

Microsoft Security Release October 12, 2021



Agenda

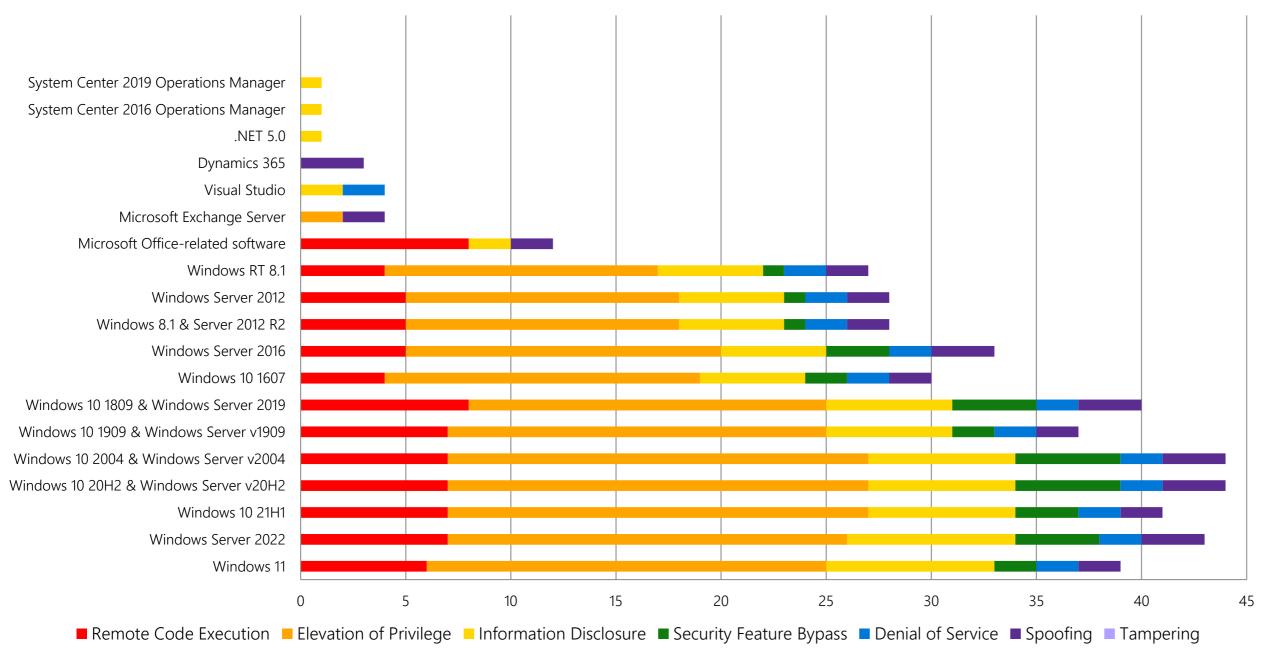




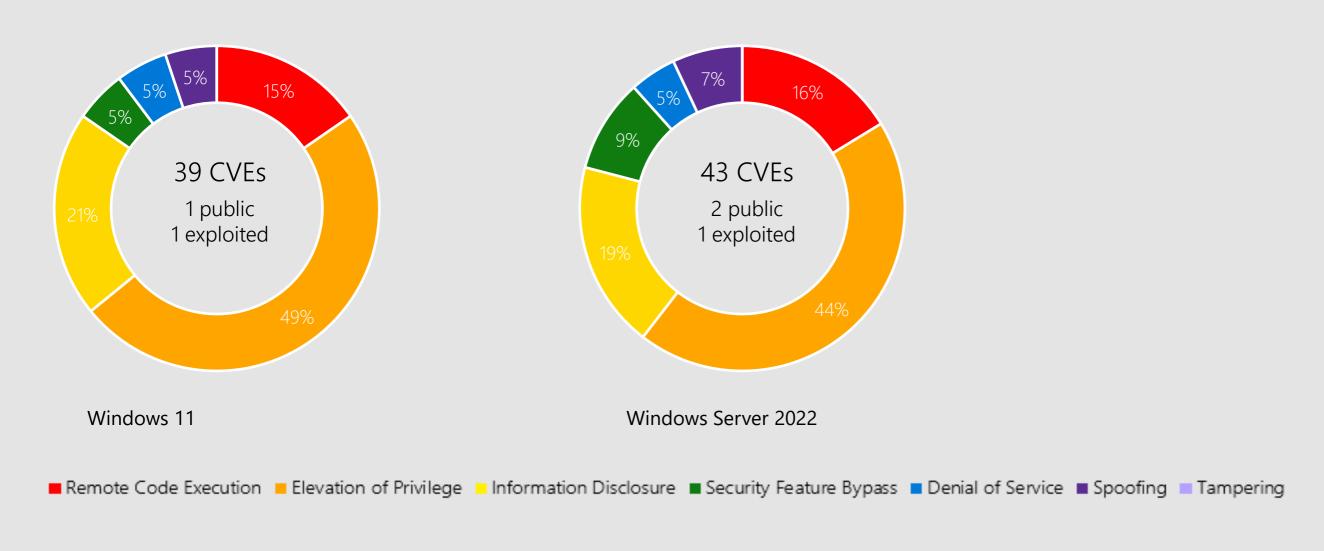


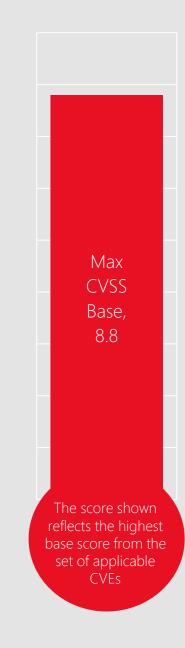
Monthly Security Release Overview - October 2021





Windows 11, Server 2022





Affected Components:

Active Directory ADFS Hyper-V Installer Kernel AppContainer Elevation Of Privilege AppContainer Firewall Rules AppX Deployment Service Print Spooler Bind Filter Driver Cloud Files Mini Filter Driver CLFS Driver MSHTML Platform NAT Desktop Bridge DirectX Graphics Kernel DNS Server Nearby Sharing Rich Text Edit Control

DWM Core Library
Event Tracing
exFAT File System
RPC Runtime
Storage Spaces Controller

Fast FAT File System Driver Graphics Component HTTP.sys TCP/IP Media Foundation Dolby Digital Atmos Decoders

CVE-2021-36970 Print Spooler



Impact, Severity, Disclosure

Spoofing | Important | Privately disclosed | No known exploits in the wild



CVSSScoreMetrics

Base CVSS Score: 8.8 | Attack Vector: Network | Attack Complexity: Low | Privileges Required: None | User Interaction: Required



Mitigations

Microsoft has not identified any mitigating factors for this vulnerability.



Workarounds

Microsoft has not identified any workarounds for this vulnerability.

Affected Software



Server, version 20H2 Server, version 2004

Server 2019

Windows 10

Windows 11

Server 2016

Server 2012 R2

Server 2012

Windows 8.1

Server 2022

CVE-2021-40449 Win32k



Impact, Severity, Disclosure

Elevation of Privilege | Important | Privately disclosed | Exploitation Detected



CVSSScoreMetrics

Base CVSS Score: 7.8 | Attack Vector: Local | Attack Complexity: Low | Privileges Required: Low | User Interaction: None



Mitigations

Microsoft has not identified any mitigating factors for this vulnerability.



Workarounds

Microsoft has not identified any workarounds for this vulnerability.

Affected Software



Windows 11 Server 2022 Server, version 20H2 Server, version 2004 Server 2019

Windows 10

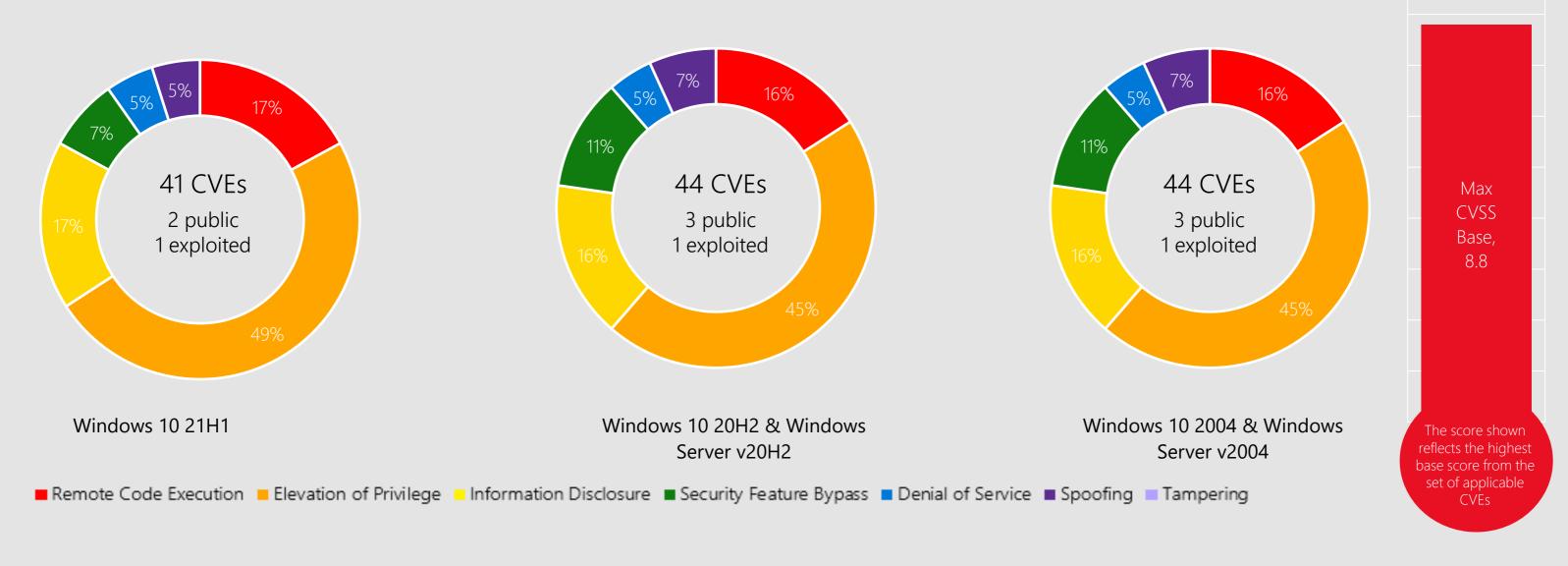
Server 2016

Server 2012 R2

Server 2012

Windows 8.1

Windows 10



Affected Components:

Active Directory
ADFS
HTTP.sys
Hyper-V
Installer
Text Shaping

AppContainer Elevation Of Privilege AppContainer Firewall Rules AppX Deployment Service Storage Spaces Controller Bind Filter Driver Cloud Files Mini Filter Driver CLFS Driver NAT Nearby Sharing Console Window Host Desktop Bridge DirectX Graphics Kernel Kernel Media Audio Decoder Media Foundation DNS Server DWM Core Library Event Tracing Print Spooler RPC Runtime TCP/IP exFAT File System
Fast FAT File System Driver
Graphics Component
Rich Text Edit Control
Media Foundation Dolby
Digital Atmos Decoders

CVE-2021-40469 DNS Server



Impact, Severity, Disclosure

Remote Code Execution | Important | Publicly Disclosed | No known exploits in the wild



CVSSScoreMetrics

Base CVSS Score: 7.2 | Attack Vector: Network | Attack Complexity: Low | Privileges Required: High | User Interaction: None



Mitigations

Microsoft has not identified any mitigating factors for this vulnerability.



Workarounds

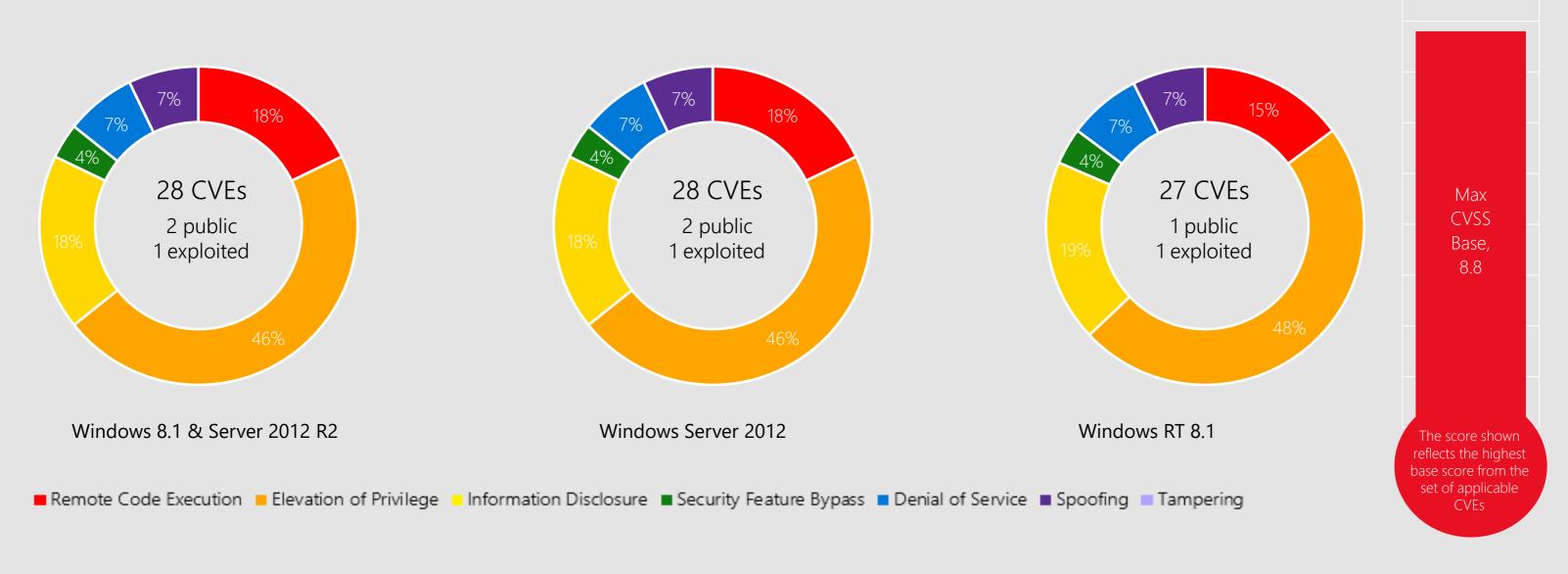
Microsoft has not identified any workarounds for this vulnerability.

Affected Software



Server 2022
Server, version 20H2
Server, version 2004
Server 2019
Server 2016
Server 2012 R2
Server 2012

Windows 8.1, Server 2012 R2, and Server 2012



Affected Components:

AppContainer Elevation
Of Privilege
Common Log File
System Driver
DNS Server

Event Tracing exFAT File System Fast FAT File System Driver

Graphics Component HTTP.sys Installer

Kernel Media Audio Decoder MSHTML Platform NAT Print Spooler Remote Procedure Call Runtime Rich Text Edit Control Storage Spaces Controller TCP/IP

CVE-2021-40461 Hyper-V



Impact, Severity, Disclosure

Remote Code Execution | Critical | Privately disclosed | No known exploits in the wild



CVSSScoreMetrics

Base CVSS Score: 8 | Attack Vector: Adjacent | Attack Complexity: High | Privileges Required: Low | User Interaction: None



Mitigations

Microsoft has not identified any mitigating factors for this vulnerability.



Workarounds

Microsoft has not identified any workarounds for this vulnerability.

Affected Software



Windows 11
Server 2022
Server, version 20H2
Windows 10
Server, version 2004
Server 2019

CVE-2021-41340 Graphics Component



Impact, Severity, Disclosure

Remote Code Execution | Important | Privately disclosed | No known exploits in the wild



CVSSScoreMetrics

Base CVSS Score: 7.8 | Attack Vector: Local | Attack Complexity: Low | Privileges Required: None | User Interaction: Required



Mitigations

Microsoft has not identified any mitigating factors for this vulnerability.



Workarounds

Microsoft has not identified any workarounds for this vulnerability.

Affected Software



Windows 11 Server 2022

Server, version 20H2

Server, version 2004

Server 2019

Windows 10

Server 2016

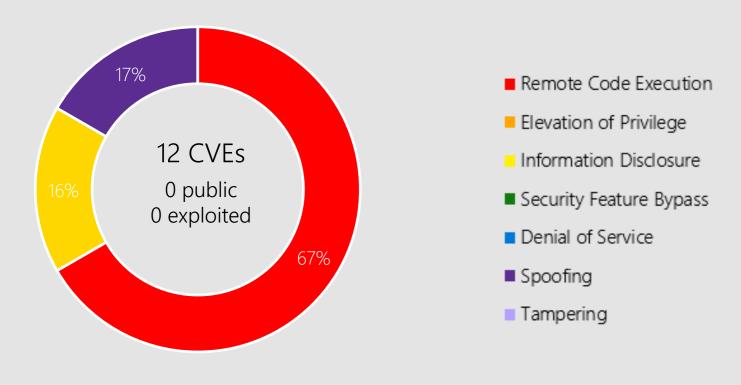
Server 2012 R2

Server 2012

Windows 8.1

Microsoft Office

Microsoft Office-related software



Products:

Office 2013/2016/2019

Word 2013/2016

Excel 2013/2016

SharePoint Server 2019

SharePoint Enterprise Server 2013/2016

365 Apps Enterprise

Office 2019 for Mac

Office LTSC for Mac 2021

Office LTSC 2021

Office Online Server

Office Web Apps Server 2013

SharePoint Foundation 2013

CVE-2021-40487 SharePoint Server



Impact, Severity, Disclosure

Remote Code Execution | Important | Privately disclosed | No known exploits in the wild



CVSSScoreMetrics

Base CVSS Score: 8.1 | Attack Vector: Network | Attack Complexity: Low | Privileges Required: Low | User Interaction: None



Mitigations

Microsoft has not identified any mitigating factors for this vulnerability.



Workarounds

Microsoft has not identified any workarounds for this vulnerability.

Affected Software



SharePoint Foundation 2013 SharePoint Server 2019 SharePoint Enterprise Server 2016

CVE-2021-40486 Word



Impact, Severity, Disclosure

Remote Code Execution | Critical | Privately disclosed | No known exploits in the wild



CVSSScoreMetrics

Base CVSS Score: 7.8 | Attack Vector: Local | Attack Complexity: Low | Privileges Required: None | User Interaction: Required



Mitigations

Microsoft has not identified any mitigating factors for this vulnerability.



Workarounds

Microsoft has not identified any workarounds for this vulnerability.

Affected Software



Word 2016 Office Online Server Word 2013 Office Web Apps Server 2013

SharePoint Enterprise
Server 2013
SharePoint Enterprise
Server 2016
Office 2019
SharePoint Server 2019

CVE-2021-40485 Excel



Impact, Severity, Disclosure

Remote Code Execution | Important | Privately disclosed | No known exploits in the wild



CVSSScoreMetrics

Base CVSS Score: 7.8 | Attack Vector: Local | Attack Complexity: Low | Privileges Required: None | User Interaction: Required



Mitigations

Microsoft has not identified any mitigating factors for this vulnerability.



Workarounds

Microsoft has not identified any workarounds for this vulnerability.

Affected Software



Office LTSC 2021
Office LTSC for Mac 2021
Excel 2013
Excel 2016
365 Apps Enterprise
Office 2019
SharePoint Enterprise
Server 2013
Office Online Server
Office 2019 for Mac

CVE-2021-40480 Office Visio



Impact, Severity, Disclosure

Remote Code Execution | Important | Privately disclosed | No known exploits in the wild



CVSSScoreMetrics

Base CVSS Score: 7.8 | Attack Vector: Local | Attack Complexity: Low | Privileges Required: None | User Interaction: Required



Mitigations

Microsoft has not identified any mitigating factors for this vulnerability.



Workarounds

Microsoft has not identified any workarounds for this vulnerability.

Affected Software



Office LTSC 2021 365 Apps Enterprise Office 2019

Exchange Server

CVE-2021-26427 | Important | Remote Code Execution | Public: No | Exploited: No

CVSS Base Score 9

Attack Vector: Adjacent Attack Complexity: Low Privileges Required: Low User Interaction: None

Products: Exchange Server 2016 Cumulative Update 21, Exchange Server 2019 Cumulative Update 10, Exchange Server 2013 Cumulative Update 23, Exchange Server 2016 Cumulative Update 22, Exchange Server 2019 Cumulative Update 11.

CVE-2021-41348 | Important | Elevation of Privilege | Public: No | Exploited: No

CVSS Base Score 8

Attack Vector: Adjacent Attack Complexity: Low Privileges Required: Low User Interaction: None

Products: Exchange Server 2019 Cumulative Update 11, Exchange Server 2016 Cumulative Update 22, Exchange Server 2016 Cumulative Update 21, Exchange Server 2019 Cumulative Update 10.

Exchange Server

CVE-2021-34453 | Important | Denial of Service | Public: No | Exploited: No

CVSS Base Score 7.5 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: None

Products: Exchange Server 2016 Cumulative Update 21, Exchange Server 2016 Cumulative Update 22, Exchange Server 2019 Cumulative Update 11, Exchange

Server 2019 Cumulative Update 10.

CVE-2021-41350 | Important | Spoofing | Public: No | Exploited: No

CVSS Base Score 6.5 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: Required

Products: Exchange Server 2019 Cumulative Update 11, Exchange Server 2016 Cumulative Update 22, Exchange Server 2016 Cumulative Update 21, Exchange

Server 2019 Cumulative Update 10.

Dynamics 365

CVE-2021-40457 | Important | Spoofing | Public: No | Exploited: No

CVSS Base Score 7.4 Attack Vector: Network Attack Complexity: Low Privileges Required: None User Interaction: Required

Products: Dynamics 365 Customer Engagement V9.0, Dynamics 365 Customer Engagement V9.1.

CVE-2021-41353 | Important | Spoofing | Public: No | Exploited: No

CVSS Base Score 5.4 Attack Vector: Network Attack Complexity: Low Privileges Required: Low User Interaction: Required

Products: Dynamics 365 (on-premises) version 9.1, Dynamics 365 (on-premises) version 9.0.

Dynamics 365

CVE-2021-41354 | Important | Spoofing | Public: No | Exploited: No

CVSS Base Score 4.1 Attack Vector: Network Attack Complexity: Low Privileges Required: Low User Interaction: Required

Products: Dynamics 365 (on-premises) version 9.1, Dynamics 365 (on-premises) version 9.0.

System Center 2016/2019 Operations Manager

CVE-2021-41352 | Important | Information Disclosure | Public: No | Exploited: No

CVSS Base Score 7.5
Attack Vector: Network
Attack Complexity: Low
Privileges Required: None
User Interaction: None

Products: System Center 2016 Operations Manager, System Center 2019 Operations Manager, System Center 2012 R2 Operations Manager

.NET 5.0

CVE-2021-41355 | Important | Information Disclosure | Public: No | Exploited: No

CVSS Base Score 5.7 Attack Vector: Adjacent Attack Complexity: Low Privileges Required: None User Interaction: Required

Products: Visual Studio 2019 version 16.11 (includes 16.0 - 16.10), Visual Studio 2019 version 16.9 (includes 16.0 - 16.8), .NET 5.0.

Visual Studio

CVE-2021-41355 | Important | Information Disclosure | Public: No | Exploited: No

CVSS Base Score 5.7 Attack Vector: Adjacent Attack Complexity: Low Privileges Required: None User Interaction: Required

Products: Visual Studio 2019 version 16.11 (includes 16.0 - 16.10), Visual Studio 2019 version 16.9 (includes 16.0 - 16.8), .NET 5.0.

Visual Studio

CVE-2020-1971 | Important | Denial of Service | Public: No | Exploited: No

Products: Visual Studio 2019 version 16.9 (includes 16.0 - 16.8), Visual Studio 2019 version 16.11 (includes 16.0 - 16.10), Visual Studio 2019 version 16.7 (includes 16.0 - 16.6), Visual Studio 2017 version 15.9 (includes 15.0 - 15.8), Visual Studio 2019 version 16.4 (includes 16.0 - 16.3).

CVE-2021-3449 | Important | Denial of Service | Public: No | Exploited: No

Products: Visual Studio 2019 version 16.9 (includes 16.0 - 16.8), Visual Studio 2019 version 16.11 (includes 16.0 - 16.10), Visual Studio 2019 version 16.7 (includes 16.0 - 16.6), Visual Studio 2017 version 15.9 (includes 15.0 - 15.8), Visual Studio 2019 version 16.4 (includes 16.0 - 16.3).

CVE-2021-3450 | Important | Information Disclosure | Public: No | Exploited: No

Products: Visual Studio 2019 version 16.9 (includes 16.0 - 16.8), Visual Studio 2019 version 16.11 (includes 16.0 - 16.10), Visual Studio 2019 version 16.7 (includes 16.0 - 16.6), Visual Studio 2017 version 15.9 (includes 15.0 - 15.8), Visual Studio 2019 version 16.4 (includes 16.0 - 16.3).

Intune management extension

CVE-2021-41363 | Important | Security Feature Bypass | Public: No | Exploited: No

CVSS Base Score 4.2 Attack Vector: Local Attack Complexity: High Privileges Required: Low User Interaction: None

Products: Intune management extension.

Product Lifecycle Update

Fixed lifecycle products reaching end of support in October

Silverlight 5 Visual Studio 2019, ver. 16.4 Modern lifecycle products reaching end of servicing in October

Endpoint Config Manager, ver. 2002 Dynamics 365 Business Central onpremises, 2020 release wave 1, version 16.x



Questions?

Appendix

Printing Guidance

Restricting installation of new printer drivers after applying the July 6, 2021 updates: KB5005010

Manage new Point and Print default driver installation behavior: KB5005652

Managing deployment of Printer RPC binding changes for CVE-2021-1678: <u>KB4599464</u>

Monitor Windows release health for issues being addressed https://docs.microsoft.com/en-us/windows/release-health/

CVE	Public	Exploited	Product
CVE-2021-36953	No	No	TCP/IP
CVE-2021-36970	No	No	Print Spooler
CVE-2021-40443	No	No	Common Log File System Driver
CVE-2021-40449	No	Yes	Win32k
CVE-2021-40455	No	No	Installer
CVE-2021-40456	No	No	AD FS
CVE-2021-40475	No	No	Cloud Files Mini Filter Driver
CVE-2021-40476	No	No	AppContainer Elevation Of Privilege
CVE-2021-40477	No	No	Event Tracing
CVE-2021-40478	No	No	Storage Spaces Controller
CVE-2021-38662	No	No	Fast FAT File System Driver
CVE-2021-38663	No	No	exFAT File System
CVE-2021-38672	No	No	Hyper-V
CVE-2021-40450	No	No	Win32k

CVE	Public	Exploited	Product
CVE-2021-40460	No	No	RPC Runtime
CVE-2021-40461	No	No	Hyper-V
CVE-2021-40462	No	No	Media Foundation Dolby Digital Atmos Decoders
CVE-2021-40463	No	No	NAT
CVE-2021-40464	No	No	Nearby Sharing
CVE-2021-40465	No	No	Text Shaping
CVE-2021-40466	No	No	Common Log File System Driver
CVE-2021-40467	No	No	Common Log File System Driver
CVE-2021-40468	No	No	Bind Filter Driver
CVE-2021-40469	Yes	No	DNS Server
CVE-2021-40470	No	No	DirectX Graphics Kernel
CVE-2021-40488	No	No	Storage Spaces Controller
CVE-2021-40489	No	No	Storage Spaces Controller
CVE-2021-26441	No	No	Storage Spaces Controller

CVE	Public	Exploited	Product
CVE-2021-26442	No	No	HTTP.sys
CVE-2021-41330	No	No	Media Foundation
CVE-2021-41331	No	No	Media Audio Decoder
CVE-2021-41332	No	No	Print Spooler
CVE-2021-41334	No	No	Desktop Bridge
CVE-2021-41335	Yes	No	Kernel
CVE-2021-41336	No	No	Kernel
CVE-2021-41337	No	No	Active Directory
CVE-2021-41338	Yes	No	AppContainer Firewall Rules
CVE-2021-41340	No	No	Graphics Component
CVE-2021-41342	No	No	MSHTML Platform
CVE-2021-41343	No	No	Fast FAT File System Driver
CVE-2021-41345	No	No	Storage Spaces Controller
CVE-2021-41347	No	No	AppX Deployment Service

CVE	Public	Exploited	Product
CVE-2021-41357	No	No	Win32k
CVE-2021-37974	No	No	Chromium
CVE-2021-37975	No	No	Chromium
CVE-2021-37976	No	No	Chromium
CVE-2021-41344	No	No	SharePoint Server
CVE-2021-40471	No	No	Excel
CVE-2021-40472	No	No	Excel
CVE-2021-40473	No	No	Excel
CVE-2021-40474	No	No	Excel
CVE-2021-40479	No	No	Excel
CVE-2021-40480	No	No	Office Visio
CVE-2021-40481	No	No	Office Visio
CVE-2021-40482	No	No	SharePoint Server
CVE-2021-40483	No	No	SharePoint Server

CVE	Public	Exploited	Product
CVE-2021-40484	No	No	SharePoint Server
CVE-2021-40485	No	No	Excel
CVE-2021-40486	No	No	Word
CVE-2021-40487	No	No	SharePoint Server
CVE-2021-34453	No	No	Exchange Server
CVE-2021-40454	No	No	Rich Text Edit Control
CVE-2021-40457	No	No	Dynamics 365 Customer Engagement
CVE-2021-41348	No	No	Exchange Server
CVE-2021-41350	No	No	Exchange Server
CVE-2021-41355	No	No	.NET Core and Visual Studio
CVE-2021-41361	No	No	Active Directory Federation Server
CVE-2021-3450	No	No	OpenSSL
CVE-2021-3449	No	No	OpenSSL
CVE-2020-1971	No	No	OpenSSL

CVE	Public	Exploited	Product
CVE-2021-26427	No	No	Exchange Server
CVE-2021-41339	No	No	DWM Core Library
CVE-2021-41346	No	No	Console Window Host
CVE-2021-41352	No	No	SCOM
CVE-2021-41353	No	No	Dynamics 365 Sales
CVE-2021-41354	No	No	Dynamics 365 (on- premises) Cross-site Scripting
CVE-2021-41363	No	No	Intune Management Extension