

# Installing CU12 for Exchange Server 2019

In this post, I am going to install Cumulative Update 12 for Exchange Server 2019 (On Premises). Microsoft released the update today. Can't wait to install the update within the lab. **Always restart the server and then start the upgrade process.**

You can download the update from this link - <https://www.microsoft.com/en-us/download/details.aspx?id=104131>

<https://docs.microsoft.com/en-us/Exchange/manage-hybrid-exchange-recipient-management-tools>

### Cumulative Update 12 for Exchange Server 2019 (KB5011156)

*Important!* Selecting a language below will dynamically change the complete page content to that language.

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### Cumulative Update 12 for Exchange Server 2019 (KB5011156)

Details

<b>Version:</b>	15.02.1118.007	<b>Date Published:</b>	4/20/2022
<b>File Name:</b>	ExchangeServer2019-x64-CU12.ISO	<b>File Size:</b>	5.8 GB

KB Articles: [5011156](#)

Cumulative Update 12 for Exchange Server 2019 resolves issues that were found in Exchange Server 2019 since the software was released. This update rollout is highly recommended for all Exchange Server 2019 customers.

This update covers the following:

<https://techcommunity.microsoft.com/t5/exchange-team-blog/released-2022-h1-cumulative-updates-for-exchange-server/ba-p/3285026>

Today we are announcing the availability of Cumulative Updates (CUs) for Exchange Server 2016 and Exchange Server 2019. These CUs include fixes for customer reported issues along with all previously released Security Updates (SUs), including the updates released in the [March 2022 SUs](#). A full list of fixes is contained in the KB article for each CU, but we also want to highlight some important changes.

We're thrilled to announce the availability of new features in the CU for Exchange Server 2019, such as an updated Exchange Management Tools role that enables customers who run Exchange server(s) only for recipient management purposes to shut down their last Exchange server(s) and use Windows PowerShell for recipient management. We're also excited to announce a change to the hybrid server license for Exchange Server 2019, as detailed below.

## Servicing Model Changes

First, we'd like to share some changes to how we deliver updates (aka our servicing model) for Exchange Server. Historically, we have released quarterly CUs in March, June, September, and December. Customers have told us this is too frequent and that it hinders their ability to stay current (which for Exchange hybrid customers is a [requirement](#)). Customers also tell us that December is not a good time to release a CU, which is why we didn't release any in December 2021.

Today, we are announcing changes to our [update delivery model](#) for Exchange Server. We are moving to a release cadence of two CUs per year – releasing in H1 and H2 of each calendar year, with general target release dates of March and September. But our release dates are driven by quality, so we might release updates in April or October, or some other month, depending on what we're delivering.

The next CU will be released in H2 of 2022, and it will be for Exchange Server 2019 only; mainstream support has ended for [Exchange Server 2013](#) and [Exchange Server 2016](#). We will release SUs as needed while those versions are in extended support.

A CU release every 6 months might be too long to wait for some updates, so we may also release hotfixes between CU releases.

With these service model changes, being *current* still means running the latest CU or the one immediately preceding it (N or N-1), but the 'currency window' is now extended from 6 months to 1 year.

## Exchange Management Tools Update

Until today, organizations that have all their mailboxes in Exchange Online and use Active Directory (AD) for identity management must have a running Exchange server in their environment in order to perform recipient management activities.

Today, we are excited to announce that Exchange Server 2019 CU12 includes an updated Exchange Management Tools role designed to address the specific customer scenario where an Exchange server is run *only* because of recipient management requirements.

The updated Management Tools role eliminates the need to have a running Exchange server for recipient management in this scenario. If you have only a single Exchange server that you use only for recipient management, you can install the updated tools on a domain-joined workstation, shut down your last Exchange server, and manage recipients using Windows PowerShell. For more information, see [Manage recipients in Exchange Server 2019 Hybrid environments](#).

## Hybrid Experience Updates

There are two more exciting updates for hybrid customers in Exchange Server 2019 CU12.

1. CU12 includes a change to the Exchange Server License Terms. We have updated our licensing to add a product key for Exchange 2019 hybrid servers at no additional charge! This was previously available only for Exchange 2010, Exchange 2013, and Exchange 2016. Exchange Server 2019 CU12 and the [Hybrid Configuration wizard](#) have been updated to support this change.
2. CU12 also includes support for using MFA-enabled admin credentials with Hybrid Agent cmdlets. The Hybrid Management PowerShell module now works with MFA-enabled admin accounts. This module includes the following cmdlets which can now be used with MFA:

Cmdlet	Description
Get-HybridAgent	View installed Hybrid Agents
Update-HybridApplication	Edit parameters of a Hybrid Application
Get-HybridApplication	View all Hybrid Applications
Remove-HybridApplication	Remove a Hybrid Application

## Support for Windows Server 2022

CU12 also introduces support for running Exchange Server 2019 on Windows Server 2022 and in environments that use Windows Server 2022 Active Directory servers.

Support for Exchange Server and Windows Server 2022 is detailed below and documented in the [Exchange Server supportability matrix](#) along with details on other Exchange Server operating system support.

Exchange Server Version	Windows Server 2022 OS	Windows Server 2022 AD
Exchange Server 2019	Supported	Supported

## Support for TLS 1.3

By default, Windows Server 2022 uses Transport Layer Security (TLS) 1.3, the latest version of the Internet's most deployed security protocol. TLS 1.3 encrypts data to provide a secure communication channel between two endpoints. It eliminates obsolete cryptographic algorithms, enhances security over older versions, and aims to encrypt as much of the handshake as possible. Support for TLS 1.3 will be added to Exchange Server 2019 in 2023.

# New Microsoft Bounty Program for Exchange Server

We strongly believe that close partnerships with security researchers help make customers more secure. Security researchers play an integral role in the ecosystem by discovering vulnerabilities missed in the software development process, and each year we partner together to better protect billions of users worldwide.

Today, we are also sharing that we have launched a [security vulnerability bounty program for Microsoft Exchange Server](#) via the Microsoft Applications and On-Premises Servers Bounty Program. Individuals across the globe can now receive monetary rewards for submitting security vulnerabilities found in Exchange Server shipping on the latest, fully patched version of Windows. For the new bounty program, we request you submit bugs on any supported version of Exchange Server.

## Known Issues With This Release

Please see CU release Knowledge Base articles for known issues.

## Additional Information

Microsoft recommends that all customers test the deployment of an update in a lab environment to determine the proper installation process for your production environment.

You can find information on preparing Active Directory [here](#). All Exchange-made schema changes are tracked [here](#).

For installation best practices, see [Upgrade Exchange to the latest Cumulative Update](#). See also the [Exchange Update Wizard](#) for detailed installation steps.

When installing, ensure that the Windows PowerShell Script Execution Policy is set to **Unrestricted** on the server. To verify the policy settings, run [Get-ExecutionPolicy](#) from PowerShell on the Exchange server. If the policy is NOT set to Unrestricted, use [these steps](#) to set it to Unrestricted.

If you plan to install the update in unattended mode from PowerShell or a command prompt, make sure you specify either the full path to Setup.exe, or use a "." in front of the command when running Setup directly from the folder containing the CU. If you do not do either of these, Setup may indicate that it completed successfully when it did not. Read more [here](#).

**NOTE:** Customers in Exchange hybrid deployments and those using Exchange Online Archiving with an on-premises Exchange deployment are required to deploy the latest CU for product support.

I am running CU11 – details below

```
Machine: EX2019.RAMLAN.CA

Welcome to the Exchange Management Shell!

Full list of cmdlets: Get-Command
Only Exchange cmdlets: Get-ExCommand
Cmdlets that match a specific string: Help *<string*>
Get general help: Help
Get help for a cmdlet: Help <cmdlet name> or <cmdlet name> -?
Exchange team blog: Get-ExBlog
Show full output for a command: <command> | Format-List

Show quick reference guide: QuickRef
VERBOSE: Connecting to EX2019.RAMLAN.CA.
VERBOSE: Connected to EX2019.RAMLAN.CA.
[PS] C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft Exchange Server 2019>Get-ExchangeServer | Format-List
Name, Edition, AdminDisplayVersion

Name              : EX2019
Edition            : Enterprise
AdminDisplayVersion : Version 15.2 (Build 986.5)
```

## Exchange 2019 Version History:









### Exchange Server 2019

The table in this section provides build numbers and general release dates for each version of Microsoft Exchange Server 2019.

Product name	Release date	Build number (short format)	Build number (long format)
<a href="#">Exchange Server 2019 CU12 (2022H1)</a>	April 20, 2022	15.2.1118.7	15.02.1118.007
<a href="#">Exchange Server 2019 CU11 Mar22SU</a>	March 8, 2022	15.2.986.22	15.02.0986.022
<a href="#">Exchange Server 2019 CU11 Jan22SU</a>	January 11, 2022	15.2.986.15	15.02.0986.015
<a href="#">Exchange Server 2019 CU11 Nov21SU</a>	November 9, 2021	15.2.986.14	15.02.0986.014
<a href="#">Exchange Server 2019 CU11 Oct21SU</a>	October 12, 2021	15.2.986.9	15.02.0986.009
<a href="#">Exchange Server 2019 CU11</a>	September 28, 2021	15.2.986.5	15.02.0986.005

Now we are ready to install CU12. Mount the ISO and run setup.exe

DVD Drive (D:) EXCHANGESERVER2019-X64-CU12

Name	Date modified	Type	Size
 Setup.EXE	25-Mar-2022 6:11 ...	Application	22 KB
 Microsoft.Exchange.Setup.SignVerfWrap...	25-Mar-2022 5:57 ...	Application extens...	75 KB
 Microsoft.Exchange.Setup.Bootstrapper....	25-Mar-2022 6:09 ...	Application extens...	95 KB
 Microsoft.Exchange.Setup.AcquireLangu...	25-Mar-2022 6:08 ...	Application extens...	57 KB
 Microsoft.Exchange.Diagnostics.dll	25-Mar-2022 5:59 ...	Application extens...	1,777 KB
 Microsoft.Exchange.Data.Common.dll	25-Mar-2022 5:55 ...	Application extens...	1,648 KB
 Microsoft.Exchange.CabUtility.dll	25-Mar-2022 5:55 ...	Application extens...	271 KB
 EXCHANGESERVER.msi	25-Mar-2022 10:19...	Windows Installer ...	7,140 KB

MICROSOFT EXCHANGE SERVER 2019 CUMULATIVE UPDATE 12

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## Check for Updates?

You can have Setup download Exchange Server updates from the Internet before you install Exchange. If updates are available, they'll be downloaded and used by Setup. By downloading updates now, you'll have the latest security and product updates. If you don't want to check for updates right now, or if you don't have access to the Internet, skip this step. If you skip this step, be sure to download and install any available updates after you've completed Setup.

Select one of the following options:

- ☒ Connect to the Internet and check for updates
- ☐ Don't check for updates right now

Exchange

next

## Downloading Updates...

No updates found, click next to continue with setup.

Exchange

next

## Copying Files...

Setup needs to copy files that are required to install Exchange Server.

Copying files...

88%



Exchange

# Upgrade

You are about to upgrade Microsoft Exchange Server. This wizard will guide you through the upgrade process.

Plan your Exchange Server deployment:

[Read about Exchange Server](#)

[Read about supported languages](#)

[Use the Exchange Server Deployment Assistant](#)

Exchange

next

# License Agreement

Please read and accept the Exchange Server license agreement.

## MICROSOFT SOFTWARE LICENSE TERMS

### MICROSOFT EXCHANGE SERVER 2019 STANDARD, ENTERPRISE, TRIAL AND HYBRID

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft

- updates,
- supplements,
- Internet-based services, and
- support services

for this software unless other terms accompany those items. If so, those terms apply. Your use of this software may be subject to the additional agreements Microsoft has with you or your organization.

- ☒ I accept the license agreement and will share diagnostic data with Microsoft (recommended). [Learn more](#)
- ☐ I accept the license agreement, but I'm not ready to share diagnostic data with Microsoft.
- ☐ I do not accept the license agreement.

Exchange

next

## Readiness Checks

The computer will be checked to verify that setup can continue.

Configuring Prerequisites

85%

Exchange

back

install

## Readiness Checks

The computer will be checked to verify that setup can continue.

Prerequisite Analysis

100%

### Error:

A reboot from a previous installation is pending. Please restart the system and then rerun Setup.

For more information, visit: [http://technet.microsoft.com/library\(EXCHG.150\)/ms.exch.setupreadiness.RebootPending.aspx](http://technet.microsoft.com/library(EXCHG.150)/ms.exch.setupreadiness.RebootPending.aspx)

### Error:

Setup can't continue with the upgrade because the Veeam.EndPoint.Service (5248) has open files. Close the process, and then restart Setup.

For more information, visit: [http://technet.microsoft.com/library\(EXCHG.150\)/ms.exch.setupreadiness.ProcessNeedsToBeClosedOnUpgrade.aspx](http://technet.microsoft.com/library(EXCHG.150)/ms.exch.setupreadiness.ProcessNeedsToBeClosedOnUpgrade.aspx)

### Warning:

Setup will prepare the organization for Exchange Server 2019 by using 'Setup /PrepareAD'. No Exchange Server 2013 roles have been detected in this topology. After this operation, you will not be able to install any Exchange Server 2013 roles.

For more information, visit: <https://docs.microsoft.com/Exchange/plan-and-deploy/deployment-ref/readiness-checks?view=exchserver-2019>

Exchange

back

retry

## Readiness Checks

The computer will be checked to verify that setup can continue.

Prerequisite Analysis

100%

Warning:  
Setup will prepare the organization for Exchange Server 2019 by using 'Setup /PrepareAD'. No Exchange Server 2013 roles have been detected in this topology. After this operation, you will not be able to install any Exchange Server 2013 roles.  
For more information, visit: <https://docs.microsoft.com/Exchange/plan-and-deploy/deployment-ref/readiness-checks?view=exchserver-2019>

Exchange

install

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## Setup Progress

Step 1 of 17: Organization Preparation

23%

Exchange



## Setup Completed

Congratulations! Setup has finished successfully. To complete the installation of Microsoft Exchange Server, reboot the computer.

You can also start the Exchange Administration Center after Setup is finished.

☐ Launch Exchange Administration Center after finishing Exchange setup.

Exchange

finish

Restart the server and then check the version details by running this command.

```
[PS] C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft Exchange Server 2019>Get-ExchangeServer | Format-List Name, Edition, AdminDisplayVersion

Name           : EX2019
Edition        : Enterprise
AdminDisplayVersion : Version 15.2 (Build 1118.7)
```

## Exchange Server 2019

The table in this section provides build numbers and general release dates for each version of Microsoft Exchange Server 2019.

Product name	Release date	Build number (short format)	Build number (long format)
<a href="#">Exchange Server 2019 CU12 (2022H1)</a>	April 20, 2022	15.2.1118.7	15.02.1118.007

This concludes the CU12 upgrade process.

Thanks

Ram

21<sup>st</sup> Apr 2022

Checked to see, if, I can perform in place upgrade of Windows Server 2019 to Windows Server 2022 with Exchange Server 2019 CU12 installed. Unfortunately, as of now it is not **SUPPORTED**.

<https://docs.microsoft.com/en-us/exchange/plan-and-deploy/supportability-matrix?view=exchserver-2019>

## Supported operating system platforms

The following tables identify the operating system platforms on which each version of Exchange can run.

### ① Important

Releases of Windows Server and Windows that aren't listed in the tables below are not supported for use with any version or release of Exchange.

Server operating system	Exchange 2019 CU12 and later	Exchange 2019 CU11 and earlier	Exchange 2016 CU3 and later	Exchange 2016 CU2 and earlier	Exchange 2013 SP1 and later	Exchange 2010 SP3
Windows Server 2022 <sup>1</sup>	supported	Not supported	Not supported	Not supported	Not supported	Not supported
Windows Server 2019	supported	supported	Not supported	Not supported	Not supported	Not supported
Windows Server 2016	Not supported	Not supported	Supported	Not supported	Not supported	Not supported
Windows Server 2012 R2	Not supported	Not supported	Supported	Supported	Supported	Supported
Windows Server 2012	Not supported	Not supported	Supported	Supported	Supported	Supported
Windows Server 2008 R2 SP1	Not supported	Not supported	Not supported	Not supported	Supported	Supported
Windows Server 2008 SP2	Not supported	Not supported	Not supported	Not supported	Not supported	Supported

<sup>1</sup> In-place upgrades from Windows Server 2019 with Exchange 2019 installed to Windows Server 2022 are not yet supported.

Client operating systems only support the Exchange management tools.

Client operating system	Exchange 2019	Exchange 2016 CU3 and later	Exchange 2013 SP1 and later	Exchange 2010 SP3
Windows 11	Not supported	Not supported	Not supported	Not supported
Windows 10	Supported	Supported	Not supported	Not supported
Windows 8.1	Not supported	Supported	Supported	Not supported
Windows 8	Not supported	Not supported	Supported	Supported

# Supported Active Directory environments

The following table identifies the Active Directory environments that Exchange can communicate with. An Active Directory server refers to both writable global catalog servers and to writable domain controllers. Read-only global catalog servers and read-only domain controllers are not supported.

Operating system environment	Exchange 2019 CU12 and later	Exchange 2019 CU11 and earlier	Exchange 2016 CU12 and later	Exchange 2016 CU7 to CU11	Exchange 2016 CU3 to CU6	Exchange 2016 CU2 and earlier	Exchange 2013 SP1 and later	Exchange 2010 SP3 RU22 or later	Exchange 2010 SP3 RU5 - RU21
Windows Server 2022 Active Directory servers	Supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
Windows Server 2019 Active Directory servers	Supported	Supported	Supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
Windows Server 2016 Active Directory servers	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Not supported
Windows Server 2012 R2 Active Directory servers	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Windows Server 2012 Active Directory servers	Not supported	Not supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Windows Server 2008 R2 SP1 Active Directory servers	Not supported	Not supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Windows Server 2008 SP2 Active Directory servers	Not supported	Not supported	Not supported	Not supported	Supported	Supported	Supported	Supported	Supported
Windows Server 2003 SP2 Active Directory servers	Not supported	Not supported	Not supported	Not supported	Not supported	Supported	Supported	Supported	Supported

AD forest functional level	Exchange 2019	Exchange 2016 CU7 and later	Exchange 2016 CU3 to CU6	Exchange 2016 CU2 and earlier	Exchange 2013 SP1 and later	Exchange 2010 SP3 RU22 or later	Exchange 2010 SP3 RU5 - RU21
Windows Server 2016	Supported	Supported	Supported	Supported	Supported	Supported	Not supported
Windows Server 2012 R2	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Windows Server 2012	Not supported	Supported	Supported	Supported	Supported	Supported	Supported
Windows Server 2008 R2	Not supported	Supported	Supported	Supported	Supported	Supported	Supported
Windows Server 2008	Not supported	Not supported	Supported	Supported	Supported	Supported	Supported

# Web browsers supported for use with the premium version of Outlook Web App or Outlook on the web

The following table identifies the web browsers supported for use together with the premium version of Outlook Web App or Outlook on the web.

Browser	Exchange 2019	Exchange 2016	Exchange 2013 SP1 and later	Exchange 2010 SP3
Microsoft Edge	Supported	Supported	Supported	Not supported
Internet Explorer 11	Supported	Supported	Supported	Supported
Internet Explorer 10	Not supported	Not supported	Supported	Supported
Internet Explorer 9	Not supported	Not supported	Supported	Supported
Internet Explorer 8	Not supported	Not supported	Supported	Supported
Internet Explorer 7	Not supported	Not supported	Not supported	Supported
Firefox	Current release of Firefox*	Current release of Firefox*	Not supported	Not supported
Safari	Current release of Safari	Current release of Safari	Not supported	Not supported
Safari 3.1 or later	Not supported	Not supported	Not supported	Supported
Safari 5.0 or later	Not supported	Not supported	Supported	Supported
Chrome	Current release of Chrome*	Current release of Chrome*	Not supported	Not supported

\* Current release of Firefox or Chrome refers to the latest version or the immediately previous version.

# Web browsers supported for use with the basic version of Outlook Web App or Outlook on the web

The following table identifies the web browsers supported for use together with the light (basic) version of Outlook Web App or Outlook on the web.

## Note

Outlook Web App Basic (Outlook Web App Light) is supported for use in mobile browsers. However, if rendering or authentication issues occur in a mobile browser, determine whether the issue can be reproduced by using Outlook Web App Light in the full client of a supported browser. For example, test the use of Outlook Web App Light in Safari, Chrome, or Internet Explorer. If the issue can't be reproduced in the full client, we recommend that you contact the mobile device vendor for help. In these cases, we collaborate with the vendor as appropriate.

Browser	Exchange 2019	Exchange 2016	Exchange 2013	Exchange 2010 SP3
Microsoft Edge	Supported	Supported	Not supported	Not supported
Internet Explorer 11	Supported	Supported	Supported	Supported
Internet Explorer 10	Not supported	Not supported	Supported	Supported
Internet Explorer 9	Not supported	Not supported	Supported	Supported
Internet Explorer 8	Not supported	Not supported	Supported	Supported
Internet Explorer 7	Not supported	Not supported	Supported	Supported
Safari	Current release of Safari	Current release of Safari	Supported	Supported
Firefox	Not supported	Current release of Firefox*	Supported	Supported
Chrome	Not supported	Current release of Chrome*	Not supported	Not supported
Opera	Not supported	Not supported	Supported	Supported

\* Current release of Firefox or Chrome refers to the latest version or the immediately previous version.

# Web browsers supported for use of S/MIME with Outlook Web App or Outlook on the web

The following table identifies the web browsers supported for the use of S/MIME together with Outlook Web App or Outlook on the web.

Browser	Exchange 2019	Exchange 2016	Exchange 2013 SP1 and later	Exchange 2010 SP3
Microsoft Edge	Supported	Not supported	Not supported	Not supported
Internet Explorer 11	Supported	Supported	Supported	Supported
Internet Explorer 10	Not supported	Not supported	Supported	Supported
Internet Explorer 9	Not supported	Not supported	Supported	Supported
Internet Explorer 8	Not supported	Not supported	Not supported	Supported
Internet Explorer 7	Not supported	Not supported	Not supported	Supported

## Clients

The following tables identify the mail clients that are supported for use together with each version of Exchange.

Client	Exchange 2019	Exchange 2016	Exchange 2013 SP1 and later	Exchange 2010 SP3
Microsoft 365 Apps for enterprise	Supported	Supported	Supported	Not supported
Outlook 2021	Supported	Supported	Not supported	Not supported
Outlook 2019	Supported	Supported	Supported	Not supported
Outlook 2016	Supported <sup>1</sup>	Supported <sup>1</sup>	Supported	Supported
Outlook 2013	Supported <sup>1</sup>	Supported <sup>1</sup>	Supported	Supported
Outlook 2010	Not supported	Supported <sup>1</sup>	Supported <sup>2</sup>	Supported
Outlook 2007	Not supported	Not supported	Supported <sup>3</sup>	Supported
Outlook for Mac (Microsoft 365, 2019)	Supported <sup>1</sup>	Supported <sup>1</sup>	Supported	Not supported
Outlook 2019 for Mac	Supported <sup>1</sup>	Supported <sup>1</sup>	Supported	Not supported
Outlook for Mac (Microsoft 365, 2016)	Not supported	Supported <sup>1</sup>	Supported	Supported

<sup>1</sup> Requires the latest Office service pack and the latest public update.

<sup>2</sup> Requires Outlook 2010 Service Pack 1 and the latest public update.

<sup>3</sup> Requires Outlook 2007 Service Pack 3 and the latest public update.

## Exchange 2019

.NET Framework version	CU12 to CU4	CU3, CU2	CU1, RTM
4.8	Supported	Supported	Not supported
4.7.2	Not supported	Supported	Supported

## Exchange 2016

.NET Framework version	CU23 to CU15	CU14, CU13	CU12, CU11	CU10	CU9, CU8	CU7, CU6, CU5	CU4, CU3	CU2	CU1, RTM
4.8	Supported	Supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
4.7.2	Not supported	Supported	Supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
4.7.1	Not supported	Not supported	Supported	Supported	Supported	Not supported	Not supported	Not supported	Not supported
4.6.2	Not supported	Not supported	Not supported	Not supported	Supported	Supported	Supported	Not supported	Not supported
4.6.1*	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Supported	Supported	Not supported
4.5.2	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Supported	Supported	Supported

\* .NET Framework 4.6.1 also requires a hotfix, and a different hotfix is required for different versions of Windows. For more information, see [Released: June 2016 Quarterly Exchange Updates](#).

## Exchange 2013

.NET Framework version	CU23	CU21, CU22	CU19, CU20	CU16, CU17, CU18	CU15	CU13, CU14	CU12 to SP1	CU3 to RTM
4.8	Supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
4.7.2	Supported	Supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
4.7.1	Not supported	Supported	Supported	Not supported	Not supported	Not supported	Not supported	Not supported
4.6.2	Not supported	Not supported	Supported	Supported	Supported	Not supported	Not supported	Not supported
4.6.1*	Not supported	Not supported	Not supported	Not supported	Supported	Supported	Not supported	Not supported
4.5.2	Not supported	Not supported	Not supported	Not supported	Supported	Supported	Supported	Not supported
4.5.1	Not supported	Not supported	Not supported	Not supported	Supported	Supported	Supported	Not supported
4.5	Not supported	Not supported	Not supported	Not supported	Not supported	Supported	Supported	Supported

\* .NET Framework 4.6.1 also requires a hotfix, and a different hotfix is required for different versions of Windows. For more information, see [Released: June 2016 Quarterly Exchange Updates](#).

## Exchange 2010 SP3

.NET Framework version	Exchange 2010 SP3
.NET Framework 4.5	Supported <sup>1,2</sup>
.NET Framework 4.0	Supported <sup>1,2</sup>
.NET Framework 3.5 SP1	Supported
.NET Framework 3.5	Supported <sup>1</sup>

<sup>1</sup> On Windows Server 2012, you need to install the .NET Framework 3.5 before you can use Exchange 2010 SP3.

<sup>2</sup> Exchange 2010 uses only the .NET Framework 3.5 and the .NET Framework 3.5 SP1 libraries. It doesn't use the .NET Framework 4.5 libraries if they're installed on the server. We support the installation of any version of the .NET Framework 4.5 (for example, .NET Framework 4.5.1, .NET Framework 4.5.2, etc.) as long as the .NET Framework 3.5 or the .NET Framework 3.5 SP1 is also installed on the server.

## Windows PowerShell

- Exchange 2013 or later requires the version of Windows PowerShell that's included in Windows (unless otherwise specified by an Exchange Setup-enforced prerequisite rule).
- Exchange 2010 requires Windows PowerShell 2.0 on all supported versions of Windows.
- Exchange does not support the use of Windows Management Framework add-ons on any version of Windows PowerShell or Windows.
- If there are other installed versions of Windows PowerShell or PowerShell Core that support side-by-side operation, Exchange will use only the version that it requires.

## Microsoft Management Console

The following table identifies the version of Microsoft Management Console (MMC) that can be used together with each version of Exchange.

MMC	Exchange 2016	Exchange 2013 SP1 and later	Exchange 2010 SP3
MMC 3.0	Supported	Supported	Supported

## Windows Installer

The following table identifies the version of Windows Installer that is used together with each version of Exchange.

Windows Installer	Exchange 2016	Exchange 2013 SP1 and later	Exchange 2010 SP3
Windows Installer 4.5	Supported	Supported	Supported
Windows Installer 5.0	Supported	Supported	Not supported