



A Free Software To Help See What Automatically Runs

# Features Include:








- Being able to see what runs automatically
- Being able to change what runs automatically
- Being able to sort through different program categories
- Being able to start right after downloading
- Being able to scan for viruses
- Very helpful help menu
- And more!

# Easy To Download And Start

Just find somewhere to download Autoruns from, such as [“https://download.cnet.com/utilities-sys/windows/”](https://download.cnet.com/utilities-sys/windows/), and then unzip the folder.

You'll probably want to run Autoruns64.exe.

This PC > Downloads > Autoruns

Name	Date modified	Type	Size
 autoruns.chm	4/11/2022 6:42 AM	Compiled HTML ...	50 KB
 Autoruns.exe	4/11/2022 6:42 AM	Application	714 KB
 Autoruns64.dll	4/11/2022 6:42 AM	Application exten...	731 KB
 <b>Autoruns64.exe</b>	4/11/2022 6:42 AM	Application	838 KB
 autorunsc.exe	4/11/2022 6:42 AM	Application	632 KB
 autorunsc64.exe	4/11/2022 6:42 AM	Application	744 KB
 Eula.txt	4/11/2022 6:42 AM	Text Document	8 KB

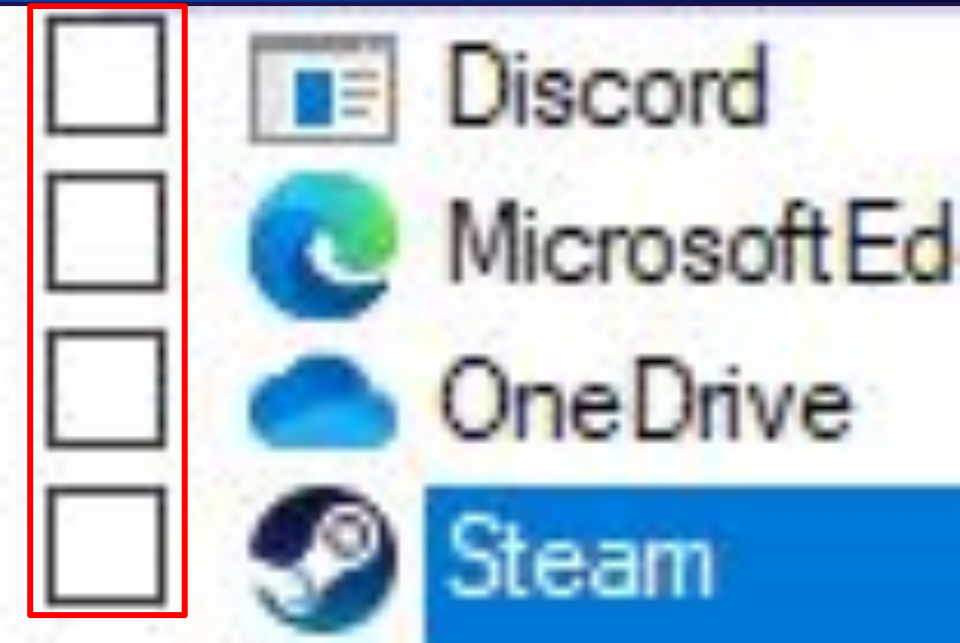
# The Main Menu

The large list shows everything that will automatically run.

Autorun Entry	Description	Publisher	Image Path	Timestamp	Virus Total
HKLM\SYSTEM\CurrentControlSet\Control\SafeBoot\AlternateShell				12/7/2019 2:15 AM	
<input checked="" type="checkbox"/> cmd.exe	Windows Command Processor	(Verified) Microsoft Windows	c:\windows\system32\cmd.exe	12/10/1953 7:58 PM	
HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run				4/12/2022 5:29 AM	
<input checked="" type="checkbox"/> MicrosoftEdgeAutoLau...	Microsoft Edge	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	4/6/2022 1:57 PM	
<input checked="" type="checkbox"/> OneDrive	Microsoft OneDrive	(Verified) Microsoft Corporation	c:\users\ash\appdata\local\microsof...	4/3/1981 10:12 AM	
<input checked="" type="checkbox"/> Steam	Steam	(Verified) Valve Corp.	c:\program files (x86)\steam\steam.exe	3/14/2022 12:50 PM	
HKLM\SOFTWARE\Microsoft\Active Setup\Installed Components				4/11/2022 6:41 AM	
<input checked="" type="checkbox"/> Google Chrome	Google Chrome Installer	(Verified) Google LLC	c:\program files\google\chrome\appli...	4/1/2022 10:09 AM	
<input checked="" type="checkbox"/> Microsoft Edge	Microsoft Edge Installer	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	4/6/2022 1:57 PM	
<input checked="" type="checkbox"/> n/a	Microsoft .NET IE SECURITY REGIS...	(Verified) Microsoft Corporation	c:\windows\system32\mscories.dll	10/24/2019 8:45 PM	
HKLM\SOFTWARE\Wow6432Node\Microsoft\Active Setup\Installed Components				10/6/2021 6:45 AM	
<input checked="" type="checkbox"/> n/a	Microsoft .NET IE SECURITY REGIS...	(Verified) Microsoft Corporation	c:\windows\syswow64\mscories.dll	10/25/2019 1:48 AM	
HKLM\Software\Microsoft\Windows\CurrentVersion\Explorer\Browser Helper Objects				4/11/2022 9:25 AM	
<input checked="" type="checkbox"/> IEToEdge BHO	IEToEdge BHO	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	4/6/2022 1:57 PM	
HKLM\Software\Wow6432Node\Microsoft\Windows\CurrentVersion\Explorer\Browser Helper Objects				4/11/2022 9:25 AM	
<input checked="" type="checkbox"/> IEToEdge BHO	IEToEdge BHO	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	4/6/2022 1:57 PM	
Task Scheduler					
<input checked="" type="checkbox"/> \OneDrive Reporting Ta...	Standalone Updater	(Verified) Microsoft Corporation	c:\users\ash\appdata\local\microsof...	2/24/1915 10:30 PM	
<input checked="" type="checkbox"/> \OneDrive Standalone ...	Standalone Updater	(Verified) Microsoft Corporation	c:\users\ash\appdata\local\microsof...	2/24/1915 10:30 PM	
HKLM\System\CurrentControlSet\Services				4/12/2022 5:29 AM	
<input checked="" type="checkbox"/> edgeupdate	Microsoft Edge Update Service (edg...	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	7/21/2021 6:16 PM	
<input checked="" type="checkbox"/> edgeupdatem	Microsoft Edge Update Service (edg...	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	7/21/2021 6:16 PM	
<input checked="" type="checkbox"/> GoogleChromeElevation...	Google Chrome Elevation Service (G...	(Verified) Google LLC	c:\program files\google\chrome\appli...	4/1/2022 10:09 AM	
<input checked="" type="checkbox"/> gupdate	Google Update Service (gupdate): K...	(Verified) Google LLC	c:\program files (x86)\google\update...	1/6/2022 4:08 PM	
<input checked="" type="checkbox"/> gupdatem	Google Update Service (gupdatem): ...	(Verified) Google LLC	c:\program files (x86)\google\update...	1/6/2022 4:08 PM	
<input checked="" type="checkbox"/> MicrosoftEdgeElevation...	Microsoft Edge Elevation Service (Mi...	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	4/6/2022 1:57 PM	
<input checked="" type="checkbox"/> Steam Client Service	Steam Client Service: Steam Client 4...	(Verified) Valve Corp.	c:\program files (x86)\common files\s...	3/14/2022 12:49 AM	
<input checked="" type="checkbox"/> WdNisSvc	Microsoft Defender Antivirus Network...	(Not verified) Microsoft Corporation	c:\programdata\microsoft\windows d...	11/7/1913 11:25 AM	
<input checked="" type="checkbox"/> WinDefend	Microsoft Defender Antivirus Service...	(Not verified) Microsoft Corporation	c:\programdata\microsoft\windows d...	11/2/1954 7:00 PM	
HKLM\System\CurrentControlSet\Services				4/12/2022 5:29 AM	
<input checked="" type="checkbox"/> BthA2dp	Microsoft Bluetooth A2dp driver: Blue...	(Not verified) Microsoft Corporation	c:\windows\system32\drivers\btha2...	11/16/2033 3:59 PM	
<input checked="" type="checkbox"/> BthHEnum	Microsoft Bluetooth Hands-Free Profil...	(Not verified) Microsoft Corporation	c:\windows\system32\drivers\bthhfe...	6/6/1910 6:31 AM	
<input checked="" type="checkbox"/> iaLPSPI_GPIO	Intel(R) Serial IO GPIO Controller Drv...	(Verified) Intel Corporation - Client Co...	c:\windows\system32\drivers\valpssi...	2/2/2015 2:00 AM	
HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Font Drivers				12/7/2019 2:17 AM	
<input checked="" type="checkbox"/> Adobe Type Manager			File not found: atmf.dll		
HKLM\SOFTWARE\Classes\Htmfile\Shell\Open\Command(Default)				4/11/2022 10:23 AM	
<input checked="" type="checkbox"/> C:\Program Files\Inteme... Internet Explorer		(Verified) Microsoft Corporation	c:\program files\internet explorer\exp...	8/21/1946 10:07 AM	
HKLM\System\CurrentControlSet\Control\Session Manager\KnownDlls				12/7/2019 2:15 AM	
<input checked="" type="checkbox"/> _wow64cpu			c:\windows\syswow64\wow64cpu.dll		
<input checked="" type="checkbox"/> _wowamhw			c:\windows\system32\wowamhw.dll		
<input checked="" type="checkbox"/> _wowamhw			c:\windows\syswow64\wowamhw.dll		
<input checked="" type="checkbox"/> _xtajit			c:\windows\system32\xtajit.dll		
<input checked="" type="checkbox"/> _xtajit			c:\windows\syswow64\xtajit.dll		
<input checked="" type="checkbox"/> wow64			c:\windows\syswow64\wow64.dll		
<input checked="" type="checkbox"/> wow64win			c:\windows\syswow64\wow64win.dll		

# Disabling An Application

You can uncheck a box to stop something running on startup.



# Sorting By Category

You can sort  
by category  
clicking the  
tabs above  
the list.

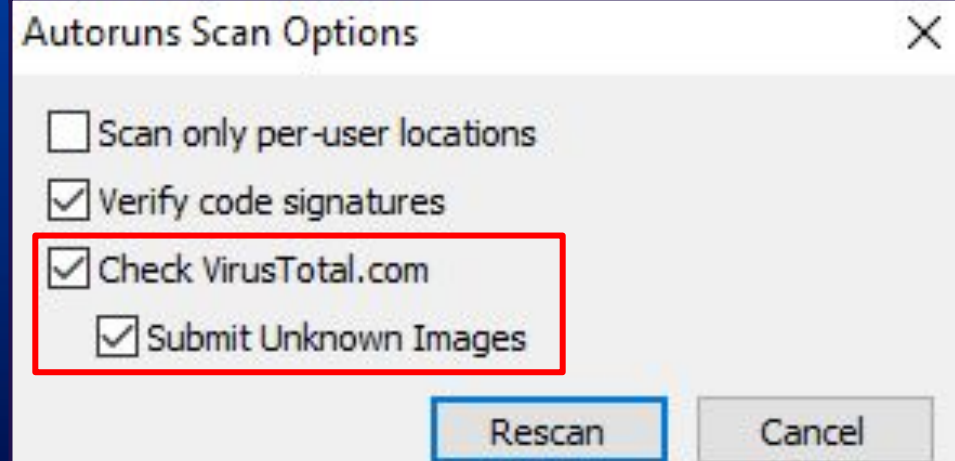
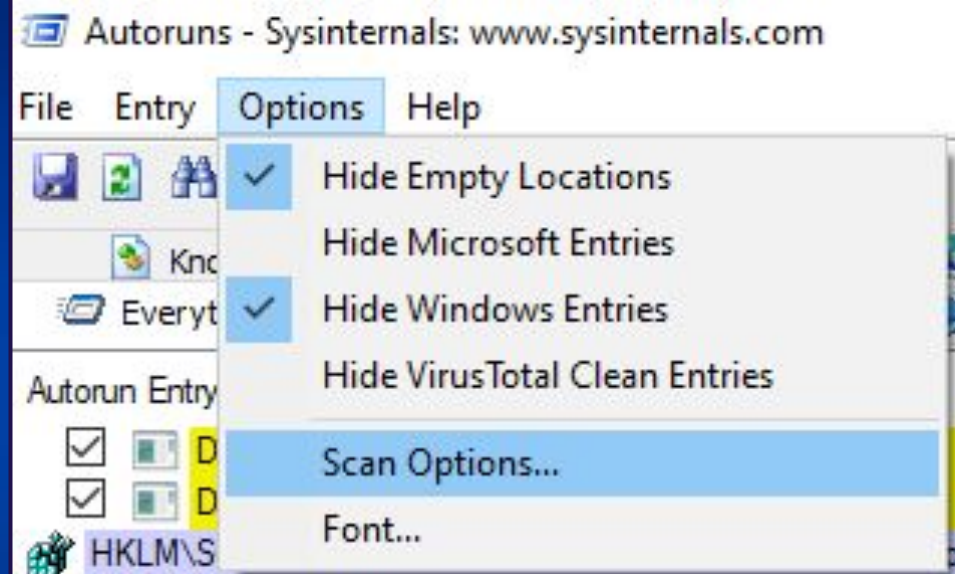
Autorun Entry	Description	Publisher	Image Path	Timestamp	VirusTotal
HKLM\SYSTEM\CurrentControlSet\Control\SafeBoot\AlternateShell				12/7/2019 2:15 AM	
<input checked="" type="checkbox"/> cmd.exe	Windows Command Processor	(Verified) Microsoft Windows	c:\windows\system32\cmd.exe	12/10/1953 7:58 PM	
HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run				4/11/2022 7:49 AM	
<input checked="" type="checkbox"/> MicrosoftEdgeAutoLau...	Microsoft Edge	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	4/6/2022 1:57 PM	
<input checked="" type="checkbox"/> OneDrive	Microsoft OneDrive	(Verified) Microsoft Corporation	c:\users\ash\AppData\Local\microsof...	4/3/1981 10:12 AM	
HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\RunOnce				4/11/2022 6:42 AM	
<input checked="" type="checkbox"/> Delete Cached Standalo...			File not found: del		
<input checked="" type="checkbox"/> Delete Cached Update ...			File not found: del		
HKLM\SOFTWARE\Microsoft\Active Setup\Installed Components				4/11/2022 6:41 AM	
<input checked="" type="checkbox"/> Google Chrome	Google Chrome Installer	(Verified) Google LLC	c:\program files\google\chrome\appli...	4/1/2022 10:09 AM	
<input checked="" type="checkbox"/> Microsoft Edge	Microsoft Edge Installer	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	4/6/2022 1:57 PM	
n/a	Microsoft .NET IE SECURITY REGIS...	(Verified) Microsoft Corporation	c:\windows\system32\mscories.dll	10/24/2019 8:45 PM	
HKLM\SOFTWARE\Wow6432Node\Microsoft\Active Setup\Installed Components				10/6/2021 6:45 AM	
<input checked="" type="checkbox"/> n/a	Microsoft .NET IE SECURITY REGIS...	(Verified) Microsoft Corporation	c:\windows\syswow64\mscories.dll	10/25/2019 1:48 AM	
HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Browser Helper Objects				4/11/2022 9:25 AM	

Autorun Entry	Description	Publisher	Image Path	Timestamp	VirusTotal
HKLM\System\CurrentControlSet\Services				4/12/2022 5:29 AM	
<input checked="" type="checkbox"/> edgeupdate	Microsoft Edge Update Service (edg...	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	7/21/2021 6:16 PM	
<input checked="" type="checkbox"/> edgeupdateam	Microsoft Edge Update Service (edg...	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	7/21/2021 6:16 PM	
<input checked="" type="checkbox"/> GoogleChromeElevation...	Google Chrome Elevation Service (G...	(Verified) Google LLC	c:\program files\google\chrome\appli...	4/1/2022 10:09 AM	
<input checked="" type="checkbox"/> gupdate	Google Update Service (gupdate): K...	(Verified) Google LLC	c:\program files (x86)\google\update...	1/6/2022 4:08 PM	
<input checked="" type="checkbox"/> gupdateam	Google Update Service (gupdate): ...	(Verified) Google LLC	c:\program files (x86)\google\update...	1/6/2022 4:08 PM	
<input checked="" type="checkbox"/> MicrosoftEdgeElevation...	Microsoft Edge Elevation Service (Mi...	(Verified) Microsoft Corporation	c:\program files (x86)\microsoft\edge...	4/6/2022 1:57 PM	
<input checked="" type="checkbox"/> Steam Client Service	Steam Client Service: Steam Client S...	(Verified) Valve Corp.	c:\program files (x86)\common files\s...	3/14/2022 12:49 PM	
<input checked="" type="checkbox"/> WdNisSvc	Microsoft Defender Antivirus Network...	(Not verified) Microsoft Corporation	c:\programdata\microsoft\windows d...	11/7/1913 11:25 AM	
<input checked="" type="checkbox"/> WinDefend	Microsoft Defender Antivirus Service:...	(Not verified) Microsoft Corporation	c:\programdata\microsoft\windows d...	11/2/1954 7:00 PM	

Specifics about each tab can be found in the help menu.

# Scanning For Viruses

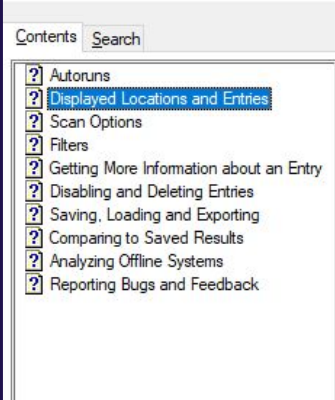
You can use Autoruns to scan everything for viruses.



Who doesn't love cyber safety?

# Help Menu

If you get confused, you can use the help menu.



## Displayed Locations and Entries

Simply run Autoruns and it shows you the currently configured auto-start applications in the locations that most directly execute applications. Perform a new scan that reflects changes to options by refreshing the display.

- **Logon** This entry results in scans of standard autostart locations such as the Startup folder for the current user and all users, the Run Registry keys, and standard application launch locations.
- **Explorer** Select this entry to see Explorer shell extensions, browser helper objects, explorer toolbars, active setup executions, and shell execute hooks.
- **Internet Explorer** This entry shows Browser Helper Objects (BHO's), Internet Explorer toolbars and extensions.
- **Services** All Windows services configured to start automatically when the system boots.
- **Drivers** This displays all kernel-mode drivers registered on the system except those that are disabled.
- **Scheduled Tasks** Task scheduler tasks configured to start at boot or logon.
- **AppInit DLLs** This has Autoruns shows DLLs registered as application initialization DLLs.
- **Boot Execute** Native images (as opposed to Windows images) that run early during the boot process.
- **Image Hijacks** Image file execution options and command prompt autostarts.
- **Known DLLs** This reports the location of DLLs that Windows loads into applications that reference them.
- **Winlogon Notifications** Shows DLLs that register for Winlogon notification of logon events.
- **Winsock Providers** Shows registered Winsock protocols, including Winsock service providers. Malware often installs itself as a Winsock service provider because there are few tools that can remove them. Autoruns can disable them, but cannot delete them.
- **LSA Providers** Shows registers Local Security Authority (LSA) authentication, notification and security packages.
- **Printer Monitor Drivers** Displays DLLs that load into the print spooling service. Malware has used this support to autostart itself.
- **Sidebar** Displays Windows Sidebar gadgets.

**Autoruns**  
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Sysinternals - [www.sysinternals.com](http://www.sysinternals.com)

This utility, which has the most comprehensive knowledge of auto-starting locations of any startup monitor, shows you what programs are configured to run during system bootup or login, and what extension load into various Windows processes, including Explorer and Internet Explorer. It reports the image timestamp of executables, the last-modified timestamp of other file types, and the last-modified timestamp of the autostart locations. A "Hide Signed Microsoft Entries" option helps you to zoom in on third-party auto-starting images that have been added to your system.

Autoruns works on Windows XP and higher, including 64-bit Windows.

*Note: before you send e-mail reporting what you believe to be an auto-start location that's overlooked by Autoruns, please make sure that Autoruns doesn't cover it and verify that the location actually works.*

less the **Include Empty Locations** selection in the **Options** menu is checked Autoruns doesn't show locations with no entries.

**Users** menu is populated with user names. Select one to view the auto-starting images for that account.



# That's All From Me

This is the last slide.

I hope you enjoyed this explanation of Autoruns.

