

Applications to Update Applications

**Hillingdon u3a
Computer Club**



Applications to Update Applications

Why Update your Software

- Security Fixes and plug vulnerabilities
- Security Improvements
- New Application Features
- Protect Data
- Improve Performance
- Compatibility



Applications to Update Applications

Why Update your Software

Software Layers

- 1. Firmware (BIOS)
- 2. Windows Operating System
- 3. Hardware Drivers
- 4. Browsers and Anti-Virus programs
- 5. Microsoft Applications – Office, SQL-Server, Teams
- 6. Third party apps – everything else you install on Windows



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Firmware

Firmware is a small piece of program code that's permanently burnt into a hardware device such as BIOS, keyboard, printer, hard drive or router. It provides a permanent set of instructions on how the device is to communicate with the PC application and to get it to interpret instructions.

We should also keep firmware updated.



- For example, to update your router to add enhanced capabilities or fixes, download a firmware update from the hardware manufacturer.

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Firmware – My Router



Product support for

RT-AC68U

[Find another model >](#)

By registering your device, you can easily manage your product warranty, get technical support and keep track of your repair status.

[Register Product](#)

Driver & Tools

FAQ

Manual & Document

Warranty

More Service

BIOS & FIRMWARE

[Driver & Tools](#) [BIOS & FIRMWARE](#)

Firmware

[EXPAND ALL -](#) [COLLAPSE ALL +](#)

ASUS RT-AC68U Firmware version 3.0.0.4.386_51685

Version 3.0.0.4.386_51685 98.85 MB 2024/04/15

[DOWNLOAD](#)

- Fixed CVE-2024-3079 and CVE-2024-3080. Thanks to the contribution of swing from Chaitin Security Research Lab.
- Fixed command injection vulnerability.
- Fixed the ARP poisoning vulnerability. Thanks to the contribution of Xin'an Zhou.
- Fixed code execution in custom OVPN. Thanks to the contrubution of Jacob Baines.
- Fixed the injection vulnerability in AiCloud....

[SHOW MORE DESCRIPTION](#) ▾



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Windows Update

- Built in feature of the Windows OS
- Last week was Patch Tuesday
- Make Windows updating as easy and automatic
- Patches the OS, some drivers and other MS products
- Does not patch 3rd Party Applications



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Browser Updates

- Mostly automatic
 - Microsoft Edge
 - Delivered via Windows update
 - Non-Microsoft Browsers
 - Most now apply updates automatically
- Verify your Browser settings to confirm that automatic browser updates are enabled.



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Applications

Software you install yourself and will not automatically update. Needs your regular intervention.

Examples:

- Libre-Office / Open Office
- Photo Editor e.g. FastStone, Gimp
- Utilities e.g. Mailware Bytes, EaseUS Backup ToDo
- Music and Video utilities
- Any of those other applications you have



Currently, have to work out what the update path is for each application. Download the update bundle & install yourself.

Applications to Update Applications

Applications

So are there applications that can update your applications you can use.

Guess what..... there are.....

- Winget & WingetUI
- Patch My PC
- UCheck
- Ninite (Paid for)



Applications to Update Applications

Introduction to the Command Line

Windows Command Line is a way of instructing the PC directly using text Instructions. Using a terminal screen it's back to basics to the days when there were no mouse curser or GUI.

To Access.....

- Type "Command Prompt" or "CMD" into the Start menu
- Press Win+R and type CMD
- Press Win+ X and select Windows PowerShell

To run as an Admin on the first 2, hold Ctrl+Shift when you launch.

There is a PowerShell(Admin) option



Applications to Update Applications

Introduction to the Command Line

You will see **C:\Users\[Username]>**

```
C:\> Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19045.4412]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Tony>_
```



Applications to Update Applications

Introduction to the Command Line

Our first command will be the Help command

C:\Users\[Username]> Help

To see specific details on one command, type the command followed by /?

C:\Users\[Username]> dir /?

You will see a description then the command format with all the options to modify the command.



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Introduction to the Command Line

The **Dir** Command is for a Directory listing

C:\Users\[Username]> dir

The **CD** command is to Change Directory

C:\Users\[Username]> cd desktop

To change to a folder marked as a <Dir> in the list, e.g. the Desktop folder. Then Dir again to see the list of files and folder in the Desktop folder.



Applications to Update Applications

Introduction to the Command Line

The **mkdir** Command is for creating a new folder
C:\Users\[Username]> mkdir [new folder name]

Similarly **rmdir [folder name]** will delete a folder

And **del [file name]** to delete a file

To much clutter on the screen, **cls** clears the screen.

And **Ctrl+C** cancels and command running that you want
to stop.



Applications to Update Applications

Introduction to the Command Line

Network Commands are really useful.

ping to see if your computer can reach a remote destination and how long it takes.

ipconfig lets you see the network overview for your current connection.

Ipconfig/all gives you a lot of detail



Applications to Update Applications

Introduction to the Command Line

C:\Windows\system32\cmd.exe

```
C:\Users\Tony\Desktop>ipconfig
```

Windows IP Configuration

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix  . :  
Link-local IPv6 Address . . . . . : fe80::e748:b63e  
IPv4 Address. . . . . : 192.168.1.6  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.1.1
```

Ethernet adapter Ethernet 2:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix  . :
```

Ethernet adapter Ethernet 3:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix  . :
```

Ethernet adapter Bluetooth Network Connection:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix  . :
```

Applications to Update Applications

Introduction to the Command Line

Administrator: C:\Windows\system32\cmd.exe

```
C:\Users\Tony\Desktop>ipconfig/all
```

Windows IP Configuration

```
Host Name . . . . . : ChilliBlast
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix . :
Description . . . . . : Realtek Gaming 2.5GbE Family Controller
Physical Address. . . . . : 50-EB-F6
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::e748:b63e:91f3:3
IPv4 Address. . . . . : 192.168.1.6(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
DHCPv6 IAID . . . . . : 139521014
DHCPv6 Client DUID. . . . . : 00-01-00-01-2A-9A-EE-39-
DNS Servers . . . . . : 8.8.8.8
                        8.8.4.4
NetBIOS over Tcpip. . . . . : Enabled
```

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Introduction to the Command Line

Commands for Troubleshooting

A common use for firing up the Command Prompt is to run one of several troubleshooting commands.

CHKDSK lets you scan your storage drives for errors,
SFC allows Windows to detect and fix corrupt system files.



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Winget

Formal name: Windows Package Manager

- Free, open-source package manager for Win 10 / 11
- Not well know but comes installed with Windows
- Consists of a command line utility and some system services.
- Need to open a Command Line window to use but very efficient.



Applications to Update Applications

Winget

```
C:\Users>winget
Windows Package Manager v1.6.3133
Copyright (c) Microsoft Corporation. All rights reserved.

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

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
pin          Manage package pins
configure    Configures the system into a desired state
download     Downloads the installer from a given package

For 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
-?,--help         Shows help about the selected command
--wait           Prompts the user to press any key before exiting
--logs,--open-logs Open the default logs location
--verbose,--verbose-logs Enables verbose logging for winget
--disable-interactivity Disable interactive prompts
```

Applications to Update Applications

Winget

Administrator: C:\Windows\system32\cmd.exe

```
C:\Users\Tony\Desktop>winget list
```

Name	Id	Version	Available	Source
Rufus	19453.net.Rufus_	4.4.2104.0		
Upscayl 2.9.8	2e801529-9c6a-59	2.9.8		
Canon Inkjet Print Utility	34791E63.CanonIn	3.1.0.0		
Canva	Canva.Canva	1.86.1		winget
	Reolink.Reolink	8.15.6		winget
WhatsApp	5319275A.WhatsAp	2.2419.11.0		
FreeTube 0.18.0	PrestonN.FreeTub	0.18.0	0.20.0	winget
7-Zip 24.05 (x64)	7zip.7zip	24.05		winget
AVS Video Converter 12.4.2	AVS4YOU Video Co	12.4.2.696		
Acrobat Notification Client	AcrobatNotificat	1.0.4.0		
Adobe Acrobat	AdobeAcrobatDCCo	23.0.0.0		
Adobe Genuine Service	AdobeGenuineServ	8.4.0.63		
Intel® Graphics Command Center	AppUp.IntelGraph	1.100.5487.0		
Audacity 2.3.3	Audacity.Audacit	2.3.3	3.5.1	winget
Avast One	Avast Antivirus	24.4.6112		
AURA Creator	B9ECED6F.AURACre	3.8.6.0		
ARMOURY CRATE	B9ECED6F.Armoury	5.8.9.0		
Boxoft Wav to MP3 (freeware)	Boxoft Wav to MP	Unknown		
Brave	Brave.Brave	125.1.66.110		winget
UCheck version 5.2.2.0	C4E7EE54-826F-41	5.2.2.0		
Clover V3.5	Clover	3.5.0.19628		
CrystalDiskMark 8.0.4c	CrystalDewWorld.	8.0.4.c	8.0.5	winget
		1.0.0		
Discord	Discord.Discord	1.0.9030	1.0.9144	winget
DownloadHelper CoApp	ACLAP.DownloadHe	2.0.19.0		winget
Driver Booster 11	IObit.DriverBoos	11.4.0		winget
Dropbox	Dropbox.Dropbox	199.4.6287		winget

Applications to Update Applications

Winget

```
C:\Users\Tony\Desktop>winget upgrade
```

Name	Id	Version	Available	Source
FreeTube 0.18.0	PrestonN.f	0.18.0	0.20.0	winget
Audacity 2.3.3	Audacity./	2.3.3	3.5.1	winget
CrystalDiskMark 8.0.4c	CrystalDev	8.0.4.c	8.0.5	winget
Discord	Discord.Di	1.0.9030	1.0.9144	winget
FastCopy	FastCopy.f	5.5.0	5.7.10	winget
Foxit PDF Reader	Foxit.Foxi	2023.3.0.23028	2024.2.1.25153	winget
Google Chrome	Google.Chr	124.0.6367.208	125.0.6422.61	winget
Internet Download Manager	Tonec.Inte	6.42.9	6.42.10	winget
Microsoft Edge	Microsoft.	124.0.2478.105	124.0.2478.109	winget
Mp3tag v3.24	Mp3tag.Mpi	3.24	3.25	winget
Pale Moon 32.5.2 (x64 en-US)	Moonchildf	32.5.2	33.1.0	winget
Shotcut	Meltytech.	23.06.14	24.04.28	winget
SoundSwitch 6.5.4.0	AntoineAfl	6.5.4.0	6.10.3	winget
Teamviewer	Teamviewer	15.49.3	15.53.7	winget
WinRAR 5.01 (64-bit)	RARLab.Wir	5.01.0	7.00.0	winget
Microsoft Visual C++ 2015-2022 Redistributable (x...	Microsoft.	2.12.7.0	2.17.18.0	winget
Malwarebytes version 4.6.8.311	Malwarebyl	14.32.31326.0	14.38.33135.0	winget
Windows PC Health Check	Microsoft.	4.6.8.311	4.6.14.401	winget
Microsoft Visual C++ 2015-2022 Redistributable (x...	Microsoft.	3.6.2204.08001	3.7.2204.15001	winget
calibre 64bit	calibre.ca	14.32.31326.0	14.38.33135.0	winget
Zoom (64-bit)	Zoom.Zoom	7.5.1	7.10.0	winget
4K video Downloader	OpenMedia.	5.17.29988	6.0.38135	winget

25 upgrades available.
2 package(s) have version numbers that cannot be determined. Use --include-unknown to see all results.

```
C:\Users\Tony\Desktop>
```

Applications to Update Applications

Winget Commands

- Winget list
- Winget upgrade
- Winget upgrade MyProgram
- Winget upgrade –all
- Winget install MyProgram
- Winget uninstall MyProgram
- Winget search program name
- Lists installed programs
- Checks for available updates
- Updates a specific program
- Updates all programs which have updates
- Install a specific program
- Uninstall/remove a program
- Search the repository for a specific program



Applications to Update Applications

WingetUI

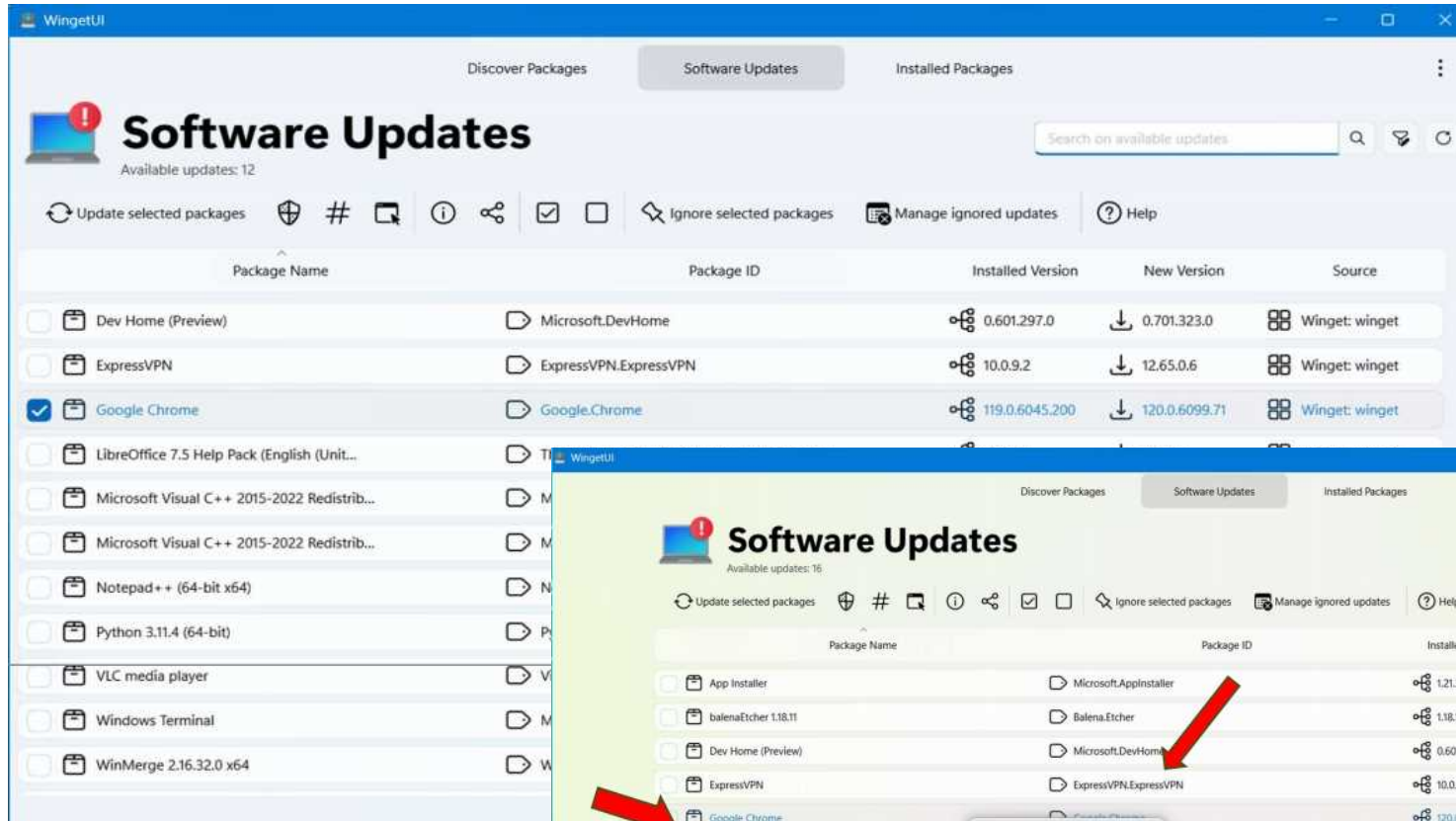
- Creates a graphical front end to the command line WinGet
- No need to use a Command Line Window

Website to Download: <https://www.marticliment.com/wingetui>



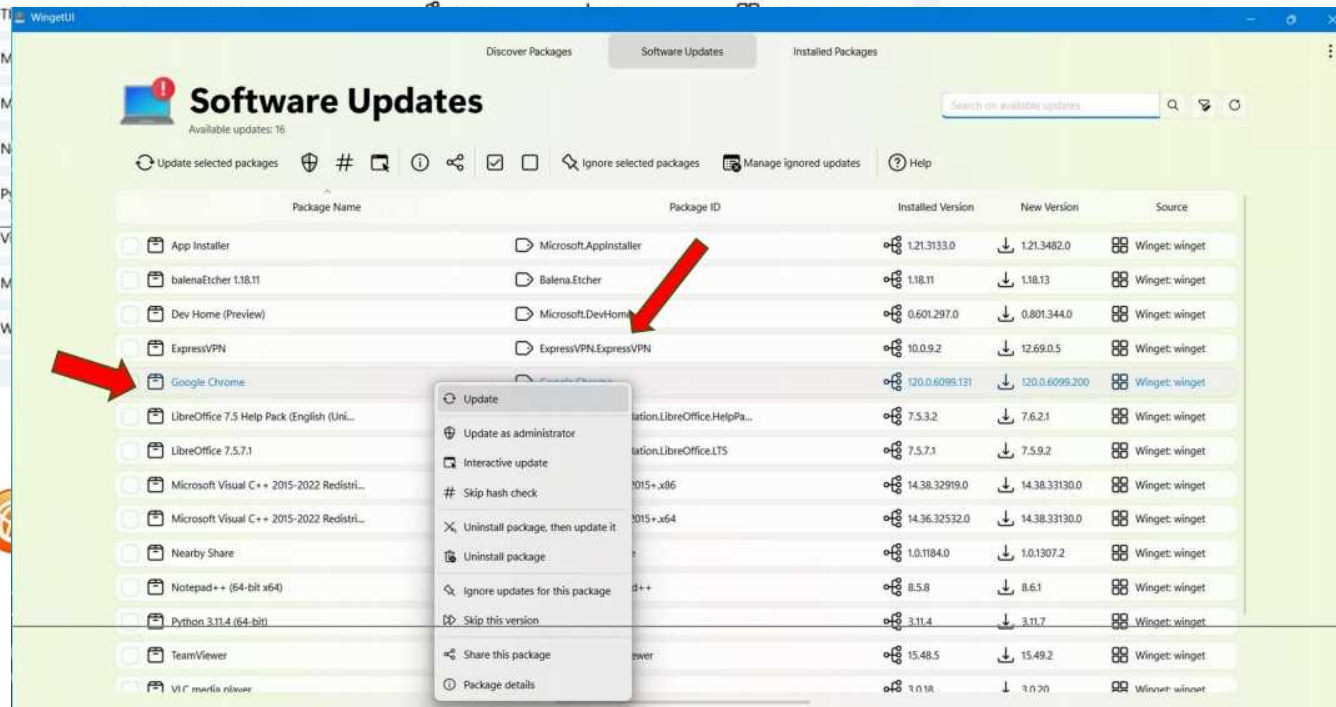
Applications to Update Applications

WingetUI



The screenshot shows the WingetUI 'Software Updates' window. It features a search bar, a list of applications with checkboxes, and a table of update details. The applications listed include Dev Home (Preview), ExpressVPN, Google Chrome, LibreOffice 7.5 Help Pack (English (Unit...), Microsoft Visual C++ 2015-2022 Redistrib..., Notepad++ (64-bit x64), Python 3.11.4 (64-bit), VLC media player, Windows Terminal, and WinMerge 2.16.32.0 x64.

Package Name	Package ID	Installed Version	New Version	Source
Dev Home (Preview)	Microsoft.DevHome	0.601.297.0	0.701.323.0	Winget: winget
ExpressVPN	ExpressVPN.ExpressVPN	10.0.9.2	12.65.0.6	Winget: winget
Google Chrome	Google.Chrome	119.0.6045.200	120.0.6099.71	Winget: winget
LibreOffice 7.5 Help Pack (English (Unit...	LibreOffice.LibreOffice.HelpPack	7.5.3.2	7.6.2.1	Winget: winget
Microsoft Visual C++ 2015-2022 Redistrib...	Microsoft.VisualStudio.Redistributable	14.38.32919.0	14.38.33130.0	Winget: winget
Notepad++ (64-bit x64)	Notepad++.Notepad++	8.5.8	8.6.1	Winget: winget
Python 3.11.4 (64-bit)	Python.Python.3.11.4	3.11.4	3.11.7	Winget: winget
VLC media player	VLC.VLC	3.0.18	3.0.20	Winget: winget



This screenshot shows the same WingetUI 'Software Updates' window, but with a context menu open for the 'Google Chrome' package. The menu options include 'Update', 'Update as administrator', 'Interactive update', 'Skip hash check', 'Uninstall package, then update it', 'Uninstall package', 'Ignore updates for this package', 'Skip this version', 'Share this package', and 'Package details'. A red arrow points to the 'Google Chrome' package in the list, and another red arrow points to the 'Update' option in the context menu.

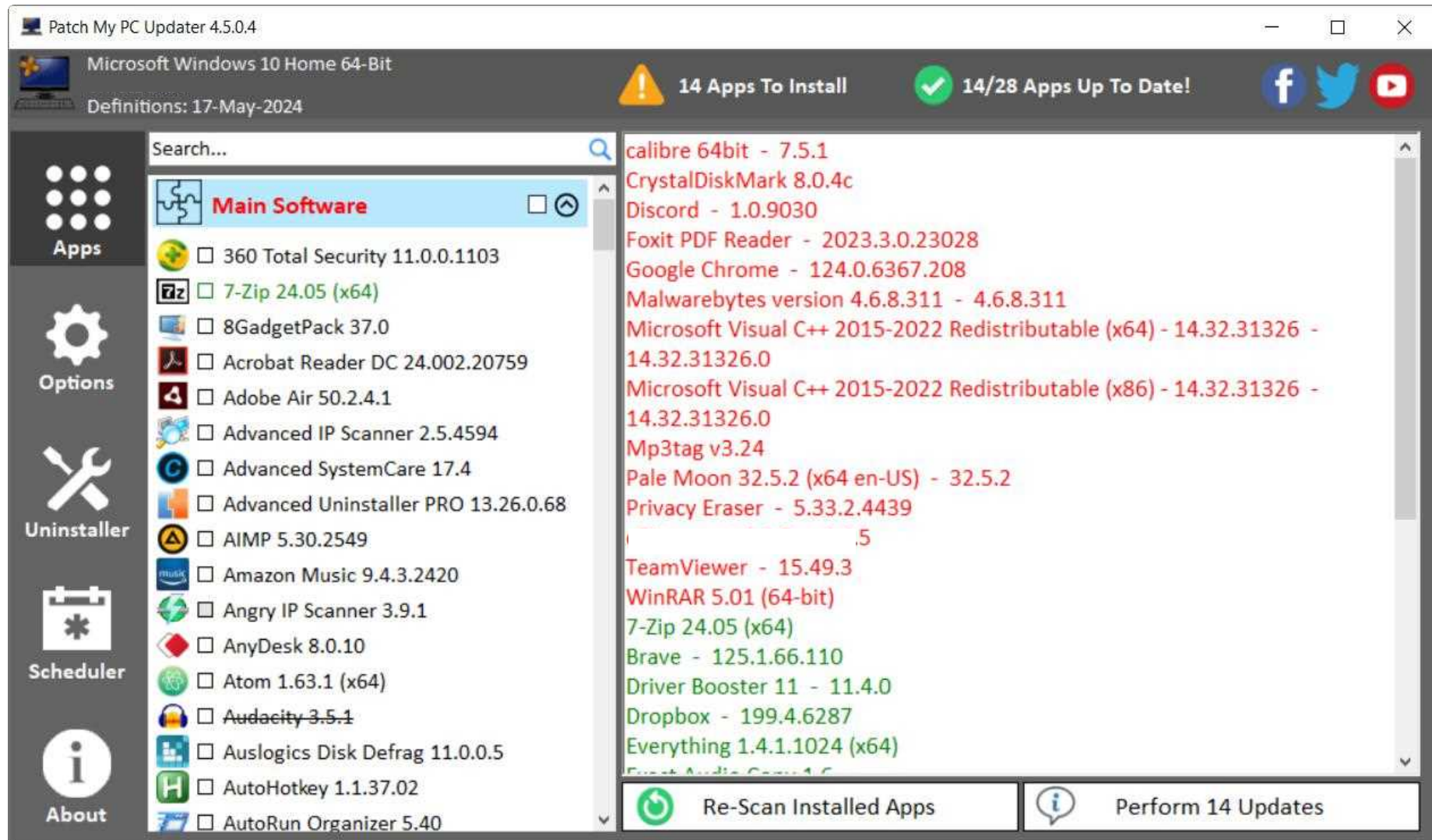
Package Name	Package ID	Installed Version	New Version	Source
App Installer	Microsoft.AppInstaller	1.21.3133.0	1.21.3482.0	Winget: winget
balenaEtcher 1.18.11	Balena.Etcher	1.18.11	1.18.13	Winget: winget
Dev Home (Preview)	Microsoft.DevHome	0.601.297.0	0.801.344.0	Winget: winget
ExpressVPN	ExpressVPN.ExpressVPN	10.0.9.2	12.69.0.5	Winget: winget
Google Chrome	Google.Chrome	120.0.6099.121	120.0.6099.200	Winget: winget
LibreOffice 7.5 Help Pack (English (Unit...	LibreOffice.LibreOffice.HelpPa...	7.5.3.2	7.6.2.1	Winget: winget
LibreOffice 7.5.7.1	LibreOffice.LibreOffice.LTS	7.5.7.1	7.5.9.2	Winget: winget
Microsoft Visual C++ 2015-2022 Redistri...	Microsoft.VisualStudio.Redistrib...	14.38.32919.0	14.38.33130.0	Winget: winget
Microsoft Visual C++ 2015-2022 Redistri...	Microsoft.VisualStudio.Redistrib...	14.36.32532.0	14.38.33130.0	Winget: winget
Nearby Share	NearbyShare.NearbyShare	1.0.1184.0	1.0.1307.2	Winget: winget
Notepad++ (64-bit x64)	Notepad++.Notepad++	8.5.8	8.6.1	Winget: winget
Python 3.11.4 (64-bit)	Python.Python.3.11.4	3.11.4	3.11.7	Winget: winget
TeamViewer	TeamViewer.TeamViewer	15.48.5	15.49.2	Winget: winget
VLC media player	VLC.VLC	3.0.18	3.0.20	Winget: winget



Applications to Update Applications

Patch MY PC (Free)

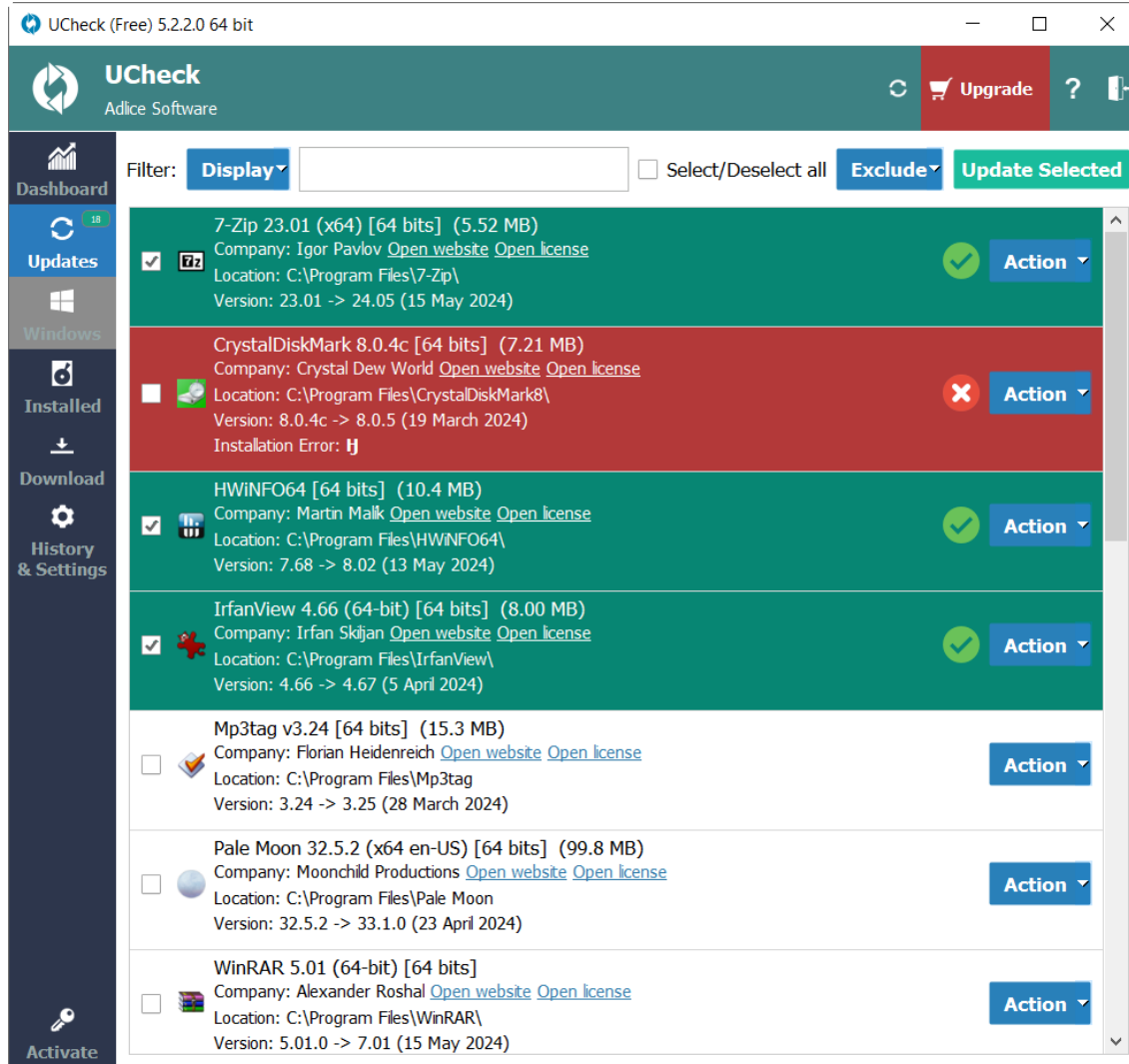
<https://patchmypc.com/home-updater#download>



Applications to Update Applications

UCheck (Free)

<https://www.adlice.com/ucheck/>



This is the one I have, it's free and does a simple and good job.

Applications to Update Applications

Ninite

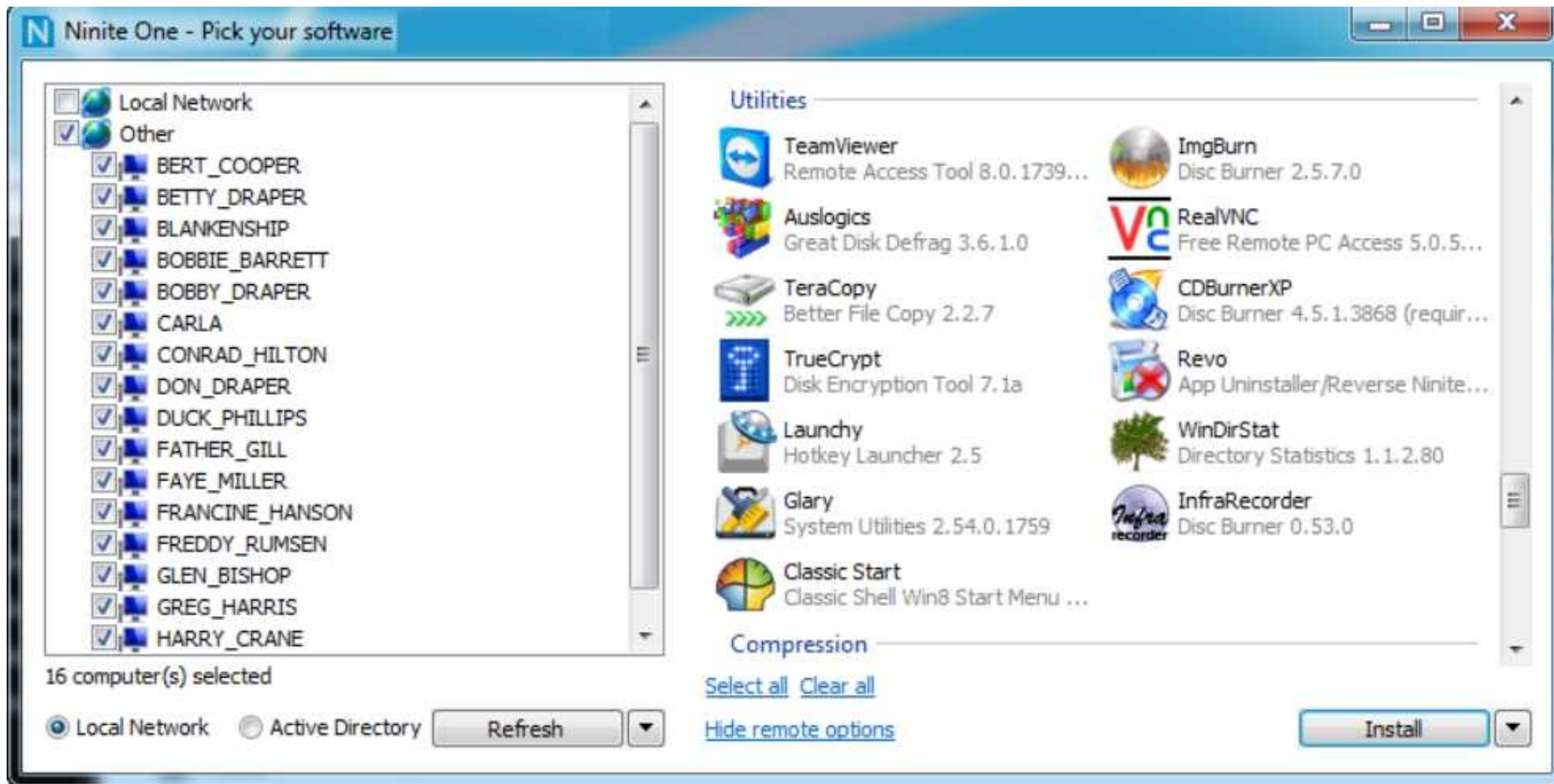
The Ninite Updater interface is very simple and easy to use. It provides a list of all your out-of-date applications and you can update with one click. I read that the best bit is that it just works and doesn't need too much time manually fiddling with updates and settings. Plus when configured, Ninite Updater can automatically download all the applications and install them silently. A huge bonus over the competition.

There is a free version but the paid for pro application (which I wouldn't normally include) has a trial to see if it's for you or as it's only \$1/Month, it might be worth just running it for a year.



<https://ninite.com/updater/>

Applications to Update Applications Ninite



<https://ninite.com/updater/>

Applications to Update Applications

Final Words

- Don't update from email link
- Don't update from pop-up unless you know its valid (go to org web site or from within app)
- If you trust a pop-up screen, read each screen carefully and always request to download software. Don't let it take over.
- Better still, always use a software updater for your specific



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THE END

