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Windows

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Filter by title

Application Control for Windows

→ About application control for Windows

About application control for Windows

App Control and AppLocker Overview

App Control and AppLocker Feature Availability

Virtualization-based protection of code integrity

∨ Design guide

Design guide

Plan for App Control policy lifecycle management

- > Design your App Control policy
- Create your App Control policy

Example App Control base policies

Policy creation for common App Control usage scenarios

Policy creation for common App Control usage scenarios

Create an App Control policy for lightly managed devices

Create an App Control policy for fully managed devices

Create an App Control policy for fixedworkload devices

Create an App Control deny list policy

Applications that can bypass App Control and how to block them

Microsoft recommended driver block rules

- > Use the App Control Wizard tool
- > Deployment guide
- > Operational guide
- > Appld Tagging guide
- > AppLocker

Learn / Windows / Security /

Applications that can bypass App Control and how to block them

Article • 10/01/2024 • 1 contributor • Applies to: ✓ Windows 11, ✓ Windows 10

♂ Feedback

① Note

Some capabilities of App Control for Business are only available on specific Windows versions. Learn more about App Control feature availability.

Members of the security community* continuously collaborate with Microsoft to help protect customers. With the help of their valuable reports, Microsoft has identified a list of valid applications that an attacker could also potentially use to bypass App Control.

Unless your use scenarios explicitly require them, Microsoft recommends that you block the following applications. An attacker can use these applications or files to circumvent application allow policies, including App Control:

- addinprocess.exe
- addinprocess32.exe
- addinutil.exe
- aspnet_compiler.exe
- bash.exe
- bginfo.exe¹
- cdb.exe
- cscript.exe
- csi.exe
- dbghost.exe
- dbgsvc.exe
- dbasrv.exe
- dnx.exe
- dotnet.exe
- fsi.exe
- fsiAnyCpu.exe infdefaultinstall.exe
- kd.exe
- kill.exe
- lxssmanager.dll
- Ixrun.exe
- Microsoft.Build.dll
- Microsoft.Build.Framework.dll
- Microsoft.Workflow.Compiler.exe
- msbuild.exe²
- msbuild.dll
- mshta.exe
- ntkd.exe

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- ntsd.exe
- powershellcustomhost.exe
- rcsi.exe
- runscripthelper.exe
- texttransform.exe
- visualuiaverifynative.exe
- system.management.automation.dll
- webclnt.dll/davsvc.dll
- wfc.exe
- windbg.exe
- wmic.exe
- wscript.exe
- wsl.exe
- wslconfig.exe
- wslhost.exe
- ¹ A vulnerability in bginfo.exe was fixed in version 4.22. If you use BGInfo, for security, make sure to download and run the latest version of BGInfo. BGInfo versions earlier than 4.22 are still vulnerable and should be blocked.
- ² If you're using your reference system in a development context and use msbuild.exe to build managed applications, we recommend that you allow msbuild.exe in your code integrity policies. Otherwise, we recommend that you block msbuild.exe.
- * Microsoft recognizes the efforts of people in the security community who help us protect customers through responsible vulnerability disclosure, and extends thanks to the following people:

Expand table

Name	Twitter
Alex Ionescu	@aionescu
Brock Mammen	
Casey Smith	@subTee
James Forshaw	@tiraniddo
Jimmy Bayne	@bohops
Kim Oppalfens	@thewmiguy
Lasse Trolle Borup	Langkjaer Cyber Defence
Lee Christensen	@tifkin_
Matt Graeber	@mattifestation
Matt Nelson	@enigma0x3
Oddvar Moe	@Oddvarmoe
Philip Tsukerman	@PhilipTsukerman
Vladas Bulavas	Kaspersky Lab
Will Dormann	@wdormann
William Easton	@Strawgate

① Note

This application list will be updated with the latest vendor information as application vulnerabilities are resolved and new issues are discovered.

Certain software applications may allow other code to run by design. Unless these applications are business critical, you should block them in your App Control policy. In addition, when an application version is upgraded to fix a security vulnerability or potential App Control bypass, add *deny* rules to your App Control policies for that application's previous, less secure versions.

Microsoft recommends that you install the latest security updates. For example, updates help resolve several issues in PowerShell modules that allowed an attacker to bypass App Control. These modules can be blocked by their corresponding hashes.

As of October 2017, system.management.automation.dll is updated to revoke earlier versions by hash values, instead of version rules.

If you wish to use this blocklist policy on Windows Server 2016, locate the deny rules for the following files, and change the comment block to only include the rules for that OS version. Applying the RS5+ rules to Windows Server 2016 may cause apps to malfunction:

- msxml3.dll
- msxml6.dll
- jscript9.dll

The blocklist policy that follows includes "Allow all" rules for both kernel and user mode that make it safe to deploy as a standalone App Control policy. On Windows versions 1903 and above, Microsoft recommends converting this policy to multiple policy format using the Set-CiPolicyIdInfo cmdlet with the - ResetPolicyId switch. Then, you can deploy it as a Base policy side-by-side with any other policies in your environment. To instead add these rules to an existing Base policy, you can merge the policy that follows using the Merge-CIPolicy cmdlet. If merging into an existing policy that includes an explicit allowlist, you should first remove the two "Allow all" rules and their corresponding FileRuleRefs from the blocklist policy.

App Control policy XML:

```
XML
                                                                                       1 Copy
<?xml version="1.0" encoding="utf-8"?>
<SiPolicy xmlns="urn:schemas-microsoft-com:sipolicy">
  <VersionEx>10.1.0.2</VersionEx>
  <PolicyTypeID>{A244370E-44C9-4C06-B551-F6016E563076}</PolicyTypeID>
  <PlatformID>{2E07F7E4-194C-4D20-B7C9-6F44A6C5A234}</PlatformID>
  <Rules>
    <Rule>
      <Option>Enabled:Unsigned System Integrity Policy</Option>
    </Rule>
    <Rule>
      <Option>Enabled:Audit Mode
    </Rule>
    <Rule>
      <Option>Enabled:Advanced Boot Options Menu
    </Rule>
    <Rule>
      <Option>Enabled:UMCI</Option>
    </Rule>
    <Rule>
      <Option>Enabled:Dynamic Code Security</option>
    </Rule>
  </Rules>
  <!-- EKUS -->
  <EKUs />
  <!-- File Rules -->
  <FileRules>
    <Allow ID="ID_ALLOW_A_1" FriendlyName="Allow Kernel Drivers" FileName="*" />
    <Allow ID="ID_ALLOW_A_2" FriendlyName="Allow User mode components" FileName="*" />
    <Deny ID="ID_DENY_ADDINPROCESS" FriendlyName="AddInProcess.exe" FileName="AddInProcess</pre>
    <Deny ID="ID_DENY_ADDINPROCESS32" FriendlyName="AddInProcess32.exe" FileName="AddInPro</pre>
    <Deny ID="ID_DENY_ADDINUTIL" FriendlyName="AddInUtil.exe" FileName="AddInUtil.exe" Min</pre>
    <Deny ID="ID_DENY_ASPNET" FriendlyName="aspnet_compiler.exe" FileName="aspnet_compiler</pre>
    <Deny ID="ID_DENY_BASH" FriendlyName="bash.exe" FileName="bash.exe" MinimumFileVersion</pre>
    <Deny ID="ID_DENY_BGINFO" FriendlyName="bginfo.exe" FileName="BGINFO.Exe" MinimumFileV</pre>
    <Deny ID="ID_DENY_CBD" FriendlyName="cdb.exe" FileName="CDB.Exe" MinimumFileVersion="0</pre>
    <Deny ID="ID_DENY_CSI" FriendlyName="csi.exe" FileName="csi.Exe" MinimumFileVersion="0</pre>
    <Deny ID="ID_DENY_CSCRIPT" FriendlyName="cscript.exe" FileName="cscript.exe" MinimumFi</pre>
    <Deny ID="ID DENY DBGHOST" FriendlyName="dbghost.exe" FileName="DBGHOST.Exe" MinimumFi</pre>
    <Deny ID="ID_DENY_DBGSVC" FriendlyName="dbgsvc.exe" FileName="DBGSVC.Exe" MinimumFileV</pre>
    <Deny ID="ID_DENY_DBGSRV" FriendlyName="dbgsrv.exe" FileName="dbgsrv.exe" MinimumFileV</pre>
    <Deny ID="ID_DENY_DNX" FriendlyName="dnx.exe" FileName="dnx.Exe" MinimumFileVersion="0</pre>
    <Deny ID="ID_DENY_DOTNET" FriendlyName="dotnet.exe" FileName="dotnet.exe" MinimumFileV</pre>
    <Deny ID="ID_DENY_FSI" FriendlyName="fsi.exe" FileName="fsi.exe" MinimumFileVersion="0</pre>
    <Deny ID="ID_DENY_FSI_ANYCPU" FriendlyName="fsiAnyCpu.exe" FileName="fsiAnyCpu.exe" Mi</pre>
    <Deny ID="ID_DENY_HVCISCAN_AMD_1" FriendlyName="HVCIScan.exe with missing resources AM</pre>
    <Deny ID="ID_DENY_HVCISCAN_AMD_2" FriendlyName="HVCIScan.exe with missing resources AM</pre>
    <Deny ID="ID_DENY_HVCISCAN_AMD_3" FriendlyName="HVCIScan.exe with missing resources AM</pre>
    <Deny ID="ID_DENY_HVCISCAN_AMD_4" FriendlyName="HVCIScan.exe with missing resources AM</pre>
    <Deny ID="ID_DENY_HVCISCAN_ARM_1" FriendlyName="HVCIScan.exe with missing resources AR</pre>
    <Deny ID="ID_DENY_HVCISCAN_ARM_2" FriendlyName="HVCIScan.exe with missing resources AR</pre>
    <Deny ID="ID DENY HVCISCAN ARM 3" FriendlyName="HVCIScan.exe with missing resources AR</pre>
    <Deny ID="ID_DENY_HVCISCAN_ARM_4" FriendlyName="HVCIScan.exe with missing resources AR</pre>
    <Deny ID="ID_DENY_INFINSTALL" FriendlyName="infdefaultinstall.exe" FileName="infdefaul</pre>
    <Deny ID="ID_DENY_INSTALLUTIL" FriendlyName="Microsoft InstallUtil" FileName="InstallU</pre>
```

```
<Deny ID="ID_DENY_KD" FriendlyName="kd.exe" FileName="kd.Exe" MinimumFileVersion="0.0.</pre>
<Deny ID="ID_DENY_KD_KMCI" FriendlyName="kd.exe" FileName="kd.Exe" MinimumFileVersion=</pre>
<Deny ID="ID_DENY_KILL" FriendlyName="kill.exe" FileName="kill.exe" MinimumFileVersion</pre>
<Deny ID="ID_DENY_LXRUN" FriendlyName="lxrun.exe" FileName="lxrun.exe" MinimumFileVers</pre>
<Deny ID="ID_DENY_LXSS" FriendlyName="LxssManager.dll" FileName="LxssManager.dll" Mini</pre>
<Deny ID="ID_DENY_INTUNE_AGENT" FriendlyName="IntuneWindowsAgent.exe" FileName="Micros</pre>
<Deny ID="ID_DENY_MFC40" FriendlyName="mfc40.dll" FileName="mfc40.dll" MinimumFileVers</pre>
<Deny ID="ID_DENY_MS_BUILD" FriendlyName="Microsoft.Build.dll" FileName="Microsoft.Bui</pre>
<Deny ID="ID_DENY_MS_BUILD_FMWK" FriendlyName="Microsoft.Build.Framework.dll" FileName</pre>
<Deny ID="ID_DENY_MWFC" FriendlyName="Microsoft.Workflow.Compiler.exe" FileName="Micro</pre>
<Deny ID="ID_DENY_MSBUILD" FriendlyName="MSBuild.exe" FileName="MSBuild.exe" MinimumFi</pre>
<Deny ID="ID_DENY_MSBUILD_DLL" FriendlyName="MSBuild.dll" FileName="MSBuild.dll" Minim</pre>
<Deny ID="ID_DENY_MSHTA" FriendlyName="mshta.exe" FileName="mshta.exe" MinimumFileVers</pre>
<Deny ID="ID_DENY_NTKD" FriendlyName="ntkd.exe" FileName="ntkd.Exe" MinimumFileVersion</pre>
<Deny ID="ID_DENY_NTSD" FriendlyName="ntsd.exe" FileName="ntsd.Exe" MinimumFileVersion</pre>
<Deny ID="ID DENY PWRSHLCUSTOMHOST" FriendlyName="powershellcustomhost.exe" FileName="</pre>
<Deny ID="ID_DENY_RCSI" FriendlyName="rcsi.exe" FileName="rcsi.Exe" MinimumFileVersion</pre>
<Deny ID="ID_DENY_RUNSCRIPTHELPER" FriendlyName="runscripthelper.exe" FileName="runscr</pre>
<Deny ID="ID_DENY_TEXTTRANSFORM" FriendlyName="texttransform.exe" FileName="texttransf</pre>
<Deny ID="ID_DENY_VISUALUIAVERIFY" FriendlyName="visualuiaverifynative.exe" FileName="</pre>
<Deny ID="ID_DENY_WEBCLNT" FriendlyName="BlockWebDAV WebClnt" FileName="davsvc.dll" Mi</pre>
<Deny ID="ID_DENY_WFC" FriendlyName="WFC.exe" FileName="wfc.exe" MinimumFileVersion="0</pre>
<Deny ID="ID_DENY_WINDBG" FriendlyName="windbg.exe" FileName="windbg.Exe" MinimumFileV</pre>
<Deny ID="ID_DENY_WMIC" FriendlyName="wmic.exe" FileName="wmic.exe" MinimumFileVersion</pre>
<Deny ID="ID_DENY_WSCRIPT" FriendlyName="wscript.exe" FileName="wscript.exe" MinimumFi</pre>
<Deny ID="ID_DENY_WSL" FriendlyName="wsl.exe" FileName="wsl.exe" MinimumFileVersion="0</pre>
<Deny ID="ID_DENY_WSLCONFIG" FriendlyName="wslconfig.exe" FileName="wslconfig.exe" Min</pre>
<Deny ID="ID_DENY_WSLHOST" FriendlyName="wslhost.exe" FileName="wslhost.exe" MinimumFi</pre>
<!-- pick the correct version of msxml3.dll, msxml6.dll, and jscript9.dll based on the
<!-- the versions of these files in the 1903 release have this issue fixed, so they do
<!-- RS1 Windows 1607
<Deny ID="ID_DENY_MSXML3"</pre>
                                    FriendlyName="msxml3.dll"
                                                                        FileName="msxml3.d
<Deny ID="ID_DENY_MSXML6"</pre>
                                    FriendlyName="msxml6.dll"
                                                                        FileName="msxml6.d
                                    FriendlyName="jscript9.dll"
                                                                        FileName="jscript9
<Deny ID="ID_DENY_JSCRIPT9"</pre>
-->
 <!-- RS5 Windows 1809 -->
                                                                         FileName="msxml3.d
<Deny ID="ID_DENY_MSXML3"</pre>
                                    FriendlyName="msxml3.dll"
<Deny ID="ID_DENY_MSXML6"</pre>
                                    FriendlyName="msxml6.dll"
                                                                         FileName="msxml6.d
                                    FriendlyName="jscript9.dll"
                                                                        FileName="jscript9
<Deny ID="ID_DENY_JSCRIPT9"</pre>
<!-- -->
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<Deny ID="ID_DENY_D_7" FriendlyName="Powershell 7" Hash="513B625EA507ED9CE83E2FB2ED4F3</pre>
<Deny ID="ID_DENY_D_8" FriendlyName="Powershell 8" Hash="71FC552E66327EDAA72D72C362846</pre>
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<Deny ID="ID_DENY_D_13" FriendlyName="Powershell 13" Hash="84BB081141DA50B3839CD275FF3"</pre>
<Deny ID="ID_DENY_D_14" FriendlyName="Powershell 14" Hash="86DADE56A1DBAB6DDC2769839F8</pre>
<Deny ID="ID_DENY_D_15" FriendlyName="Powershell 15" Hash="BD3139CE7553AC7003C96304F08</pre>
<Deny ID="ID_DENY_D_16" FriendlyName="Powershell 16" Hash="BE3FFE10CDE8B62C3E8FD4D8198</pre>
<Deny ID="ID_DENY_D_17" FriendlyName="Powershell 17" Hash="C1196433541B87D22CE2DD19AAA</pre>
<Deny ID="ID_DENY_D_18" FriendlyName="Powershell 18" Hash="C6C073A80A8E76DC13E724B5E66</pre>
<Deny ID="ID_DENY_D_19" FriendlyName="Powershell 19" Hash="CE5EA2D29F9DD3F15CF3682564B</pre>
<Deny ID="ID_DENY_D_20" FriendlyName="Powershell 20" Hash="D027E09D9D9828A87701288EFC9</pre>
<Deny ID="ID_DENY_D_21" FriendlyName="Powershell 21" Hash="D2CFC8F6729E510AE5BA9BECCF3"</pre>
<Deny ID="ID_DENY_D_22" FriendlyName="Powershell 22" Hash="DED853481A176999723413685A7</pre>
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<Deny ID="ID DENY D 24" FriendlyName="Powershell 24" Hash="F16E605B55774CDFFDB0EB99FAF</pre>
<Deny ID="ID_DENY_D_25" FriendlyName="Powershell 25" Hash="F29A958287788A6EEDE6035D49E</pre>
<Deny ID="ID_DENY_D_26" FriendlyName="Powershell 26" Hash="F875E43E12685ECE0BA2D42D55A</pre>
<!-- System.Management.Automation.dll -->
<Deny ID="ID_DENY_D_27" FriendlyName="PowerShell 27" Hash="720D826A84284E18E0003526A0C</pre>
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<Deny ID="ID_DENY_D_46" FriendlyName="PowerShell 46" Hash="ABDDA9C1EDA9F2344FB5B79890B</pre>
```

```
<Deny ID="ID_DENY_D_47" FriendlyName="PowerShell 47" Hash="A15964475D213FB752B42E7DCDD</pre>
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More information

Merge App Control policies

Feedback

Additional resources

 Events

Nov 20, 12 AM - Nov 22, 12 AM

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