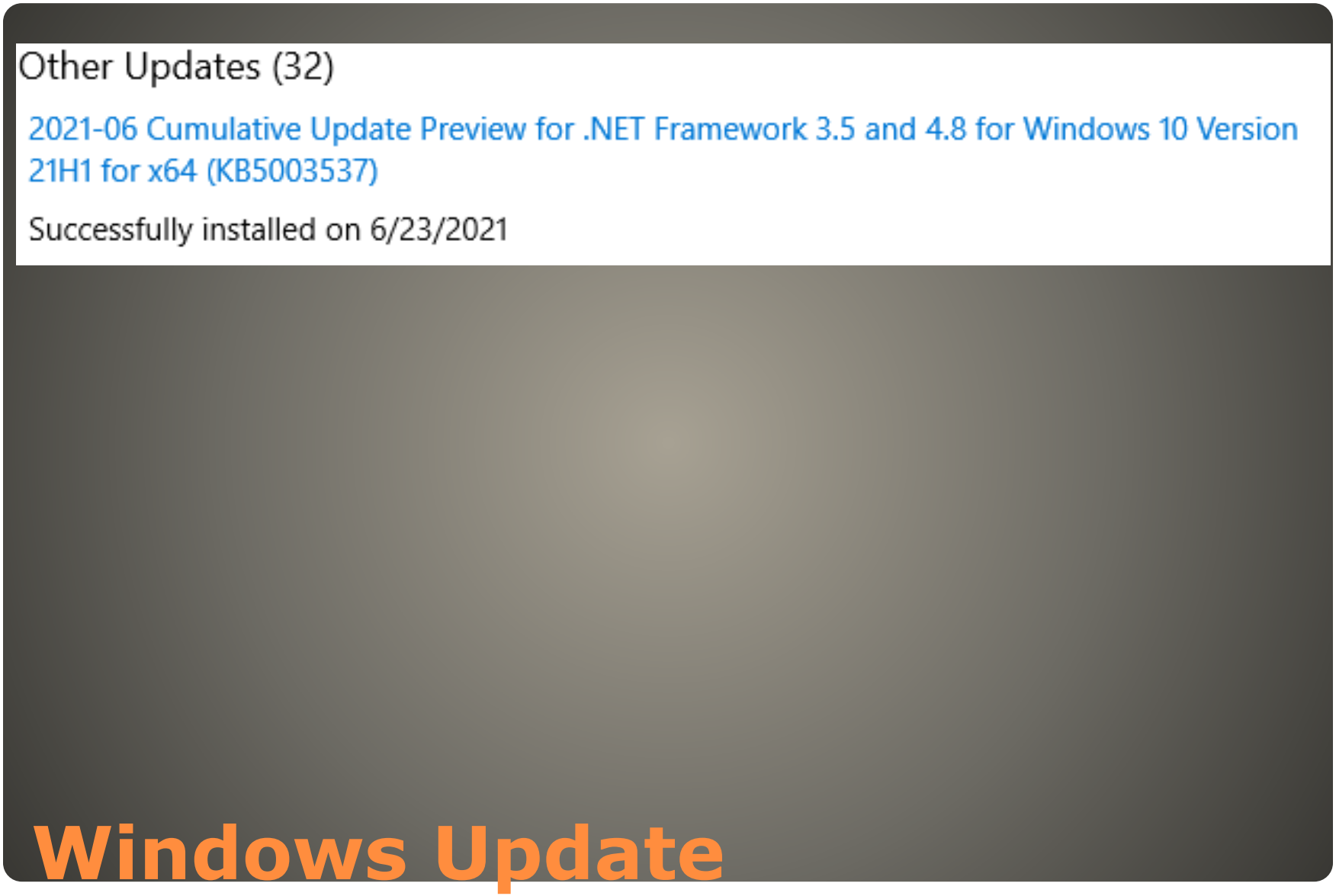
Windows 11

- Dual screen devices Windows 10X
- Task Bar icons centered
- Cleaner Tray
- New Start button and menu

- More photo editing capabilities
- More organizational features
- Web and Android
- Personal OneDrive accounts

Microsoft OneDrive

Crop
Adjustment
0°
Free



Windows Update

.NET Framework 3.5 and 4.8

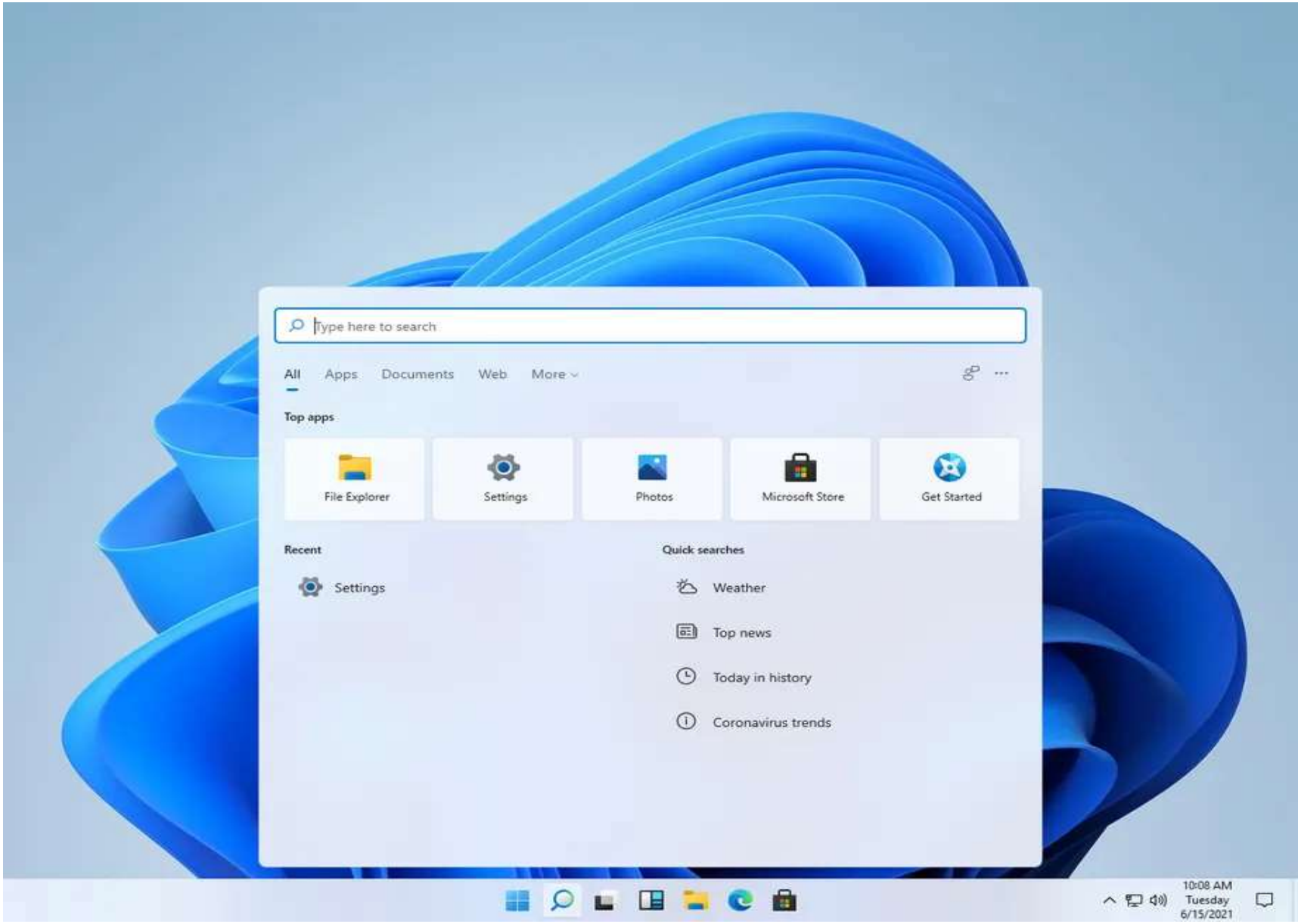
The June 21, 2021 update for Windows 10, version 2004, Windows Server, version 2004, Windows 10, version 20H2, and Windows Server, version 20H2, and Windows Version 21H1 includes cumulative reliability improvements in .NET Framework 3.5 and 4.8. We recommend that you apply this update as part of your regular maintenance routines. Before you install this update, see the Prerequisites and Restart requirement sections.

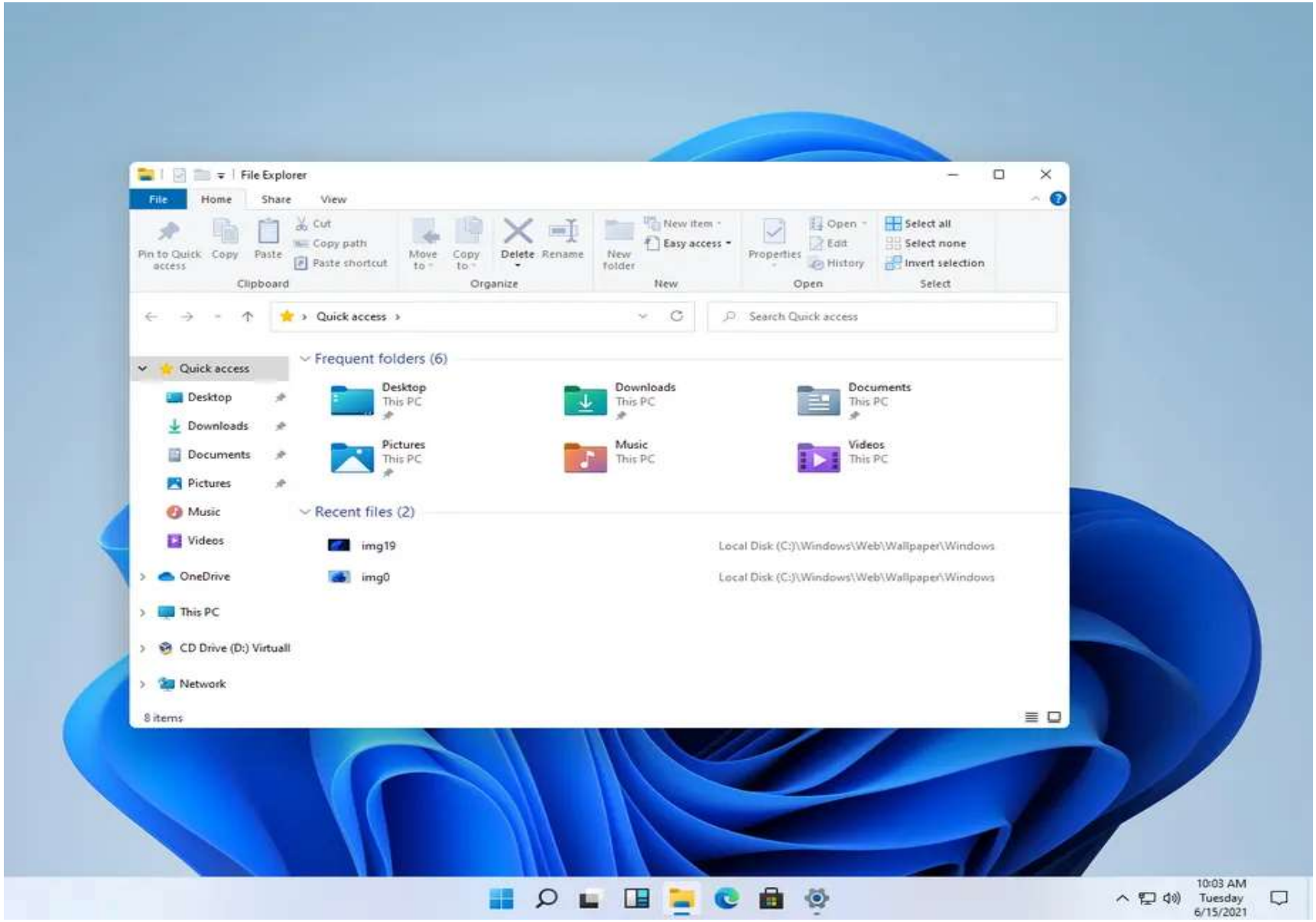
Quality and reliability improvements

WPF[1]	- Addresses an issue affecting a DataGrid contained in an outer ScrollViewer. - Addresses a crash due to ElementNotAvailableException in a ListView with custom data-item automation peers.
CLR[2]	- When the process is not under high memory pressure it tends to favor doing BGCs over doing full compacting GCs. This is usually desirable but if the app behavior changes dramatically, it could cause much of the fragmentation in older generations (ie, gen2 and LOH) to be unused. You can collect GC ETW events which tell you how much fragmentation there is in gen2 and LOH and verify if you are in this situation.
Winforms	- Addresses an issue in Property Grid control to prevent incorrect data read in some scenarios in 64 bit processes. - Addresses an issue where System.Drawing double frees allocated memory when failing to get printer settings.
ClickOnce	- Addresses a regression introduced in previous updates. We now honor WinTrust policy setting "Ignore timestamp revocation checks" setting when validating timestamps in ClickOnce manifests.

1 Windows Presentation Foundation (WPF)

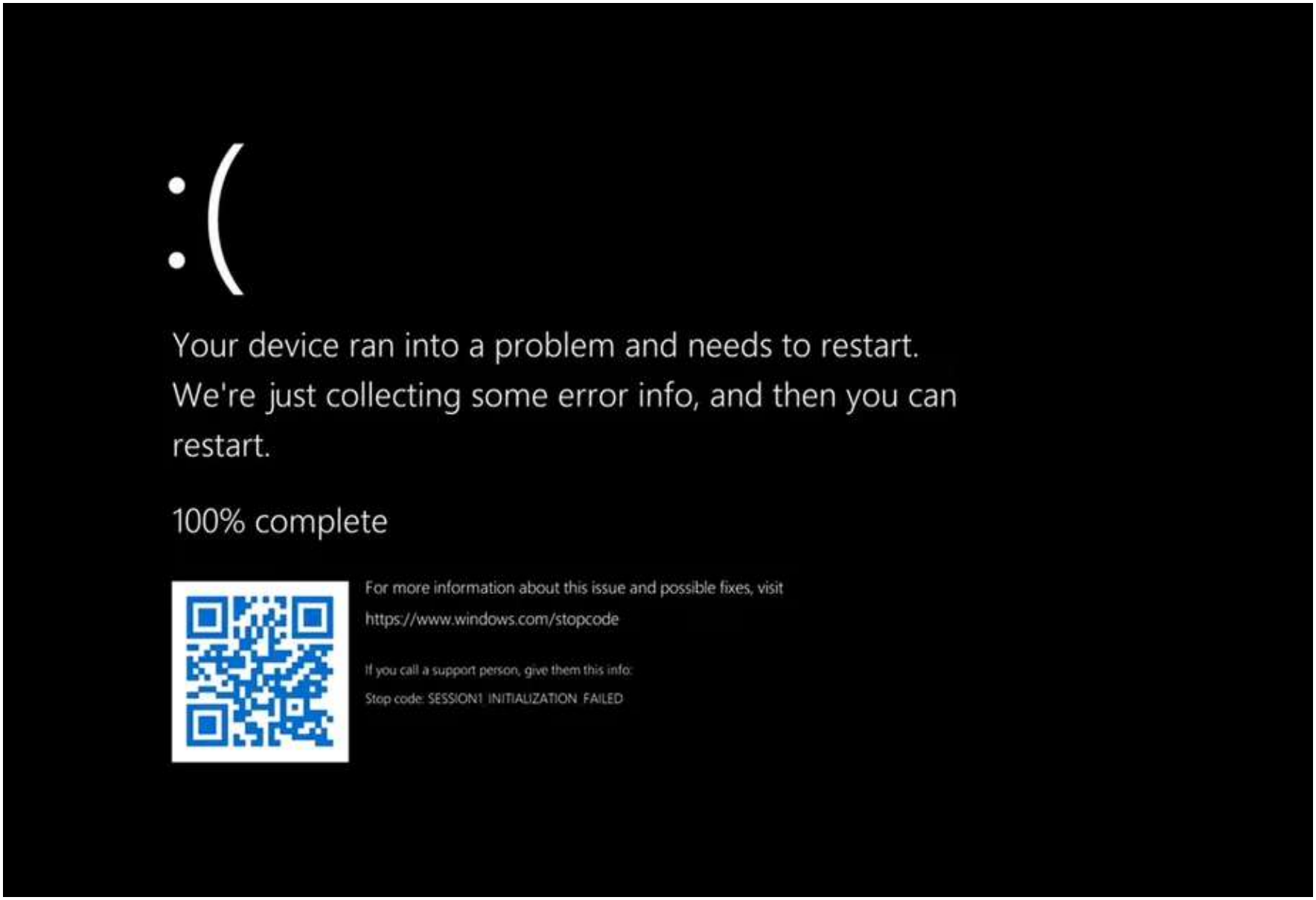
2 Common Language Runtime (CLR)


Type here to search
All
Apps
Documents
Web
More
Top apps
File Explorer
Settings
Photos
Microsoft Store
Get Started
Recent
Settings
Quick searches
Weather
Top news
Today in history
Coronavirus trends
10:08 AM
Tuesday
6/15/2021

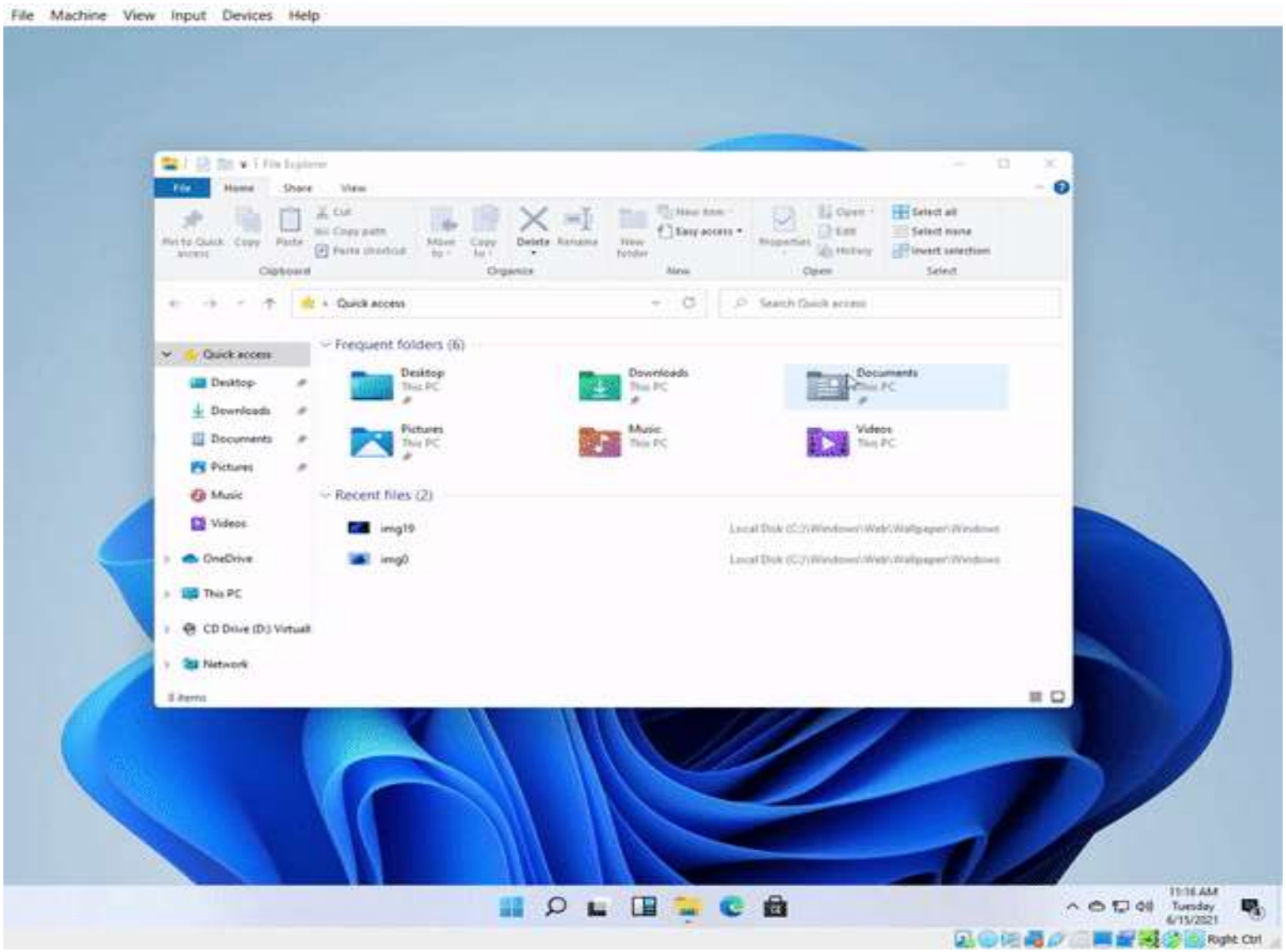

File Explorer
File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
Quick access
Search Quick access
Quick access
Desktop
Downloads
Documents
Pictures
Music
Videos
OneDrive
This PC
CD Drive (D:) Virtuall
Network
Frequent folders (6)
Desktop
This PC
Downloads
This PC
Documents
This PC
Pictures
This PC
Music
This PC
Videos
This PC
Recent files (2)
img19
Local Disk (C:)\Windows\Web\Wallpaper\Windows
img0
Local Disk (C:)\Windows\Web\Wallpaper\Windows
8 items
10:03 AM
Tuesday
6/15/2021

- Widget icon on Task Bar

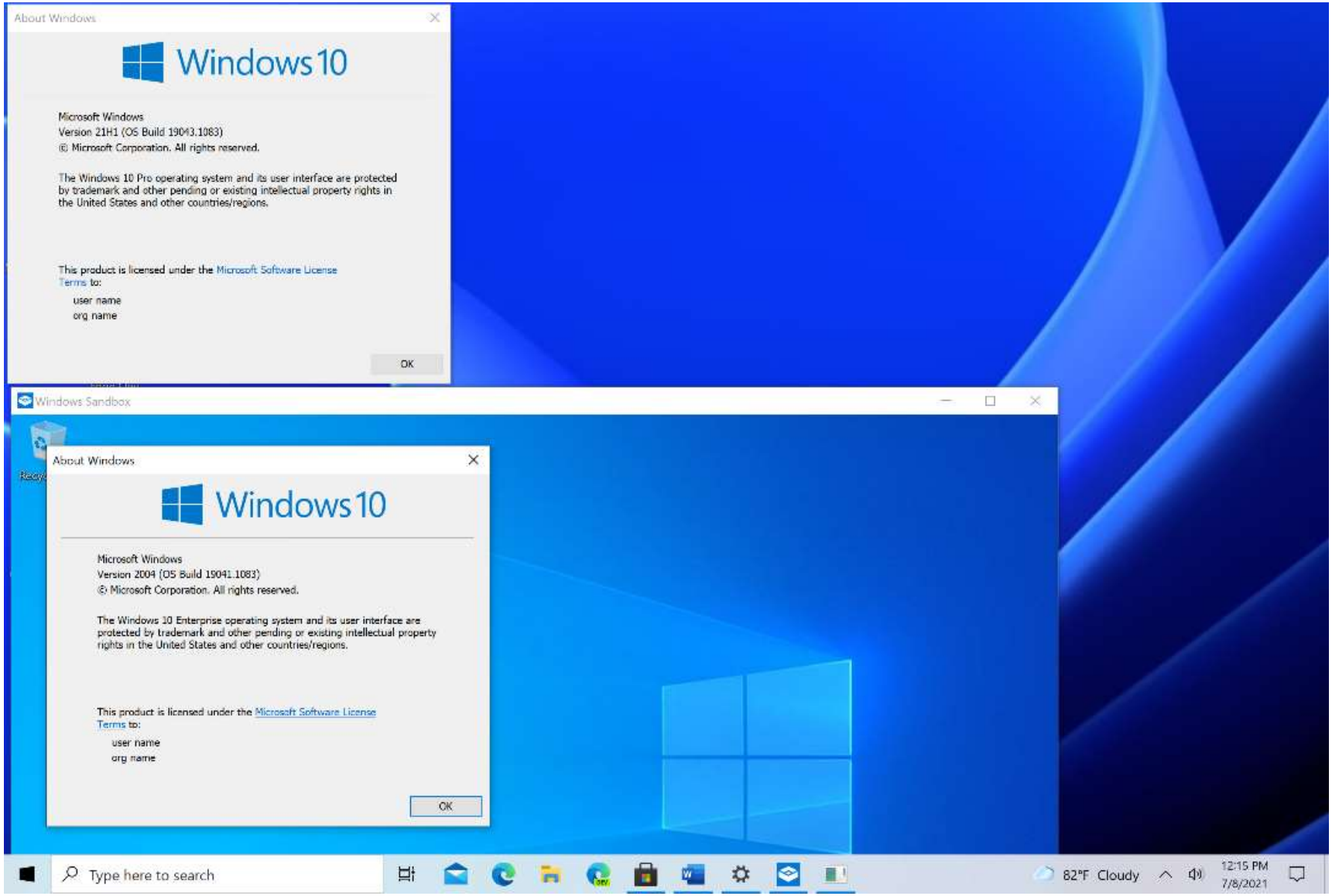
Windows 11


:(
Your device ran into a problem and needs to restart.
We're just collecting some error info, and then you can restart.
100% complete
For more information about this issue and possible fixes, visit
https://www.windows.com/stopcode
If you call a support person, give them this info:
Stop code: SESSION1_INITIALIZATION_FAILED

Pinned
All apps
Microsoft Edge
Mail
Calendar
Microsoft Store
Photos
Settings
Office
Xbox
Solitaire
Spotify
Netflix
To Do
News
PicsArt
Twitter
Instagram
Photoshop Express
Calculator
Recommended
Video Editor
Recently added
Get Started
Welcome to Windows
mountain 2
17h ago
Big_Buck_Bunny_1080p_surround_F...
18h ago
Sleep
Update and shut down (estimate: 5 min)
Shut down
Update and restart (estimate: 5 min)
Restart
Ashwin


File Machine View Input Devices Help
File Explorer
File
Home
Share
View
Quick access
Search Quick access
Frequent folders (6)
Desktop
This PC
Downloads
This PC
Documents
This PC
Pictures
This PC
Music
This PC
Videos
This PC
Recent files (2)
img19
img0
Quick access
Desktop
Downloads
Documents
Pictures
Music
Videos
OneDrive
This PC
CD Drive (D:) Virtual8
Network
11:16 AM
Tuesday
6/15/2021
Right Ctrl

10:22 am
WEATHER
Poplar, England
23 °C
Sunny
4%
Today
Wed
Thu
Fri
24° 15°
29° 18°
20° 15°
16° 13°
See full forecast
MONEY | WATCHLIST
AAPL
Apple Inc
129.80
MSFT
Microsoft Corp
258.54
EUROPA LEAGUE
Villarreal
2
Arsenal
1
Final
29 Apr
See more Europa League
TOP STORIES
'Incredibly important milestone': More than 30 million in UK have had both jabs
Farmers raise concerns as PM hails 'historic' UK-Australia trade deal
Met accused of 'institutional corruption' by report into Morgan murder
LIVE: Hungary take on Portugal in opening game of Group F
Meghan Markle's baby bust-up: the fallout over Lilibet
Like
158
218
Daily Express · 11 hours
EU ramping pressure up to stop Brexit Britain from 'outshining' failing Brussels bloc
Like
93
227
10:23 AM
Tuesday
6/15/2021


About Windows
Windows 10
Microsoft Windows
Version 21H1 (OS Build 19043.1083)
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user name
org name
OK
Windows Sandbox
About Windows
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Microsoft Windows
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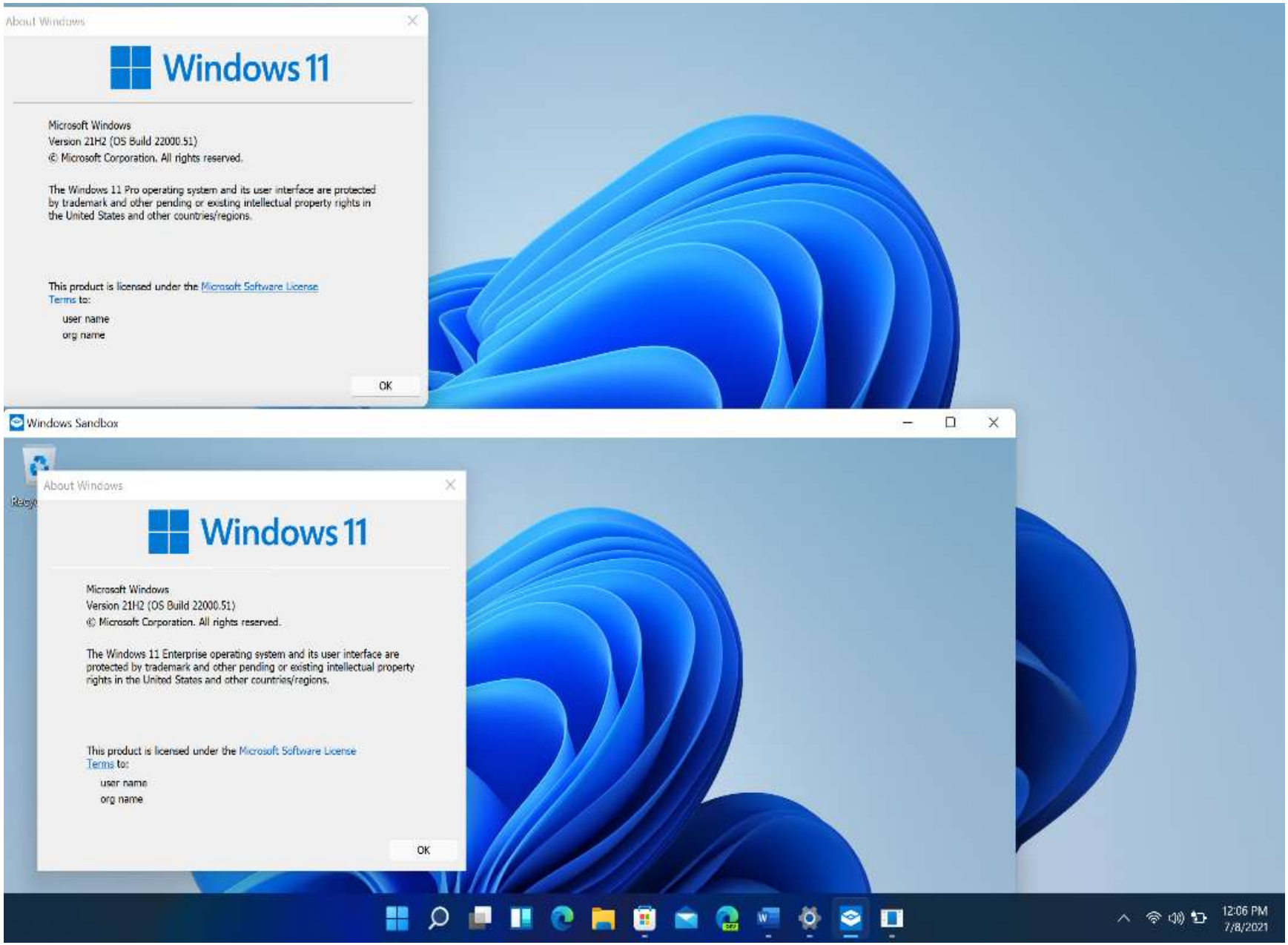
user name
org name
OK
Type here to search
82°F Cloudy
12:15 PM
7/8/2021


About Windows
Windows 11
Microsoft Windows
Version 21H2 (OS Build 22000.51)
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user name
org name
OK
Windows Sandbox
About Windows
Windows 11
Microsoft Windows
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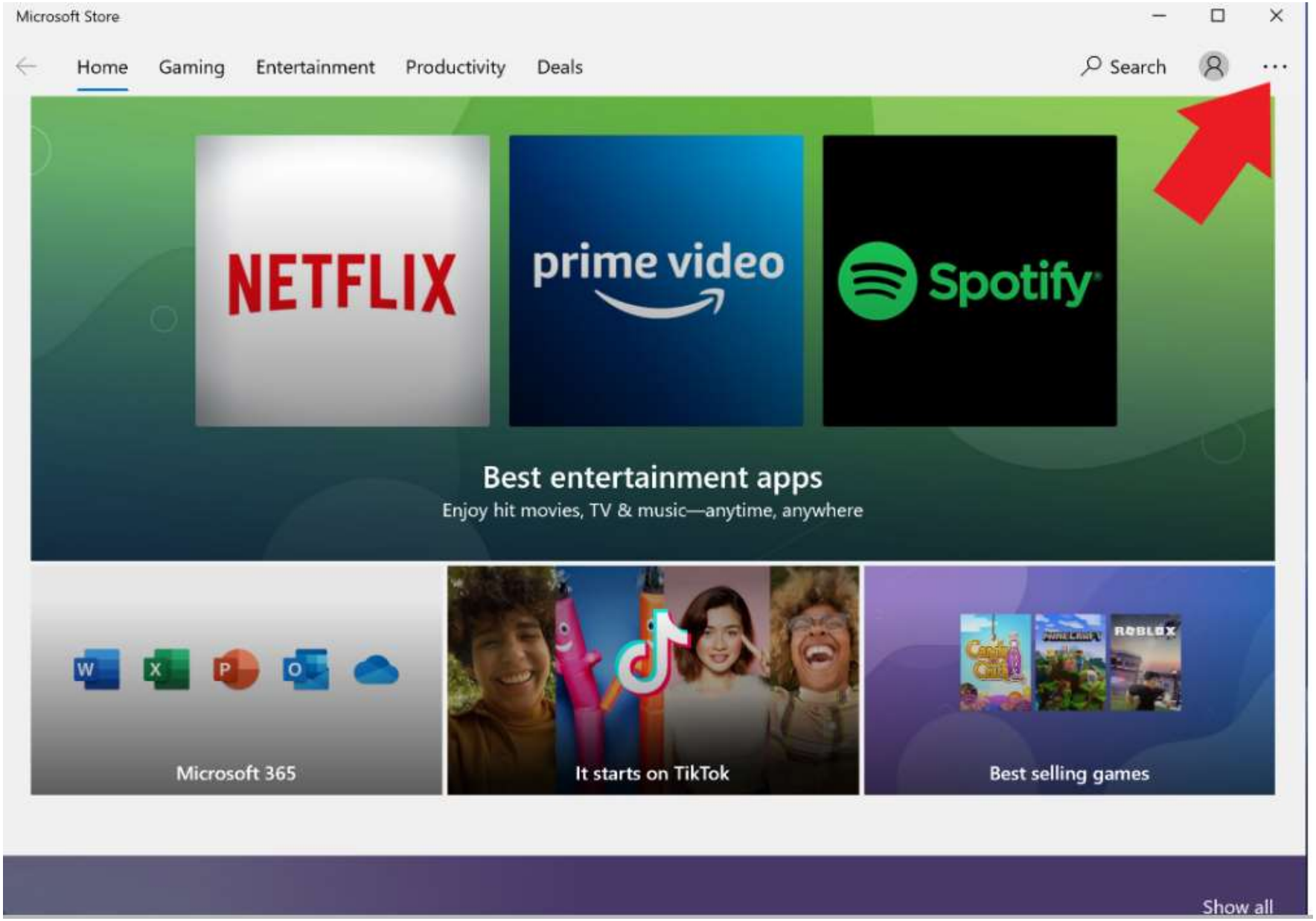
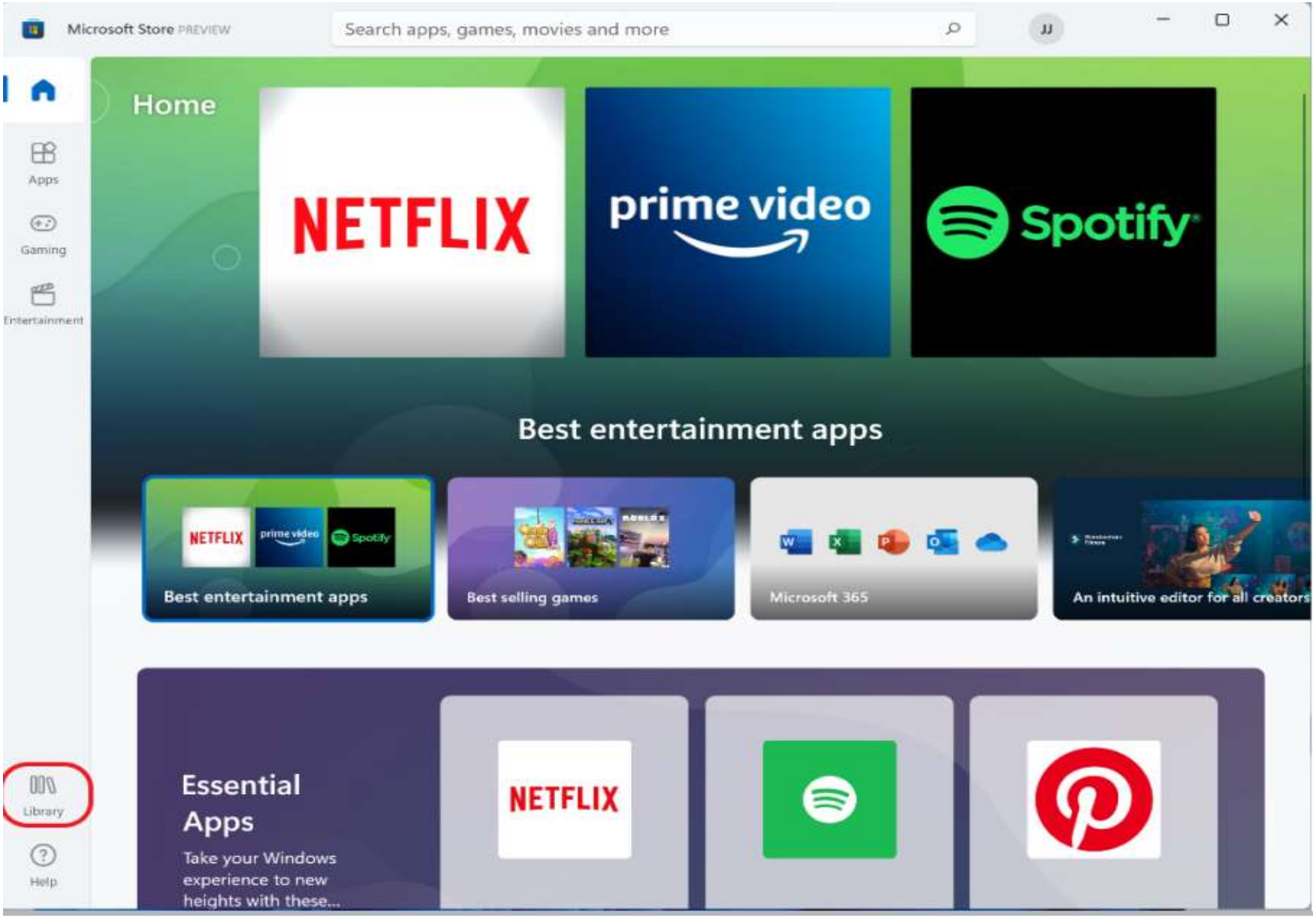
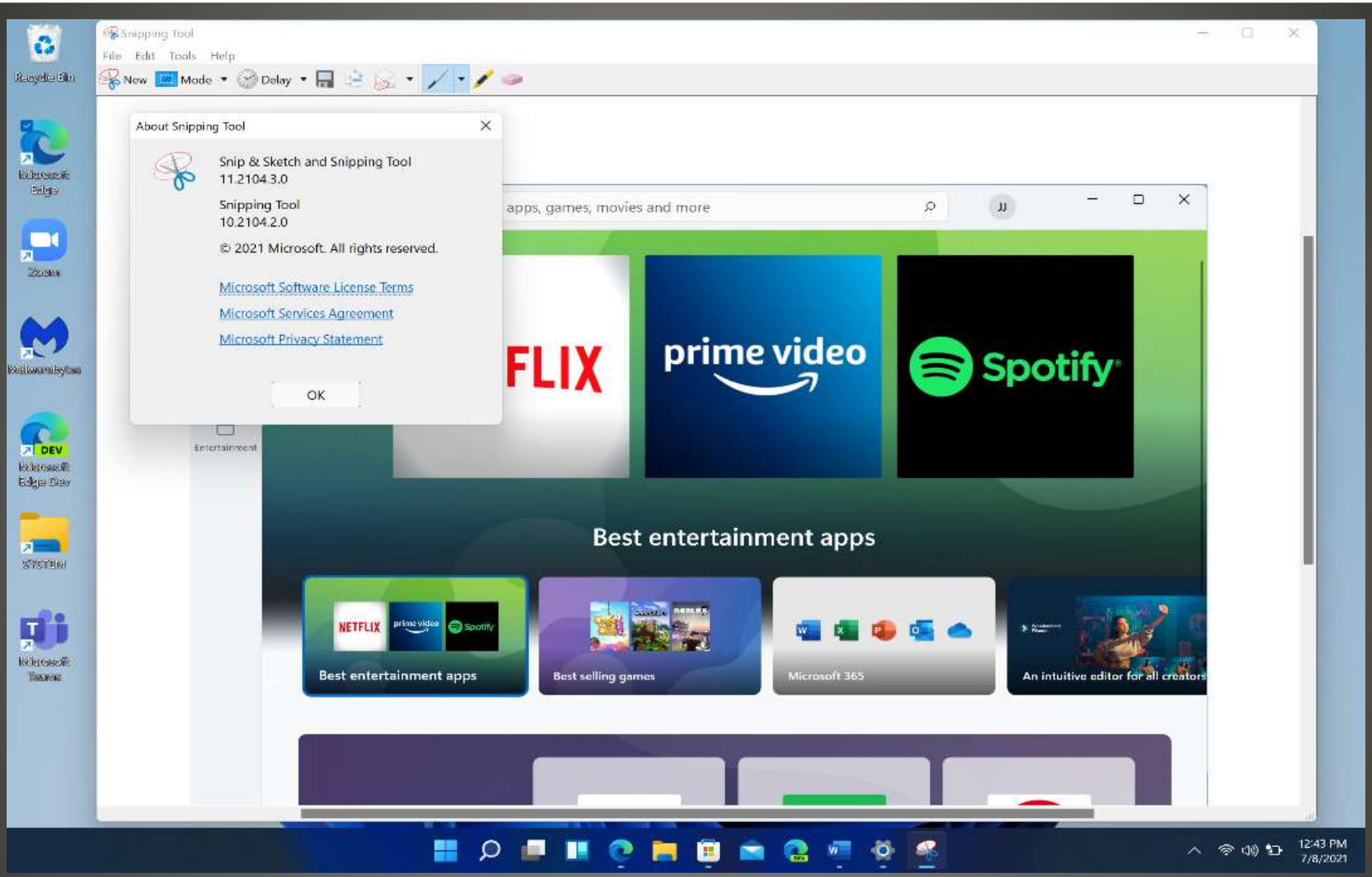
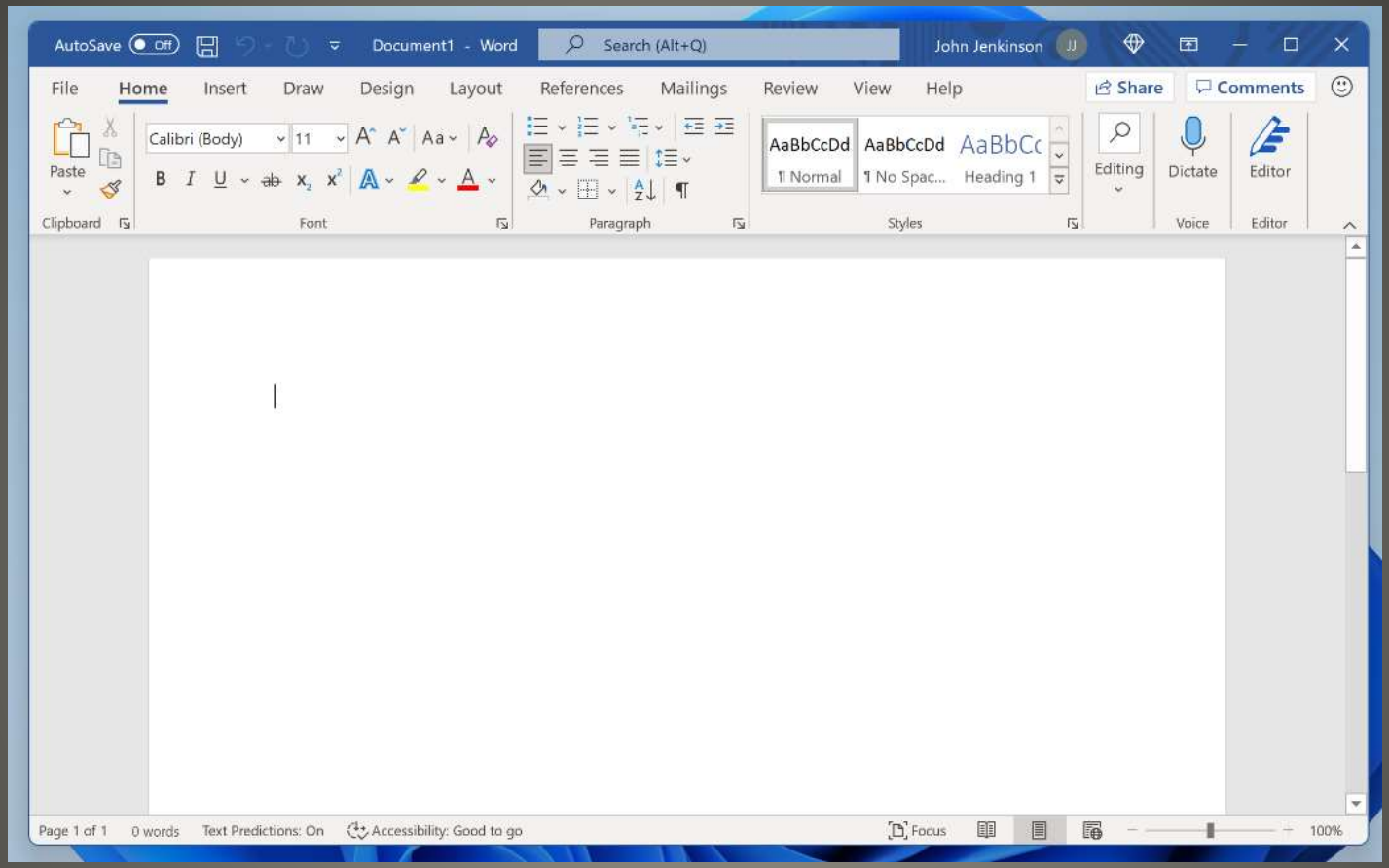
user name
org name
OK
12:06 PM
7/8/2021


Microsoft Store
Home
Gaming
Entertainment
Productivity
Deals
Search
NETFLIX
prime video
Spotify
Best entertainment apps
Enjoy hit movies, TV & music—anytime, anywhere
Microsoft 365
It starts on TikTok
Best selling games
Show all

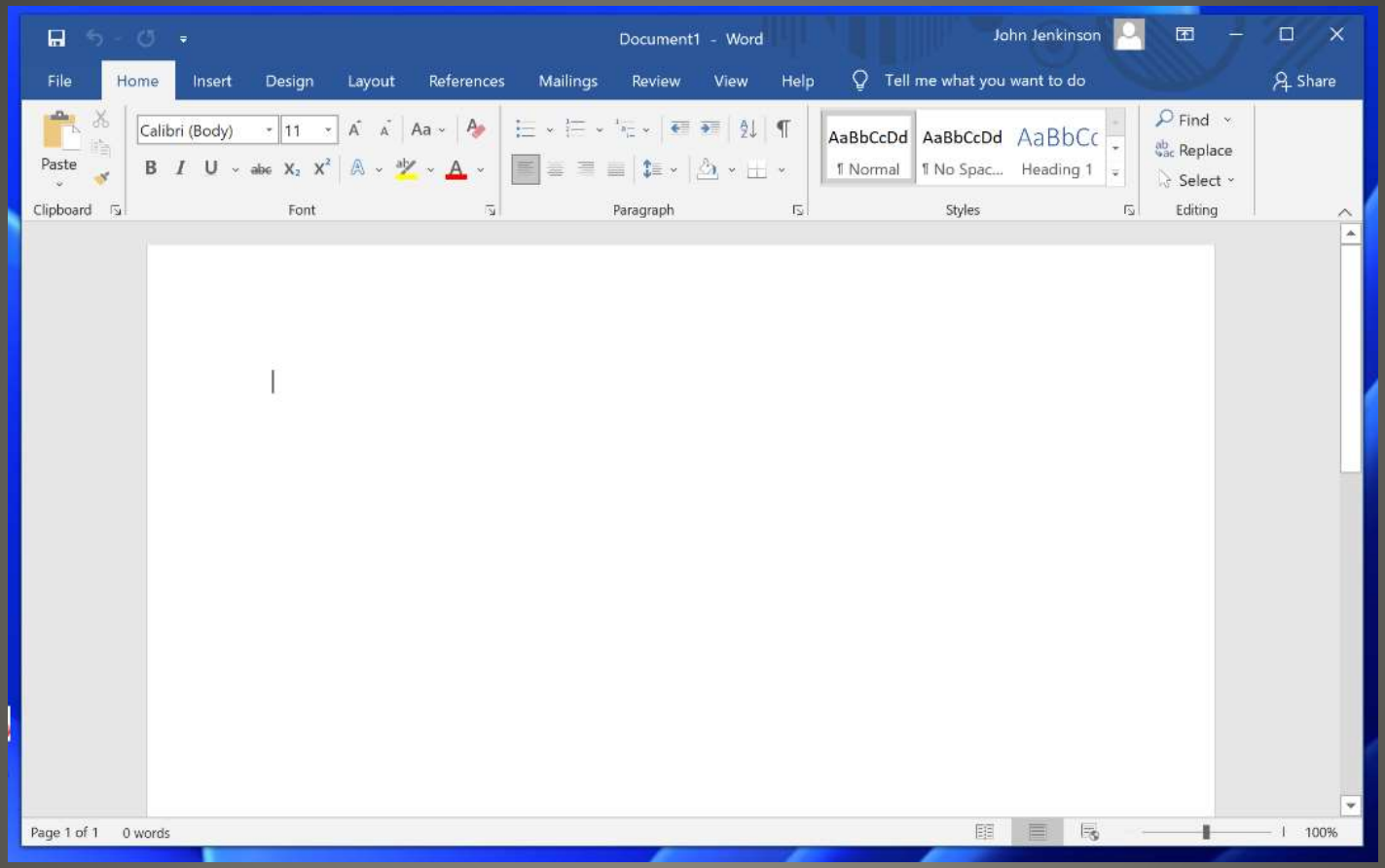

Microsoft Store PREVIEW
Search apps, games, movies and more
JJ
Home
Apps
Gaming
Entertainment
NETFLIX
prime video
Spotify
Best entertainment apps
Best entertainment apps
Best selling games
Microsoft 365
An intuitive editor for all creators
Library
Help
Essential Apps
Take your Windows experience to new heights with these...
NETFLIX



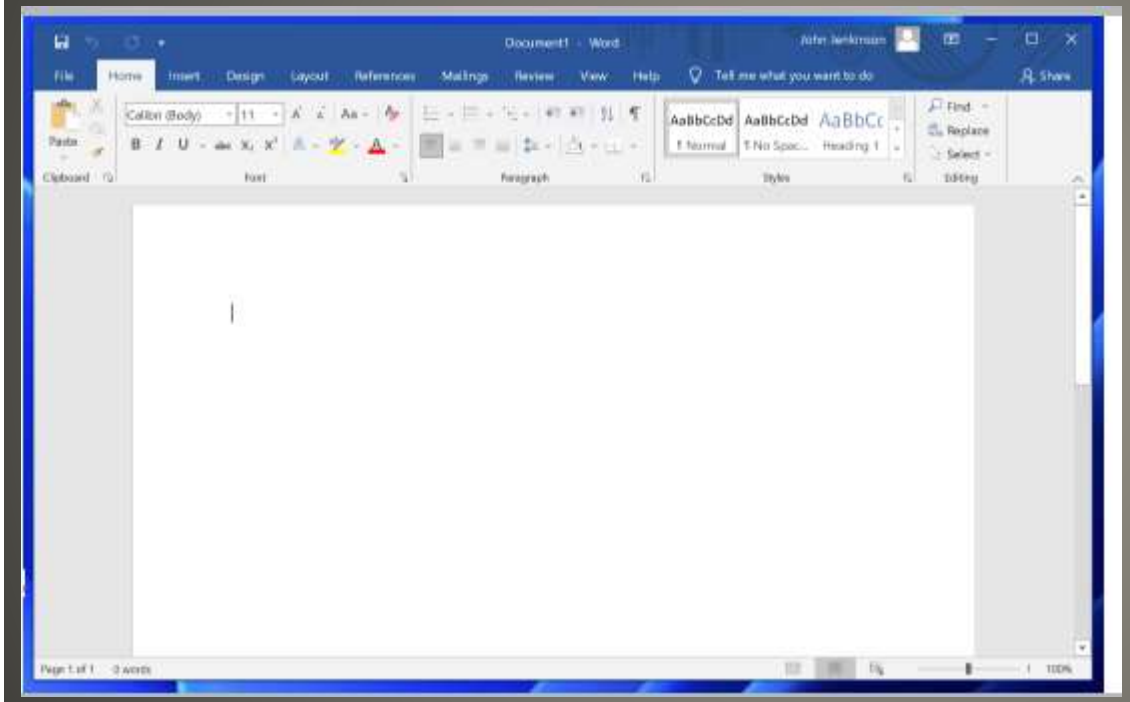
Snipping tool

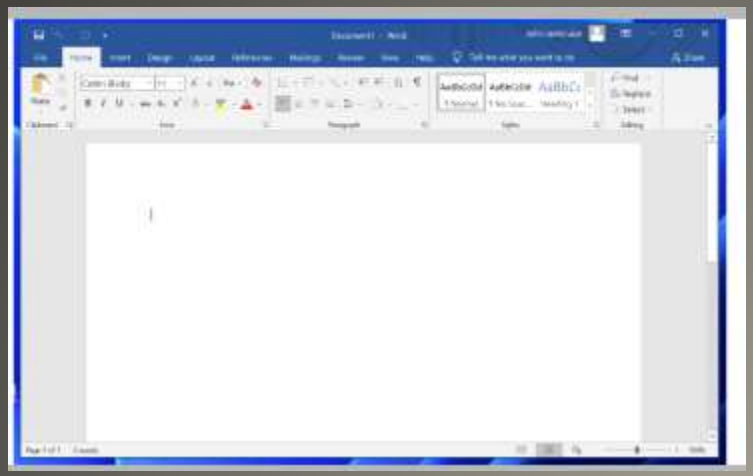


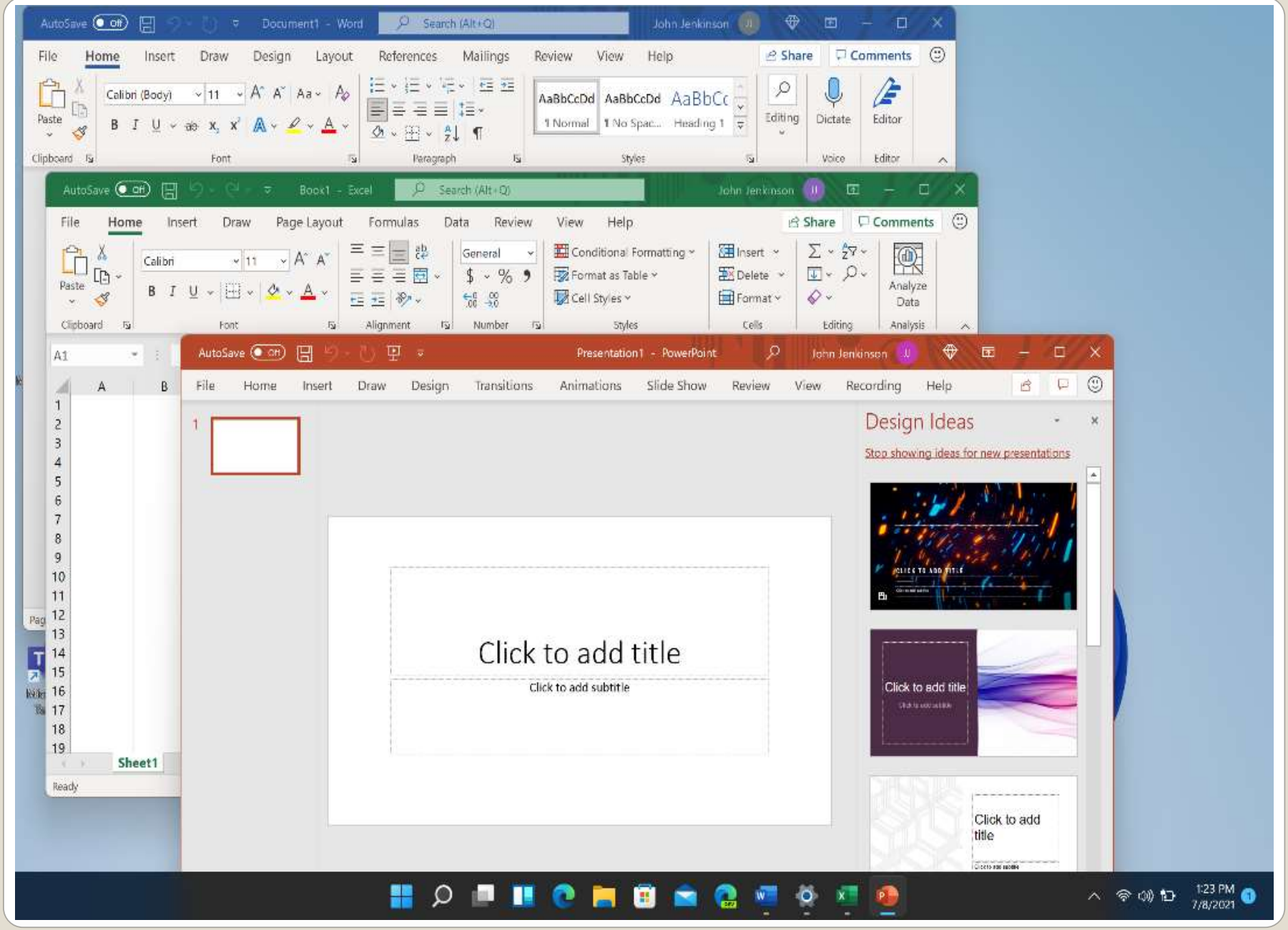
Office style refresh

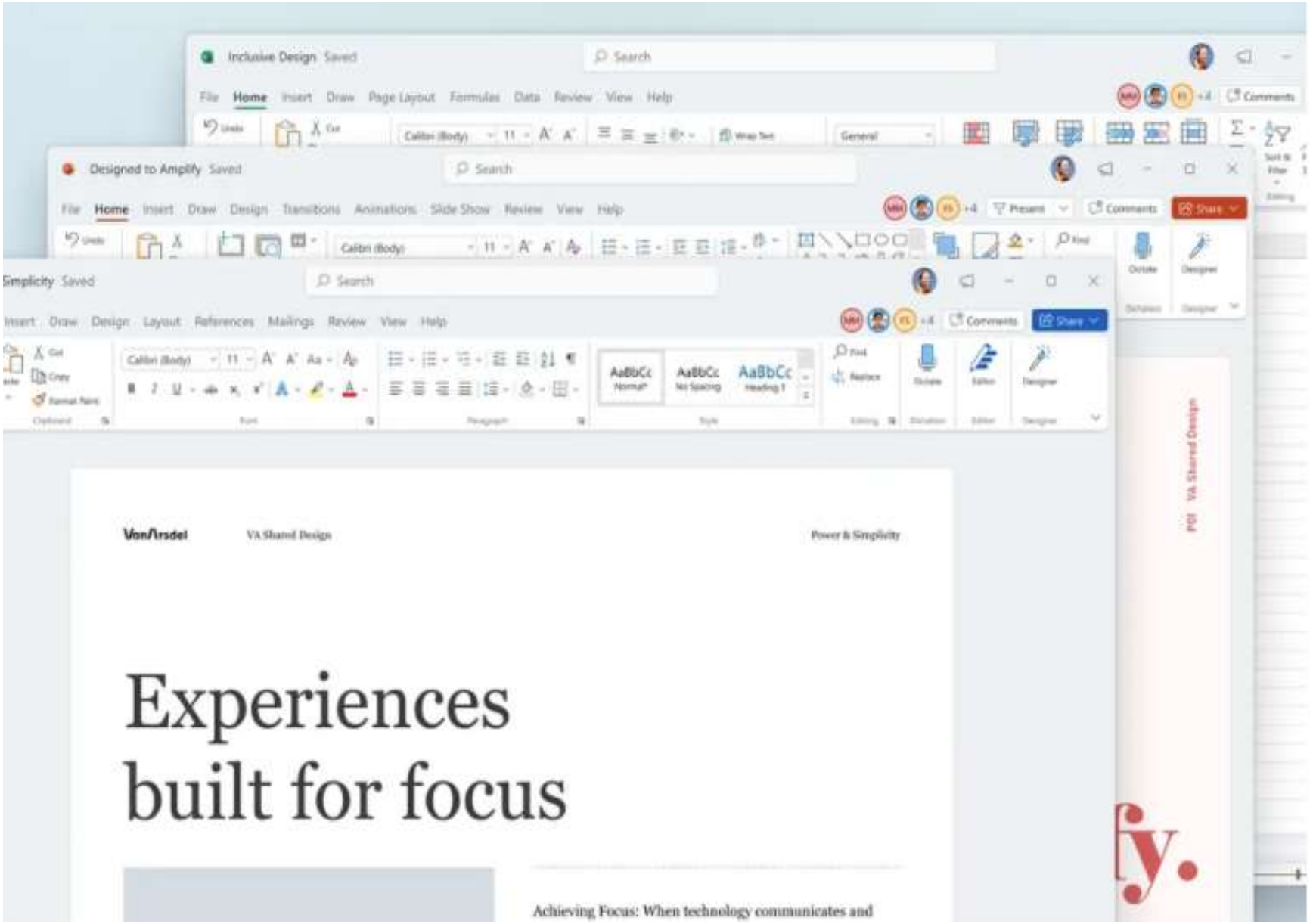


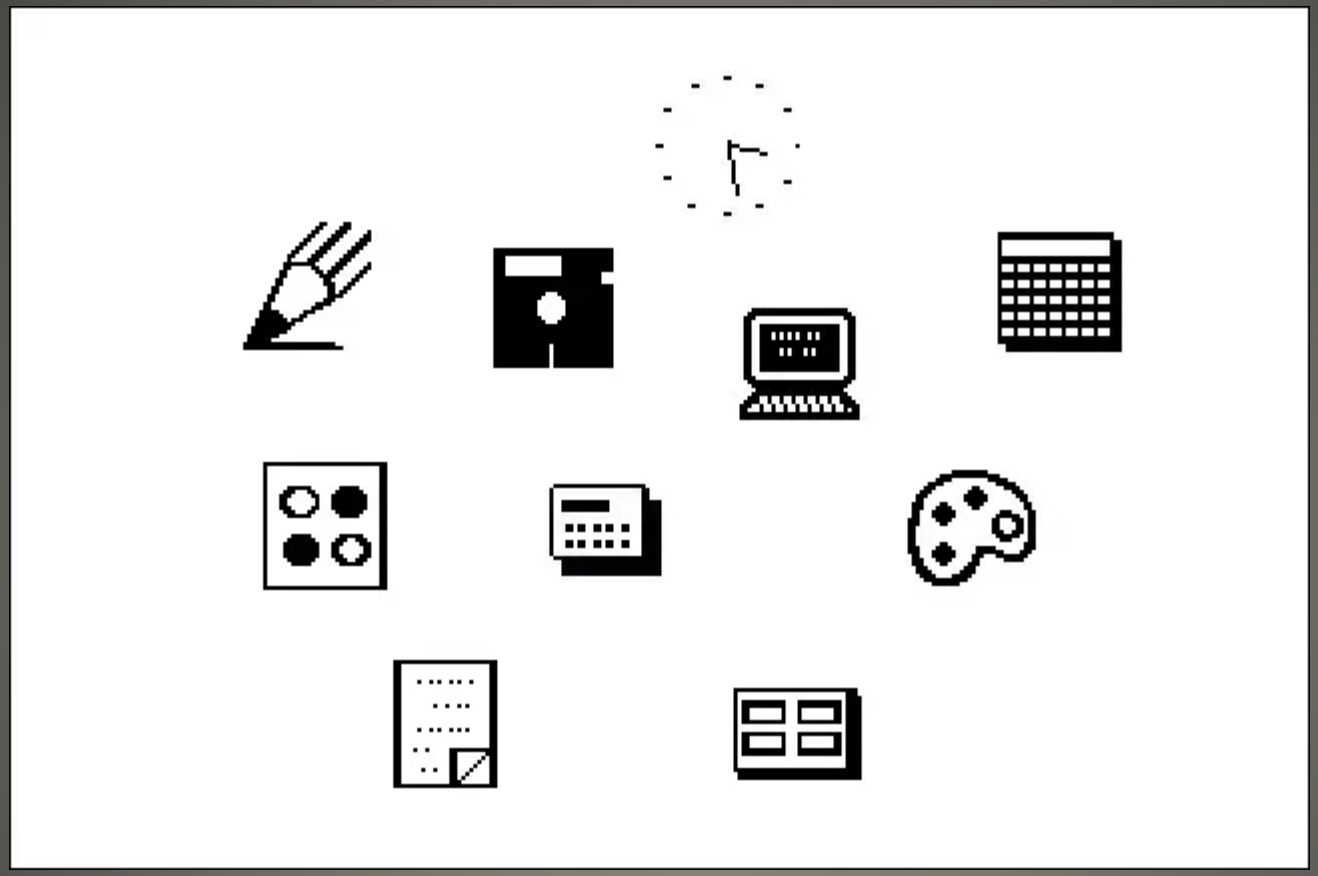
Office style old


Document1 - Word
File
Home
Insert
Design
Layout
References
Mailings
Review
View
Help
Tell me what you want to do
Share
Calibri (Body)
11
Paste
Clipboard
Font
Paragraph
Styles
Editing
Find
Replace
Select
AaBbCcDd
AaBbCcDd
AaBbCc
Normal
No Spac...
Heading 1
Page 1 of 1
0 words
100%

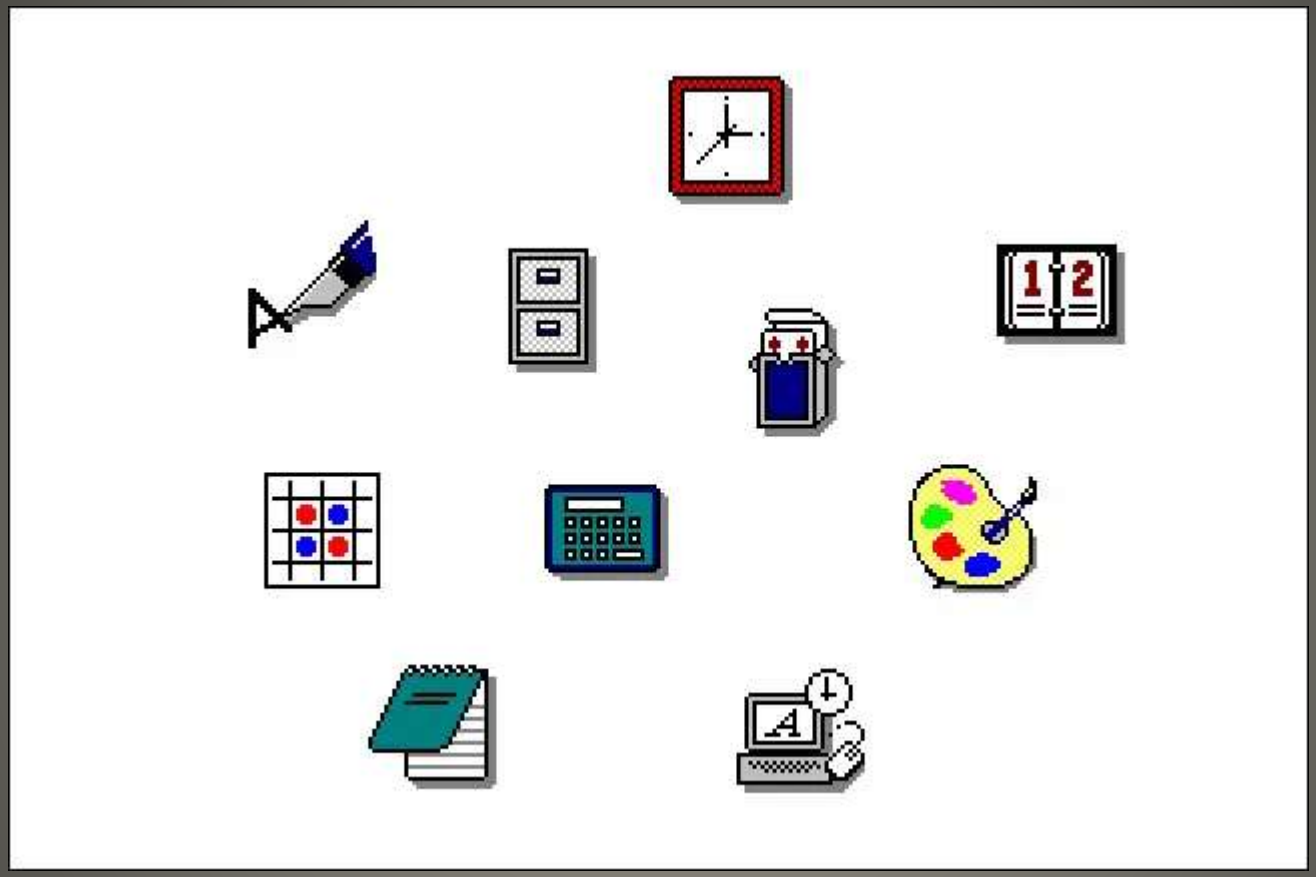



AutoSave
Document1 - Word
Search (Alt+Q)
John Jenkinson
File
Home
Insert
Draw
Design
Layout
References
Mailings
Review
View
Help
Share
Comments
Paste
Calibri (Body)
11
Clipboard
Font
Paragraph
Styles
Editing
Dictate
Editor
Voice
Editor
Book1 - Excel
Page Layout
Formulas
Data
Calibri
General
Conditional Formatting
Format as Table
Cell Styles
Insert
Delete
Format
Analyze Data
Alignment
Number
Cells
Analysis
A1
Sheet1
Ready
Presentation1 - PowerPoint
Transitions
Animations
Slide Show
Recording
Click to add title
Click to add subtitle
Design Ideas
Stop showing ideas for new presentations
Click to add title
Click to add title
1:23 PM
7/8/2021

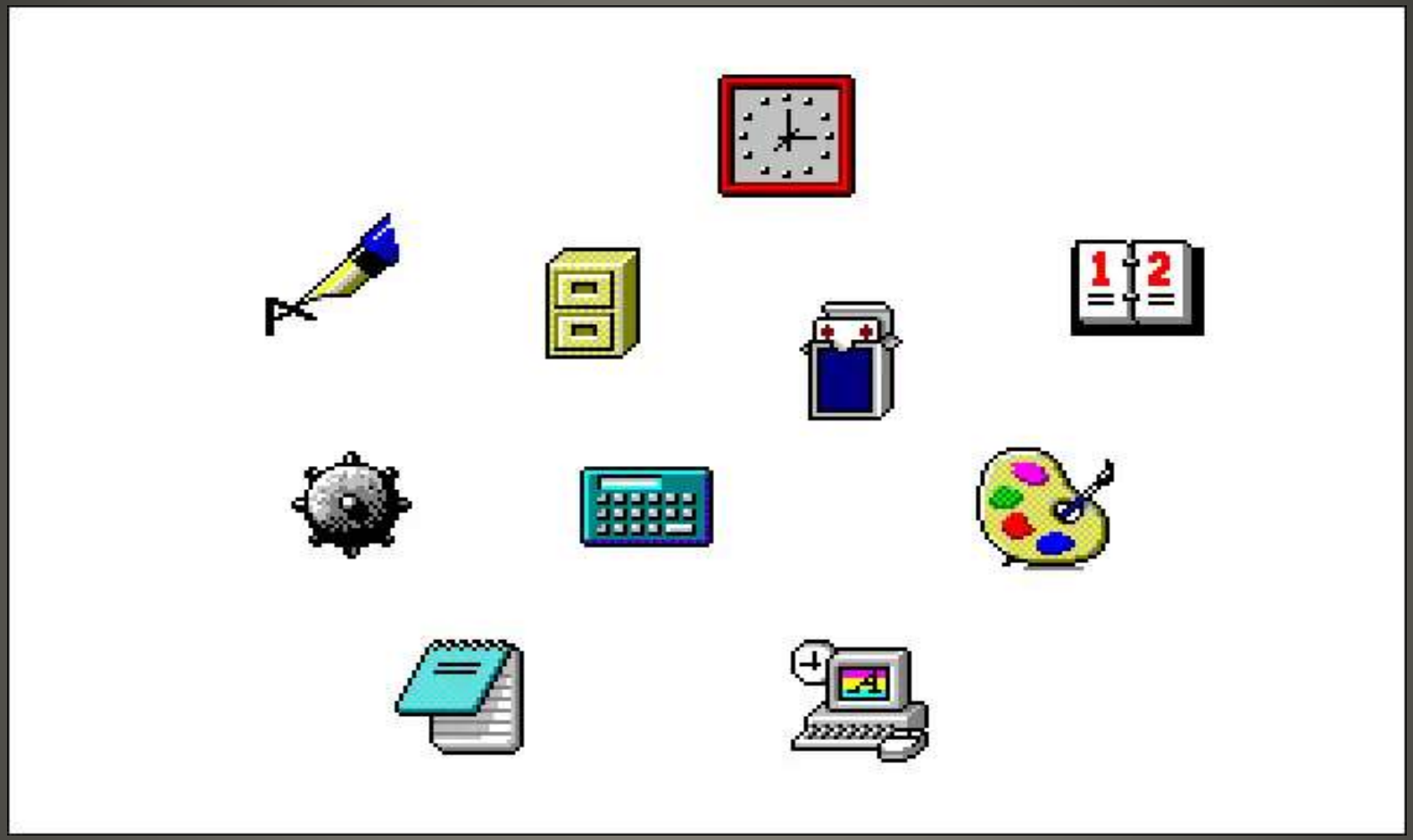

Inclusive Design Saved
Search
File Home Insert Draw Page Layout Formulas Data Review View Help
Designed to Amplify Saved
Search
File Home Insert Draw Design Transitions Animations Slide Show Review View Help
Simplicity Saved
Search
Insert Draw Design Layout References Mailings Review View Help
Calibri (Body)
VA Shared Design
Power & Simplicity
Experiences
built for focus
Achieving Focus: When technology communicates and



Windows



Windows 3.0 (1990)

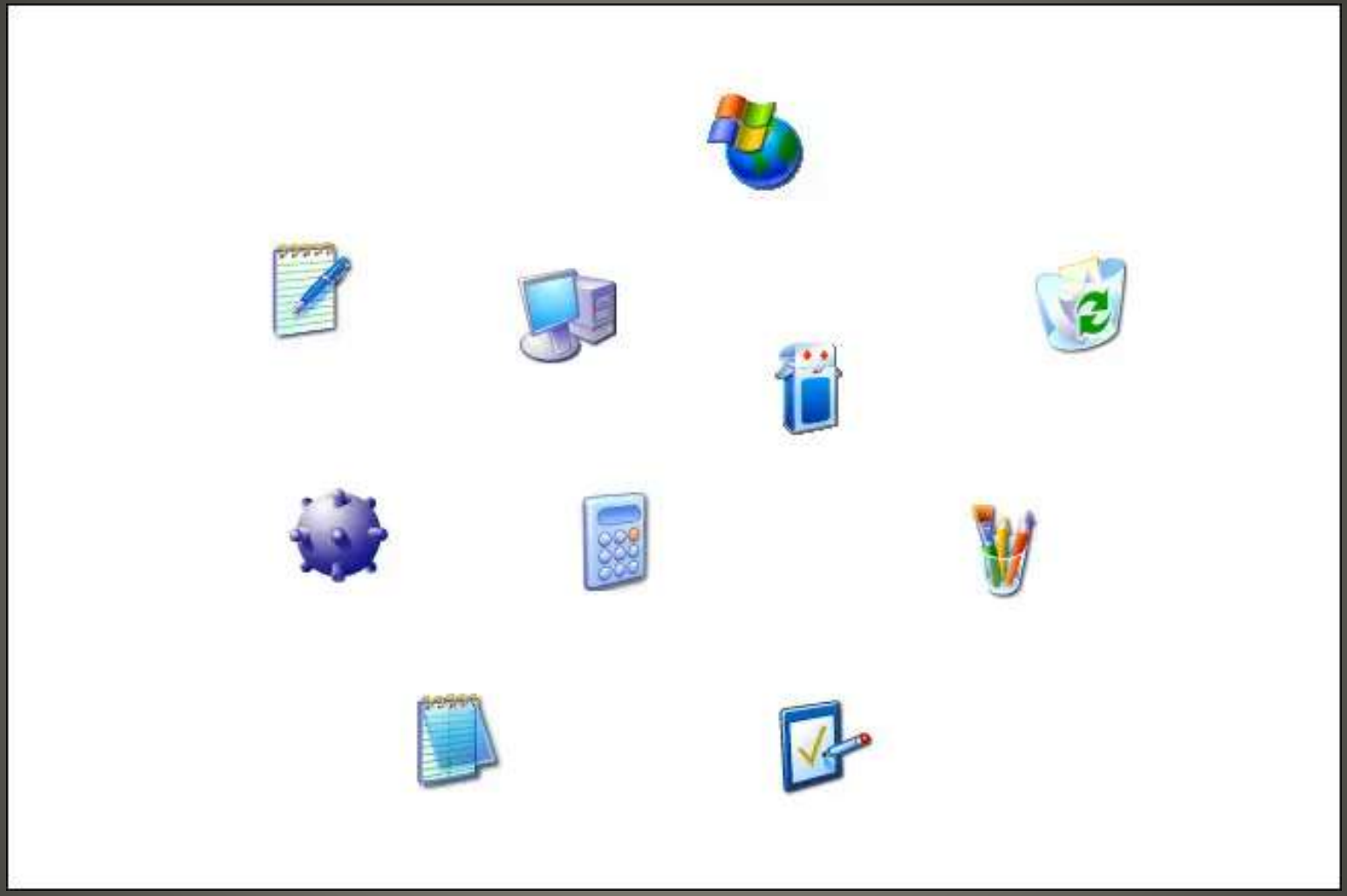


Windows 3.1 (1992)

Windows 95 (1995)

Windows 98 (1998)

Windows 2000 (2000)



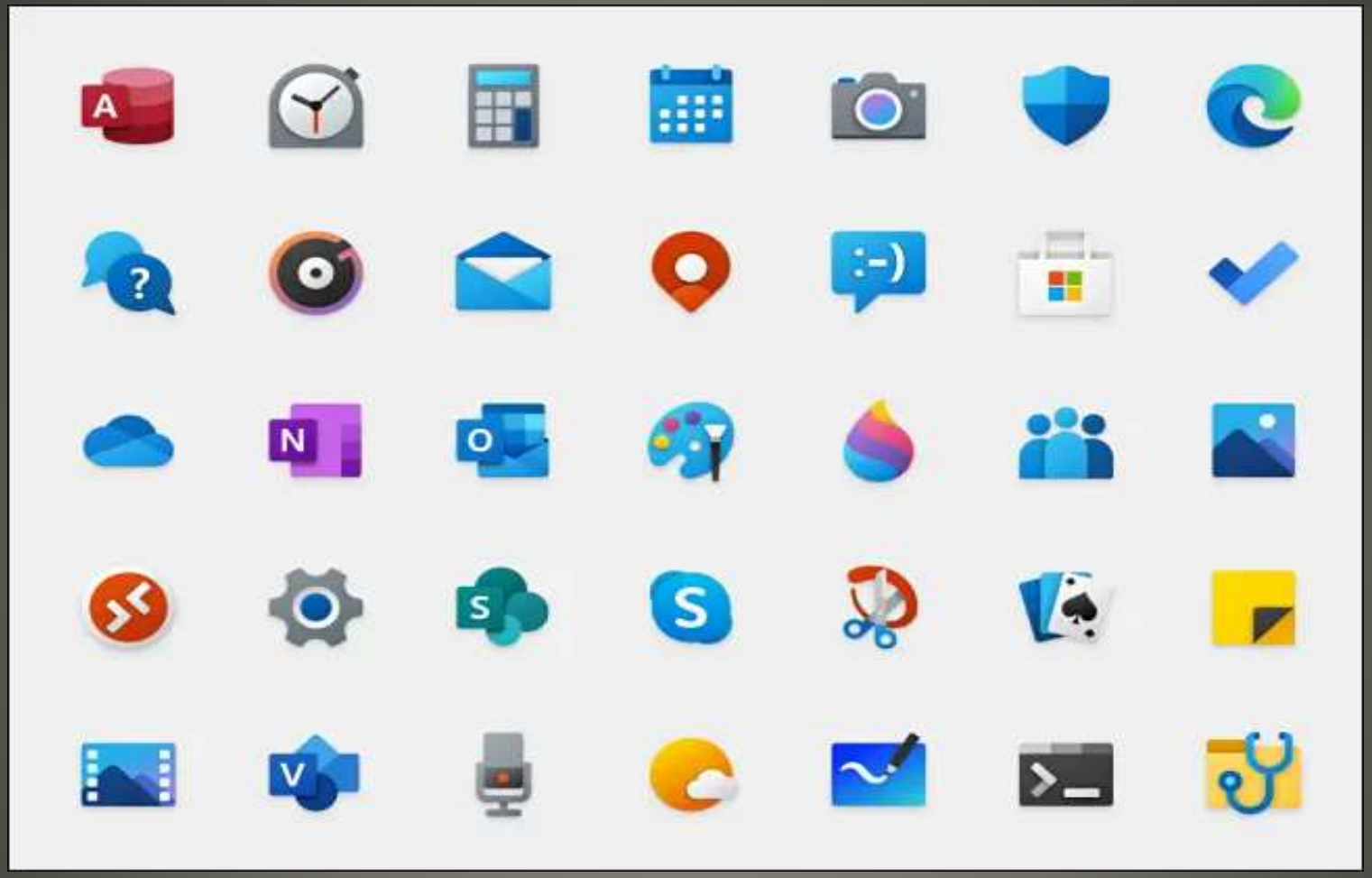
Windows XP (2001)

Windows Vista (2007)

Windows 7 (2009)

Windows 8 (2012)

Windows 10 (2015)



Windows 11 (2021) ?

Microsoft Office

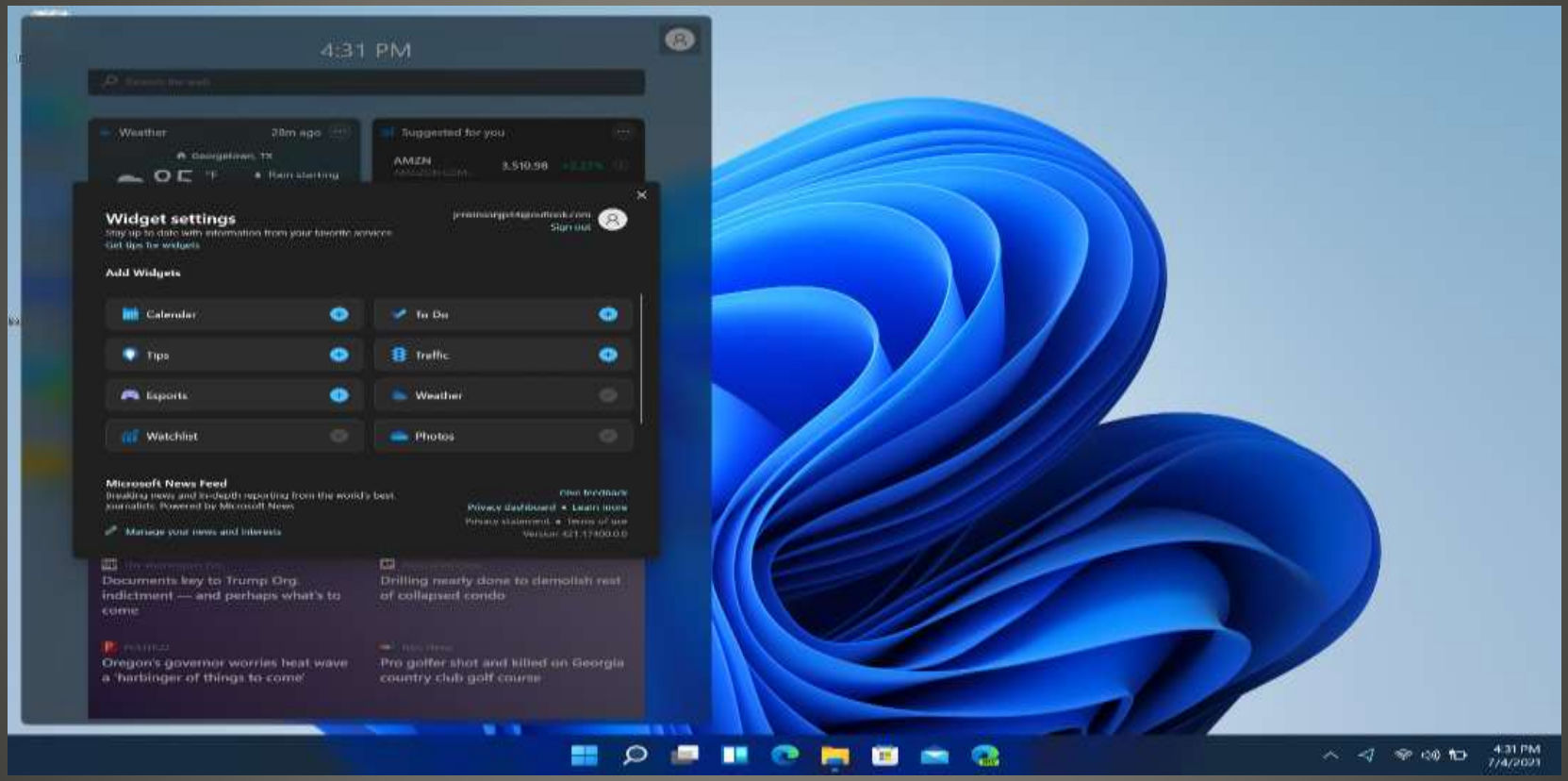
Microsoft Office

- Command ribbon colors
- Match Windows theme
- Word, Excel, PowerPoint, OneNote

  But not
- Outlook, Access, Project, Publisher, Visio

  yet

- AI powered update *News and Interest*

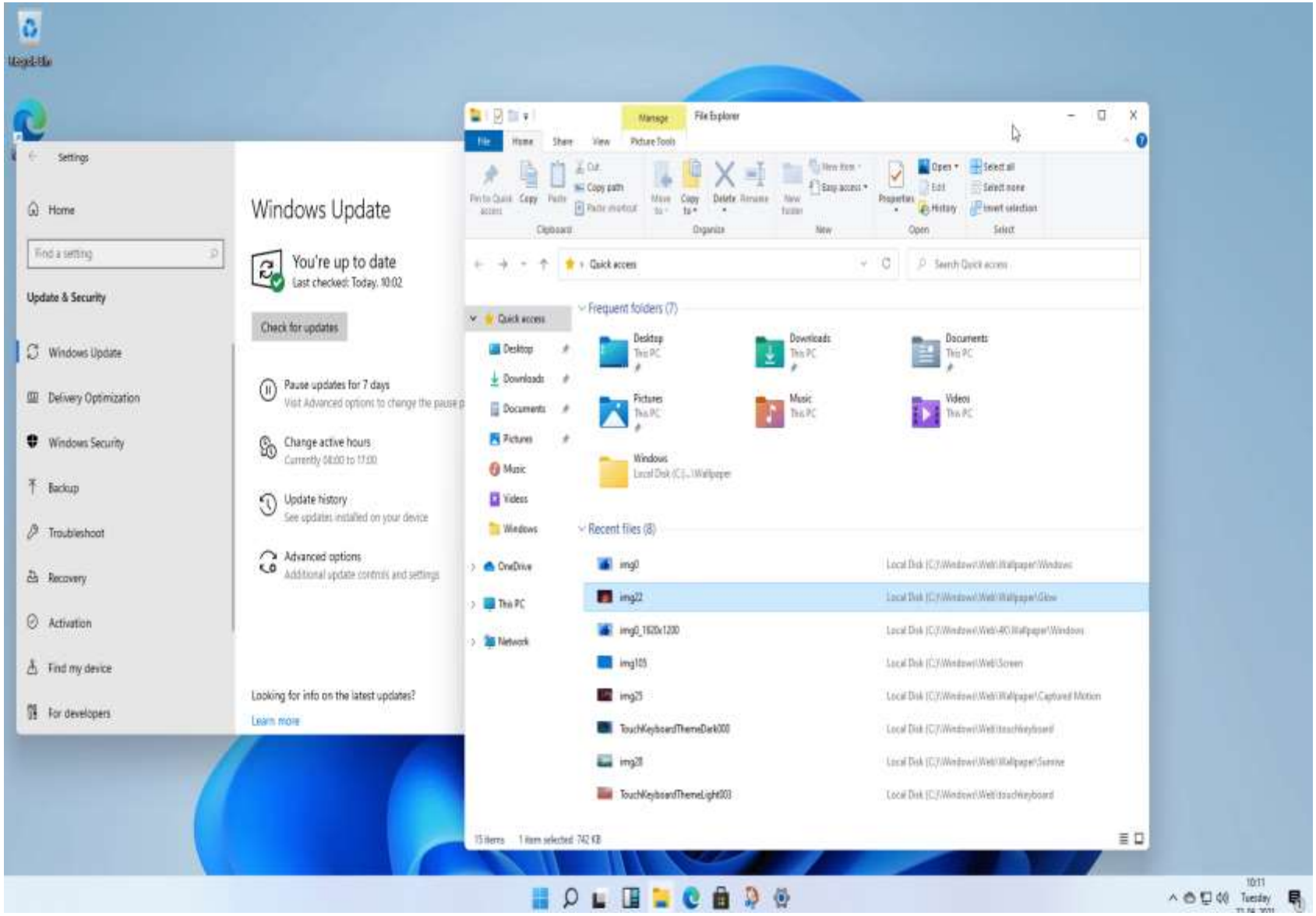


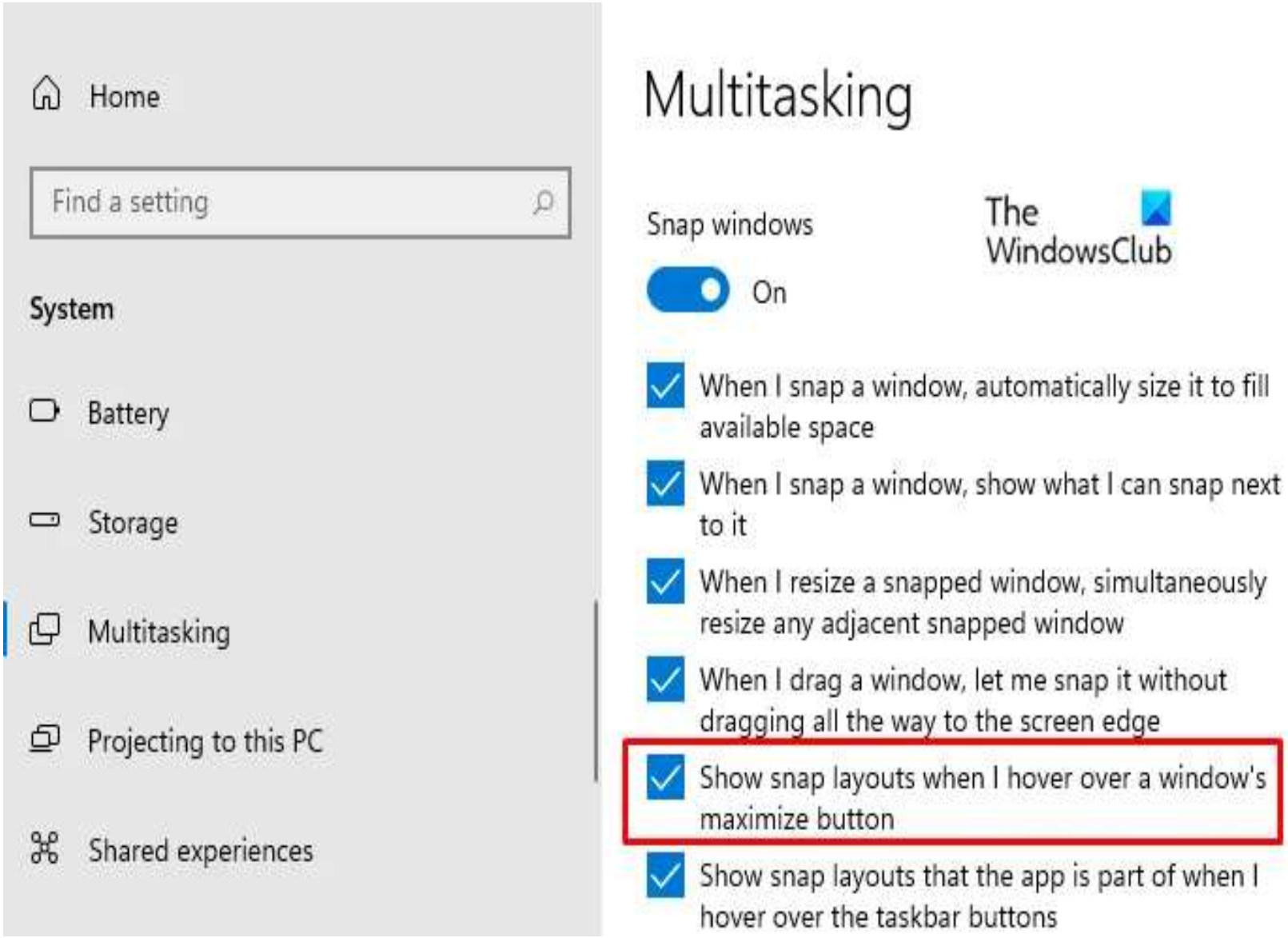
Widgets

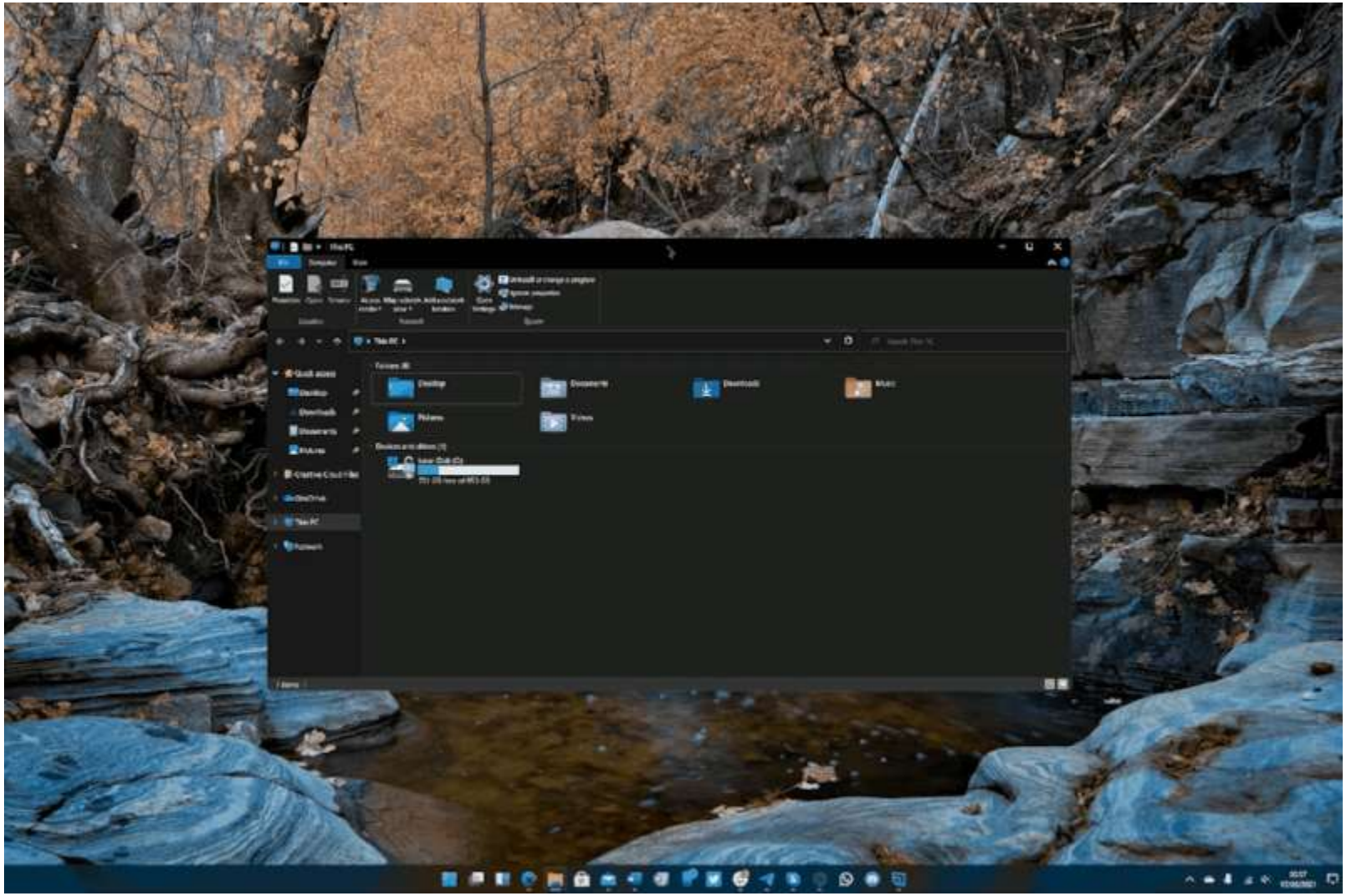
- Video chat platform - integration

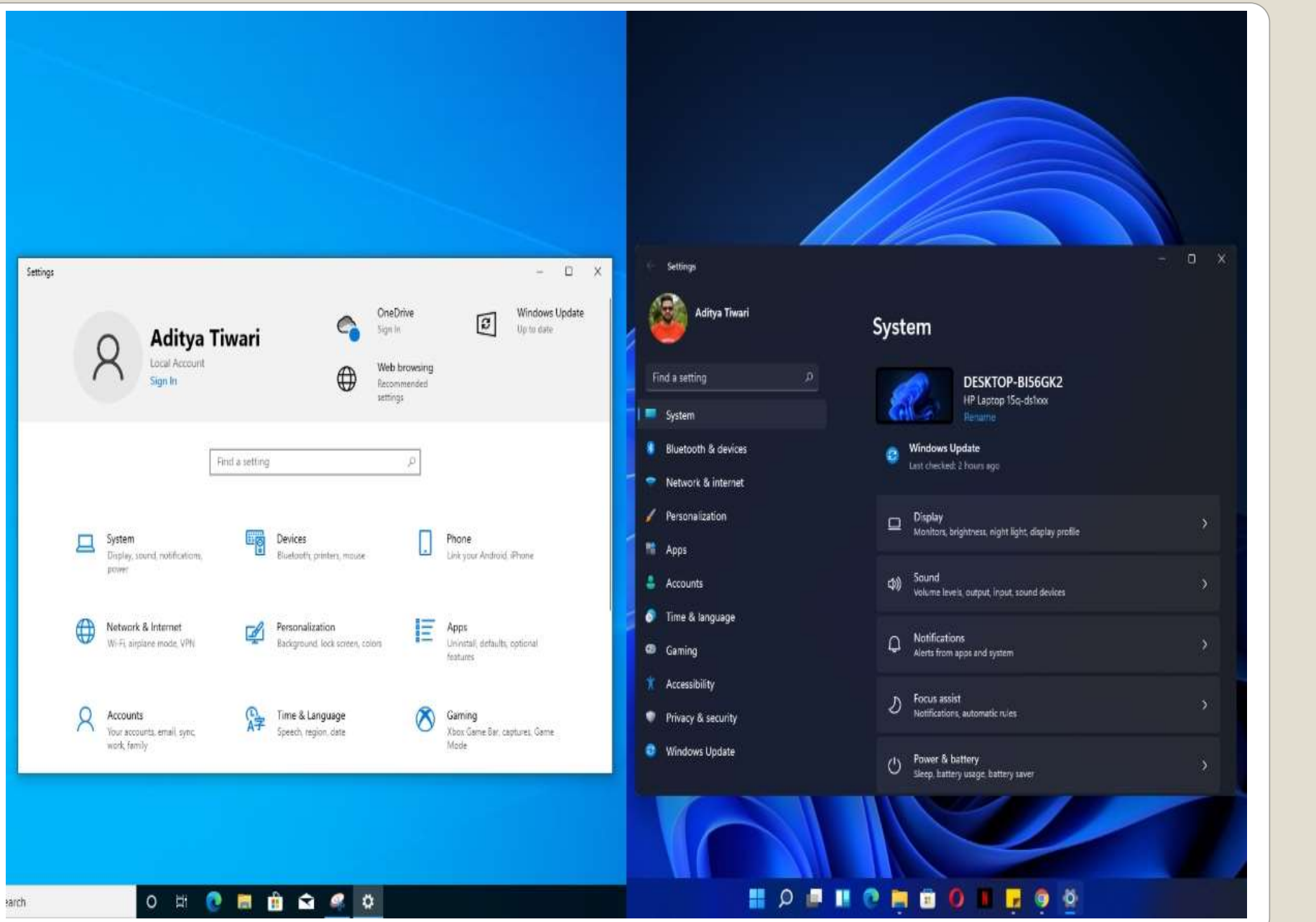
Teams

Virtual Desktops


Settings
Home
Find a setting
Update & Security
Windows Update
Delivery Optimization
Windows Security
Backup
Troubleshoot
Recovery
Activation
Find my device
For developers
Windows Update
You're up to date
Last checked: Today, 10:02
Check for updates
Pause updates for 7 days
Change active hours
Update history
Advanced options
Looking for info on the latest updates?
Learn more
File Explorer
Quick access
Frequent folders (7)
Desktop
Downloads
Documents
Pictures
Music
Videos
Windows
Recent files (8)
img0
img22
img105
img25
img28
15 items
1 item selected 742 KB


Home
Find a setting
System
Battery
Storage
Multitasking
Projecting to this PC
Shared experiences
Multitasking
Snap windows
The WindowsClub
On
When I snap a window, automatically size it to fill available space
When I snap a window, show what I can snap next to it
When I resize a snapped window, simultaneously resize any adjacent snapped window
When I drag a window, let me snap it without dragging all the way to the screen edge
Show snap layouts when I hover over a window's maximize button
Show snap layouts that the app is part of when I hover over the taskbar buttons




Settings
Aditya Tiwari
Local Account
Sign In
OneDrive
Sign In
Windows Update
Up to date
Web browsing
Recommended settings
Find a setting
System
Display, sound, notifications, power
Devices
Bluetooth, printers, mouse
Phone
Link your Android, iPhone
Network & Internet
Wi-Fi, airplane mode, VPN
Personalization
Background, lock screen, colors
Apps
Uninstall, defaults, optional features
Accounts
Your accounts, email, sync, work, family
Time & Language
Speech, region, date
Gaming
Xbox Game Bar, captures, Game Mode
Settings
Aditya Tiwari
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
System
DESKTOP-BI56GK2
HP Laptop 15q-ds1xxx
Rename
Windows Update
Last checked: 2 hours ago
Display
Monitors, brightness, night light, display profile
Sound
Volume levels, output, input, sound devices
Notifications
Alerts from apps and system
Focus assist
Notifications, automatic rules
Power & battery
Sleep, battery usage, battery saver

Windows Subsystem for Android

- Android Open Source Project (AOSP)
- Intel Bridge Technology

  Not required for AMD nor Arm

  Astoria Android project cancelled

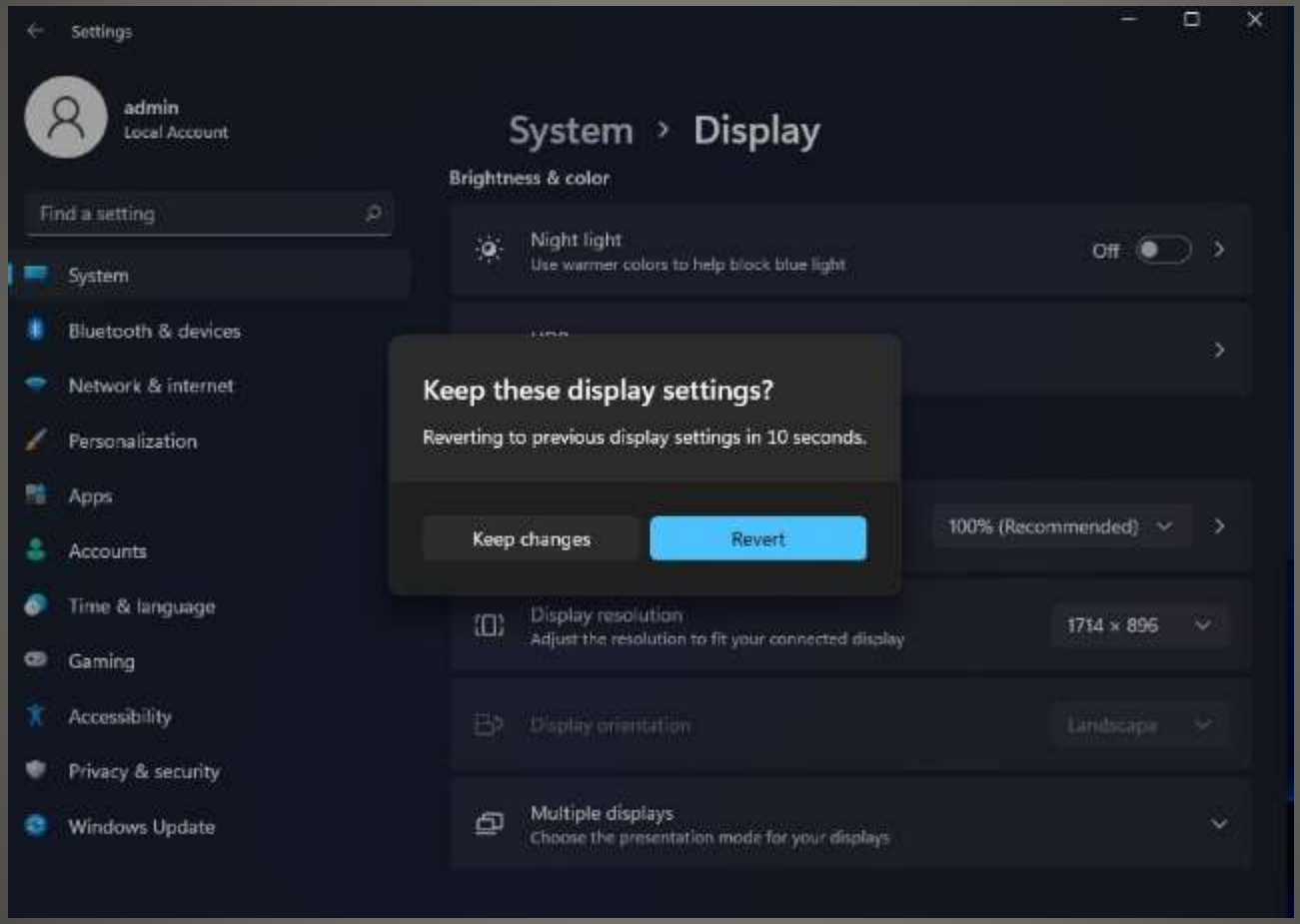
- 21196.1
- 22000.65

Windows 11 beta versions

- Registry setting now not working

Start Button -> Start menu

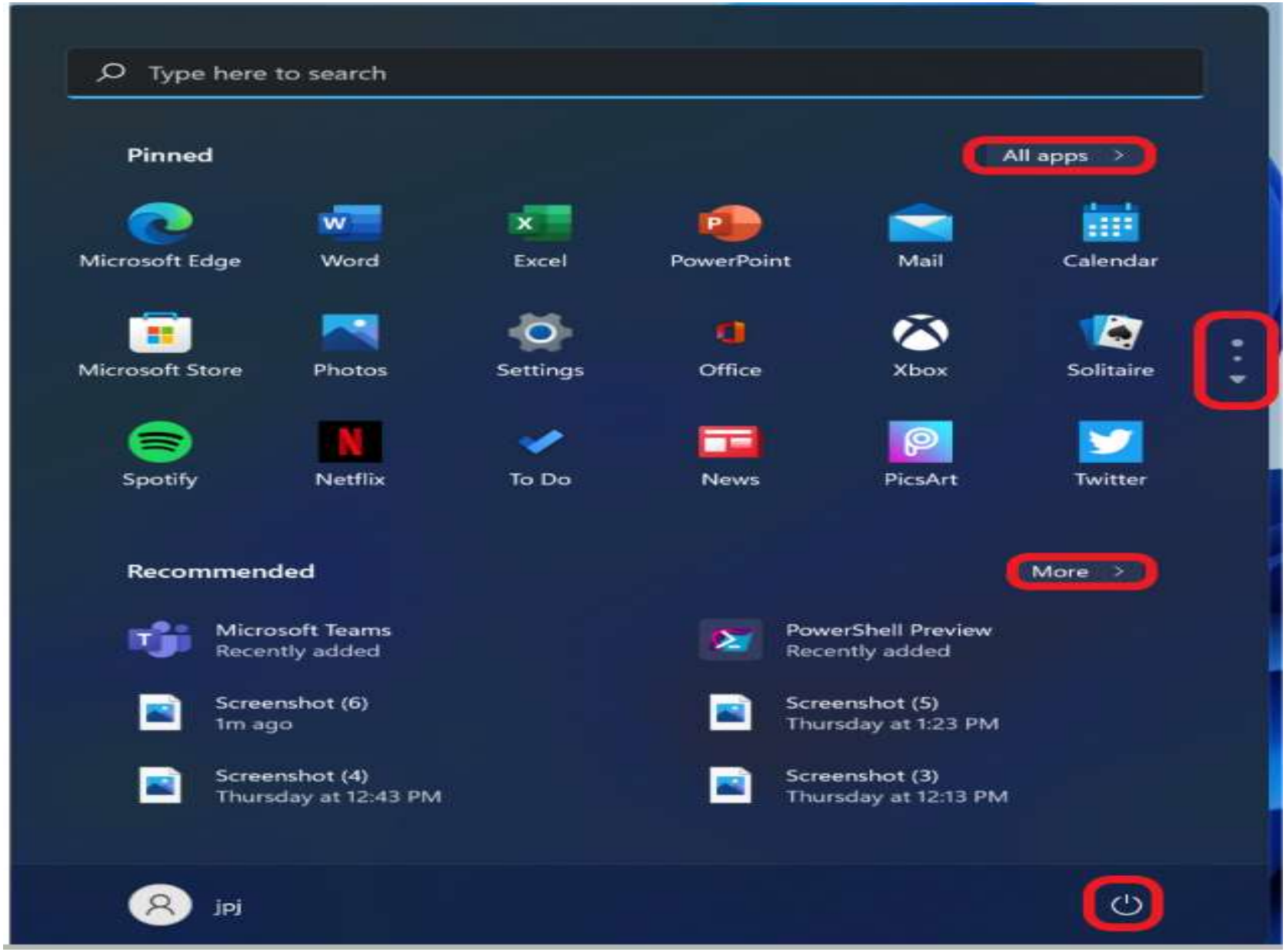
- Windows 8-era Metro UI -> WinUi



Alert dialog box

Settings
admin
Local Account
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
System › Power & battery
Make both times the same
Power
Screen and sleep
Power mode
Optimize your device based on power use and performance
Best power efficiency
Balanced
Best performance
Battery
Battery saver
Extend battery life by limiting some notifications and background activity
Turns on at 30%
Battery usage
Get help
Give feedback

Power Mode


Type here to search
Pinned
All apps
Microsoft Edge
Word
Excel
PowerPoint
Mail
Calendar
Microsoft Store
Photos
Settings
Office
Xbox
Solitaire
Spotify
Netflix
To Do
News
PicsArt
Twitter
Recommended
More
Microsoft Teams
Recently added
PowerShell Preview
Recently added
Screenshot (6)
1m ago
Screenshot (5)
Thursday at 1:23 PM
Screenshot (4)
Thursday at 12:43 PM
Screenshot (3)
Thursday at 12:13 PM
jpj

- None of us are as experienced as all of us
- Awareness, Preparedness, Understanding
- Participate
- Topic Suggestions
- Questions: scccwindows@gmail.com