Sun City Computer Club

Windows SIG

September 13, 2022 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
- In person meetings

Ever want to be a presenter??



Windows Update



Updates available Last checked: Today, 12:38 PM

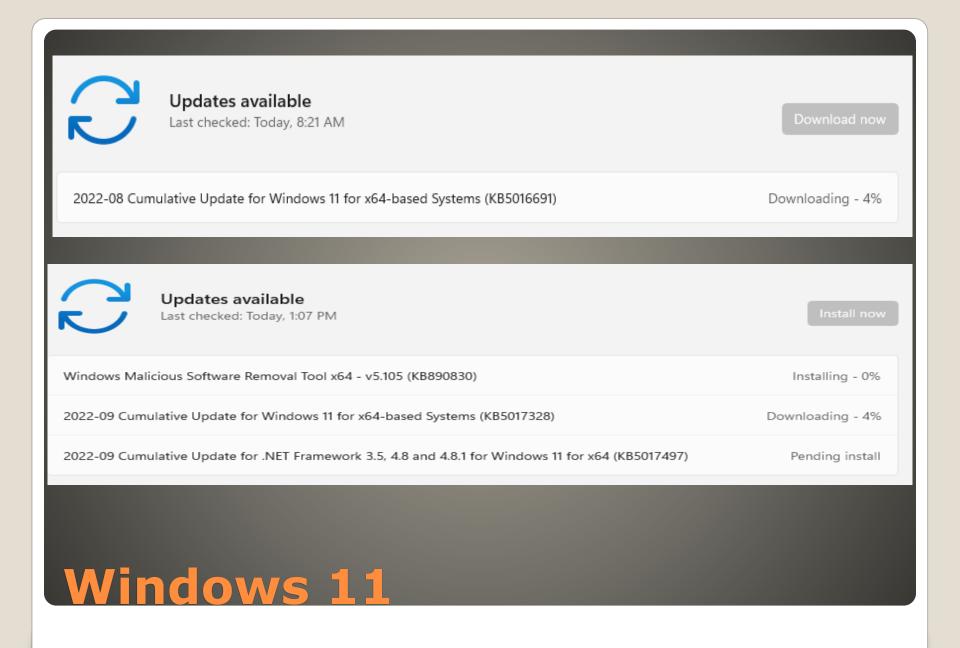
Windows Malicious Software Removal Tool x64 - v5.105 (KB890830) Status: Pending install

2022-09 .NET Core 3.1.29 Security Update for x64 Client (KB5017903) Status: Pending install

2022-09 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 21H2 for x64 (KB5017500) **Status:** Pending install

2022-09 Cumulative Update for Windows 10 Version 21H2 for x64-based Systems (KB5017308) Status: Downloading - 1%

Microsoft Update Tuesday



79 Vulnerabilities 5 Critical 2 Previously disclosed 1 Actively being exploited



Microsoft Windows Update Tuesday



BIOS UEFI

POST Power On Self Test
BIOS -> UEFI
BIOS Basic Input Output System Master Boot Record
UEFI Unified Extensible Firmware More features GUID Partition table Secure boot



Information PRIME B350-PLUS BIOS Ver. 5407 MD Ryzen 7 1700 Eight-Core Processor	CPU Temperature	VDDCR CPU Voltage 1.090 V Motherboard Temperal	► Frequency/V
ipeed: 3000 MHz Jemory: 4096 MB (DDR4 2133MHz)	47°C	37°C	Load Fail-S
DRAM Status DIMM_A1: N/A DIMM_A2: SK Http:k 4096MB 2133MHz		pn 7725050A7E630 (500.1GB) SSC2BW256H6 (256.0GB)	Load Optimi
umm_b1: n/a 63 umm_b2: n/a	SATA6G_4: Samsung	S41010A9E680 (1000.2G SSD 860 EVO 250GB (25 100_MTFDDAK512TBN	Set Supervi
).O.C.P.	SATA6G_6: SanDisk S M.2: N/A	spuilo 128GB (126 hagement Setup	Set User Pa
Disabled 🔻 Disabled		Configurations	Save & Exit
CPU FAN 2089 RPM	CPU FAN	alth Status	Exit Withou
Ochaz FAN N/A	50 0 30	Quit Save & Exit Setup	↑↓→← :Se
	QFan Con		e, Hard Disk Type



Global Partition Table (GPT)
Windows 11 Secure Boot and TPM TPM – Trusted Platform Module

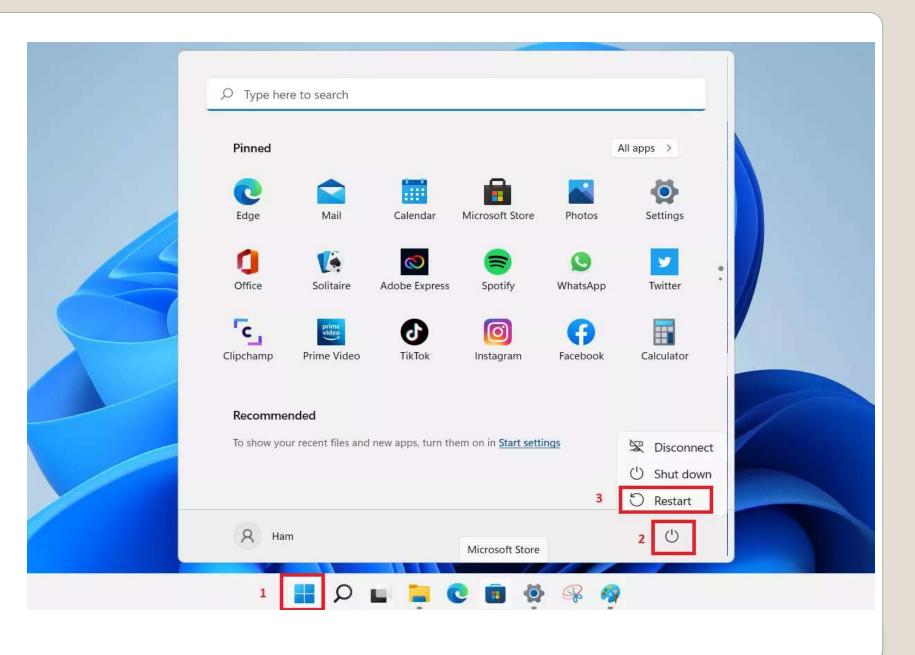
Convert MBR & BIOS -> UEFI

Option 1 Start menu Power Button Shift + Restart

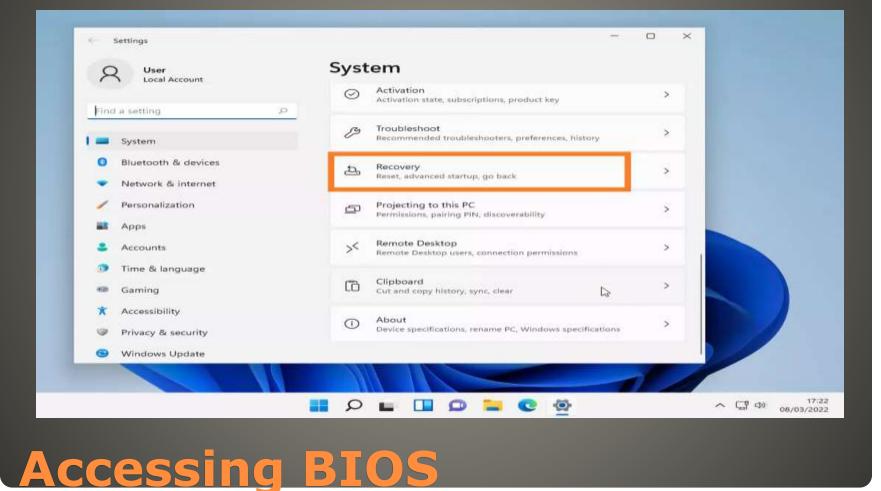
Power

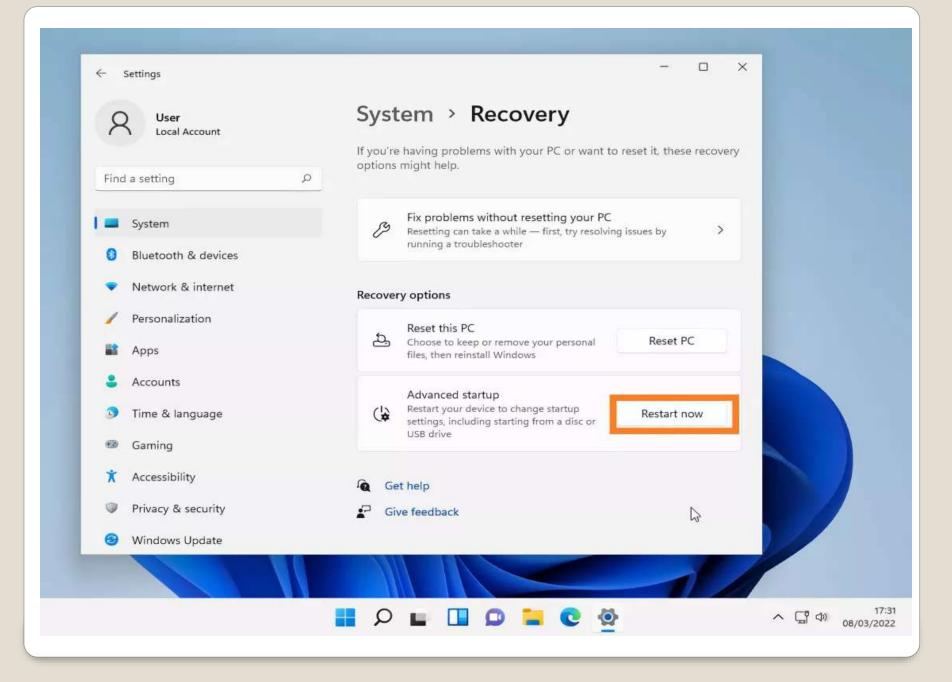
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Option 2 Windows Settings





After either Option 1 or 2

Choose an option



Continue Exit and continue to Windows 11

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Use a device Use a USB drive, network connection, or Windows recovery DVD

Troubleshoot Reset your PC or see advanced options



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Accessing BIOS

Choose an option



Continue Exit and continue to Windows 11





Use a device Use a USB drive, network connection, or Windows recovery DVD



Troubleshoot Reset your PC or see advanced options

Accessing BIOS

Advanced options



Startup Repair Fix problems that keep Windows from loading



Uninstall Updates Remove recently installed quality or feature updates from Windows



Startup Settings Change Windows startup behavior



UEFI Firmware Settings Change settings in your PC's UEFI firmware



Command Prompt Use the Command Prompt for advanced troubleshooting

See more recovery options

4

System Restore Use a restore point recorded on your PC to restore Windows

UEFI Firmware Settings

Restart to change UEFI firmware settings





Boot Manager	
Boot normally EFI UMware Virtual SATA Hard Drive (0.0) EFI UMware Virtual SATA CDROM Drive (1.0) EFI Network Enter setup Reset the system Shut down the system	Configure the firmware boot environment and options.
14=Move Highlight <enter>=Select Entry</enter>	
UEFI Restart YMM	





One Beep – good
No or multiple beeps – vendor documentation
BIOS – nonvolatile
CMOS Volatile user custom settings CMOS battery

BIOS Beep Codes

Colors, Animations, Mouse, Larger drives Secure Boot LARGE disk drives MBR Master Boot Record < 2TB GUID Partition Table (GPT) EUFI standard

Disk 1		
Use the following partition style for th	ne selected disks:	
○ GPT (GUID Partition Table) Note: The GPT partition style is not r Windows.	recognized by all previous	versions of



Pre-Release

Developer workstation in the Azure cloud
Windows Subsystem for Linux
Windows Subsystem for Android
Sizing 4 vCPUs & 16 GB 16 vCPUs & 128GB

Windows 365 Cloud PC \$20 -> \$163 per month

Microsoft Dev Box

XPS viewer

File format for digital documents Disabled by default Start > optional features > View features Select XPS viewer > Install -or-

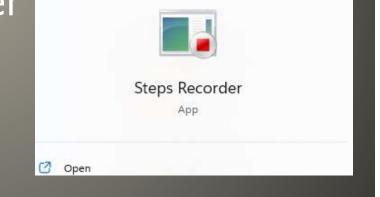
Search XPS Viewer

Clipboard Manager
 Not on by default
 Windows + V

			_	-		×
۲	:	GIF	;-)	%8 4+		
Clipbo	ard					
			6	3		
		í.				
		Turn o	e t's ge t n clipbo nd view	ard his		
		(non)	
-						

File History

Auto backup Files External drive Settings -> Control Panel
Search > Control Panel > File History
Steps Recorder
Records actions to slide show
Search > Step Recorder



Voice Typing Windows 11 Microphone Win + H

Windows Features

Give feedbackHelp us improve voice typing

The voice typing launcher lets you quickly access voice typing when you're in a text

Voice typing launcher

Auto punctuation

box.

09

Contributing voice clips helps us teach our speech technologies how people really talk.

Learn how to start contributing voice clips

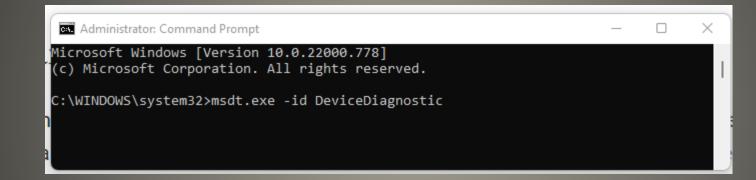
Powered by Microsoft Online Speech Tech



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Troubleshooter Removed from settings Windows 11 CMD msdt.exe –id DeviceDiagnostic





Hardware and Devices

Troubleshoot and help prevent computer problems

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Hardware and Devices Find and fix problems with devices and hardware.

Advanced

Publisher: Microsoft Corporation Privacy statement



System Configuration				×
General Boot Services Startup Tools				
Startup selection <u>N</u> ormal startup Load all device drivers and services				
 Diagnostic startup Load basic devices and services only 				
Selective startup Load system services				
Load startup items				
Use original boot configuration				
	ОК	Cancel	Apply	Help

Windows 11 (C:\WINDOWS) : Curi	rent OS; Default OS	
Advanced options	t as default <u>D</u> elete	
Boot options		<u>T</u> imeout:
🗌 Sa <u>f</u> e boot	No GUI boot	30 seconds
○ Minimal	Boot log	
O Alternate shell	🔲 Bas <u>e</u> video	
Active Directory regain	OS boot information	Make all boot settings permanent
Network		permanent

👰 System Configuration \times Services Startup Tools General Boot Manufacturer Status Date Disabled Service AllJoyn Router Service Microsoft Corporation Stopped Application Layer Gateway Service Microsoft Corporation Stopped Application Identity Microsoft Corporation Stopped Application Management Microsoft Corporation Stopped App Readiness Microsoft Corporation Stopped AppX Deployment Service (AppX... Microsoft Corporation Running AssignedAccessManager Service Microsoft Corporation Stopped Windows Audio Endpoint Builder Microsoft Corporation Runnina Windows Audio Microsoft Corporation Runnina Microsoft Corporation Cellular Time Stopped ActiveX Installer (AxInstSV) Microsoft Corporation Stopped BitLocker Drive Encryption Service Microsoft Corporation Stopped Note that some secure Microsoft services may not be disabled. Enable all Disable all Hide all Microsoft services OK Cancel Apply Help

System Configuration		×			
General Boot Services St	artup Tools				
Tool Name	Description				
About Windows	Display Windows version information.				
Change UAC Settings	Change User Account Control settings.				
Security and Maintenance	Open Security and Maintenance.				
Windows Troubleshooting	Troubleshoot problems with your computer.				
Computer Management	View and configure system settings and components.				
System Information	View advanced information about hardware and software settings.				
Event Viewer	View monitoring and troubleshooting messages.				
Programs	Launch, add or remove programs and Windows components.				
System Properties	View basic information about your computer system settings.				
Selected command:					
C:\WINDOWS\system32\winv	er eve				
C. WINDOWS Bystemsz (Win	el.exe	_			
	Launch				
	OK Cancel Apply Help				
		-			

System Configuration

Tool Name		Description					
System Properties Internet Options Internet Protocol Configurat		View basic information about your computer system settings. View Internet Properties.					
					Performance N	-	Monitor the performance of local or remote computers.
					Resource Monitor Task Manager Command Prompt		Monitor the performance and resource usage of the local computer. View details about programs and processes running on your computer. Open a command prompt window.
Registry Editor	r	Make changes to the Windows registry.					
Remote Assistance		Receive help from (or offer help to) a friend over the Internet.					

OK

Cancel

Apply

Help

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winget

Windows Package Manager

Administrator: Command Prompt

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The winget command line utility enables installing applications and other packages from the command line.

usage: winget [<command>] [<options>]

The following commands are available:

install	Installs the given package
show	Shows information about a package
source	Manage sources of packages
search	Find and show basic info of packages
list	Display installed packages
upgrade	Shows and performs available upgrades
uninstall	Uninstalls the given package
hash	Helper to hash installer files
validate	Validates a manifest file
settings	Open settings or set administrator settings
features	Shows the status of experimental features
export	Exports a list of the installed packages
import	Installs all the packages in a file

or more details on a specific command, pass it the help argument. [-?]

The following options are available:

-v,--version Display the version of the tool --info Display general info of the tool

Nore help can be found at: https://aka.ms/winget-command-help

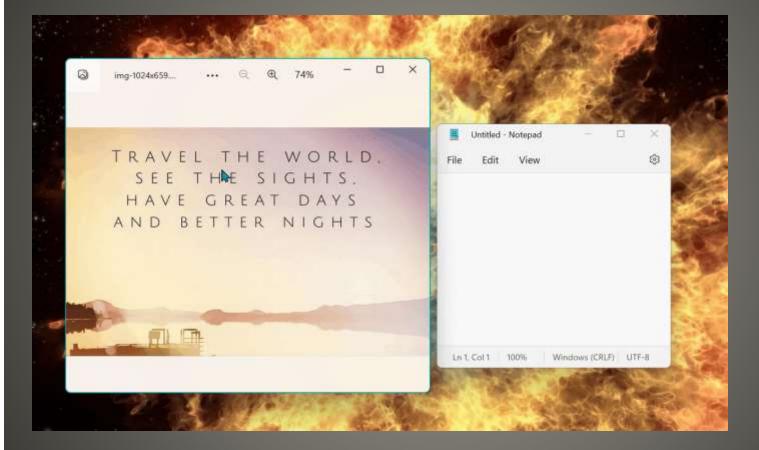
C:\WINDOWS\system32>



Windows Media Player
Taskbar Hotkeys Win + <number along taskbar>
Old Volume Mixer Win + X Run sndvol.exe

Windows Features

PowerOCR



Potential future PowerToys

Transferrable? OEM Discount Maby Windows versions prior to 10 Upgrade "trick" ONLY Authorized vendors Microsoft & Amazon Use their sites to view license key How to Transfer a Windows 10 or 11 License to Another PC | Tom's

Hardware (tomshardware.com)

Transfer Microsoft Windows

Moments "feature" updates

Windows Update future

 XP, Vista unusable post trial period Users got cracked license keys • Usable not Activated No Security Updates Delay for new features Screen watermark Reminders Less customization settings Upgrades may not be free Legal recourse

Un Activated use

Screen Reader Many other options If you need screen reader otherwise Control + Windows + Enter

Welcome to Narrator

This is Narrator Home, where you can get help, access your settings, and learn about new features. Narrator is a screen reader that describes aloud what's on your screen, so you can use that information to navigate your device. To start or stop Narrator, press the **Windows logo key + Ctrl + Enter**. Explore the sections below to get started.



QuickStart Learn the basics of Narrator.



Narrator guide View the complete Narrator guide online.



What's new Get an overview of new and updated features.



Settings Customize Narrator, Press Windows logo key + Ctrl + N to access settings anytime.



Feedback Help improve Narrator, Press Narrator key + Alt + F to give feedback anytime.



Settings > Accessibility > Narrator

Accessibility > Narrator

Use Narrator

\$	Narrator	off 💽 ~
	Keyboard shortcut for Narrator Press the Windows logo key 器 + Ctrl + Enter to turn Narrator on and off	On 🥌
G	Narrator Home Get help, access settings, and learn about new Narrator features	~
0	Complete guide to Narrator	Ø
Narrato	r's voice	
ප	Voice	Microsoft David - English (United States) 🛛 🛩
¢	Add voices	>
12%	Speed	

Narrator

Malware deployment method
.EXE .DLL .SYS
File path
Hash match
Dropped from specific executables i.e.. Office modules via macros

Sysmon ability to block malicious .exe from creation

Microsoft Store
Microsoft Sysinternals sysmon -s
Sysmon schema



<Sysmon schemaversion="4.82"> <EventFiltering> <RuleGroup name="" groupRelation="or"> <FileBlockExecutable onmatch="include"> <Image name="technique id=T1105,technique name=Ingress Tool</pre> Transfer" condition="image">excel.exe</Image> <Image name="technique id=T1105,technique name=Ingress Tool</pre> Transfer" condition="image">winword.exe</Image> <Image name="technique id=T1105,technique name=Ingress Tool</pre> Transfer" condition="image">powerpnt.exe</Image> <Image name="technique id=T1105,technique name=Ingress Tool</pre> Transfer" condition="image">outlook.exe</Image> <Image name="technique id=T1105,technique name=Ingress Tool</pre> Transfer" condition="image">msaccess.exe</Image> <Image name="technique id=T1105,technique name=Ingress Tool</pre> Transfer" condition="image">mspub.exe</Image> </FileBlockExecutable> </RuleGroup> </EventFiltering> </Sysmon>

Example block Office created executables

sysmon -i msoffice-fileblock.xml

Event Properties - Event 27, Sysmon General Details File Block Executable: RuleName: -UtcTime: 2022-08-18 00:53:23.834 ProcessGuid: (3e1eed65-8cdf-62fd-1e08-000000002500) ProcessId: 2524 User: DESKTOP-VOVU527\cus Image: C:\WINDOWS\system32\cmd.exe TargetFilename: C:\ProgramData\notepad.exe Hashes: SHA256=0D54DA710565A3820860BE8DF519DF62458E9A997BED3C6925665268ECC1086F Log Name: Microsoft-Windows-Sysmon/Operational Source: Logged: Sysmon 8/17/2022 8:53:23 PM Event ID: 27 Task Category: File Block Executable (rule: FileBlockExecutable) Level: Information Keywords: User: SYSTEM Computer: DESKTOP-VOVU527 OpCode: Info

Copy

Close

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*

sysmon

More Information: Event Log Online Help

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Mica	-	o ×

Screen Ruler measure pixels on your screen
Quick Accent write letters with accents
Text Extractor copy text from region with OCR



🔜 Welcome to PowerToys

General

- 📱 🛛 Always On Top
- Awake
- 👔 🖸 Color Picker
- FancyZones
- File Explorer add-ons
- 🗿 🛛 Image Resizer
- Keyboard Manager
- Mouse utilities
- 🛒 PowerRename
- 👨 🛛 PowerToys Run
- Quick Accent
- 🥙 Screen Ruler
- 📑 🛛 Shortcut Guide
- Text Extractor

What's new

See more detailed release notes on GitHub

Release v0.62.0

In the v0.62 release cycle, we focused on releasing three new PowerToys.

Highlights

- · New utility: Screen Ruler is a quick and easy way to measure pixels on your screen.
- · New utility: Quick Accent is an easy way to write letters with accents. Thanks @damienleroy!
- New utility: Text Extractor works like Snipping Tool, but copies the text out of the selected region using OCR and
 puts it on the clipboard. Thanks @TheJoeFin!
- · PowerToy Run ships with a new Plugin letting you search in past query results. Thanks @jefflord!

Known issues

- · The Text Extractor utility fails to recognize text in some cases on ARM64 devices running Windows 10.
- After installing PowerToys, the new Windows 11 context menu entries for PowerRename and Image Resizer might not appear before a system restart.
- There are reports of users who are <u>unable to open the Settings window</u>. This is being caused by incompatibilities
 with some applications (RTSS RivaTuner Statistics Server and MSI AfterBurner are known examples of this). If
 you're affected by this, please check the linked issue to verify if any of the presented solutions works for you.

General

- Added a new utility: Screen Ruler.
- · Added a new utility: Quick Accent. Thanks @damienleroy!
- Added a new utility: Text Extractor. Thanks <u>@TheJoeFin</u>!
- Upgraded the Windows App SDK runtimes to 1.1.4.

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```
Administrator: Command Prompt
```

```
C:\WINDOWS\system32>powercfg /a
The following sleep states are available on this system:
   Standby (S0 Low Power Idle) Network Connected
   Hibernate
   Fast Startup
The following sleep states are not available on this system:
   Standby (S1)
       The system firmware does not support this standby state.
       This standby state is disabled when S0 low power idle is supported.
   Standby (S2)
       The system firmware does not support this standby state.
       This standby state is disabled when S0 low power idle is supported.
   Standby (S3)
       The system firmware does not support this standby state.
       This standby state is disabled when S0 low power idle is supported.
   Hybrid Sleep
       Standby (S3) is not available.
```

C:\WINDOWS\system32>



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

Questions: scccwindows@gmail.com

