

Autoruns for Windows v14.0

By Mark Russinovich, Published: August 18, 2021, docs.microsoft.com



Download Autoruns (2.5 MB)

<https://download.sysinternals.com/files/Autoruns.zip>

Introduction

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 when you start various built-in Windows applications like Internet Explorer, Explorer and media players. These programs and drivers include ones in your startup folder, Run, RunOnce, and other Registry keys. *Autoruns* reports Explorer shell extensions, toolbars, browser helper objects, Winlogon notifications, auto-start services, and much more. *Autoruns* goes way beyond other autostart utilities. *Autoruns*' **Hide Signed Microsoft Entries** option helps you to zoom in on third-party auto-starting images that have been added to your system and it has support for looking at the auto-starting images configured for other accounts configured on a system. Also included in the download package is a command-line equivalent that can output in CSV format, *Autoruncs*.

You'll probably be surprised at how many executables are launched automatically!

Screenshot

The screenshot shows the Autoruns application window with the following table of auto-starting programs:

Autorun Entry	Description	Publisher	Image Path	Timestamp	VirusTotal
HKLM\System\CurrentControlSet\Control\Terminal Server\Wds\rdpwd\StartupPrograms				7/15/2020 2:47 PM	
<input checked="" type="checkbox"/> rdclip	RDP Clipboard Monitor	Microsoft Corporation	c:\windows\system32\rdclip....	1/25/2007 7:00 PM	
HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\Userinit				8/23/2021 7:08 AM	
<input checked="" type="checkbox"/> C:\Windows\system32\useri...	Userinit Logon Application	Microsoft Corporation	c:\windows\system32\userinit...	3/1/1950 11:07 PM	
HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\VmApplet				8/23/2021 7:08 AM	
<input checked="" type="checkbox"/> SystemPropertiesPerformanc...	Change Computer Performanc...	Microsoft Corporation	c:\windows\system32\systemp...	1/1/1968 10:18 PM	
HKLM\SYSTEM\CurrentControlSet\Control\SafeBoot\AlternateShell				7/15/2020 2:47 PM	
<input checked="" type="checkbox"/> cmd.exe	Windows Command Processor	(Verified)	c:\windows\system32\cmd.exe	12/10/1953 7:58 PM	
HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run				7/15/2021 3:06 PM	
<input checked="" type="checkbox"/> AdobeGCInvoker-1.0	Adobe GC Invoker Utility	(Verified) Adobe Inc.	c:\program files (x86)\common ...	2/16/2021 8:27 PM	
<input checked="" type="checkbox"/> BdVpnApp	Bitdefender Vpn App	(Verified) Bitdefender SRL	c:\program files\bitdefender\bit...	6/23/2021 6:17 AM	
<input checked="" type="checkbox"/> IAStorIcon	Delayed launcher	(Verified) Intel(R) Rapid Storag...	c:\program files\intel\intel(r) ra...	11/26/2019 12:10 PM	
<input checked="" type="checkbox"/> Logitech Download Assistant	Windows host process (Rundll...	(Verified)	c:\windows\system32\rundll32...	7/1/1967 9:25 AM	
<input checked="" type="checkbox"/> QuickSet	QuickSet	(Verified) Compal electronic .inc	c:\program files\dell\quickset\...	9/21/2015 2:19 AM	
<input checked="" type="checkbox"/> RtHDVBg_MAXX6	HD Audio Background Process	(Verified) Realtek Semiconduct...	c:\program files\realtek\audio\...	4/25/2017 12:44 AM	
<input checked="" type="checkbox"/> RtHDVBg_PushButton	HD Audio Background Process	(Verified) Realtek Semiconduct...	c:\program files\realtek\audio\...	4/25/2017 12:44 AM	
<input checked="" type="checkbox"/> RTHDVCPL	Realtek HD Audio Manager	(Verified) Realtek Semiconduct...	c:\program files\realtek\audio\...	5/2/2017 6:06 AM	
<input checked="" type="checkbox"/> SecurityHealth	Windows Security notification i...	Microsoft Corporation	c:\windows\system32\security...	9/13/1927 2:41 PM	
<input checked="" type="checkbox"/> WavesSvc	Waves MaxxAudio Service Ap...	(Verified) Waves Inc	c:\program files\waves\maxxa...	9/21/2015 7:18 AM	
HKLM\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Run				7/16/2020 12:23 PM	
<input checked="" type="checkbox"/> Adobe CCXProcess		(Verified) Adobe Inc.	c:\program files (x86)\adobe\va...	12/20/2019 3:07 PM	
<input checked="" type="checkbox"/> Adobe Creative Cloud	Creative Cloud Desktop	(Verified) Adobe Inc.	c:\program files\adobe\adobe ...	10/1/2020 9:13 PM	
HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run				6/25/2021 8:21 AM	
<input checked="" type="checkbox"/> GoogleChromeAutoLaunch_...	Brave Browser	(Verified) Brave Software, Inc.	c:\program files (x86)\bravesof...	8/13/2021 11:16 AM	
HKLM\SOFTWARE\Microsoft\Active Setup\Installed Components				7/16/2020 11:15 AM	
<input checked="" type="checkbox"/> Brave	Brave Installer	(Verified) Brave Software, Inc.	c:\program files (x86)\bravesof...	8/13/2021 11:16 AM	
<input checked="" type="checkbox"/> Google Chrome	Google Chrome Installer	(Verified) Google LLC	c:\program files (x86)\google\...	8/13/2021 11:16 AM	

Usage

Simply run *Autoruns* and it shows you the currently configured auto-start applications as well as the full list of Registry and file system locations available for auto-start configuration. Autostart locations displayed by *Autoruns* include logon entries, Explorer add-ons, Internet Explorer add-ons including Browser Helper Objects (BHOs), Appinit DLLs, image

hijacks, boot execute images, Winlogon notification DLLs, Windows Services and Winsock Layered Service Providers, media codecs, and more. Switch tabs to view autostarts from different categories.

To view the properties of an executable configured to run automatically, select it and use the **Properties** menu item or toolbar button. If [Process Explorer](#) is running and there is an active process executing the selected executable then the **Process Explorer** menu item in the **Entry** menu will open the process properties dialog box for the process executing the selected image.

Navigate to the Registry or file system location displayed or the configuration of an auto-start item by selecting the item and using the **Jump to Entry** menu item or toolbar button, and navigate to the location of an autostart image.

To disable an auto-start entry uncheck its check box. To delete an auto-start configuration entry use the **Delete** menu item or toolbar button.

The Options menu includes several display filtering options, such as only showing non-Windows entries, as well as access to a scan options dialog from where you can enable signature verification and Virus Total hash and file submission.

Select entries in the **User** menu to view auto-starting images for different user accounts.

More information on display options and additional information is available in the on-line help.