

Generate autounattend installation for Windows 10/11

Creating an unattended installation file for Windows 10/11 using the service at schneegans.de involves several steps.

Step 1: Open the Website

Go to <https://schneegans.de/windows/unattend-generator/>

Generate autounattend.xml files for Windows 10/11

» schneegans.de

This service lets you create [answer files](#) (typically named `unattend.xml` or `autounattend.xml`) to perform **unattended installations** of both Windows 10 and Windows 11, including the latest 24H2 builds. The .NET library that forms the basis for this service is available on [GitHub](#). If you would like to support this project, you can donate [via PayPal](#).

Step 2: Configure Region and Language Settings

Display Language: Select the language you want Windows to use for menus and dialog boxes.

Locale: Choose the locale for formatting dates, times, and currency.

Keyboard Layout: Select the desired keyboard layout.

Home Location: Choose the country or region.

Region and language settings:

☒ Install Windows using these language settings:

Display menus, dialog boxes, etc. in this **language**, which must match the language of your Windows 10/11 installation medium:

English

Format dates, times, currency, and numbers according to this **locale / culture**:

English (United States)

Use this **keyboard layout**:

United States - English

Use this country or region as your **home location**:

United States

☐ Select language settings interactively during Windows Setup

Step 3: Select Processor Architecture

Choose the processor architecture(s) you need (e.g., Intel/AMD 64-bit).

Processor architectures:

Intel / AMD 32-bit
Intel / AMD 64-bit
Windows on Arm64

When you select multiple processor architectures, a single `autounattend.xml` file will be created that is applicable to all of these architectures.

Step 4: Setup Settings

Bypass Windows 11 Requirements Check: Check this box if you need to bypass TPM and Secure Boot requirements.

Allow Windows 11 Installation Without Internet: Check this if your computer won't have internet access during setup.

Setup settings:

☐ Bypass Windows 11 requirements check (TPM, Secure Boot, etc.)

☐ Allow Windows 11 to be installed without internet connection

This effectively runs the `oobe\BypassNRO.cmd` command, which was discovered by Reddit user [/u/aveyo](#). You still have to click the *I don't have internet* button during Windows Setup.

⚠ Only check this option if your computer really does not have internet access. If you just want to create local ("offline") user accounts in Windows 11, you can always do so in the *User accounts* section of this form.

Step 5: Configure Computer Name

Choose whether to let Windows generate a random computer name or specify a custom name.

Computer name:

☒ Let Windows generate a random computer name like `DESKTOP-ZFAH8Z2`

☐ Choose a computer name yourself

Use this name:

Step 6: Set Time Zone

Decide whether to let Windows determine the time zone or set it explicitly.

If explicit, choose the time zone from the dropdown.

Time zone:

☒ Let Windows determine your time zone based on language and region settings

☐ Set your time zone explicitly

This is useful when your country or region spans multiple time zones, like Australia or the United States.

Use this time zone:

Step 7: Partitioning and Formatting

Partition the disk interactively during Windows Setup: This option allows you to partition the disk manually during the Windows setup process.

Let Windows Setup wipe, partition and format your hard drive: *Choose this option to automate the process using predefined settings.*

Partition Layout:

GPT (GUID Partition Table): Select this if you are using a UEFI-based system. Set the size of the EFI System Partition (ESP) to 300 MB.

MBR (Master Boot Record): Select this if you are using a legacy BIOS system.

Windows RE (Recovery Environment) Installation:

Install on recovery partition: Create a separate partition for Windows RE with a size of 1000 MB.

Install on Windows partition: Install Windows RE in the C:\Recovery folder without creating a separate recovery partition.

Remove Windows RE: Delete the C:\Recovery folder, freeing up about 600 MB of disk space.

Custom Diskpart Script:

Use a custom script to configure your disk(s). Example:

```
SELECT DISK=0
CLEAN
CONVERT GPT
CREATE PARTITION EFI SIZE=300
FORMAT QUICK FS=FAT32 LABEL="System"
CREATE PARTITION MSR SIZE=16
CREATE PARTITION PRIMARY
SHRINK MINIMUM=1000
FORMAT QUICK FS=NTFS LABEL="Windows"
CREATE PARTITION PRIMARY
FORMAT QUICK FS=NTFS LABEL="Recovery"
SET ID="de94bba4-06d1-4d40-a16a-bfd50179d6ac"
GPT ATTRIBUTES=0x8000000000000001
```

Avoid drive letter assignments (e.g., ASSIGN LETTER=R) as these will not persist.

Choose Partition to Install Windows:

Install Windows to the first available partition that has enough space and does not already contain an installation of Windows.

Install to another partition:

Specify the disk and partition:

Disk (0-based): 0

Partition (1-based): 3

Partitioning and formatting:

- ☒ Partition the disk interactively during Windows Setup

☐ Let Windows Setup wipe, partition and format your hard drive (more specifically, disk 0) using these settings:

Choose partition layout

- ☒ GPT

The [GPT partition layout](#) must be used for UEFI systems. Set the size of the EFI System Partition (ESP) to MB.

- ☐ MBR

MBR The [MBR-based partition layout](#) must be used for legacy BIOS systems.

Choose how to install Windows RE

- ☒ Install on recovery partition

Create a separate partition with a size of MB and install Windows RE to it.

- ☐ Install on Windows partition

This will install Windows RE in `C:\Recovery`. No recovery partition will be created.

- ☐ Remove Windows RE

This will delete the `C:\Recovery` folder and thus free about 600 MB of disk space. No recovery partition will be created.

Windows 24H2 **BETA** seems to ignore this setting and will always create a recovery partition with a minimum size of 600 MB.

- ☐ Use a custom `diskpart` script to configure your disk(s):

```
SELECT DISK=0
CLEAN
CONVERT GPT
CREATE PARTITION EFI SIZE=300
FORMAT QUICK FS=FAT32 LABEL="System"
CREATE PARTITION MSR SIZE=16
CREATE PARTITION PRIMARY
SHRINK MINIMUM=1000
FORMAT QUICK FS=NTFS LABEL="Windows"
CREATE PARTITION PRIMARY
FORMAT QUICK FS=NTFS LABEL="Recovery"
SET ID="de94bba4-06d1-4d40-a16a-bfd50179d6ac"
GPT ATTRIBUTES=0x8000000000000001
```

⚠ Avoid drive letter assignments (e.g. `ASSIGN LETTER=R`) in your script as these will not persist.

Choose partition to install Windows to after script has run

- ☒ Install Windows to the first available partition that has enough space and does not already contain an installation of Windows

- ☐ Install to another partition:

Disk (0-based):

Partition (1-based):

Step 8: Choose Windows Edition

Select whether to use a generic product key or enter your own.

Choose the edition of Windows you want to install.

Windows edition:

- ☒ Use a **generic product key**

Such a key can be used to install Windows, but will not activate it. You can change the product key later.

Install this edition of Windows:

- ☐ Enter your **own product key** during Windows Setup

You can also enter your key in the `autounattend.xml` file. To do this, find the `<Key>00000-00000-00000-00000-00000</Key>` element and replace the text with your key. Also use this if you plan to install an **Enterprise** edition of Windows.

Step 9: Create User Accounts

Account Creation:

Account Name: The username for the local account.

Password: The password for the local account.

Group: The group membership for the account (e.g., Administrators, Users).

First Logon:

Logon to the first administrator account created above: *Windows will automatically log in to the first administrator account created during the setup.*

Activate built-in account "Administrator" and logon to this account: Enables and sets a password for the built-in Administrator account.

Do not logon: The installation will end at the sign-in screen.

Password Options:

Obscure all account passwords with Base64: Passwords will be encoded in Base64 for added security.

Add user accounts interactively during Windows Setup: Allows adding accounts interactively if you plan to use Microsoft (online) accounts.

User accounts:

- ☒ Let Windows Setup create the following local ("offline") accounts:

Account name	Password	Group
Admin	password	Administrators ▼
User	password	Users ▼
	password	Users ▼
	password	Users ▼
	password	Users ▼

First logon

Some settings might not be applied until an administrator logs on for the first time. You should therefore let Windows log you on to an administrator account once – this does not affect subsequent logons. Choose which account to use for this:

 - ☒ Logon to the first administrator account created above
 - ☐ Activate built-in account "Administrator" and logon to this account

Set its password to:
 - ☐ Do not logon

The installation ends with the sign-in screen being shown.
- ☐ Obscure all account passwords with Base64 **NEW**
- ☐ Add user accounts interactively during Windows Setup

Choose this if you want to use a Microsoft ("online") account.

Step 10: Set Password and Account Policies

Configure password expiration settings.

Password expiration:

- ☒ Passwords do not expire

This is in accordance to NIST guidelines that [no longer recommend password expiration](#).

- ☐ Use Windows default

Passwords expire after **42** days.

- ☐ Use custom password expiration:

Passwords expire after days.

These settings only apply to local accounts. Also, the password of the built-in account "Administrator" never expires.

Step 11: Account Policies

Use Default Policy: Windows locks out an account after 10 failed logon attempts within 10 minutes. The account is automatically unlocked after 10 minutes.

Disable Policy: Disabling the Account Lockout policy can leave the computer vulnerable to brute-force attacks.

Use Custom Policy: Specify the number of failed logon attempts, the time window within which these attempts are counted, and the duration after which the account is automatically unlocked.

Account Lockout policy:

- ☒ Use default policy

By default, Windows will lock out an account after **10 failed logon attempts** ("threshold") within **10 minutes** ("window"). After **10 minutes** ("duration"), the account is unlocked automatically.

- ☐ Disable policy

⚠ Disabling Account Lockout might leave your computer vulnerable to brute-force attacks.

- ☐ Use custom policy:

Lock out an account after failed logon attempts within minutes. After minutes, unlock the account automatically.

Step 12: Optimization Settings

Disable Windows Defender: Disables specific Windows Defender services during the Windows Setup process to streamline system performance.

Disable System Protection/System Restore: Prevents Windows from creating restore points on drive C:, conserving disk space.

Enable long paths: Enables programs like PowerShell and 7-Zip to utilize extended file paths up to 32,767 characters without additional prefixes.

Enable Remote Desktop services (RDP): Activates Remote Desktop Protocol services for remote system access.

Harden ACLs: *Removes write permissions for the Authenticated Users group on C:, preventing unauthorized creation of system folders.*

Allow execution of PowerShell script files: Sets PowerShell execution policies to 'RemoteSigned', permitting the execution of unsigned .ps1 script files.

Do not update Last Access Time stamp: Improves file system performance by disabling the update of last access timestamps using fsutil.exe.

Do not reboot with users signed in: Prevents Windows Update from automatically restarting the system while a user is signed in.

Turn off system sounds: *Changes the system sound scheme to 'No sounds', disabling all system sound notifications.*

Disable app suggestions: Modifies registry settings to prevent automatic downloading and installation of suggested applications.

Disable widgets: Hides the news and weather widget in the Windows 11 interface.

Prevent device encryption: Disables automatic activation of BitLocker encryption by Windows 11.

Audit process creation events: Logs each new process creation event in the Security log, aiding in system troubleshooting.

Optimizations:

☐ Disable Windows Defender

This disables certain services (`Sense`, `WdBoot`, `WdFilter`, `WdNisDrv`, `WdNisSvc`, `WinDefend`) during Windows Setup. This method was adapted from an article by [Rudy Mens](#).

☐ Disable Windows Defender services early **BETA**

Windows 11 24H2 does not permit to disable these services in the later stages of Setup. With this setting, they are disabled as early as possible, during the Windows PE stage.

☐ Disable System Protection / System Restore

Windows will not create restore points for drive `C:` and thus use less disk space.

☐ Enable long paths

This sets the [LongPathsEnabled](#) registry value, which enables several programs (including PowerShell, 7-Zip and TreeSize) to use long paths with up to 32,767 characters without resorting to the `\\?\` prefix.

☐ Enable Remote Desktop services (RDP)

☐ Harden ACLs

This removes write permissions on `C:\` for the *Authenticated Users* group. In particular, this prevents unprivileged users from creating bogus folders such as `C:\windows`.

☐ Allow execution of PowerShell script files

This runs the command `Set-ExecutionPolicy -ExecutionPolicy 'RemoteSigned'`, which allows the execution of unsigned `.ps1` files.

☐ Do not update Last Access Time stamp

This runs the command `fsutil.exe behavior set disableLastAccess 1`, which can improve file system performance.

☐ Do not reboot with users signed in

This prevents Windows Update from [rebooting](#) when a user is signed in.

☐ Turn off system sounds

This changes the sound scheme from *Windows Default* to *No sounds* for all users.

☐ Disable app suggestions

This sets [several registry values](#) that prevent the silent download and installation of [suggested apps](#).

☐ Disable widgets

This hides the news and weather widget in the lower-left corner in Windows 11.

☐ Prevent device encryption

Windows 11 would otherwise enable [BitLocker encryption automatically](#).

☐ Audit process creation events

Each time a new process is created, Windows writes an event to the *Security* log. This is a [powerful tool for troubleshooting](#).

☐ Include command line in log events

Step 13: Virtual Machine Support

Choose whether to install VirtualBox Guest Additions, VMware Tools, or VirtIO Guest Tools. these instructions outline steps to enhance the functionality and integration of virtual machines on different virtualization platforms

Virtual machine support: ☐ Install **Oracle VirtualBox Guest Additions**

☐ Install **VMware Tools**

☐ Install **VirtIO Guest Tools** and **QEMU Guest Agent** (e.g. for Proxmox VE)

See the [usage notes](#) to learn how to use the `autounattend.xml` file when installing Windows on virtual machines.

Step 14: Wi-Fi Setup

Configure Wi-Fi settings or choose to skip Wi-Fi configuration.

Setup Options:

Interactive Wi-Fi Configuration during Windows Setup: Allows users to select and configure a Wi-Fi network directly during the Windows installation process.

Skip Wi-Fi Configuration: Recommended if a wired internet connection is available and preferred over Wi-Fi during initial setup.

Manual Wi-Fi Configuration using Provided Settings:

Enter the following details: Network name (SSID): Enter the name of your Wi-Fi network.

Connect even if not broadcasting: Check this if your Wi-Fi network doesn't broadcast its SSID.

Authentication: Choose the authentication method (Open, WPA2, WPA3).

Password: Do not enter your actual Wi-Fi password here. Adjust it securely after obtaining the autounattend.xml file.

Advanced Configuration Options:

XML File Configuration using netsh.exe wlan export profile key=clear: Use an XML file exported from another computer to pre-configure Wi-Fi settings. Ensure security by adjusting the password enclosed in `<keyMaterial>...</keyMaterial>` post-download.

Important Notes: Avoid entering actual Wi-Fi passwords directly into setup files for security reasons.

Ensure compatibility between your Wi-Fi router and computer's Wi-Fi adapter regarding WPA3 support to prevent setup interruptions.

WLAN / Wi-Fi setup:

- ☒ **Configure Wi-Fi interactively during Windows Setup**
- ☐ **Skip Wi-Fi configuration**
Choose this if you have a wired connection to the internet.
- ☐ **Configure Wi-Fi using these settings:**
 - Network name (SSID):
 - Connect even if not broadcasting: ☐
 - Authentication:
 - Password:

If both your Wi-Fi router and your computer's Wi-Fi adapter support it, make sure to select WPA3. Otherwise, Windows Setup will try to switch from WPA2 to WPA3 and require manual interaction.

You should not enter your actual Wi-Fi password here. Once you have downloaded the `autounattend.xml` file, find the password enclosed in `<keyMaterial>...</keyMaterial>` and adjust it.

- ☐ **Configure Wi-Fi using an XML file created by netsh.exe wlan export profile key=clear on another computer:**

Step 15: Express Settings

Disable all: Windows will not send diagnostic data, personalized input, or location history to Microsoft. Choose this option if you prioritize privacy and do not want any data sent to Microsoft.

Enable all: Windows will send data to Microsoft to Provide location-based services, Improve language recognition, Show personalized ads. Choose this option if you want to utilize these features and are comfortable with data being sent to Microsoft.

Choose settings interactively during Windows Setup: Allows users to selectively enable or disable specific settings, Diagnostic data.

Express settings:

- ☒ **Disable all**
Windows will not send diagnostic data, personalized input or your location history to Microsoft. Choose this if you value privacy.
- ☐ **Enable all**
Windows will send data to Microsoft to provide location-based services, improve language recognition, and show personalized ads.
- ☐ **Choose settings interactively during Windows Setup**
This lets you enable some settings while disabling others.

Step 16: Remove Bloatware

Windows includes several pre-installed apps that some users may not find necessary or useful. During Windows Setup, you can choose to remove these apps to streamline your system and free up space.

Apps Available for Removal:

3D Viewer	<i>Copilot</i>	Internet Explorer	Notepad (classic)	Outlook for Windows	PowerShell ISE	Sticky Notes	Windows Media Player (classic)
<i>Bing Search</i>	Cortana	Mail and Calendar	Notepad (modern)	Paint	Quick Assist	Teams	Windows Media Player (modern)
Calculator	Dev Home	Maps	Office 365	Paint 3D	<i>Skype</i>	Tips	Windows Terminal
Camera	<i>Family</i>	Math Input Panel	OneDrive	<i>PeopLe</i>	Snipping Tool	To Do	WordPad
Clipchamp	Feedback Hub	<i>Movies & TV</i>	OneNote	<i>Photos</i>	<i>Solitaire Collection</i>	Voice Recorder	<i>Xbox Apps</i>
Clock	Get Help	<i>News</i>	OpenSSH Client	Power Automate	Steps Recorder	Weather	Your Phone

Recommended Use: This feature works best with original Windows 10 and 11 .iso images downloaded directly from Microsoft.

Removing selected apps will delete all associated shortcuts, tiles, and pinned icons from the Start menu. This prevents accidental reinstallation of removed apps.

Remove bloatware:

Windows comes with several apps that many users do not want or do not need. Check all the apps you want removed during Windows Setup:

Select all

Deselect all

- | | |
|---|--|
| <input type="checkbox"/> 3D Viewer | <input type="checkbox"/> Bing Search |
| <input type="checkbox"/> Calculator | <input type="checkbox"/> Camera |
| <input type="checkbox"/> Clipchamp | <input type="checkbox"/> Clock |
| <input type="checkbox"/> Copilot | <input type="checkbox"/> Cortana |
| <input type="checkbox"/> Dev Home | <input type="checkbox"/> Family |
| <input type="checkbox"/> Feedback Hub | <input type="checkbox"/> Get Help |
| <input type="checkbox"/> Internet Explorer | <input type="checkbox"/> Mail and Calendar |
| <input type="checkbox"/> Maps | <input type="checkbox"/> Math Input Panel |
| <input type="checkbox"/> Movies & TV | <input type="checkbox"/> News |
| <input type="checkbox"/> Notepad (classic) | <input type="checkbox"/> Notepad (modern) |
| <input type="checkbox"/> Office 365 | <input type="checkbox"/> OneDrive |
| <input type="checkbox"/> OneNote | <input type="checkbox"/> OpenSSH Client |
| <input type="checkbox"/> Outlook for Windows | <input type="checkbox"/> Paint |
| <input type="checkbox"/> Paint 3D | <input type="checkbox"/> People |
| <input type="checkbox"/> Photos | <input type="checkbox"/> Power Automate |
| <input type="checkbox"/> PowerShell ISE | <input type="checkbox"/> Quick Assist |
| <input type="checkbox"/> Skype | <input type="checkbox"/> Snipping Tool |
| <input type="checkbox"/> Solitaire Collection | <input type="checkbox"/> Steps Recorder |
| <input type="checkbox"/> Sticky Notes | <input type="checkbox"/> Teams |
| <input type="checkbox"/> Tips | <input type="checkbox"/> To Do |
| <input type="checkbox"/> Voice Recorder | <input type="checkbox"/> Weather |
| <input type="checkbox"/> Windows Media Player (classic) | <input type="checkbox"/> Windows Media Player (modern) |
| <input type="checkbox"/> Windows Terminal | <input type="checkbox"/> WordPad |
| <input type="checkbox"/> Xbox Apps | <input type="checkbox"/> Your Phone |

⚠ Bloatware removal works best with the original Windows [10](#) and [11](#) .iso images downloaded from Microsoft. I did not perform any tests with custom images.

⚠ If you select one or more apps to remove, *all* shortcuts, tiles and pinned icons in the start menu will be deleted, utilizing a technique [demonstrated by Michael Niehaus](#). This is to prevent a user from accidentally reinstalling an app that has just been removed. The method to completely remove OneDrive was described by [Stefan Kanthak](#), with whom I also collaborated to [identify the registry keys](#) that block the installation of *Dev Home* and *Outlook for Windows* on Windows 11 23H2.

Step 17: Run Custom Scripts

Windows Setup allows you to run custom scripts at various stages to automate tasks and configure system settings. This guide explains how to set up and use these scripts effectively.

1. Scripts to Run in the System Context (Before User Accounts are Created)

These scripts are executed before any user accounts are created, applying changes to the entire system.

File Types: .cmd, .ps1, .reg, .vbs

Purpose: Use these scripts to configure system-wide settings, such as disabling hibernation, modifying Windows Defender settings, or changing registry values for system features.

2. Scripts to Modify the Default User's Registry Hive

These scripts affect the default user registry hive, influencing all new user accounts created after the setup:

File Types: .reg, .cmd, .ps1

Purpose: Configure default settings for new user accounts, such as hiding taskbar buttons or setting default application behaviors.

3. Scripts to Run When the First User Logs On

These scripts run when a user logs on for the first time, applying settings to their user profile:

File Types: .cmd, .ps1, .reg, .vbs

Purpose: Customize the user's environment, set default application settings, or display welcome messages.

4. Scripts to Run Whenever a User Logs On for the First Time

These scripts execute every time a user logs on for the first time, ensuring initial configurations are applied:

File Types: .cmd, .ps1, .reg, .vbs

Purpose: Apply user-specific configurations such as setting home locations, screen saver settings, or directory command options.

Run custom scripts:

Scripts to run in the system context, before user accounts are created

1. Run

```
powercfg.exe /HIBERNATE OFF
```

as a `.cmd` file.

2. Run

```
Set-MpPreference -DisableRealtimeMonitoring $true;
```

as a `.ps1` file.

3. Run

```
Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Remote Assistance]
"fAllowToGetHelp"=dword:00000000
```

as a `.reg` file.

4. Run

```
WScript.Echo "Hello!"
```

as a `.vbs` file.

Scripts to modify the default user's registry hive

This will automatically mount the `C:\Users\Default\NTUSER.DAT` hive, run your scripts and unmount the hive again. Your scripts will be run *before* user accounts are created - hence, they will affect all user accounts, including the built-in account "Administrator". You must access the keys in this hive as follows:

`.reg [HKEY_USERS\DefaultUser\...`

`.cmd HKU\DefaultUser\...`

`.ps1 Registry::HKU\DefaultUser\...`

1. Run

```
Windows Registry Editor Version 5.00

[HKEY_USERS\DefaultUser\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Advanced]
"ShowTaskViewButton"=dword:00000000
```

as a `.reg` file.

2. Run

```
reg.exe add "HKU\DefaultUser\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Advanced" /v "ShowTaskViewButton"
```

as a `.cmd` file.

3. Run

```
Set-ItemProperty -LiteralPath "Registry::HKU\DefaultUser\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Adva
```

as a `.ps1` file.

Scripts to run when the first user logs on

1. Run

```
setx.exe DIRCMD "/A /O:GN /C /N"
```

as a file.

2. Run

```
Set-WinHomeLocation -GeoId 94;
```

as a file.

3. Run

```
Windows Registry Editor Version 5.00  
[HKEY_CURRENT_USER\Control Panel\Desktop]  
"ScreenSaverIsSecure"="1"
```

as a file.

4. Run

```
WScript.Echo "Hello!"
```

as a file.

Scripts to run whenever a user logs on for the first time

1. Run

```
setx.exe DIRCMD "/A /O:GN /C /N"
```

as a file.

2. Run

```
Set-WinHomeLocation -GeoId 94;
```

as a file.

3. Run

```
Windows Registry Editor Version 5.00  
[HKEY_CURRENT_USER\Control Panel\Desktop]  
"ScreenSaverIsSecure"="1"
```

as a file.

4. Run

```
WScript.Echo "Hello!"
```

as a file.

Your scripts will be run as follows:

```
.cmd cmd.exe /c "C:\windows\Setup\Scripts\unattend-01.cmd >>"C:\windows\Setup\Scripts\unattend-01.log" 2>&1"

.ps1 cmd.exe /c "powershell.exe -NoProfile -Command "Get-Content -LiteralPath 'C:\windows\Setup\Scripts\unattend-02.ps1' -Raw | Invoke-Expression;" >>"C:\windows\Setup\Scripts\unattend-02.log" 2>&1"

.reg cmd.exe /c "reg.exe import "C:\windows\Setup\Scripts\unattend-03.reg" >>"C:\windows\Setup\Scripts\unattend-03.log" 2>&1"

.vbs cmd.exe /c "cscript.exe //E:vbscript "C:\windows\Setup\Scripts\unattend-04.vbs" >>"C:\windows\Setup\Scripts\unattend-04.log" 2>&1"

.js cmd.exe /c "cscript.exe //E:jscript "C:\windows\Setup\Scripts\unattend-05.js" >>"C:\windows\Setup\Scripts\unattend-05.log" 2>&1"
```


Step 18: Configure WDAC Policy

Windows Defender Application Control (WDAC) allows administrators to control which applications and drivers can run on their systems, enhancing security by preventing unauthorized or malicious software from executing.

Do Not Configure WDAC Policy: This option leaves WDAC disabled, and no application control policies are applied. Choose this if you do not wish to enforce any application restrictions.

Configure a Basic WDAC Policy Using These Settings:

Description: This option enables a predefined WDAC policy with the following rules:

Allowed Applications: Applications located in C:\Windows, C:\Program Files, and C:\Program Files (x86) directories are allowed to run.

Blocked Applications: Applications stored in other directories, especially known user-writable folders such as C:\Windows\Temp or C:\Windows\Debug\WIA, are blocked from running.

Disabling the Policy: To disable this WDAC policy later, delete the file located at C:\Windows\System32\CodeIntegrity\CiPolicies\Active\{d26bffa3-33a2-48a3-b037-10357ee48427}.cip and reboot the system.

Enforcement Options:

Auditing Mode: This mode logs drivers and applications that would have been blocked by the policy without actually blocking them. It is useful for testing and refining policies before enforcing them.

Auditing Mode on Boot Failure: If a policy would prevent Windows from booting by blocking a critical system driver, this mode switches to audit mode during boot failures. Otherwise, it uses enforcement mode.

Enforcement Mode: This mode strictly enforces the WDAC policy, blocking drivers and applications unless they are explicitly allowed by the policy.

Script Enforcement Options:

Restricted: PowerShell will run in Constrained Language Mode, restricting the execution of certain types of scripts and commands to increase security. See the Script Enforcement section for more details.

Unrestricted: PowerShell will run in Full Language Mode, allowing all types of scripts and commands to execute without restriction.

Additional Information:

Custom Policies: For more advanced and customized policies, refer to the online WDAC policy generator tool.

Log Locations: The logs generated in auditing mode can be found in the Windows Event Viewer under Application and Services Logs -> Microsoft -> Windows -> CodeIntegrity -> Operational.

**Windows Defender
Application Control:**

- ☒ Do not configure WDAC policy
- ☐ Configure a basic WDAC policy using these settings:

Applications in C:\windows, C:\Program Files and C:\Program Files (x86) are allowed to run. Applications stored elsewhere and those in known user-writable folders such as C:\windows\Temp or C:\windows\Debug\WIA are not allowed to run. To disable this WDAC policy later, simply delete the file C:\windows\System32\CodeIntegrity\CiPolicies\Active\{d26bffa3-33a2-48a3-b037-10357ee48427}.cip and reboot. To create a more customized policy, see my [online WDAC generator](#).

Choose how to enforce the policy

- ☐ Auditing mode
Logs drivers and applications that would have been blocked.
- ☒ Auditing mode on boot failure
When the policy blocks a system driver and thus would prevent Windows from booting, use audit mode. Otherwise, use enforcement mode.
- ☐ Enforcement mode
Drivers and applications will be blocked unless allowed by the policy.

Choose script enforcement

- ☒ Restricted
PowerShell will run in **Constrained Language Mode**. See [Script Enforcement](#) for details.
- ☐ Unrestricted
PowerShell will run in **Full Language Mode**.

Step 19: Generate the autounattend.xml File

After configuring all settings, click the button to generate the autounattend.xml file.
Download the generated file.

Submit form:

Bookmark selection

View .xml file

Download .xml file

Download .iso file

See the [usage notes](#) to learn how to use the autounattend.xml file when installing Windows.

Step 20: Use the autounattend.xml File

Place the autounattend.xml file on the root of your installation media (USB drive).
Boot from the installation media to start the unattended Windows setup.

By following these steps, you can create a custom unattended installation file for Windows 10 or Windows 11, tailored to your specific requirements.