Windows Backup
For example’s sake, we’re starting with a raw, unformatted disc.

- Most likely you’ll have an NTFS disc available.
Right-click start menu to get this menu.
Initialize Disk

You must initialize a disk before Logical Disk Manager can access it.

Select disks:

- [x] Disk 1

Use the following partition style for the selected disks:

- [ ] MBR (Master Boot Record)
- [ ] GPT (GUID Partition Table)

Note: The GPT partition style is not recognized by all previous versions of Windows.
Welcome to the New Simple Volume Wizard

This wizard helps you create a simple volume on a disk. A simple volume can only be on a single disk. To continue, click Next.
Specify Volume Size

Choose a volume size that is between the maximum and minimum sizes.

Maximum disk space in MB: 32765
Minimum disk space in MB: 8
Simple volume size in MB: 32765
Format Partition
To store data on this partition, you must format it first.

Choose whether you want to format this volume, and if so, what settings you want to use.

- Do not format this volume
- Format this volume with the following settings:
  - File system: NTFS
  - Allocation unit size: Default
  - Volume label: New Volume
  - Perform a quick format
  - Enable file and folder compression

Next >
Completing the New Simple Volume Wizard

You have successfully completed the New Simple Volume Wizard.

You selected the following settings:
- Volume type: Simple Volume
- Disk selected: Disk 1
- Volume size: 32765 MB
- Drive letter or path: D:
- File system: NTFS
- Allocation unit size: Default
- Volume label: backups
- Quick format: Yes

To close this wizard, click Finish.
<table>
<thead>
<tr>
<th>Volume</th>
<th>Layout</th>
<th>Type</th>
<th>File System</th>
<th>Status</th>
<th>Capacity</th>
<th>Free Space</th>
<th>% Free</th>
</tr>
</thead>
<tbody>
<tr>
<td>(C:)</td>
<td>Simple</td>
<td>Basic</td>
<td>RAW</td>
<td>Formatting</td>
<td>32.00 GB</td>
<td>32.00 GB</td>
<td>100 %</td>
</tr>
<tr>
<td>System Reserved</td>
<td>Simple</td>
<td>Basic</td>
<td>NTFS</td>
<td>Healthy (B...)</td>
<td>31.51 GB</td>
<td>18.02 GB</td>
<td>57 %</td>
</tr>
<tr>
<td>System Reserved</td>
<td>Simple</td>
<td>Basic</td>
<td>NTFS</td>
<td>Healthy (S...)</td>
<td>500 MB</td>
<td>154 MB</td>
<td>31 %</td>
</tr>
</tbody>
</table>

**Disk 1**

- Basic
- 32.00 GB
- Online

- 32.00 GB Formatting
Backup and Restore (Windows 7)

Control Panel Home

Create a system image
Create a system repair disc

Back up or restore your files

Backup

Windows Backup has not been set up.

Restoration

Windows could not find a backup for this computer.

Select another backup to restore files from

See also
Security and Maintenance
File History
Full or incremental?

Supplement with File History
Keep a history of your files

File History saves copies of your files so you can get them back if they're lost or damaged.

File History is on

Copy files from: Libraries, Desktop, Contacts, and Favorites
Copy files to: back_vista_w10 (D:)
1.35 GB free of 39.9 GB

Run now
Set up backup

Select where you want to save your backup

We recommend that you save your backup on an external hard drive.

Save backup on:

<table>
<thead>
<tr>
<th>Backup Destination</th>
<th>Free Space</th>
<th>Total Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Disk (D:) [Recommended]</td>
<td>31.92 GB</td>
<td>32.00 GB</td>
</tr>
</tbody>
</table>

Refresh  Save on a network...  Next  Cancel
Set up backup

What do you want to back up?

- Let Windows choose (recommended)
  Windows will back up data files saved in libraries, on the desktop, and in default Windows folders. Windows will also create a system image, which can be used to restore your computer if it stops working. These items will be backed up on a regular schedule.

- Let me choose
  You can select libraries and folders and whether to include a system image in the backup. The items you choose will be backed up on a regular schedule.

Next  Cancel
Set up backup

Review your backup settings

Backup Location: Local Disk (D:)

Backup Summary:

<table>
<thead>
<tr>
<th>Items</th>
<th>Included in backup</th>
</tr>
</thead>
<tbody>
<tr>
<td>All users</td>
<td>Default Windows folders and logs</td>
</tr>
<tr>
<td>System image</td>
<td>Included</td>
</tr>
</tbody>
</table>

Schedule: Every Sunday at 7:00 PM [Change schedule]

⚠️ A system repair disc might be required to restore a system image. [More information]

[Save settings and run backup] [Cancel]
Back up or restore your files

Backup

Location: backups (D:)

31.92 GB free of 32.00 GB

Backup size: Not Available

Manage space

Next backup: 3/12/2017 7:00 PM
Last backup: Never
Contents: Files in libraries and personal folders for all users and system image
Schedule: Every Sunday at 7:00 PM

Change settings

Restore

There are no backups saved on the current backup location. You can restore files from another location.

Select another backup to restore files from

See also

Security and Maintenance
File History
Backup and Restore (Windows 7)

Back up or restore your files

Backup in progress...

Location: backups (D:)
31.92 GB free of 32.00 GB
Backup size: Not Available

Next backup: In progress...
Last backup: Never
Contents: Files in libraries and personal folders for all users and system image
Schedule: Every Sunday at 7:00 PM

Restore

You can restore your files that were backed up on the current location.

Restore all users' files
Select another backup to restore files from

See also
Security and Maintenance
File History

Control Panel Home
Turn off schedule
Create a system image
Create a system repair disc
Control Panel Home

Back up or restore your files

Backup in progress...

Backup:
Location: backups (D:)
31.92 GB free of 32.00 GB
Backup size: Not Available

Next backup: In progress...
Last backup: Never
Contents: Files in libraries and personal folders for all users and system image
Schedule: Every Sunday at 7:00 PM

See also
Security and Maintenance
File History

Restore
You can restore your files that were backed up on the current location.
Restore all users' files
Select another backup to restore files from

Restore my files
Back up or restore your files

Backup

Location: backups (D:)

- 31.83 GB free of 32.00 GB
- Backup size: Not Available

Next backup: In progress...
Last backup: Never
Contents: Files in libraries and personal folders for all users and system image
Schedule: Every Sunday at 7:00 PM

See also
- Security and Maintenance
- File History

Restore

You can restore your files that were backed up on the current location.
- Restore all users' files
- Select another backup to restore files from

Backup in progress...
Back up or restore your files

Backup

Location: backups (D:)
18.93 GB free of 32.00 GB
Backup size: 12.96 GB

Next backup: In progress...
Last backup: Never
Contents: Files in libraries and personal folders for all users and system image
Schedule: Every Sunday at 7:00 PM

Restore

You can restore your files that were backed up on the current location.
- Restore all users' files
- Select another backup to restore files from

See also
- Security and Maintenance
- File History
Back up or restore your files

Check your backup results
The backup completed but some files were skipped.

Backup
Location: backups (D:)
18.93 GB free of 32.00 GB
Backup size: 12.96 GB

Next backup: 3/12/2017 7:00 PM
Last backup: 3/12/2017 11:05 AM
Contents: Files in libraries and personal folders for all users and system image
Schedule: Every Sunday at 7:00 PM

Restore
You can restore your files that were backed up on the current location.

Restore my files
Restore all users' files
Select another backup to restore files from

See also
Security and Maintenance
File History
Check your backup results

The backup completed but some files were skipped. View skipped files

Change backup settings

Show Details

Last backup: 3/12/2017 11:05 AM
Contents: Files in libraries and personal folders for all users and system image
Schedule: Every Sunday at 7:00 PM

Restore

You can restore your files that were backed up on the current location.
- Restore all users' files
- Select another backup to restore files from

Restore my files
Backup encountered a problem while backing up file C:\Users\defaultuser0\Contacts. Error:
Backup encountered a problem while backing up file C:\Users\defaultuser0\Searches. Error:
Review your backup settings

Backup Location: Local Disk (D:)

Backup Summary:

<table>
<thead>
<tr>
<th>Items</th>
<th>Included in backup</th>
</tr>
</thead>
<tbody>
<tr>
<td>All users</td>
<td>Default Windows folders and lo...</td>
</tr>
<tr>
<td>System image</td>
<td>Included</td>
</tr>
</tbody>
</table>

Schedule: Every Sunday at 7:00 PM [Change schedule]

⚠️ A system repair disc might be required to restore a system image. [More information]

Any existing system images for this machine might be overwritten.
Set up backup

How often do you want to back up?

Files that have changed and new files that have been created since your last backup will be added to your backup according to the schedule you set below.

- Run backup on a schedule (recommended)

- How often:
  - Weekly
  - Daily

- What day:
  - Weekly
  - Monthly

- What time: 7:00 PM

OK  Cancel
Set up backup

How often do you want to back up?

Files that have changed and new files that have been created since your last backup will be added to your backup according to the schedule you set below.

- Run backup on a schedule (recommended)

- How often: Weekly

- What day: Sunday

- What time:
  - Monday
  - Tuesday
  - Wednesday
  - Thursday
  - Friday
  - Saturday

[OK] [Cancel]
Check your backup results
The backup completed but some files were skipped.

Location: backups (D:)
18.93 GB free of 32.00 GB
Backup size: 12.96 GB

Next backup: 3/12/2017 7:00 PM
Last backup: 3/12/2017 11:05 AM
Contents: Files in libraries and personal folders for all users and system image
Schedule: Every Sunday at 7:00 PM

Backup and Restore (Windows 7)
Control Panel Home
- Turn off schedule
- Create a system image
- Create a system repair disc

See also
- Security and Maintenance
- File History
Browse or search your backup for files and folders to restore

All files will be restored to their latest version.

Choose a different date

Name | In Folder | Date modified
---|---|---

Click Browse for files, Browse for folders, or Search to add files to this list.

Browse for files
Browse for folders

Remove
Remove all

Next | Cancel
Windows Recovery
As simple as ...

Typing “recover”
Backup!

Be sure you have a full image backup before doing any major system repairs ...
Reset this PC

If your PC isn't running well, resetting it might help. This lets you choose to keep your files or remove them, and then reinstall Windows.

Get started

Advanced startup

Start up from a device or disc (such as a USB drive or DVD), change Windows startup settings, or restore Windows from a system image. This will restart your PC.

Restart now

More recovery options

Learn how to start fresh with a clean installation of Windows
Reset this PC

If your PC isn’t running well, resetting it might help. This lets you choose to keep your files or remove them, and then reinstalls Windows.

Get started

Choose an option

Keep my files
Removes apps and settings, but keeps your personal files.

Remove everything
Removes all of your personal files, apps, and settings.

Cancel
Reset this PC

If your PC isn’t running well, resetting it might help. This lets you choose to keep your files or remove them, and then reinstalls Windows.

Get started

Advanced startup

Start up from a device or disc (such as a USB drive or DVD), change Windows startup settings, or restore Windows from a system image. This will restart your PC.

Restart now

More recovery options

Learn how to start fresh with a clean installation of Windows
Please wait
Choose an option

- **Continue**
  Exit and continue to Windows 10

- **Troubleshoot**
  Reset your PC or see advanced options

- **Turn off your PC**
Troubleshoot

Reset this PC
Let's you choose to keep or remove your files, and then reinstalls Windows.

Advanced options
System Restore

Choose an account to continue.

- Owner

Forgot your password or don’t see your account?
System Restore

Choose an account to continue.

• Owner

Forgot your password or don’t see your account?
Hi, Owner

Enter the password for this account. (Keyboard Layout: US)

Change keyboard layout

Continue
Restore system files and settings

System Restore can help fix problems that might be making your computer run slowly or stop responding.

System Restore does not affect any of your documents, pictures, or other personal data. Recently installed programs and drivers might be uninstalled.
<table>
<thead>
<tr>
<th>Date and Time</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/14/2017 7:05:53 PM</td>
<td>System Image Restore Point</td>
<td>Backup</td>
</tr>
</tbody>
</table>

Current time zone: GMT-8:00
Confirm your restore point

Your computer will be restored to the state it was in before the event in the Description field below.

Time: 3/14/2017 7:05:53 PM (GMT-8:00)
Description: Backup: System Image Restore Point

If you have changed your Windows password recently, we recommend that you create a password reset disk.

System Restore needs to restart your computer to apply these changes. Before you proceed, save any open files and close all programs.
**Advanced options**

- **System Restore**: Use a restore point recorded on your PC to restore Windows.
- **Command Prompt**: Use the Command Prompt for advanced troubleshooting.
- **System Image Recovery**: Recover Windows using a specific system image file.
- **Startup Settings**: Change Windows startup behavior.
- **Startup Repair**: Fix problems that keep Windows from loading.
- **Go back to the previous build**:
Preparing System Image Recovery
System Image Recovery

Choose an account to continue.

- Owner

Forgot your password or don’t see your account?
System Image Recovery

Choose an account to continue.

- Owner

Forgot your password or don’t see your account?
System Image Recovery

Hi, Owner

Enter the password for this account. (Keyboard Layout: US)

Change keyboard layout

Continue
Select a system image backup

This computer will be restored using the system image. Everything on this computer will be replaced with the information in the system image.

Troubleshooting information for BMR:
http://go.microsoft.com/fwlink/p/?LinkId=225039

- Use the latest available system image (recommended)

Location: back_vista_w10 (D:)
Date and time: 3/14/2017 7:05:53 PM (GMT-8:00)
Computer: DESKTOP-JM7VOJQ
Choose additional restore options

- Format and repartition disks
  Select this to delete any existing partitions and reformat all disks on this computer to match the layout of the system image.

- Install drivers
  If you're unable to select an option above, installing the drivers for the disks you are restoring to might solve the problem.

- Advanced...

- Back
- Next
- Cancel
Your computer will be restored from the following system image:

Date and time: 14/2017 7:05:53 PM (GMT-8:00)
Computer: DESKTOP-JM7VOJQ
Drives to restore: \??\Volume{098eee29-0000-0000}

If the restore process is interrupted or fails to complete, your computer might not start up (boot). If this happens, you can use a system repair disc to try to restore the computer again or attempt other system recovery options. Create a system repair disc.
Advanced options

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

Command Prompt
Use the Command Prompt for advanced troubleshooting

System Image Recovery
Recover Windows using a specific system image file

Startup Settings
Change Windows startup behavior

Startup Repair
Fix problems that keep Windows from loading

Go back to the previous build
Startup Repair

Startup Repair couldn’t repair your PC
Press “Advanced options” to try other options to repair your PC or “Shut down” to turn off your PC.
Log file: E:\Windows\System32\Logfiles\Srt\SrtTrail.txt

[Shut down] [Advanced options]
Advanced options

- System Restore: Use a restore point recorded on your PC to restore Windows
- System Image Recovery: Recover Windows using a specific system image file
- Startup Repair: Fix problems that keep Windows from loading
- Startup Settings: Change Windows startup behavior
- Command Prompt: Use the Command Prompt for advanced troubleshooting
- Go back to the previous build
Restart to change Windows options such as:

- Enable low-resolution video mode
- Enable debugging mode
- Enable boot logging
- Enable Safe Mode
- Disable driver signature enforcement
- Disable early-launch anti-malware protection
- Disable automatic restart on system failure

[Restart]
You can also recover with

Recovery Media

1) From Microsoft
2) Create CD/DVD from Backup
Download Windows 10

Update now

We noticed you are running Windows 10. If you are looking to update to the latest version, click Update now.

Privacy

Looking to install Windows 10 on your PC?

To get started, you will first need to have a license to install Windows 10. You can then download and run the media creation tool. For more information on how to use the tool, see the instructions below.

Download tool now

Privacy

Using the tool to upgrade this PC to Windows 10 (click to show more or less information)

Using the tool to create installation media (USB flash drive, DVD, or ISO file) to install Windows 10 on a different PC (click to show more or less information)

More download options

Give feedback

What do you want to do with MediaCreationTool.exe (17.4 MB)?
From: download.microsoft.com

Save  Save as  Cancel

Use Microsoft browser – Edge or Internet Explorer

IE still available in W10

You can also boot from the recovery media, thus allowing you to repair or re-install Windows 10
Do you want to allow this app to make changes to your device?

Microsoft Windows

Verified publisher: Microsoft Corporation
File origin: CD/DVD drive

Show more details

[Yes] [No]
Get important updates

These updates will help the installation go smoothly, and can include important fixes and updated device drivers. If you don’t install these updates now, you will get them later from Windows Update.

- Download and install updates (recommended)
- Not right now

[ ] I want to help make the installation of Windows better
Privacy statement

Back Next
Getting updates

- Checking for updates
We’re getting a few things ready
Applicable notices and license terms

Please read this so you know what you’re agreeing to.

MICROSOFT SOFTWARE LICENSE TERMS

WINDOWS OPERATING SYSTEM

IF YOU LIVE IN (OR IF YOUR PRINCIPAL PLACE OF BUSINESS IS IN) THE UNITED STATES, PLEASE READ THE BINDING ARBITRATION CLAUSE AND CLASS ACTION WAIVER IN SECTION 10. IT AFFECTS HOW DISPUTES ARE RESOLVED.

Thank you for choosing Microsoft!

Depending on how you obtained the Windows software, this is a license agreement between (i) you and the device manufacturer or software installer that distributes the software with your device; or (ii) you and Microsoft Corporation (or, based on where you live or if a business where your principal place of business is located, one of its affiliates) if you acquired the software from a retailer. Microsoft is the device manufacturer for devices.
Choose what to keep

- Keep personal files and apps
  You will be able to manage your Windows settings.
- Keep personal files only
  Your settings and apps will be deleted, but your files will be kept.
- Nothing
  Everything will be deleted, including files, apps, and settings.

Your files, apps, and settings can’t be kept because you’re installing an edition of Windows that’s different than the one you’re currently using.

Back  Next
Getting updates
This may take a few minutes.

Checking for updates: 11%
Making sure you’re ready to install
This will take a few minutes.

* * *
Please wait
Making sure your PC has enough space
Ready to install

You won’t be able to use your PC while Windows installs. Save and close your files before you begin.

To recap, you’ve chosen to:

- ✅ Install Windows 10 Enterprise Evaluation
- ✅ Keep nothing

[Change what to keep]

[Back] [Install]
Installing Windows 10

Your PC will restart several times. This might take a while.

5% complete
Installing Windows 3%
Don't turn off your PC. This will take a while.

Your PC will restart several times.
Robocopy
Use Robocopy to ...

• List everything

• Copy everything (and fast!)

• Delete everything – including protected, non-accessible files and folders
Run from Windows Repair or Install media
Windows Setup

Language to install: English (United States)

Time and currency format: English (United States)

Keyboard or input method: US

Enter your language and other preferences and click "Next" to continue.

© 2016 Microsoft Corporation. All rights reserved.

Next
Choose an option

- Continue: Exit and continue to Windows 10
- Troubleshoot: Reset your PC or see advanced options
- Turn off your PC
Advanced options

- System Restore: Use a restore point recorded on your PC to restore Windows
- System Image Recovery: Recover Windows using a specific system image file
- Startup Repair: Fix problems that keep Windows from loading
- Command Prompt: Use the Command Prompt for advanced troubleshooting
- Go back to the previous build
We need to get the drive letters – not necessarily the ones shown when Windows is running.
DISKPART>
DiskPart> list disk

<table>
<thead>
<tr>
<th>Disk</th>
<th>Status</th>
<th>Size</th>
<th>Free</th>
<th>Dyn</th>
<th>Gpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disk 0</td>
<td>Online</td>
<td>32 GB</td>
<td>0 B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk 1</td>
<td>Online</td>
<td>40 GB</td>
<td>1024 KB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk 2</td>
<td>Online</td>
<td>25 GB</td>
<td>0 B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Disk Part Version 10.0.14393.0

DISKPART> list disk

<table>
<thead>
<tr>
<th>Disk</th>
<th>Status</th>
<th>Size</th>
<th>Free</th>
<th>Dyn</th>
<th>Gpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disk 0</td>
<td>Online</td>
<td>32 GB</td>
<td>0 B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk 1</td>
<td>Online</td>
<td>40 GB</td>
<td>1024 KB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk 2</td>
<td>Online</td>
<td>25 GB</td>
<td>0 B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DISKPART> list volume
Microsoft DiskPart version 10.0.14393.0

Disk ## Status Size Free Dyn Gpt
--- --------- ------ ----- ---- ---
Disk 0 Online 32 GB 0 B
Disk 1 Online 40 GB 1024 KB
Disk 2 Online 25 GB 0 B

- list disk

Volume ## Ltr Label Fs Type Size Status Info
------- ---- ------- ---- ----- ------ --------- ----
Volume 0 G CENA_X64FRE UDF CD-ROM 3722 MB Healthy
Volume 1 C System Rese NTFS Partition 500 MB Healthy
Volume 2 F NTFS Partition 31 GB Healthy
Volume 3 D back_vista_ NTFS Partition 39 GB Healthy
Volume 4 E Vista_Home NTFS Partition 24 GB Healthy

- list volume

DISKPART>

DISKPART>
X:\Sources>diskpart

Microsoft DiskPart version 10.0.14393.0

Copyright (C) 1999-2013 Microsoft Corporation.

On computer: MININT-MT1BTRA

DISKPART> list disk

<table>
<thead>
<tr>
<th>Disk ###</th>
<th>Status</th>
<th>Size</th>
<th>Free</th>
<th>Dyn</th>
<th>Gpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disk 0</td>
<td>Online</td>
<td>32 GB</td>
<td>0 B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk 1</td>
<td>Online</td>
<td>40 GB</td>
<td>1024 KB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk 2</td>
<td>Online</td>
<td>25 GB</td>
<td>0 B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DISKPART> list volume

<table>
<thead>
<tr>
<th>Volume ###</th>
<th>Ltr</th>
<th>Label</th>
<th>Fs</th>
<th>Type</th>
<th>Size</th>
<th>Status</th>
<th>Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume 0</td>
<td>G</td>
<td>CENA_X64FRE</td>
<td>UDF</td>
<td>CD-ROM</td>
<td>3722 MB</td>
<td>Healthy</td>
<td></td>
</tr>
<tr>
<td>Volume 1</td>
<td>C</td>
<td>System Rese</td>
<td>NTFS</td>
<td>Partition</td>
<td>500 MB</td>
<td>Healthy</td>
<td></td>
</tr>
<tr>
<td>Volume 2</td>
<td>F</td>
<td>W10_Ent_64</td>
<td>NTFS</td>
<td>Partition</td>
<td>31 GB</td>
<td>Healthy</td>
<td></td>
</tr>
<tr>
<td>Volume 3</td>
<td>D</td>
<td>back_vista_</td>
<td>NTFS</td>
<td>Partition</td>
<td>39 GB</td>
<td>Healthy</td>
<td></td>
</tr>
<tr>
<td>Volume 4</td>
<td>E</td>
<td>Vista_Home</td>
<td>NTFS</td>
<td>Partition</td>
<td>24 GB</td>
<td>Healthy</td>
<td></td>
</tr>
</tbody>
</table>

DISKPART> exit
X:\Sources>md d:\vista
X:\Sources>robocopy /?

ROBOCOPY :: Robust File Copy for Windows

Started : Wednesday, March 15, 2017 6:33:57 AM
Usage :: ROBOCOPY source destination [file [file]...] [options]

  source :: Source Directory (drive:\path or \server\share\path).
  destination :: Destination Dir (drive:\path or \server\share\path).
  file :: File(s) to copy (names/wildcards: default is "*.").

:: Copy options :
::
   /S :: copy Subdirectories, but not empty ones.
   /E :: copy subdirectories, including Empty ones.
   /LEV:n :: only copy the top n LEVELs of the source directory tree.
   /Z :: copy files in restartable mode.
   /B :: copy files in Backup mode.
   /ZB :: use restartable mode; if access denied use Backup mode.
   /J :: copy using unbuffered I/O (recommended for large files).
   /EFSRAW :: copy all encrypted files in EFS RAW mode.

/COPY:copyflag[s] :: what to COPY for files (default is /COPY:DAT).
   (copyflags : D=Data, A=Attributes, T=Timestamps).
/UNILOG:file :: output status to LOG file as UNICODE (overwrite existing log).
/UNILOG+:file :: output status to LOG file as UNICODE (append to existing log).

/TEE :: output to console window, as well as the log file.
/NJH :: No Job Header.
/NJS :: No Job Summary.

/UNICODE :: output status as UNICODE.

::: Job Options :
:::
/JOB:jobname :: take parameters from the named JOB file.
/SAVE:jobname :: SAVE parameters to the named job file
/QUIT :: QUIT after processing command line (to view parameters).
/NOSD :: NO Source Directory is specified.
/NODD :: NO Destination Directory is specified.
/IF :: Include the following Files.

::: Remarks :
:::

Using /PURGE or /MIR on the root directory of the volume will cause robocopy to apply the requested operation on files inside the System Volume Information directory as well. If this is not intended then the /XD switch may be used to instruct robocopy to skip that directory.

X:\Sources>robocopy /?
using option "\L" to just get listing
ROBOCOPY :: Robust File Copy for Windows

Started: Wednesday, March 15, 2017 6:37:45 AM
Source: f:\
Dest: d:\vista\
Files: ts


junction     -1  f:\Documents and Settings\  
New Dir 0     f:\$Recycle.Bin\  
New Dir 0     f:\$Recycle.Bin\S-1-5-21-421192644-1676194-3318003231-1002\  
New Dir 0     f:\PerfLogs\  
New Dir 0     f:\Program Files\  
New Dir 0     f:\Program Files\Common Files\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\ar-SA\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\bg-BG\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\cs-CZ\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\da-DK\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\de-DE\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\el-GR\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\en-GB\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\en-US\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\es-ES\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\es-MX\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\et-EE\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\fi-FI\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\fr-CA\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\fr-FR\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\fsdefinitions\  
New Dir 0     f:\Program Files\Common Files\microsoft shared\ink\fsdefinitions\
X:\sources>robocopy f: \Users d:\vista /xd appdata /e /w:1 /r:1 /xjd /tee /np /log:robocopy.log
Total Copied Skipped Mismatch FAILED Extras
Dirs : 117 55 62 0 0 0
Files : 60 60 0 0 0 0
Bytes : 8.63 m 8.63 m 0 0 0 0
Times : 0:00:01 0:00:00 0:00:00 0:00:00

Speed : 12696576 Bytes/sec.
Speed : 726.503 MegaBytes/min.
Ended : Wednesday, March 15, 2017 6:45:04 AM
Files: 60 60 0 0 0 0 0
Bytes: 8.63 m 8.63 m 0 0 0 0 0
Times: 0:00:01 0:00:00 0:00:00 0:00:00

Speed: 12696576 Bytes/sec.
Speed: 726.503 MegaBytes/min.
Ended: Wednesday, March 15, 2017 6:45:04 AM

X:\Sources>d:
D:\>dir
Volume in drive D is back_vista_w10
Volume Serial Number is 2B8A-039E
Directory of D:
01/24/2017 11:12 PM <DIR> DESKTOP-LKDSCG1
01/24/2017 07:57 PM 528 MediaID.bin
01/25/2017 06:58 AM 94 rescuepe.log
03/15/2017 06:45 AM <DIR> vista
02/09/2017 11:20 PM <DIR> Vista_Macrium_image
01/24/2017 07:57 PM <DIR> VISTA_USER-PC
03/13/2017 05:31 AM <DIR> W10_Users
03/14/2017 07:07 PM <DIR> WindowsImageBackup
  2 File(s) 622 bytes
  6 Dir(s) 23,040,978,944 bytes free
D:\>cd vista
Speed: 12696576 Bytes/sec.
Speed: 726.503 MegaBytes/min.
Ended: Wednesday, March 15, 2017 6:45:04 AM

X:\Sources> d:

D:\>dir
Volume in drive D is back_vista_w10
Volume Serial Number is 28EA-039E

Directory of D:

01/24/2017 11:12 PM <DIR> DESKTOP-LKDSCG1
01/24/2017 07:57 PM  528 MediaID.bin
01/25/2017 06:58 AM  94 rescuepe.log
03/15/2017 06:45 AM <DIR> vista
02/09/2017 11:20 PM <DIR> Vista_Macrium_image
01/24/2017 07:57 PM <DIR> VISTA_USER-PC
03/13/2017 05:31 PM <DIR> W10_Users
03/14/2017 07:07 PM <DIR> WindowsImageBackup
2 File(s)       622 bytes
6 Dir(s) 23,040,978,944 bytes free

D:\>cd vista

D:\>vista>
Times: 00:00:01 00:00:00 00:00:00 00:00:00

Speed: 12696576 Bytes/sec.
Speed: 726.503 MegaBytes/min.
Ended: Wednesday, March 15, 2017 6:45:04 AM

X:\Sources>d:

D:\>dir
Volume in drive D is back_vista_w10
Volume Serial Number is 28EA-039E

Directory of D:\
01/24/2017 11:12 PM <DIR>    DESKTOP-LKDSCG1
01/24/2017 07:57 PM <DIR>    528 MediaID.bin
01/25/2017 06:58 AM <DIR>    94 rescuepe.log
03/15/2017 06:45 AM <DIR>    vista
02/09/2017 11:20 PM <DIR>    Vista_Macrium_image
01/24/2017 07:57 PM <DIR>    VISTA_USER-PC
03/13/2017 05:31 PM <DIR>    W10_Users
03/14/2017 07:07 PM <DIR>    WindowsImageBackup
2 File(s)       622 bytes
6 Dir(s) 23,040,978,944 bytes free

D:\>cd vista
D:\vista>dir
01/24/2017 11:12 PM  <DIR>  DESKTOP-LKDSCG1
01/24/2017 07:57 PM  528  MediaID.bin
01/25/2017 06:58 AM  94  rescuepe.log
03/15/2017 06:45 AM  <DIR>  vista
02/09/2017 11:20 PM  <DIR>  Vista_Macrium_image
01/24/2017 07:57 PM  <DIR>  VISTA_USER-PC
03/13/2017 05:31 PM  <DIR>  W10_Users
03/14/2017 07:07 PM  <DIR>  WindowsImageBackup

  2 File(s)  622 bytes
  6 Dir(s)  23,040,978,944 bytes free

D:\>cd vista

D:\vista>dir
 Volume in drive D is back_vista_w10
 Volume Serial Number is 28EA-039E

 Directory of D:\vista

03/15/2017 06:45 AM  <DIR>        .
03/15/2017 06:45 AM  <DIR>        ..
03/14/2017 08:23 AM  <DIR>  defaultuser0
03/14/2017 10:51 AM  <DIR>  defaultuser0.DESKTOP-JM7VOJQ
03/14/2017 08:50 PM  <DIR>        Owner
03/14/2017 08:10 AM  <DIR>        Public

  0 File(s)  0 bytes
  6 Dir(s)  23,040,978,944 bytes free

D:\vista>
01/24/2017  11:12 PM  <DIR>  DESKTOP-LKDSCG1
01/24/2017  07:57 PM  528 MediaID.bin
01/25/2017  06:58 AM  94 rescuepe.log
03/15/2017  06:45 AM  <DIR>  vista
02/09/2017  11:20 PM  <DIR>  Vista_Macrium_image
01/24/2017  07:57 PM  <DIR>  VISTA_USER-PC
03/13/2017  05:31 PM  <DIR>  W10_Users
03/14/2017  07:07 PM  <DIR>  WindowsImageBackup
           2 File(s)        622 bytes
           6 Dir(s)  23,040,978,944 bytes free

D:\>cd vista

D:\vista>dir
Volume in drive D is back_vista_w10
Volume Serial Number is 2B6A-039E

Directory of D:\vista

03/15/2017  06:45 AM  <DIR> ..
03/15/2017  06:45 AM  <DIR>  ...
03/14/2017  08:23 AM  <DIR>  defaultuser0
03/14/2017  10:51 AM  <DIR>  defaultuser0.DESKTOP-JM7VOJQ
03/14/2017  08:50 AM  <DIR>  Owner
03/14/2017  08:10 AM  <DIR>  Public
           0 File(s)        0 bytes
           6 Dir(s)  23,040,978,944 bytes free

D:\vista>cd owner
01/24/2017  07:57 PM       528 MediaID.bin
01/25/2017  06:58 AM       94 rescuepe.log
03/15/2017  06:45 AM       <DIR> vista
02/09/2017  11:20 PM       <DIR> Vista_Macrium_image
01/24/2017  07:57 PM       <DIR> VISTA_USER-PC
03/13/2017  05:31 PM       <DIR> W10_Users
03/14/2017  07:07 PM       <DIR> WindowsImageBackup
               2 File(s)       622 bytes
               6 Dir(s)    23,040,978,944 bytes free

D:\>cd vista

D:\vista>dir
Volume in drive D is back_vista_w10
Volume Serial Number is 2B8A-039E

Directory of D:\vista

03/15/2017  06:45 AM       <DIR> .
03/15/2017  06:45 AM       <DIR> ..
03/14/2017  08:23 AM       <DIR> defaultuser0
03/14/2017  10:51 AM       <DIR> defaultuser0.DESKTOP-JM7VOJQ
03/14/2017  08:50 PM       <DIR> Owner
03/14/2017  08:10 AM       <DIR> Public
               0 File(s)        0 bytes
               6 Dir(s)    23,040,978,944 bytes free

D:\vista>cd owner

D:\vista\Owner>
01/24/2017  07:57 PM  528 MediaID.bin
01/25/2017  06:58 AM  94 rescuepe.log
03/15/2017  06:45 AM  <DIR>    vista
02/09/2017  11:20 PM  <DIR>    Vista_Macrium_image
01/24/2017  07:57 PM  <DIR>    VISTA_USER-PC
03/13/2017  05:31 PM  <DIR>    W10_Users
03/14/2017  07:07 PM  <DIR>    WindowsImageBackup

          2 File(s)   622 bytes
          6 Dir(s)  23,040,978,944 bytes free

D:>cd vista

D:vista>dir
Volume in drive D is back_vista_w10
Volume Serial Number is 28EA-039E

Directory of D:\vista

03/15/2017  06:45 AM  <DIR>    .
03/15/2017  06:45 AM  <DIR>    ..
03/14/2017  08:23 AM  <DIR>    defaultuser0
03/14/2017  10:51 AM  <DIR>    defaultuser0.DESKTOP-JM7VAKQ
03/14/2017  08:50 PM  <DIR>    Owner
03/14/2017  08:10 AM  <DIR>    Public

          0 File(s)   0 bytes
          6 Dir(s)  23,040,978,944 bytes free

D:vista>cd owner
D:vista\Owner>dir
03/14/2017  08:10 AM    <DIR>    Public
                 0 File(s)     0 bytes
                 6 Dir(s)    23,040,978,944 bytes free

D:\vista>cd owner

D:\vista\Owner>dir
Volume in drive D is back_vista_w10
Volume Serial Number is 2B6A-039E

Directory of D:\vista\Owner

03/14/2017  08:50 PM    <DIR>    .
03/14/2017  08:50 PM    <DIR>    ..
03/14/2017  08:50 PM    <DIR>
03/14/2017  04:54 PM    <DIR>    Contacts
03/14/2017  04:54 PM    <DIR>    Desktop
03/14/2017  04:54 PM    <DIR>    Documents
03/14/2017  04:54 PM    <DIR>    Downloads
03/14/2017  04:54 PM    <DIR>    Favorites
03/14/2017  04:54 PM    <DIR>    Links
03/14/2017  04:54 PM    <DIR>    Music
03/14/2017  04:54 PM    <DIR>    OneDrive
03/14/2017  04:54 PM    <DIR>    Pictures
03/14/2017  04:54 PM    <DIR>    Saved Games
03/14/2017  04:54 PM    <DIR>    Searches
03/14/2017  04:54 PM    <DIR>    Videos
                 0 File(s)     0 bytes
                 14 Dir(s)    23,040,978,944 bytes free

D:\vista\Owner>
<table>
<thead>
<tr>
<th>Directory</th>
<th>Size</th>
<th>File</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>F:\Windows\WinSxS\x86_wcf-system.servicemodel_b03f5f7f11d50a3a_10.0.14393.0_none_cbf9b86c8ba3f1fd\</td>
<td>5.7 m</td>
<td>System.ServiceModel.dll</td>
<td></td>
</tr>
<tr>
<td>F:\Windows\WinSxS\x86_wcf-system.servicemodel_b03f5f7f11d50a3a_10.0.14393.953_none_ea07b \d1a980e6e40\</td>
<td>5.7 m</td>
<td>System.ServiceModel.dll</td>
<td></td>
</tr>
<tr>
<td>F:\Windows\WinSxS\x86_wordbreakerstemmer-neutral-legacy_31bf3856ad364e35_7.0.14393.0_none_e_338db577a0176843\</td>
<td>741</td>
<td>NOISE.DAT</td>
<td></td>
</tr>
<tr>
<td>F:\Windows\WinSxS\x86_wpf-presentationhost.exe \87e73116a\</td>
<td>244736</td>
<td>PresentationHost.exe</td>
<td></td>
</tr>
<tr>
<td>F:\Windows\WinSxS\x86_wpf-presentationhostproxy_31bf3856ad364e35_10.0.14393.0_none_6a3d824509c\</td>
<td>50688</td>
<td>PresentationHostProxy.dll</td>
<td></td>
</tr>
</tbody>
</table>

---

Total | Copied | Skipped | Mismatch | FAILED | Extras |
------|--------|---------|----------|--------|--------|
24963 | 24889  | 74      | 0        | 0      | 5      |
147854 | 147854 | 0       | 0        | 0      | 1      |
19.591 g | 19.591 g | 0      | 0        | 0      | 174    |
1:29:59 | 0:57:44 | 0:00:00 | 0:32:15 |

Speed: 6071635 Bytes/sec.
Speed: 347.421 MegaBytes/min.
Ended: Wednesday, March 15, 2017 8:21:18 AM
Now let’s try to delete the Windows folder – we need the extra disk space
Folder Access Denied

You need permission to perform this action

You require permission from TrustedInstaller to make changes to this folder

Windows
Date created: 11/2/2006 3:18 AM

Try Again  Cancel
<table>
<thead>
<tr>
<th>Volume</th>
<th>Ltr</th>
<th>Label</th>
<th>Fs</th>
<th>Type</th>
<th>Size</th>
<th>Status</th>
<th>Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume 0</td>
<td>G</td>
<td>CENA_X64FRE</td>
<td>UDF</td>
<td>CD-ROM</td>
<td>3722 MB</td>
<td>Healthy</td>
<td></td>
</tr>
<tr>
<td>Volume 1</td>
<td>C</td>
<td>System Rese</td>
<td>NTFS</td>
<td>Partition</td>
<td>500 MB</td>
<td>Healthy</td>
<td></td>
</tr>
<tr>
<td>Volume 2</td>
<td>F</td>
<td>W10_Ent_64</td>
<td>NTFS</td>
<td>Partition</td>
<td>31 GB</td>
<td>Healthy</td>
<td></td>
</tr>
<tr>
<td>Volume 3</td>
<td>D</td>
<td>back_vista</td>
<td>NTFS</td>
<td>Partition</td>
<td>39 GB</td>
<td>Healthy</td>
<td></td>
</tr>
<tr>
<td>Volume 4</td>
<td>E</td>
<td>Vista_Home</td>
<td>NTFS</td>
<td>Partition</td>
<td>24 GB</td>
<td>Healthy</td>
<td></td>
</tr>
</tbody>
</table>
Make empty directory
This should have worked, but didn’t. We’ll try one more way.
This uses the “/mir” option.
E:\Windows>dir e:\windows
Empty!
Let’s delete Windows directory.
Oops! Let’s exit and re-try.
X:\Sources>rd e:\windows
X:\Sources>rd e:\windows

X:\Sources>dir e:\
  Volume in drive E is Vista_Home
  Volume Serial Number is 3CD5-9A53

  Directory of e:

  09/18/2006 01:43 PM       24 autoexec.bat
  09/18/2006 01:43 PM       10 config.sys
  01/20/2008 06:32 PM       <DIR>        PerfLogs
  01/25/2017 06:05 AM       <DIR>        Program Files
  01/26/2017 06:18 AM       635,882 Reflect_Install.log
  01/25/2017 06:04 AM       139,419,648 Rescue.iso
  01/24/2017 04:48 PM       <DIR>        Users
                         4 File(s)     140,055,564 bytes
                         3 Dir(s)      21,849,702,400 bytes free

X:\Sources>dir e:\windows
  Volume in drive E is Vista_Home
  Volume Serial Number is 3CD5-9A53

  Directory of e:

  File Not Found

X:\Sources>
SysInternals
Office 365: Get started with Microsoft Teams

Learn about the chat-based workspace in Microsoft Office 365. With your dedicated hub, this collaboration tool connects you with colleagues, project documents, and tools—and it helps foster communication within your team. You can access Microsoft Teams from any Windows, iOS, or Android device to chat, share files, and organize a project with your group.

Read more on IT Showcase

Microsoft Teams ➔

Microsoft Office 365 ➔
Windows Sysinternals: Documentation, downloads and ...

Windows Sysinternals. The Sysinternals web site was created in 1996 by Mark Russinovich to host his advanced system utilities and technical information.
• Sysinternals is portable

• No installation required
• 1\textsuperscript{st} take a Restore Point
Create a restore point

Type a description to help you identify the restore point. The current date and time are added automatically.

[Entered: autorund]
The restore point was created successfully.
<table>
<thead>
<tr>
<th>Process Name</th>
<th>CPU (%)</th>
<th>Private Bytes (KB)</th>
<th>Working Set (KB)</th>
<th>PID</th>
<th>Description</th>
<th>Company Name</th>
<th>Verified Signer</th>
<th>VirusTotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Idle Process</td>
<td>32.46</td>
<td>0</td>
<td>4 K</td>
<td>4</td>
<td>n/a Hardware Interrupts and DPCs</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>System</td>
<td>0.60</td>
<td>136 K</td>
<td>4,604 K</td>
<td>4</td>
<td>Hardware Interrupts and DPCs</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>System</td>
<td>0.99</td>
<td>392 K</td>
<td>1,176 K</td>
<td>348</td>
<td>Windows Session Manager</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>Memory Compression</td>
<td>&lt; 0.01</td>
<td>112 K</td>
<td>24,464 K</td>
<td>2292</td>
<td>Windows Memory Compression</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wininit.exe</td>
<td>1.300</td>
<td>3,744 K</td>
<td>7,744 K</td>
<td>520</td>
<td>Windows Start-Up Application</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>Services.exe</td>
<td>1,168</td>
<td>4,760 K</td>
<td>6,240 K</td>
<td>584</td>
<td>Services and Controller app</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service.exe</td>
<td>3,648</td>
<td>6,292 K</td>
<td>9,240 K</td>
<td>584</td>
<td>Services and Controller app</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.04</td>
<td>8,136 K</td>
<td>22,084 K</td>
<td>672</td>
<td>Host Process for Windows Services</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/61</td>
</tr>
<tr>
<td>WmiPrvSE.exe</td>
<td>6.01</td>
<td>5,956 K</td>
<td>13,496 K</td>
<td>2700</td>
<td>WMI Provider Host</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>ShellExperienceHost.exe</td>
<td>0.06</td>
<td>21,140 K</td>
<td>46,656 K</td>
<td>3458</td>
<td>Runtime Broker</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>SearchUI.exe</td>
<td>75,440</td>
<td>133,384 K</td>
<td>133,384 K</td>
<td>1816</td>
<td>Search and Cortana app</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RuntimeBroker.exe</td>
<td>0.06</td>
<td>22,140 K</td>
<td>46,656 K</td>
<td>3458</td>
<td>Runtime Broker</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>SettingSyncHost.exe</td>
<td>5,452</td>
<td>6,048 K</td>
<td>10,288 K</td>
<td>4672</td>
<td>Host Process for Setting Sync</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>smartscreen.exe</td>
<td>12,316</td>
<td>23,540 K</td>
<td>8,436 K</td>
<td>5036</td>
<td>SmartScreen</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>unsecapp.exe</td>
<td>1,232</td>
<td>6,528 K</td>
<td>7,208 K</td>
<td>3024</td>
<td>Sink to receive asynchronous messages</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>InstallAgent.exe</td>
<td>2,016</td>
<td>10,528 K</td>
<td>10,528 K</td>
<td>1372</td>
<td>InstallAgent</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RegInstallAgent.exe</td>
<td>2,248</td>
<td>10,076 K</td>
<td>10,076 K</td>
<td>4916</td>
<td>RegInstallAgent</td>
<td>Microsoft Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ApplicationFrameHost.exe</td>
<td>4,132</td>
<td>19,068 K</td>
<td>19,068 K</td>
<td>5308</td>
<td>Application Frame Host</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/61</td>
</tr>
<tr>
<td>dllhost.exe</td>
<td>4,004</td>
<td>11,396 K</td>
<td>11,396 K</td>
<td>6596</td>
<td>COM Surrogate</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/61</td>
</tr>
<tr>
<td>WmiPrvSE.exe</td>
<td>0.04</td>
<td>2,336 K</td>
<td>8,352 K</td>
<td>7132</td>
<td>WMI Provider Host</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.33</td>
<td>4,984 K</td>
<td>10,796 K</td>
<td>776</td>
<td>Host Process for Windows Services</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.02</td>
<td>51,604 K</td>
<td>63,368 K</td>
<td>948</td>
<td>Host Process for Windows Services</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>WUDFHost.exe</td>
<td>1,916</td>
<td>7,924 K</td>
<td>11,96 K</td>
<td>1196</td>
<td>Windows Driver Foundation</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/59</td>
</tr>
<tr>
<td>dasHost.exe</td>
<td>4,884</td>
<td>13,244 K</td>
<td>2316 K</td>
<td>2316</td>
<td>Device Association Framework</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/61</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.55</td>
<td>65,320 K</td>
<td>71,184 K</td>
<td>404</td>
<td>Host Process for Windows Services</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/61</td>
</tr>
<tr>
<td>sshost.exe</td>
<td>0.03</td>
<td>5,984 K</td>
<td>28,052 K</td>
<td>4088</td>
<td>Shell Infrastructure Host</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>taskhostsvr.exe</td>
<td>0.001</td>
<td>18,320 K</td>
<td>31,400 K</td>
<td>3240</td>
<td>Host Process for Windows Taskhostsvr</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>DriverUpdate.exe</td>
<td>0.06</td>
<td>15,708 K</td>
<td>4,084 K</td>
<td>3596</td>
<td>DriverUpdate</td>
<td>SlimWare Utilities, Inc</td>
<td>(Verified)</td>
<td>3/61</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.06</td>
<td>13,728 K</td>
<td>25,680 K</td>
<td>692</td>
<td>Host Process for Windows Services</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.03</td>
<td>10,100 K</td>
<td>22,304 K</td>
<td>1064</td>
<td>Host Process for Windows Services</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.02</td>
<td>7,544 K</td>
<td>17,264 K</td>
<td>1332</td>
<td>Host Process for Windows Services</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.01</td>
<td>18,760 K</td>
<td>31,400 K</td>
<td>3240</td>
<td>Host Process for Windows Taskhostsvr</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>audiogd.exe</td>
<td>0.01</td>
<td>15,708 K</td>
<td>4,084 K</td>
<td>3596</td>
<td>DriverUpdate</td>
<td>SlimWare Utilities, Inc</td>
<td>(Verified)</td>
<td>3/61</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.06</td>
<td>13,728 K</td>
<td>25,680 K</td>
<td>692</td>
<td>Host Process for Windows Services</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>0.02</td>
<td>7,544 K</td>
<td>17,264 K</td>
<td>1332</td>
<td>Host Process for Windows Services</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
<tr>
<td>spoolsrv.exe</td>
<td>0.01</td>
<td>5,532 K</td>
<td>13,852 K</td>
<td>1684</td>
<td>Spooler SubSystem App</td>
<td>Microsoft Corporation</td>
<td>(Verified)</td>
<td>0/62</td>
</tr>
</tbody>
</table>
### Options Menu

- **Verify Image Signatures**
  - **Check VirusTotal.com**

<table>
<thead>
<tr>
<th>Process Name</th>
<th>Bytes</th>
<th>Working Set</th>
<th>PID</th>
<th>Description</th>
<th>Company Name</th>
<th>VirusTotal.com</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Task Manager</td>
<td>392 K</td>
<td>1,176 K</td>
<td>348</td>
<td>Windows Session Manager</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>Hide When Minimized</td>
<td>112 K</td>
<td>22,162 K</td>
<td>2392</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Always On Top</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Confirm Kill</td>
<td>136 K</td>
<td>22,084 K</td>
<td>672</td>
<td>Host Process for Windows Srvr</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>Tray Icons</td>
<td></td>
<td></td>
<td></td>
<td>Search and Cortana application</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>Configure Symbols</td>
<td>508 K</td>
<td>45,568 K</td>
<td>3468</td>
<td>Runtime Broker</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>Configure Colors</td>
<td>452 K</td>
<td>5,492 K</td>
<td>4672</td>
<td>Host Process for Setting Sync</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>Difference Highlight Duration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Font</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>InstallAgentUserBroker</td>
<td>2,248</td>
<td>18,856 K</td>
<td>5308</td>
<td>Application Frame Host</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>ApplicationFrameHost</td>
<td>3,748</td>
<td>18,856 K</td>
<td>5308</td>
<td>Application Frame Host</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>dihost.exe</td>
<td>2,128</td>
<td>9,644 K</td>
<td>6596</td>
<td>COM Surrogate</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>WmiPrvSE.exe</td>
<td>2,168</td>
<td>8,324 K</td>
<td>7132</td>
<td>WMI Provider Host</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>1.12 K</td>
<td>51,976 K</td>
<td>6373</td>
<td>SmartScreen</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>WUDFHost.exe</td>
<td>1.916</td>
<td>7,924 K</td>
<td>1196</td>
<td>Windows Driver Foundation - WDF</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>dehost.exe</td>
<td>4,884</td>
<td>13,244 K</td>
<td>2316</td>
<td>Device Association Framework</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>2.43 K</td>
<td>65,324 K</td>
<td>70,900</td>
<td>404 Host Process for Windows Srvr</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>WIAPI16.exe</td>
<td>5.832</td>
<td>27,968 K</td>
<td>4088</td>
<td>Shell Infrastructure Host</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>taskhostw.exe</td>
<td>0.07 K</td>
<td>18,760 K</td>
<td>31,400</td>
<td>Host Process for Windows TaskHostW</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>DriverUpdate.exe</td>
<td>0.24 K</td>
<td>15,768 K</td>
<td>4,132</td>
<td>DriverUpdate</td>
<td>SlimWare Utilities, Inc.</td>
<td>3/61</td>
</tr>
<tr>
<td>audiogd.exe</td>
<td>5,896</td>
<td>10,544 K</td>
<td>6240</td>
<td>Windows Audio Device Graph</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>spoolsv.exe</td>
<td>3,284</td>
<td>11,180 K</td>
<td>1468</td>
<td>Host Process for Windows Srvr</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>4,308</td>
<td>15,768 K</td>
<td>4,132</td>
<td>DriverUpdate</td>
<td>SlimWare Utilities, Inc.</td>
<td>3/61</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>7,540</td>
<td>17,260 K</td>
<td>1332</td>
<td>Host Process for Windows TaskHostW</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>2,424</td>
<td>9,180 K</td>
<td>1424</td>
<td>Host Process for Windows TaskHostW</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>svchost.exe</td>
<td>4,508</td>
<td>14,552 K</td>
<td>1576</td>
<td>Host Process for Windows TaskHostW</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>spoolsv.exe</td>
<td>5,532</td>
<td>13,872 K</td>
<td>1684</td>
<td>Spooler SubSystem App</td>
<td>Microsoft Corporation</td>
<td>0/62</td>
</tr>
<tr>
<td>Antivirus</td>
<td>Result</td>
<td>Update</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>------------------------------------------------------------------------</td>
<td>---------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DrWeb</td>
<td>Program.Unwanted.341</td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Palo Alto Networks (Known Signatures)</td>
<td>generic.pup</td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rising</td>
<td>Malware.Undefin8.C (cloud:yVqMiZvAzKT)</td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ad-Aware</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AegisLab</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AhnLab-V3</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alibaba</td>
<td></td>
<td>20170228</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALYac</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antiy-AVL</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arcabit</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avast</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVG</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avira (no cloud)</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVWare</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baidu</td>
<td></td>
<td>20170314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autorun Entry</td>
<td>Description</td>
<td>Publisher</td>
<td>Image Path</td>
<td>Timestamp</td>
<td>VirusTotal</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>---------------------------</td>
<td>----------------------------------</td>
<td>---------------------------------</td>
<td>--------------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Microsoft\Windows\Current...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows Defender</td>
<td>2/3/2017 1:11 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKCU\SOFTWARE\Microsoft\Windows\Current...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows Defender</td>
<td>3/15/2017 10:15 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Microsoft\Windows\Current...</td>
<td>OneDrive</td>
<td>Microsoft OneDrive</td>
<td>windows defender</td>
<td>9/7/2016 12:50 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Microsoft\Windows\Current...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>2/3/2017 1:11 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Microsoft\Windows\Current...</td>
<td>OneDrive</td>
<td>Microsoft OneDrive</td>
<td>windows defender</td>
<td>3/15/2017 10:15 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Microsoft\Active Setup...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>9/7/2016 12:50 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>2/3/2017 1:11 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>3/15/2017 10:15 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft...</td>
<td>OneDrive</td>
<td>Microsoft OneDrive</td>
<td>windows defender</td>
<td>9/7/2016 12:50 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>2/3/2017 1:11 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft...</td>
<td>OneDrive</td>
<td>Microsoft OneDrive</td>
<td>windows defender</td>
<td>3/15/2017 10:15 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>9/7/2016 12:50 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft...</td>
<td>OneDrive</td>
<td>Microsoft OneDrive</td>
<td>windows defender</td>
<td>2/3/2017 1:11 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>3/15/2017 10:15 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Classes\ShellEx\ContextMen...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>9/7/2016 12:50 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Classes\Drive\ShellEx\ContextMen...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>2/3/2017 1:11 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Classes\Drive\ShellEx\ContextMen...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>3/15/2017 10:15 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Classes\Directory\ShellEx\ContextMen...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>9/7/2016 12:50 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Classes\Explorer\ShellEx\ContextMen...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>2/3/2017 1:11 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Classes\Explorer\ShellEx\ContextMen...</td>
<td>Windows Defender</td>
<td>Windows Defender</td>
<td>windows defender</td>
<td>3/15/2017 10:15 PM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Autoruns Scan Options**

- Scan only per-user locations
- Verify code signatures
- Check VirusTotal.com
- Submit Unknown Images

**Buttons:**
- Rescan
- Cancel
### Autoruns Scan Options

- **Scan only per-user locations**
- **Verify code signatures**
- **Check VirusTotal.com**
- **Submit Unknown Images**

### VirusTotal Terms of Service

You must agree to VirusTotal’s terms of service to use VirusTotal features.

[Yes] [No]
<table>
<thead>
<tr>
<th>Autorun Entry</th>
<th>Description</th>
<th>Publisher</th>
<th>Image Path</th>
<th>Timestamp</th>
<th>VirusTotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>HKLM\SYSTEM\CurrentControlSet\Control\SafeBoot\AlternateShell</td>
<td>cmd.exe</td>
<td>Windows Command Processor</td>
<td>c:\windows\syswow64\cmd.exe</td>
<td>7/16/2016 7:48 AM</td>
<td>0/62</td>
</tr>
<tr>
<td>HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run</td>
<td>OneDrive</td>
<td>Microsoft OneDrive</td>
<td>c:\users\hiker\appdata\local\OneDrive \ OneDrive.exe</td>
<td>12/13/2016 12:15 AM</td>
<td>0/62</td>
</tr>
<tr>
<td>HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run</td>
<td>Skype</td>
<td>Skype Saarl</td>
<td>c:\program files (x86)\skype\p</td>
<td>2/8/2017 4:15 AM</td>
<td>0/60</td>
</tr>
<tr>
<td>HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run</td>
<td>SlimCleaner Plus</td>
<td>SlimCleaner Plus</td>
<td>c:\program files\slimcleaner plus</td>
<td>10/25/2016 4:16 PM</td>
<td>2/59</td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Microsoft\Active Setup\Installed Components</td>
<td>n/a</td>
<td>Microsoft Corporation</td>
<td>c:\windows\system32\mscorie.exe</td>
<td>5/18/2016 10:48 PM</td>
<td>0/58</td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft\Active Setup\Installed Components</td>
<td>n/a</td>
<td>Microsoft Corporation</td>
<td>c:\windows\syswow64\mscorie.exe</td>
<td>5/18/2016 11:19 PM</td>
<td>0/60</td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\ShellServiceObjects</td>
<td>Network Tray SSO</td>
<td>n/a</td>
<td>c:\windows\syswow64\pinidui.dll</td>
<td>7/16/2016 7:49 AM</td>
<td>The system cannot find the file...</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>DriverUpdate</td>
<td>DriverUpdate</td>
<td>c:\program files (x86)\driverupdate</td>
<td>3/9/2017 4:30 PM</td>
<td>3/61</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>DriverUpdate</td>
<td>DriverUpdate</td>
<td>c:\program files (x86)\driverupdate</td>
<td>3/9/2017 4:30 PM</td>
<td>3/61</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft \ Windo...</td>
<td>Microsoft \ Windo...</td>
<td>c:\windows\syswow64\deviceclassmanager</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Autorun Entry</td>
<td>Description</td>
<td>Publisher</td>
<td>Image Path</td>
<td>Timestamp</td>
<td>VirusTotal</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
<td>-----------</td>
<td>------------</td>
<td>-----------------</td>
<td>------------</td>
</tr>
<tr>
<td>HKLM\SYSTEM\CurrentControlSet\Control\SafeBoot\AlternateShell</td>
<td>cmd.exe</td>
<td>Windows Command Processor</td>
<td>c:\windows\syswow64\cmd.exe</td>
<td>7/16/2016 7:48 AM</td>
<td>0/62</td>
</tr>
<tr>
<td>HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run</td>
<td>Microsoft OneDrive</td>
<td>OneDrive</td>
<td>c:\users\hiker\appdata\local...</td>
<td>12/13/2016 12:15 AM</td>
<td>0/62</td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Microsoft\Active Setup\Installed Components</td>
<td>Microsoft .NET IE Security Zones</td>
<td>Microsoft Corporation</td>
<td>c:\windows\system32\mscoree...</td>
<td>5/18/2016 10:48 PM</td>
<td>0/58</td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Wow6432Node\Microsoft\Active Setup\Installed Components</td>
<td>Microsoft .NET IE Security Zones</td>
<td>Microsoft Corporation</td>
<td>c:\windows\system32\mscoree...</td>
<td>5/18/2016 11:19 AM</td>
<td>0/60</td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\ShellServiceObjects</td>
<td>Network Tray SSO</td>
<td>Microsoft Corporation</td>
<td>c:\windows\syswow64\pinidui.dll</td>
<td>7/16/2016 7:48 AM</td>
<td>The system cannot find the file...</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>DriverUpdate Scan</td>
<td>DriverUpdate</td>
<td>(Verified) Slimware Utilities Hold...</td>
<td>3/9/2017 4:30 PM</td>
<td>3/61</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>DriverUpdate Sta...</td>
<td>DriverUpdate</td>
<td>(Verified) Slimware Utilities Hold...</td>
<td>3/9/2017 4:30 PM</td>
<td>3/61</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft\Wind...</td>
<td>Microsoft Corporation</td>
<td>c:\windows\syswow64\ostask...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft\Wind...</td>
<td>Microsoft Corporation</td>
<td>c:\windows\syswow64\device...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft\Wind...</td>
<td>Microsoft Corporation</td>
<td>c:\windows\syswow64\fhtask.dl...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft\Wind...</td>
<td>Microsoft Corporation</td>
<td>c:\windows\syswow64\musno...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft\Wind...</td>
<td>Microsoft Corporation</td>
<td>c:\program files\windows def...</td>
<td>3/4/2017 2:27 AM</td>
<td>0/61</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft\Wind...</td>
<td>Microsoft Corporation</td>
<td>c:\program files\windows def...</td>
<td>3/4/2017 2:27 AM</td>
<td>0/61</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft\Wind...</td>
<td>Microsoft Corporation</td>
<td>c:\program files\windows def...</td>
<td>3/4/2017 2:27 AM</td>
<td>0/61</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Microsoft\Wind...</td>
<td>Microsoft Corporation</td>
<td>c:\program files\windows def...</td>
<td>3/4/2017 2:27 AM</td>
<td>0/61</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>NCH Software\Vi... VideoPad Video Editor</td>
<td>NCH Software</td>
<td>c:\program files (x86)\nch soft...</td>
<td>2/16/2017 8:23 PM</td>
<td>0/62</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>OneDrive Stand... Standalone Updater</td>
<td>OneDrive</td>
<td>c:\users\hiker\appdata\local...</td>
<td>12/13/2016 12:18 AM</td>
<td>0/62</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>Safer-Networking... Spybot Anti-Beacon</td>
<td>Safer-Networking Ltd.</td>
<td>c:\program files (x86)\spybot a...</td>
<td>12/31/1969 8:00 AM</td>
<td>0/60</td>
</tr>
<tr>
<td>Task Scheduler</td>
<td>\SlimCleaner Plus ... SlimCleaner Plus</td>
<td>SlimCleaner Plus</td>
<td>c:\program files.slimcleaner plus...</td>
<td>10/25/2016 4:16 PM</td>
<td>2/59</td>
</tr>
<tr>
<td>Autorun Entry</td>
<td>Description</td>
<td>Publisher</td>
<td>Image Path</td>
<td>Timestamp</td>
<td>VirusTotal</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>-----------------</td>
<td>------------</td>
</tr>
<tr>
<td>SlimService</td>
<td>Services SlimWare Utilities app...  (Verified)</td>
<td>Slimware Utilities Holdout</td>
<td>c:\program files\slimservice\slimservice\slimservice.exe</td>
<td>8/29/2016 4:35 PM</td>
<td>1/59</td>
</tr>
<tr>
<td>SMTRAP</td>
<td>Receives trap messages generated by other programs</td>
<td></td>
<td>c:\windows\syswow64\smtrap\smtrap.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSDPSRV</td>
<td>Discovers networked devices for end users to share</td>
<td></td>
<td>c:\windows\syswow64\ssdpsrv\ssdpsrv.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>StpSvc</td>
<td>Provides support for the Secure Socket Protocol</td>
<td></td>
<td>c:\windows\syswow64\stpSvc\stpSvc.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WdNsSvc</td>
<td>Helps guard against intrusion a...  (Verified)</td>
<td>Microsoft Corporation</td>
<td>c:\program files\windows\defense\wdnsvc.exe</td>
<td>7/15/2016 10:24 PM</td>
<td>0/61</td>
</tr>
<tr>
<td>WinDefend</td>
<td>Helps protect users from malware</td>
<td>Microsoft Corporation</td>
<td>c:\program files\windows\defense\windefend.exe</td>
<td>3/4/2017 2:34 AM</td>
<td>0/60</td>
</tr>
<tr>
<td>wisvc</td>
<td></td>
<td>wisvc</td>
<td>c:\windows\syswow64\flightse\wisvc.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>workfolderssvc</td>
<td>This service syncs files with the workfolders</td>
<td></td>
<td>c:\windows\syswow64\workfolders\workfolderssvc.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WpnUserService</td>
<td>This service hosts Windows no...</td>
<td></td>
<td>c:\windows\syswow64\wpnuservice\wpnuservice.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKLMS\CurrentControlSet\Services</td>
<td></td>
<td></td>
<td>3/15/2017 10:17 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>acache</td>
<td>Cache Compatibility Data and...</td>
<td></td>
<td>c:\windows\syswow64\drivers\acache.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>amsata</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\amsata.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>browsr</td>
<td>Implements the kernel datagram protocol</td>
<td></td>
<td>c:\windows\syswow64\drivers\browsr.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cht4bd</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\cht4bd.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNG</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\CNG.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>dc3d</td>
<td>Filter Driver for Identification of... (Verified)</td>
<td>Microsoft Corporation</td>
<td>c:\windows\system32\drivers\dc3d.exe</td>
<td>11/6/2015 3:14 PM</td>
<td>0/61</td>
</tr>
<tr>
<td>EhStorTcgDrv</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\EhStorTcgDrv.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hidlr</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\Hidlr.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTTP</td>
<td>HTTP Service</td>
<td></td>
<td>c:\windows\syswow64\drivers\HTTP.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iaLPSS2_I2C</td>
<td>Intel(R) Serial IO I2C Driver v2 (Verified)</td>
<td>Intel Corporation - Embedded Systems Alliance</td>
<td>c:\windows\system32\drivers\iaLPSS2_I2C.exe</td>
<td>3/2/2016 10:06 PM</td>
<td>0/59</td>
</tr>
<tr>
<td>iaLPSSI_GPIO</td>
<td>Intel(R) Serial IO GPIO Controller (Verified)</td>
<td>Intel Corporation - Embedded Systems Alliance</td>
<td>c:\windows\system32\drivers\iaLPSSI_GPIO.exe</td>
<td>2/2/2015 5:00 AM</td>
<td>0/61</td>
</tr>
<tr>
<td>iaLPSSI_I2C</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\iaLPSSI_I2C.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LSI_SAS2</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\LSI_SAS2.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mountmgr</td>
<td>Driver responsible with maintai...</td>
<td></td>
<td>c:\windows\syswow64\drivers\mountmgr.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mafs</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\Mafs.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MarPC</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\MarPC.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NuidFiltr</td>
<td>Filter Driver for Microsoft Hard...  (Verified)</td>
<td>Microsoft Corporation</td>
<td>c:\windows\system32\drivers\NuidFiltr.exe</td>
<td>10/27/2015 2:15 PM</td>
<td>0/56</td>
</tr>
<tr>
<td>pcmcia</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers\pcmcia.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autorun Entry</td>
<td>Description</td>
<td>Publisher</td>
<td>Image Path</td>
<td>Timestamp</td>
<td>VirusTotal</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------------------------------</td>
<td>------------------------------------------------</td>
<td>------------------------------------------------</td>
<td>---------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>LSI_SAS2</td>
<td>Driver responsible with maintai...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>10/27/2015 2:15 PM</td>
<td>0/56</td>
</tr>
<tr>
<td>mountmgr</td>
<td>Driver responsible with maintai...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>Mfs</td>
<td>Driver responsible with maintai...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>MsRPC</td>
<td>Driver responsible with maintai...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>NuidFilt</td>
<td>Filter Driver for Microsoft Hardware</td>
<td>(Verified) Microsoft Corporation</td>
<td>c:\windows\system32\drivers...</td>
<td>10/27/2015 2:15 PM</td>
<td>0/56</td>
</tr>
<tr>
<td>pcmcia</td>
<td>Link-Layer Topology Discovery...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>rspndr</td>
<td>Enables connectivity from Win...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>srv</td>
<td>Enables connectivity from Win...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>SWDUMon</td>
<td>Driver Update Installer Monitor</td>
<td>(Verified) SlimWare Utilities Inc.</td>
<td>c:\windows\system32\drivers...</td>
<td>7/20/2010 10:13 AM</td>
<td>1/61</td>
</tr>
<tr>
<td>TPM</td>
<td>@tpm.inf,%TPMDesc%:TPM D...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>USBSTOR</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>VBoxDrv</td>
<td>VirtualBox Support Driver</td>
<td>(Verified) Oracle Corporation</td>
<td>c:\windows\system32\drivers...</td>
<td>3/8/2017 10:55 AM</td>
<td>0/61</td>
</tr>
<tr>
<td>VBoxNetAdp</td>
<td>VirtualBox NDIS 6.0 Host-Only ...</td>
<td>(Verified) Oracle Corporation</td>
<td>c:\windows\system32\drivers...</td>
<td>3/8/2017 10:55 AM</td>
<td>0/59</td>
</tr>
<tr>
<td>VBoxNetLwf</td>
<td>VirtualBox NDIS 6.0 Host-Only ...</td>
<td>(Verified) Oracle Corporation</td>
<td>c:\windows\system32\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>VBoxUSBMon</td>
<td>VirtualBox USB Monitor Driver</td>
<td>(Verified) Oracle Corporation</td>
<td>c:\windows\system32\drivers...</td>
<td>3/8/2017 10:55 AM</td>
<td>0/61</td>
</tr>
<tr>
<td>vhf</td>
<td>Kernel mode driver that impleme...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>vmbus</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>volmgr</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>WacomPen</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>wanarpv6</td>
<td>Remote Access IPv6 ARP Driver</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>WFLWFS</td>
<td>Microsoft Windows Filtering Platform...</td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>WmiAcpi</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>yukonw8</td>
<td></td>
<td></td>
<td>c:\windows\syswow64\drivers...</td>
<td>The system cannot find the file...</td>
<td></td>
</tr>
<tr>
<td>HKLM\SOFTWARE\Classes\Htmfile\Shell\Open\Command(Default)</td>
<td></td>
<td></td>
<td>2/3/2017 1:09 PM</td>
<td>0/60</td>
<td></td>
</tr>
<tr>
<td>HKLM\Program Files\Internet Explorer</td>
<td>(Verified) Microsoft Corporation</td>
<td>c:\program files\internet explor...</td>
<td>3/4/2017 2:25 AM</td>
<td>0/60</td>
<td></td>
</tr>
<tr>
<td>HKLM\System\CurrentControlSet\Control\Session Manager\KnownDlls</td>
<td></td>
<td></td>
<td>7/16/2016 7:48 AM</td>
<td>0/60</td>
<td></td>
</tr>
</tbody>
</table>
Privacy Settings

In Windows 10
Get going fast

Change these at any time. Select Use Express settings to:

Personalize your speech, typing, and inking input by sending contacts and calendar details, along with other associated input data to Microsoft. Let Microsoft use that info to improve the suggestion and recognition platforms.

Let Windows and apps request your location, including location history, and use your advertising ID to personalize your experiences. Send Microsoft and trusted partners some location data to improve location services.

Help protect you from malicious web content and use page prediction to improve reading, speed up browsing, and make your overall experience better in Windows browsers. Your browsing data will be sent to Microsoft.

Automatically connect to suggested open hotspots and shared networks. Not all networks are secure.

Send error and diagnostic information to Microsoft.

Learn more

Customize settings
Customize settings

Personalization

Personalize your speech, typing, and inking input by sending contacts and calendar details, along with other associated input data to Microsoft.
On

Send typing and inking data to Microsoft to improve the recognition and suggestion platform.
On

Let apps use your advertising ID for experiences across apps.
On

Location

Let Windows and apps request your location, including location history, and send Microsoft and trusted partners some location data to improve location services.
On
Customize settings

Personalization

Personalize your speech, typing, and inking input by sending contacts and calendar details, along with other associated input data to Microsoft.

Off

Send typing and inking data to Microsoft to improve the recognition and suggestion platform.

Off

Let apps use your advertising ID for experiences across apps.

Off

Location

Let Windows and apps request your location, including location history, and send Microsoft and trusted partners some location data to improve location services.

Off
Customize settings

Browser and protection

Use SmartScreen online services to help protect against malicious content and downloads in sites loaded by Windows browsers and Store apps.

Off

Use page prediction to improve reading, speed up browsing, and make your overall experience better in Windows browsers. Your browsing data will be sent to Microsoft.

Off

Connectivity and error reporting

Automatically connect to suggested open hotspots. Not all networks are secure.

Off

Automatically connect to networks shared by your contacts.

Off

Send error and diagnostic information to Microsoft.
Customize settings

Browser and protection

Use SmartScreen online services to help protect against malicious content and downloads in sites loaded by Windows browsers and Store apps.
Off

Use page prediction to improve reading, speed up browsing, and make your overall experience better in Windows browsers. Your browsing data will be sent to Microsoft.
Off

Connectivity and error reporting

Automatically connect to suggested open hotspots. Not all networks are secure.
Off

Automatically connect to networks shared by your contacts.
Off

Send error and diagnostic information to Microsoft.
On
Customize settings

Browser and protection

Use SmartScreen online services to help protect against malicious content and downloads in sites loaded by Windows browsers and Store apps.
Off

Use page prediction to improve reading, speed up browsing, and make your overall experience better in Windows browsers. Your browsing data will be sent to Microsoft.
Off

Connectivity and error reporting

Automatically connect to suggested open hotspots. Not all networks are secure.
Off

Automatically connect to networks shared by your contacts.
Off

Send error and diagnostic information to Microsoft.
Off
Just a moment...
Get your files here, there, and everywhere

You already know about OneDrive - you have 309.7 MB of files in it. With Windows 10, new docs and pics will be saved to OneDrive. When you choose to save them there, you can get to them from your phone or tablet and still have them on this PC.
Meet Cortana

Cortana is your sidekick, ready to help with anything that keeps you super, heroic, or just on time.

To let Cortana provide personalized experiences and relevant suggestions, Microsoft collects and uses information including your location and location history, contacts, voice input, speech and handwriting patterns, typing history, searching history, calendar details, content and communication history from messages and apps, and other information on your device. In Microsoft Edge, Cortana uses your browsing history. You can always tinker with what Cortana remembers in the Notebook and disable Cortana in Microsoft Edge.

In short, I'm your personal assistant and sidekick. Ready when you are.

Learn more

Not now
Use Cortana
Change privacy options

Let apps use my advertising ID for experiences across apps (turning this off will reset your ID)

- Off

Turn on SmartScreen Filter to check web content (URLs) that Windows Store apps use

- Off

Send Microsoft info about how I write to help us improve typing and writing in the future

- Off

Let websites provide locally relevant content by accessing my language list

- Off

Manage my Microsoft advertising and other personalization info

Privacy Statement
Location

If this setting is on, each person who signs in to this device can change their own location settings. If it’s off, location is off for everyone who signs in.

Location for this device is off

Change

When location services for this account are on, apps and services you allow can request location and location history.

Location

Off

If an app is using your location, you’ll see this icon: 📍

Location history

When location is on, the locations obtained to meet the needs of your apps and services will be stored for a limited time on the device. Apps that have access to these stored locations will appear below.

Clear history on this device

Clear
Choose apps that can use your location

- App connector
- Mail and Calendar
- Microsoft Edge
- MSN News
- MSN Weather
- Search
- Windows Camera
- Windows Maps

Geofencing
Geofencing

A geofence is a boundary around a place of interest, and apps can use your location to see if you’re crossing in and out of one. To stop apps from using your location for geofencing, turn off location for those apps.

None of your apps are currently using geofencing.
Camera

Let apps use my camera

- On

Privacy Statement

Learn more about camera privacy settings

Choose apps that can use your camera

Some apps need access to your camera to work as intended. Turning off an app here might limit what it can do.

- App connector: On
- Microsoft Edge: On
- OneNote: On
Microphone

Let apps use my microphone
  - On

Privacy Statement

Choose apps that can use your microphone

Some apps need access to your microphone to work as intended. Turning off an app here might limit what it can do.

- Microsoft Edge
  - On
- Windows Voice Recorder
  - On
- Xbox
  - On
Getting to know you

We use info like contacts, recent calendar events, speech and handwriting patterns, and typing history to get to know you better and to improve Microsoft’s products and services.

Speech, inking, & typing

Turn on

Get to know me

Manage cloud info

Go to Bing and manage personal info for all your devices

Learn more about speech, inking, and typing settings

Privacy Statement
Account Info

Let apps access my name, picture, and other account info

On

Privacy Statement

Choose the apps that can access your account info

Some apps need to access your account info to work as intended. Turning off an app here might limit what it can do.

Apps that need your permission to access your account info will appear here. Go to the Store to get apps.
Contacts

Privacy Statement

Choose apps that can access contacts

Some apps need access to contacts to work as intended. Turning off an app here might limit what it can do.

- **App connector**: On
- **Mail and Calendar**: On
- **Windows Shell Experience**: On
Calendar

Let apps access my calendar

On

Privacy Statement

Choose apps that can access calendar

Some apps need access to your calendar to work as intended. Turning off an app here might limit what it can do.

App connector

On

Mail and Calendar

On
Messaging

Let apps read or send messages (text or MMS)

On

Privacy Statement

Choose apps that can read or send messages

Some apps need to read or send messages to work as intended. Turning off an app here might limit what it can do.

Apps that need your permission to read or send messages will appear here. Go to the Store to get apps.
Radios

Some apps use radios—like Bluetooth—in your device to send and receive data. Sometimes, apps need to turn these radios on and off to work their magic.

Let apps control radios

- [ ] On

Privacy Statement

Choose apps that can control radios

Apps that need your permission to control your radios will appear here. Go to the Store to get apps.
Sync with devices

Let your apps automatically share and sync info with wireless devices that don’t explicitly pair with your PC, tablet, or phone

On

Example: beacons
Choose apps that can sync with devices

Privacy Statement

Other devices

Other devices that allow you to control app access will appear here.

Examples: Xbox One, TVs, projectors
Feedback frequency

Windows should ask for my feedback

- Automatically (Recommended)
- Always
- Once a day
- Once a week
- Never

This option controls the amount of Windows diagnostic and usage data sent to Microsoft from your device.

Learn more about feedback & diagnostics settings

Privacy Statement
Feedback frequency

Windows should ask for my feedback

- Automatically (Recommended)

Diagnostic and usage data

- Basic
- Enhanced
- Full (Recommended)

Learn more about feedback & diagnostics settings

Privacy Statement
Let apps run in the background

Choose which apps can receive info, send notifications, and stay up-to-date, even when you’re not using them. Turning background apps off can help conserve power.

Privacy Statement

- Alarms & Clock: On
- Calendar: On
- Get Office: On
- Groove Music: On
- Maps: On
- Microsoft Edge: On
- OneNote: On
- People: On
Settings

PRIVACY

General

Location

Camera

Microphone

Speech, inking, & typing

Account info

Contacts

Calendar

Messaging

Radios

Other devices

Feedback & diagnostics

Background apps

- Groove Music: On
- Maps: On
- Microsoft Edge: On
- OneNote: On
- People: On
- Phone Companion: On
- Photos: On
- Store: On
- Weather: On
- Xbox: On
Spybot +AV: The all-in-one anti-malware, anti-spyware and antivirus software solution

Happy St Patrick's Day!
To celebrate, you can get 30% off when purchasing 3 or more Home or Professional Editions this week!
Spybot – Search & Destroy

Spybot – Search & Destroy is an adware and spyware removal tool used to protect user’s data from malware infection when using a Windows Operating System. It was created in the year 2000 by engineering student Patrick Kolla-Ten Venne, when he discovered his PC was infected by the Aureate/Radiate and Conducent Timesink programs. This invasion of privacy really exasperated him so he wrote a program to remove these infections, which later became Spybot – Search & Destroy.

Spybot Anti-Beacon

Spybot Anti-Beacon is a tool to disable telemetry and protect user privacy when using a Windows Operating System. It was created to address users’ concerns over Windows updates which automatically enabled options to send usage data to Microsoft.

FileAlyzer

FileAlyzer is a tool to analyze files. It allows a basic analysis of files (showing file properties and file contents in hex dump form) and is able to interpret common file contents like resources structures (like text, graphics, HTML, media and PE).

Using FileAlyzer is as simple as viewing the regular properties of a file – just right-click the file you want to analyze and choose Open in FileAlyzer.

RegAlyzer

RegAlyzer is a tool to browse and change the registry. It was created because of a few features we missed in the original regedit tool, from support for exotic value types over background and regular expression search to better bookmarks, displaying .reg files in the accustomed style and a history view.

Additional free downloads can be found at the downloads section of our forum here: Spybot Forum

https://www.safer-networking.org/spybot-anti-beacon/
Download

Spybot Anti-Beacon comes in two flavours; as a standard installation or as a Portable Edition compatible with PortableApps.

Download v1.6 (installer) ▶

Download (Portable Edition)

Safer-Networking Download Section

Support Us

Spybot is maintained by a team of people very dedicated to privacy issues, many of which are working full-time on analysing masses of new threats each week, and the response time from our support team is better than that of many a commercial vendor. We would appreciate it if you would honour our efforts with a moderate donation.

Donate ▶

What do you want to do with SpybotAntiBeacon-1.6-setup.exe (2.03 MB)?
From: download.spybot.info

Save ▶  Save as  Cancel
Select Additional Tasks
Which additional tasks should be performed?

Select the additional tasks you would like Setup to perform while installing Spybot Anti-Beacon, then click Next.

Additional shortcuts:
- Create a desktop shortcut

Stay protected:
- Refresh immunization after each system restart
## Protection

<table>
<thead>
<tr>
<th>Protection Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telemetry Hosts</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>Telemetry Services</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>Telemetry Group Policy</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>Consumer Experience Improvement Program (CEIP) Group Policy</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>Consumer Experience Improvement Program (CEIP) Scheduled Tasks</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>Application Impact Telemetry (AiT) Group Policy</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>Steps Recorder Group Policy</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>WiFi Sense (HotSpot Sharing) Group Policy</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>Apps use advertising ID</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>P2P Windows Updates outside local network</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>Sensors</td>
<td>no blocks yet!</td>
</tr>
<tr>
<td>Handwriting Data Sharing</td>
<td>no blocks yet!</td>
</tr>
</tbody>
</table>

**Show options**  
**Immunize**  
**Undo**  

**Close**
### Protection

**Log**

- Telemetry Services: all blocked.
- Telemetry Group Policy: all blocked.
- Consumer Experience Improvement Program (CEIP) Group Policy: all blocked.
- Consumer Experience Improvement Program (CEIP) Scheduled Tasks: all blocked.
- Application Impact Telemetry (AIT) Group Policy: all blocked.
- Steps Recorder Group Policy: all blocked.
- WiFi Sense (HotSpot Sharing) Group Policy: all blocked.
- Apps use advertising ID: all blocked.
- P2P Windows Updates outside local network: all blocked.
- Sensors: all blocked.
- Handwriting Data Sharing: all blocked.

[Immunize] [Undo] [Close]

**Frequently Asked Questions**

`asam`