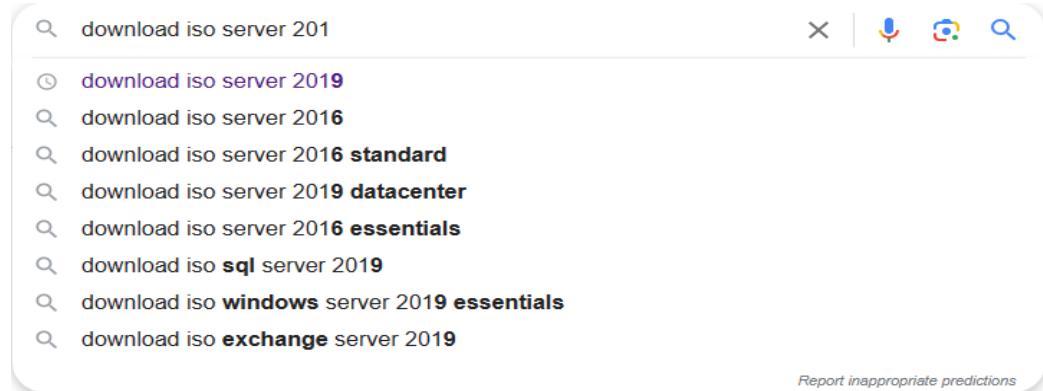


## Installation of Exchange Server 2019 in Active Directory

Step.1. If you are going to Use a Hyper V, you need to download an ISO file of any year 2016,2019 or 2022 to install your Exchange Server 2019. You can simply type 2016, 2019 or 2022 Exchange Server ISO file on any search engine and download it.



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### Licensing Guide

Help understand processors & cores Determine needs for your business

### Windows Server Calculator

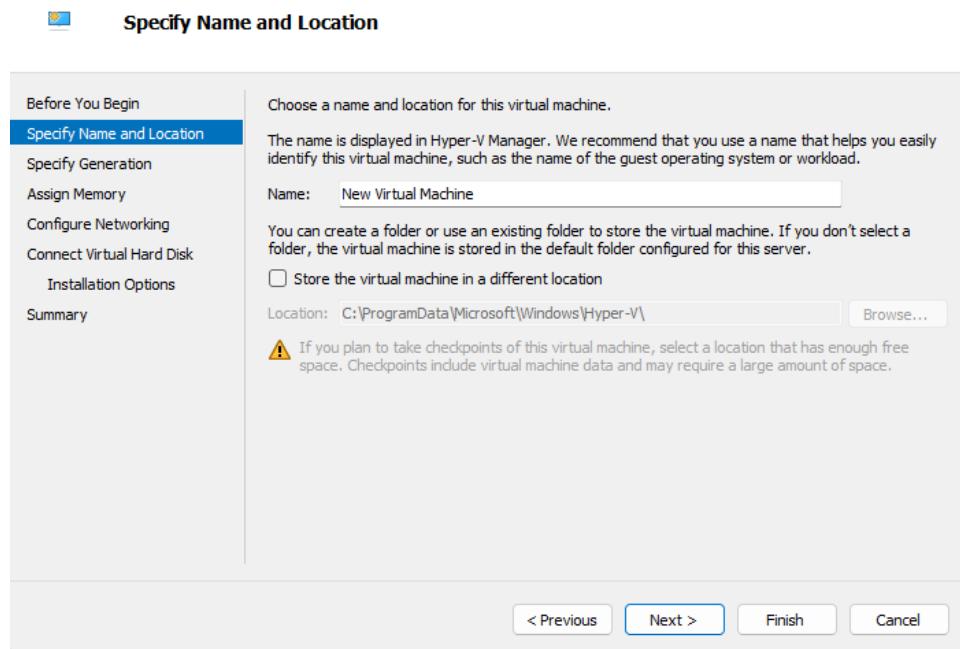
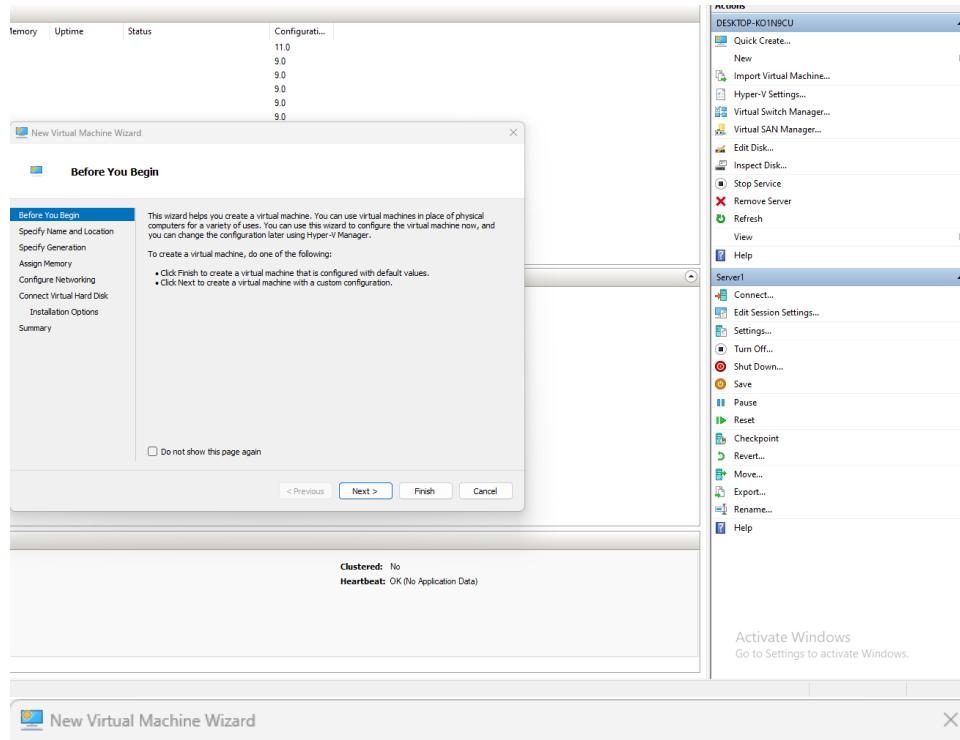
Input your server licensing needs Get a pdf copy of your results

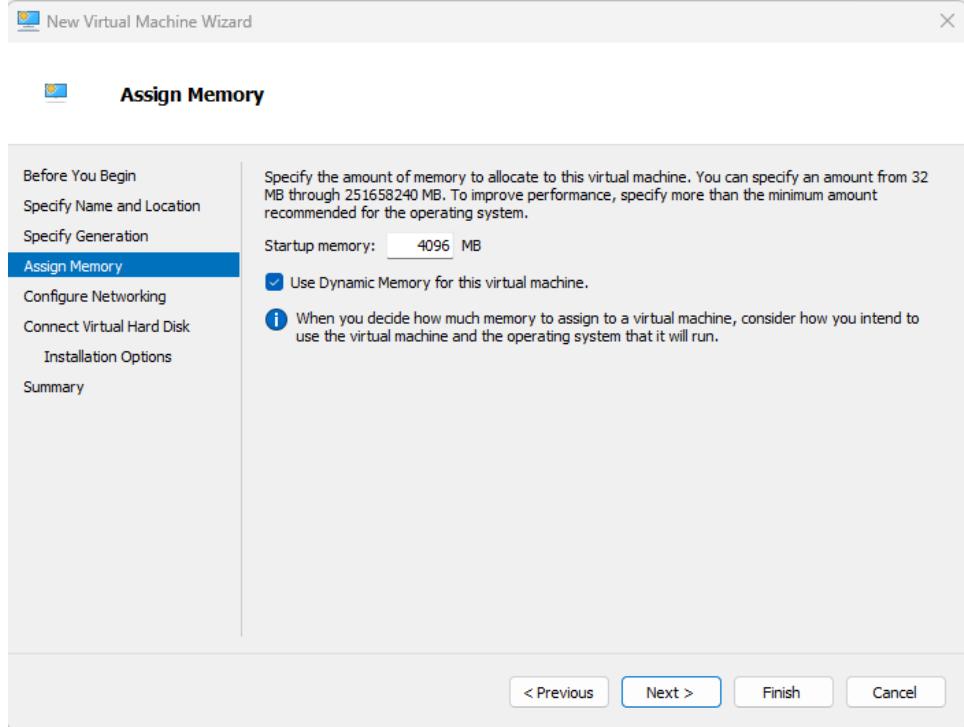
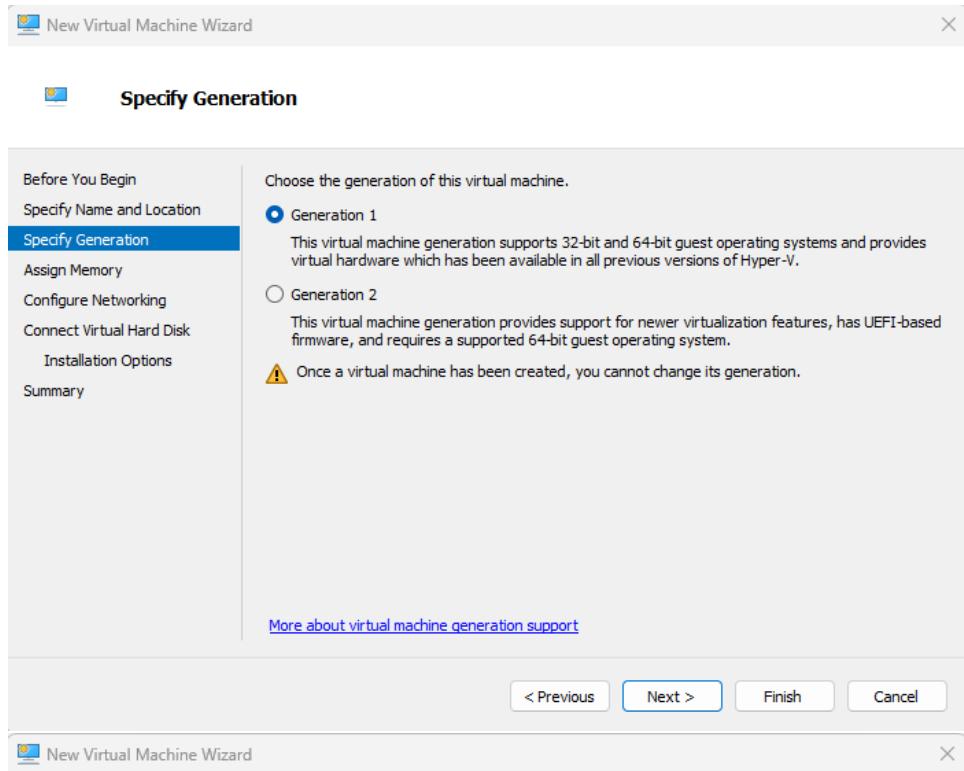
### Security Solutions

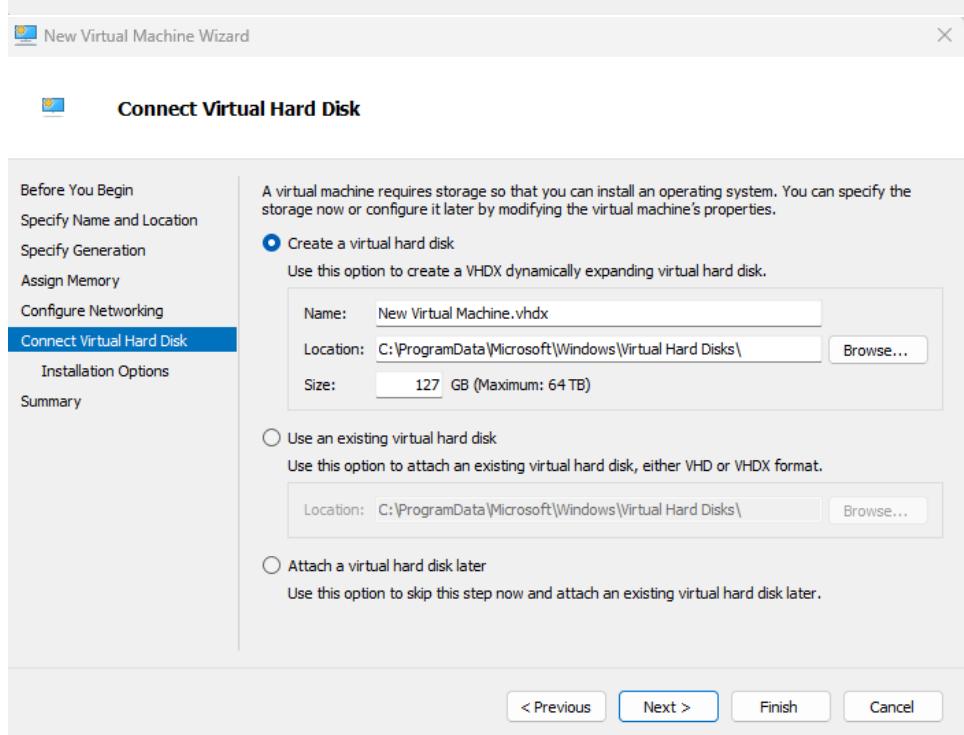
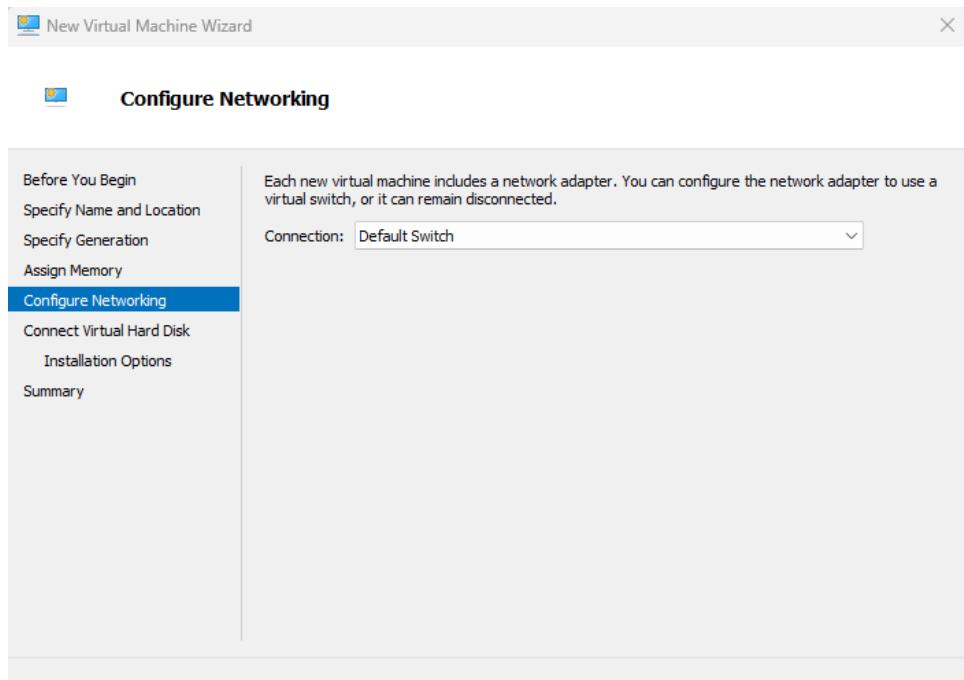
Safeguard your data and operations Advanced Cloud Security Solutions

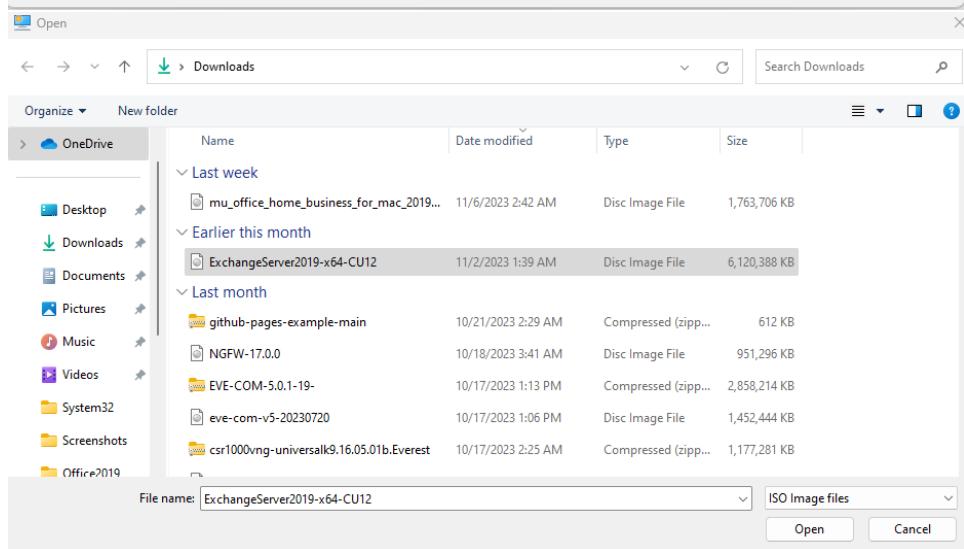
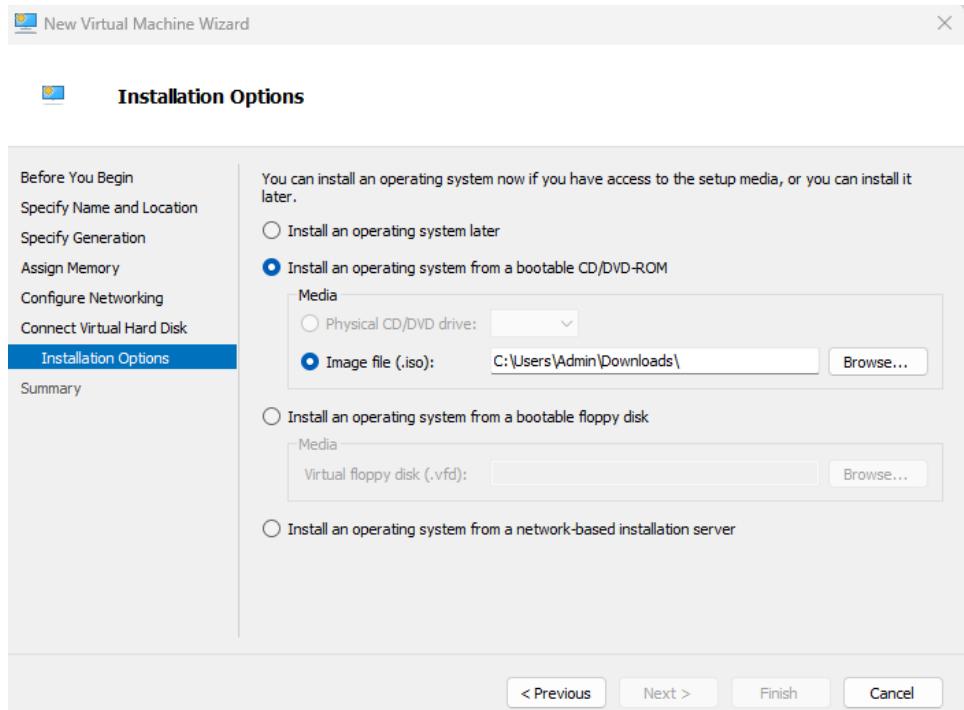
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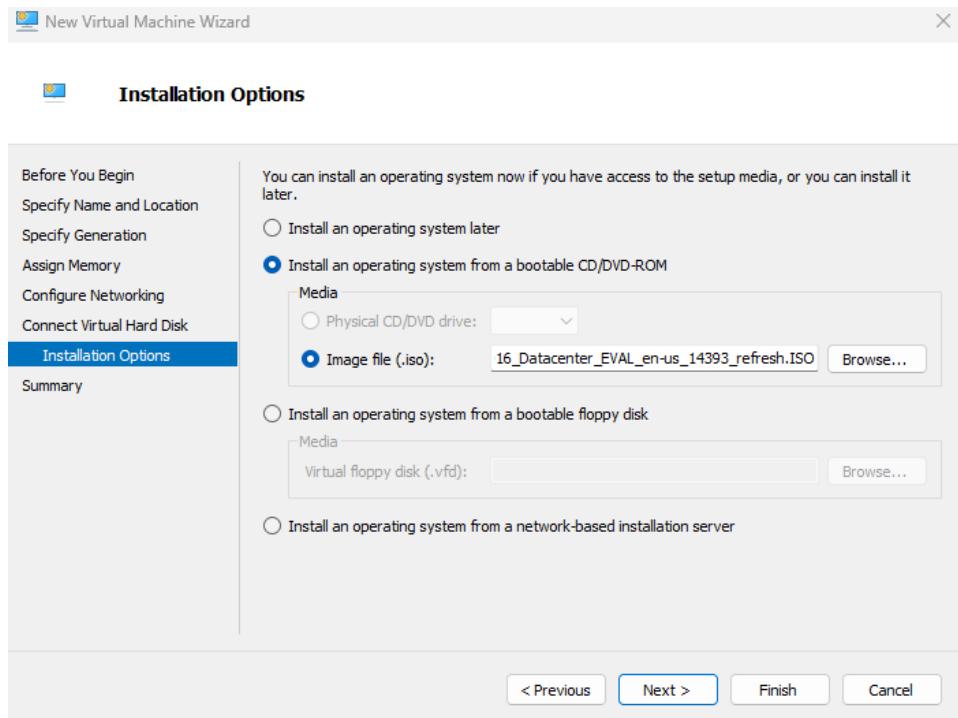
Generate



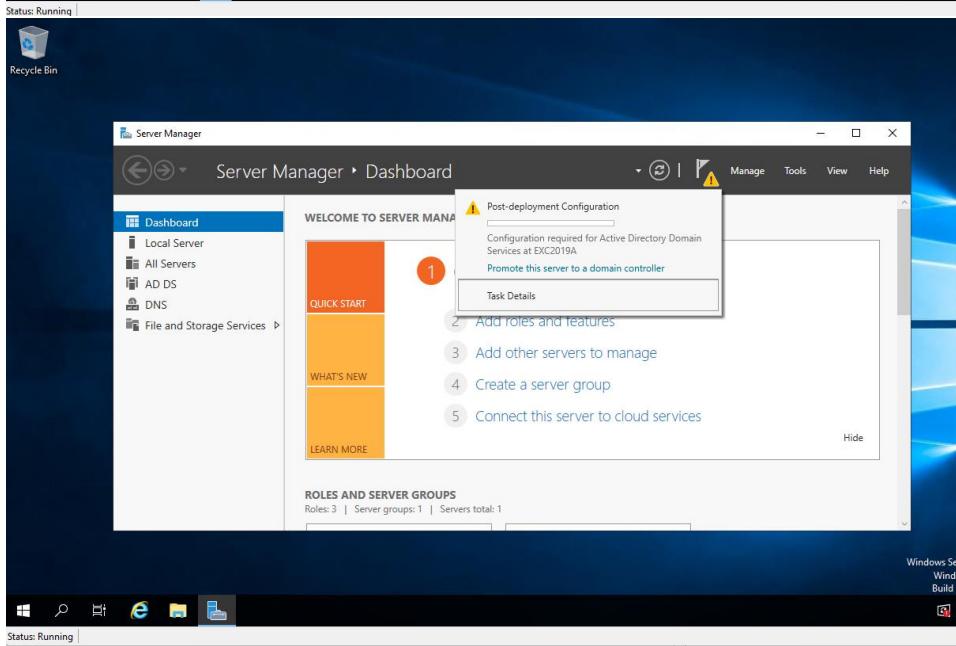
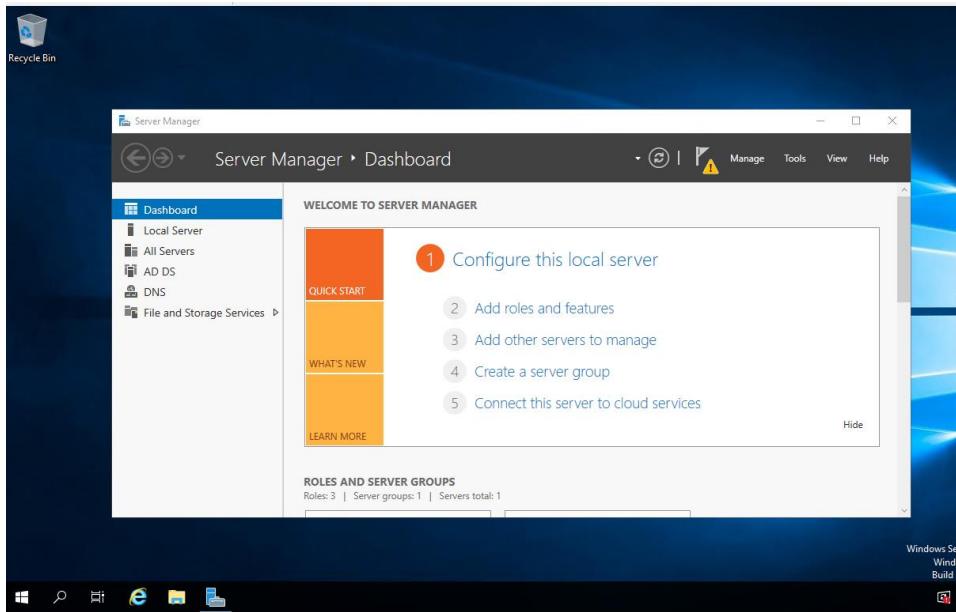


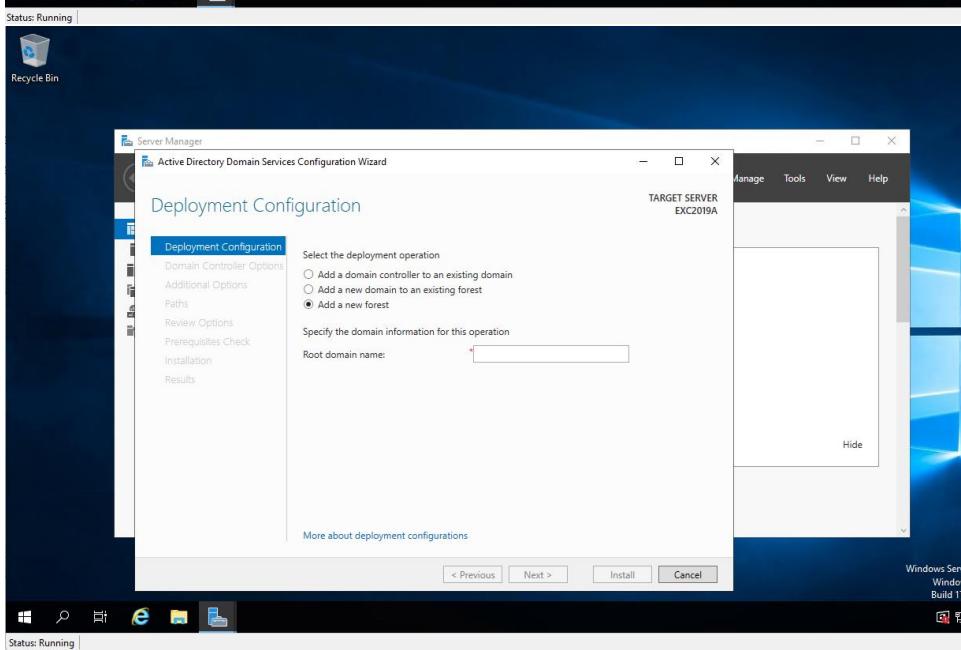
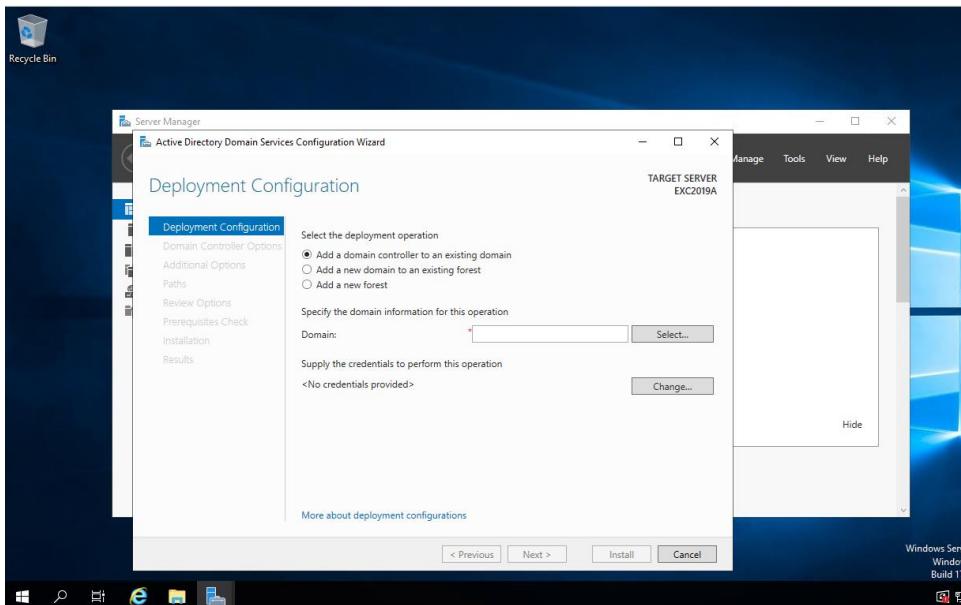


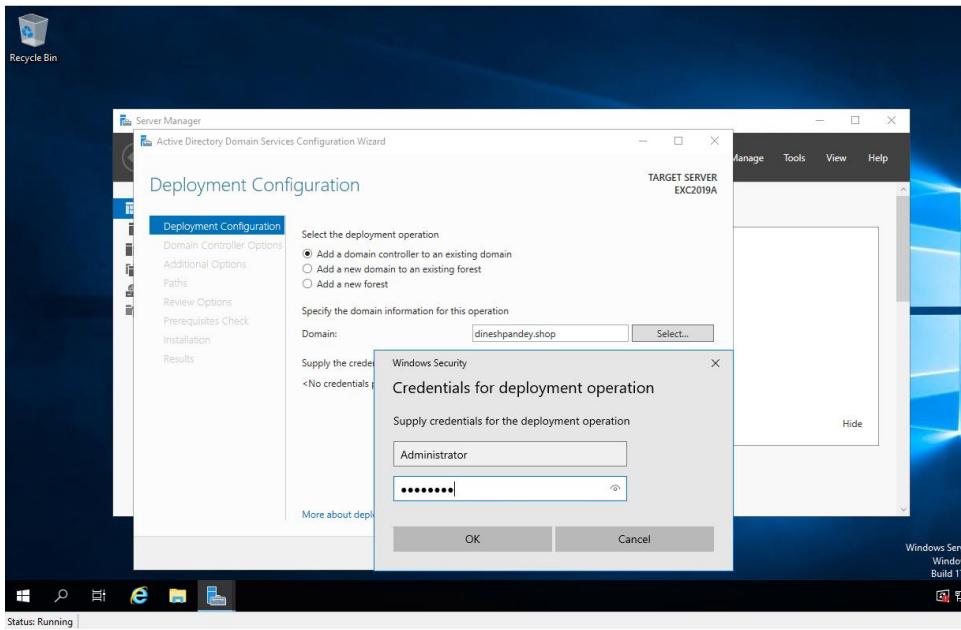




Step .2. After installation of the iso file in Hyper V, you can either connect or connect to an existing domain or create a new domain by selecting add to a new forest.

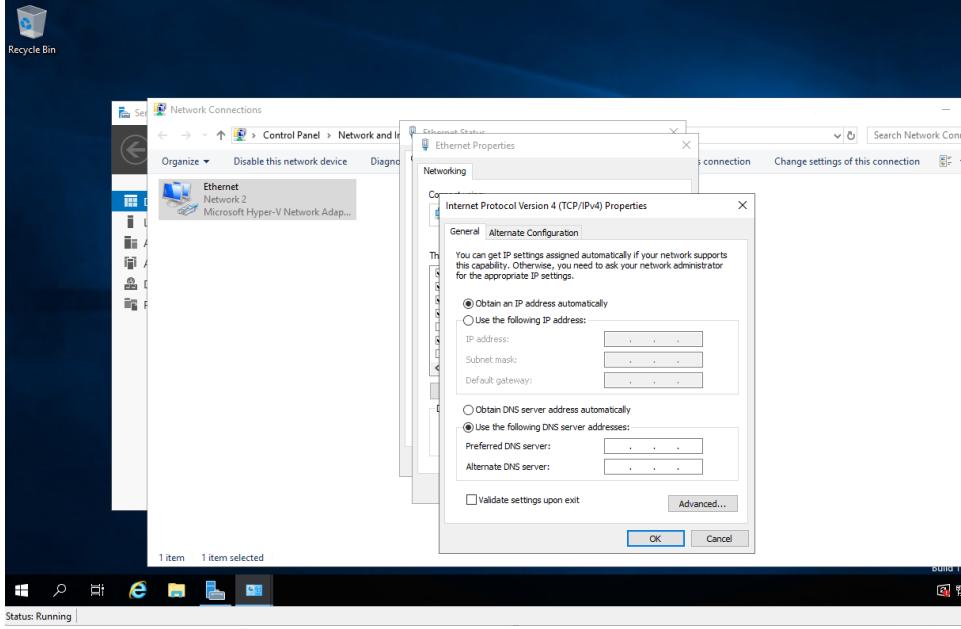
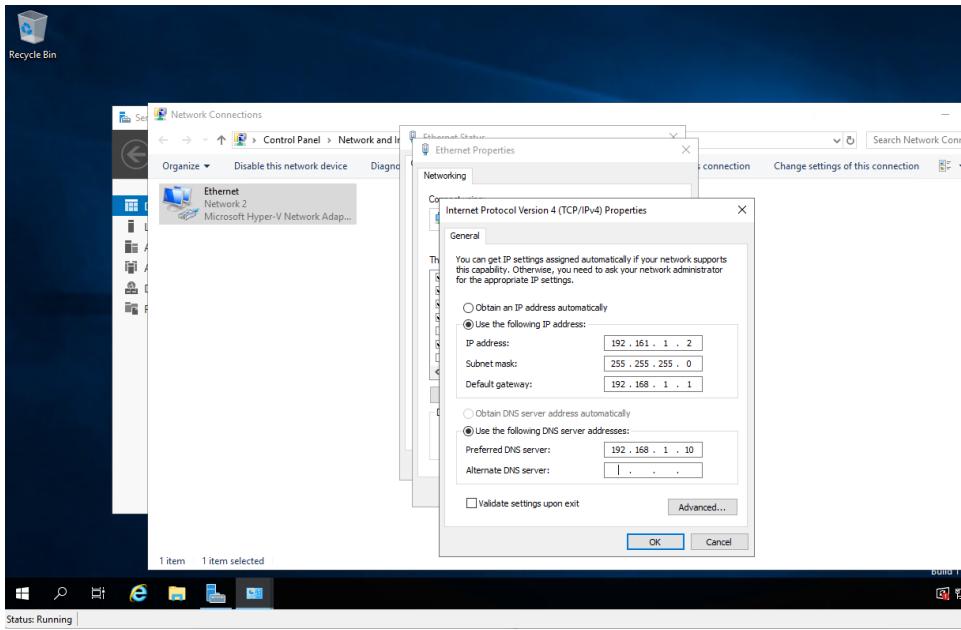




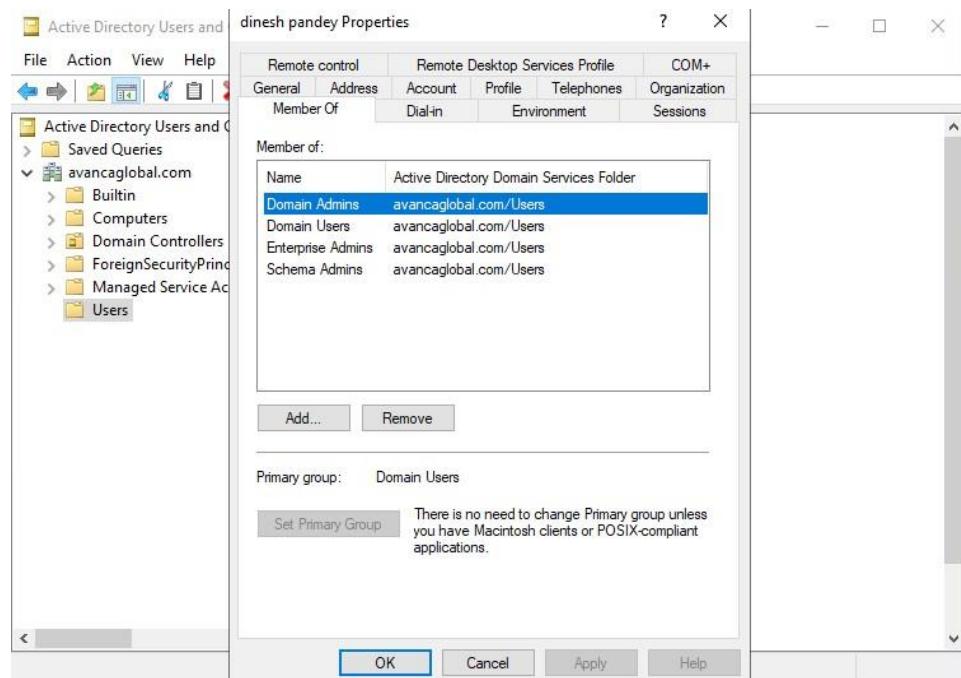
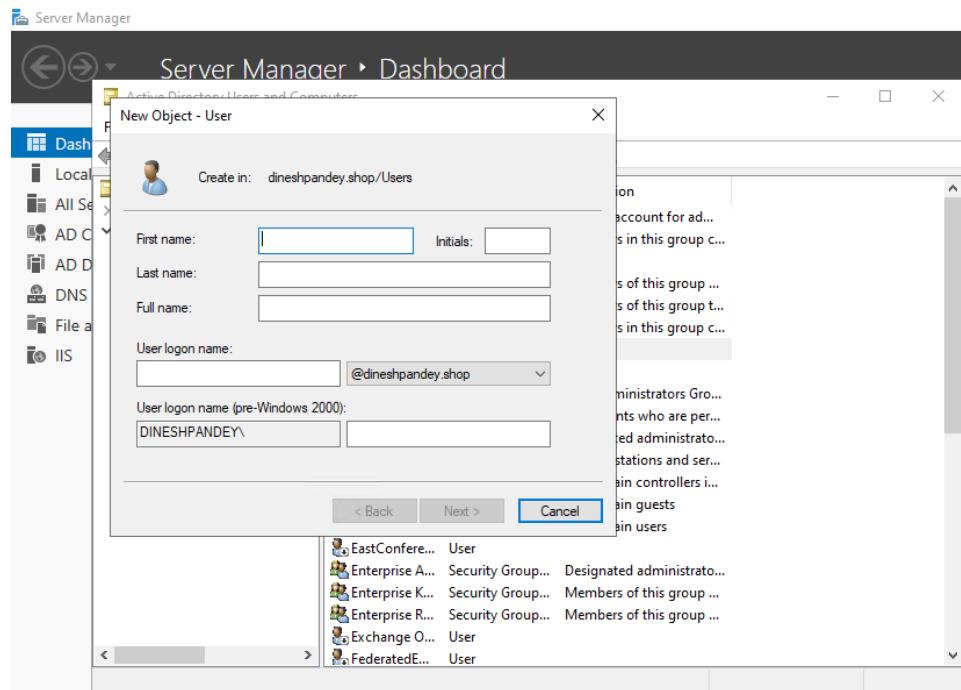


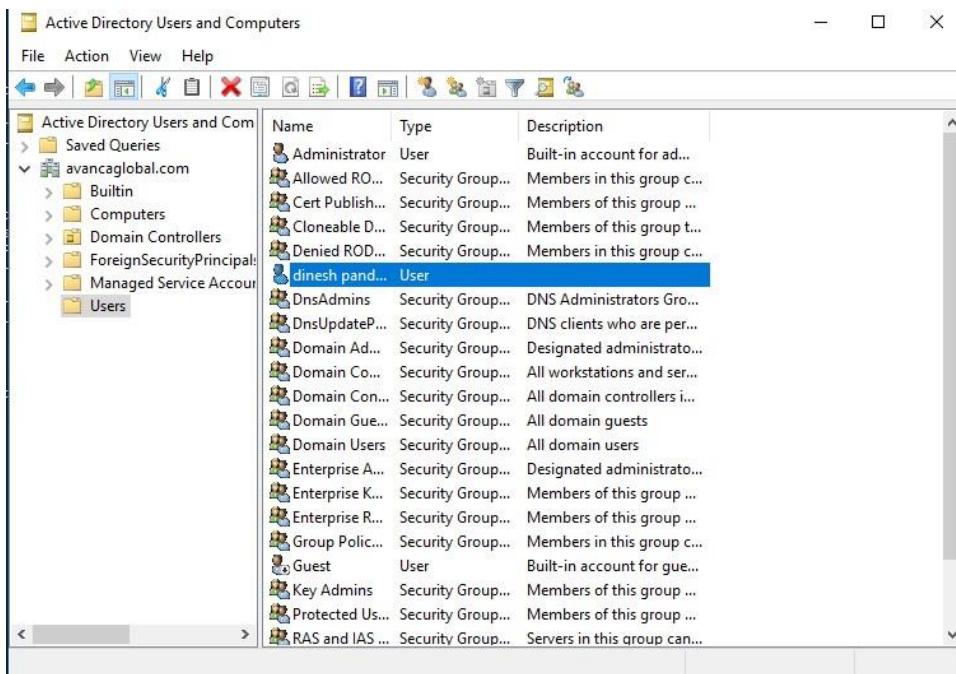
After completing the installation of the promotion of server to domain controller, don't forget to restart.

Step.3. After connecting the exchange server and a Domain Controller, please make sure to rename them, restart and assign them with IP address and DNS. DNS has to be identical if you want to assign statically or you can assign automatically also. (We can do this now or later, but we need assign the DNS and renaming the Server before mounting the exchange server 2019 located on E: or F:)



Step 4. Add active directory account and create a user give rights as schema, enterprise and domain admins.





The screenshot shows the Active Directory Users and Computers (ADUC) interface. The left pane displays a tree view of the directory structure under 'avancaglobal.com'. The 'Users' folder is expanded, showing several built-in and custom users and groups. The right pane is a grid view showing a list of objects with columns for 'Name', 'Type', and 'Description'. The object 'dinesh pand...' is selected and highlighted in blue. The list includes various built-in accounts and groups such as Administrator, Guest, and Domain Admins.

Name	Type	Description
Administrator	User	Built-in account for ad...
Allowed RO...	Security Group...	Members in this group c...
Cert Publish...	Security Group...	Members of this group ...
Cloneable D...	Security Group...	Members of this group t...
Denied ROD...	Security Group...	Members in this group c...
<b>dinesh pand...</b>	User	
DnsAdmins	Security Group...	DNS Administrators Gro...
DnsUpdateP...	Security Group...	DNS clients who are per...
Domain Ad...	Security Group...	Designated administrato...
Domain Co...	Security Group...	All workstations and ser...
Domain Con...	Security Group...	All domain controllers i...
Domain Gue...	Security Group...	All domain guests
Domain Users	Security Group...	All domain users
Enterprise A...	Security Group...	Designated administrato...
Enterprise K...	Security Group...	Members of this group ...
Enterprise R...	Security Group...	Members of this group ...
Group Polic...	Security Group...	Members in this group c...
Guest	User	Built-in account for gue...
Key Admins	Security Group...	Members of this group ...
Protected Us...	Security Group...	Members of this group ...
RAS and IAS ...	Security Group...	Servers in this group can...

Step.5. Download the latest version of exchange server 2019 iso file and install it in hyper V.

Server Manager

Download Cumulative Update 12 x +

https://www.microsoft.com/en-us/download/details.aspx?id=104131

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Internet Explorer was retired on June 15, 2022

IE 11 is no longer accessible. You can reload Internet Explorer sites with IE mode in Microsoft Edge.

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Internet Explorer logo transitioning to Microsoft Edge logo

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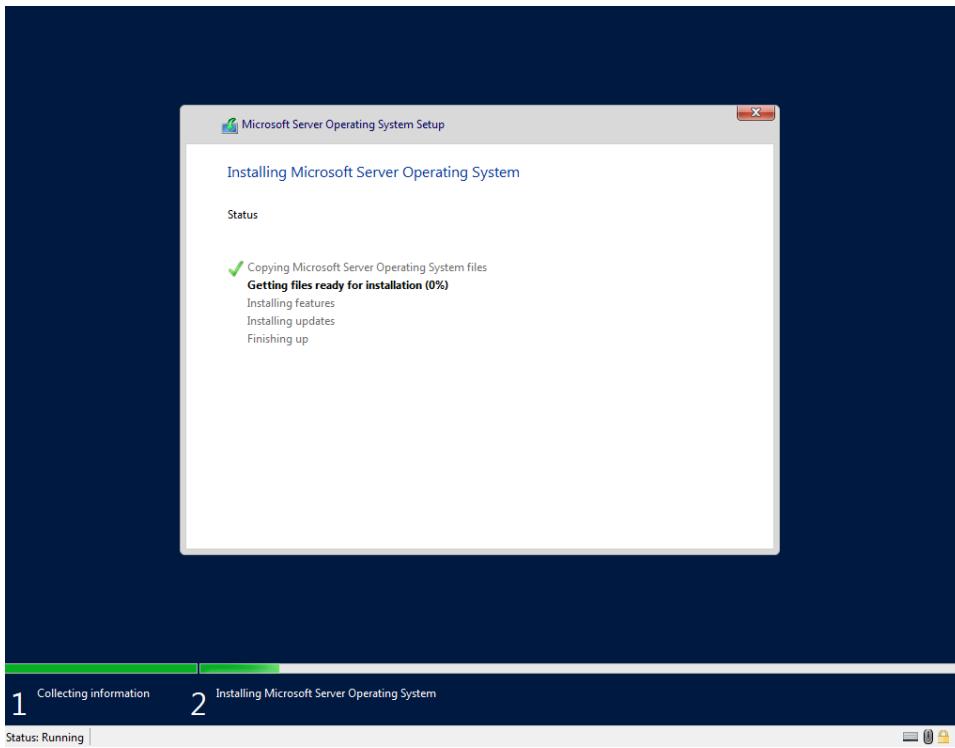
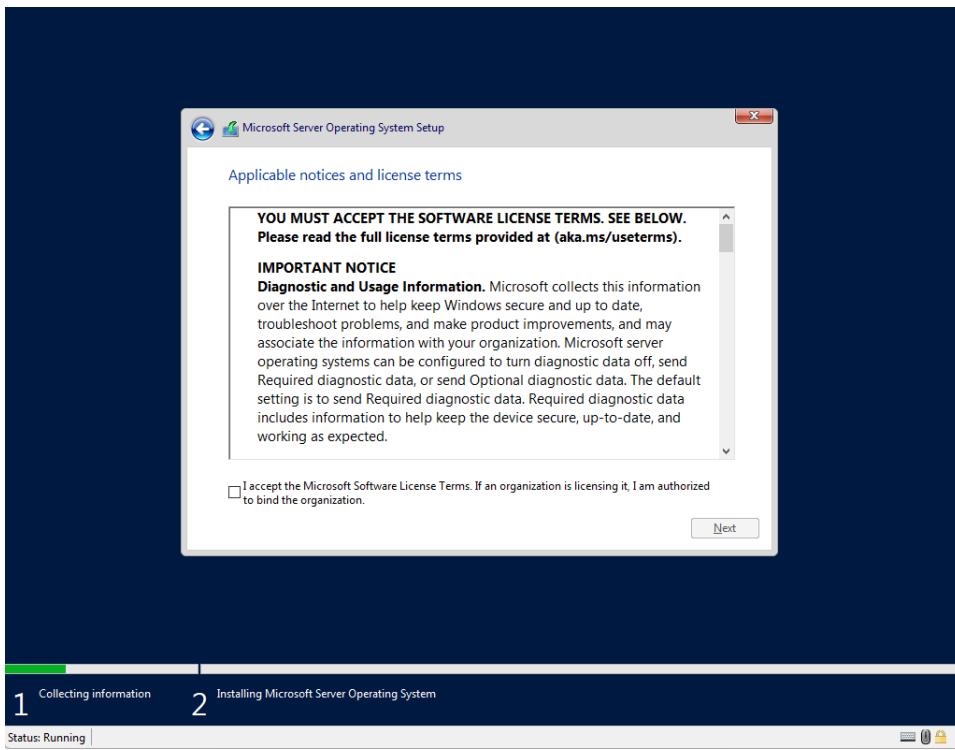
Expand all | [Collapse all](#)

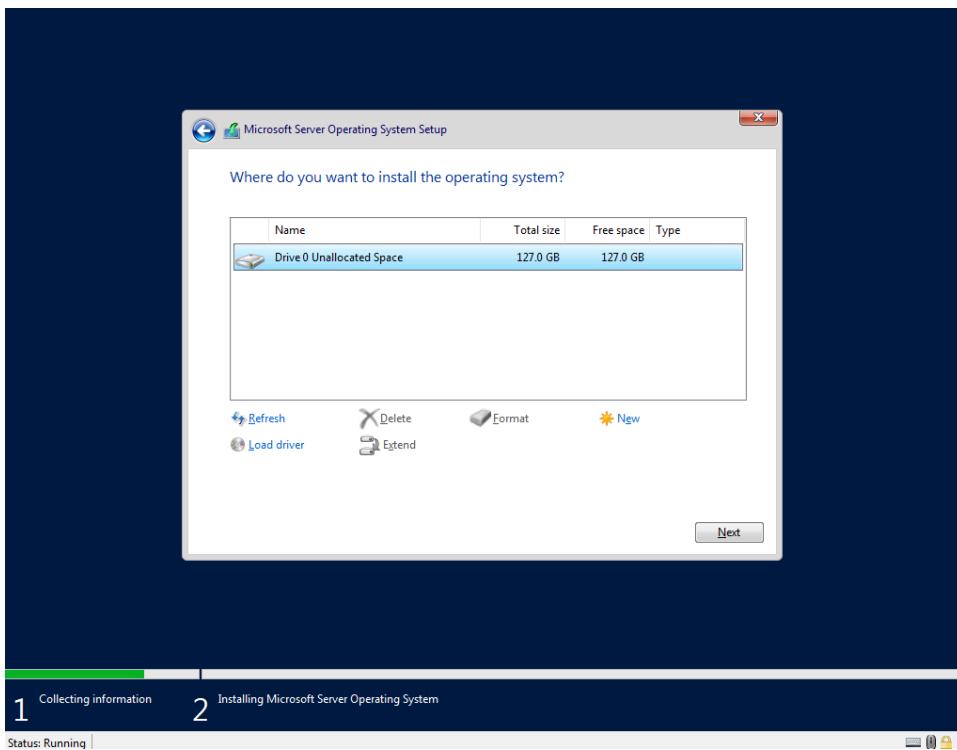
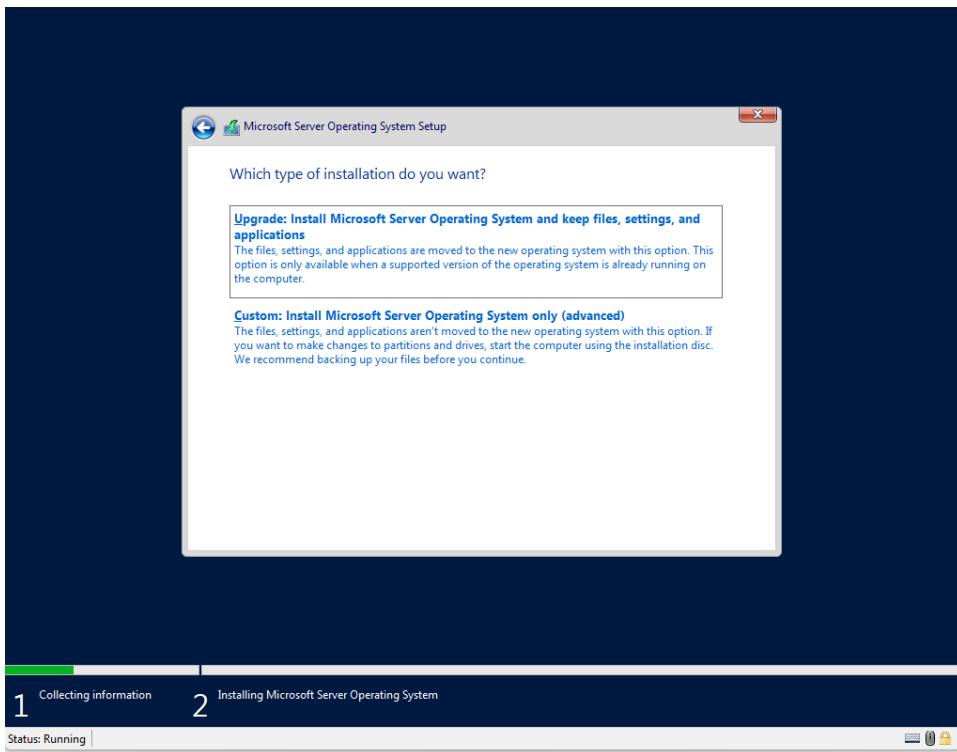
> Details

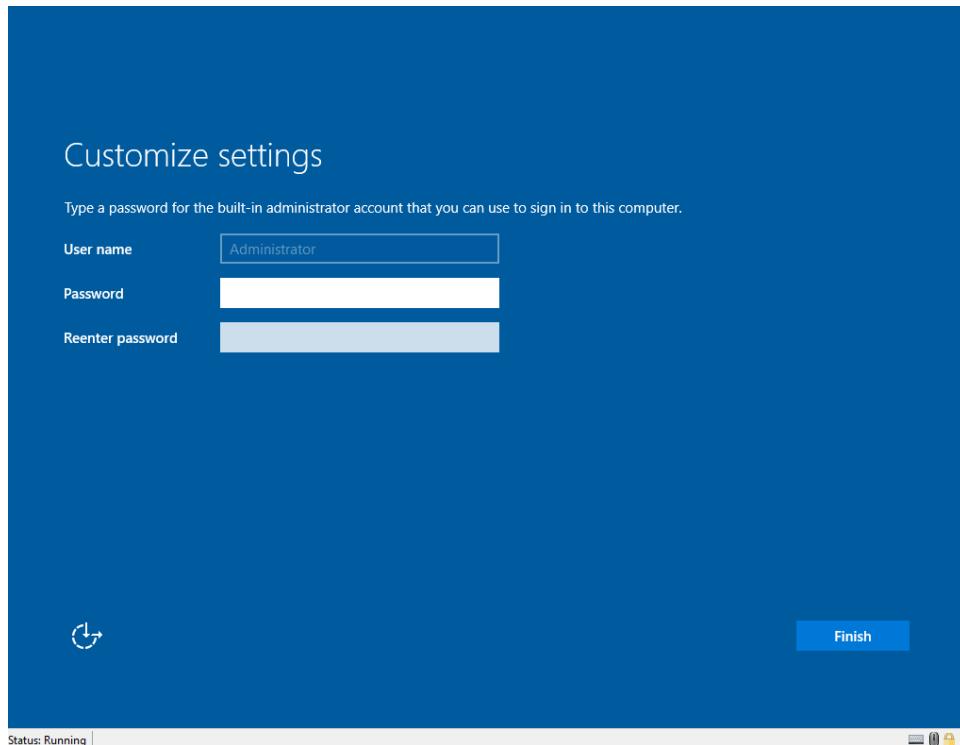
Version:	15.02.1118.007	Date Published:	4/20/2022
File Name:	Exchange Server 2019 CU12 ISO	File Size:	5.0 GB

Type here to search

Status: Running







Step.6. You need to visit this website and to see what prerequisites to download on GUI and download the below listed prerequisites. You will also need to use PowerShell to install additional prerequisites as the exchange server 2019 requires CLI to install prerequisites. The following download search and downloads will look like below.

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Exchange prerequisites

Install Office Online Server

Active Directory

Prepare AD and domains

Deploy new installations

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Learn / Exchange Server / Plan and deploy / Exchange Server prerequisites

Article • 06/15/2023 • 26 contributors

Feedback

In this article

What do you need to know before you begin?

Exchange 2019 prerequisites for preparing Active Directory

Windows Server 2019 & Windows Server 2022 prerequisites for Exchange 2019

Windows client prerequisites for the Exchange 2019 management tools

This topic provides the steps for installing the necessary Windows Server operating system and client prerequisites for Exchange 2019.

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For 1 p

Local Disk (C:) > Users > Administrator > Downloads

Name	Date modified	Type	Size
UcmaRuntimeSetup	11/2/2023 12:30 AM	Application	245,873 KB
vcredist_x64 (1)	11/2/2023 12:26 AM	Application	7,019 KB
vcredist_x86	11/2/2023 12:24 AM	Application	6,352 KB
vcredist_x64	11/2/2023 12:24 AM	Application	7,026 KB
vcredist_arm	11/2/2023 12:24 AM	Application	1,388 KB
ndp48-web	11/2/2023 12:24 AM	Application	1,406 KB

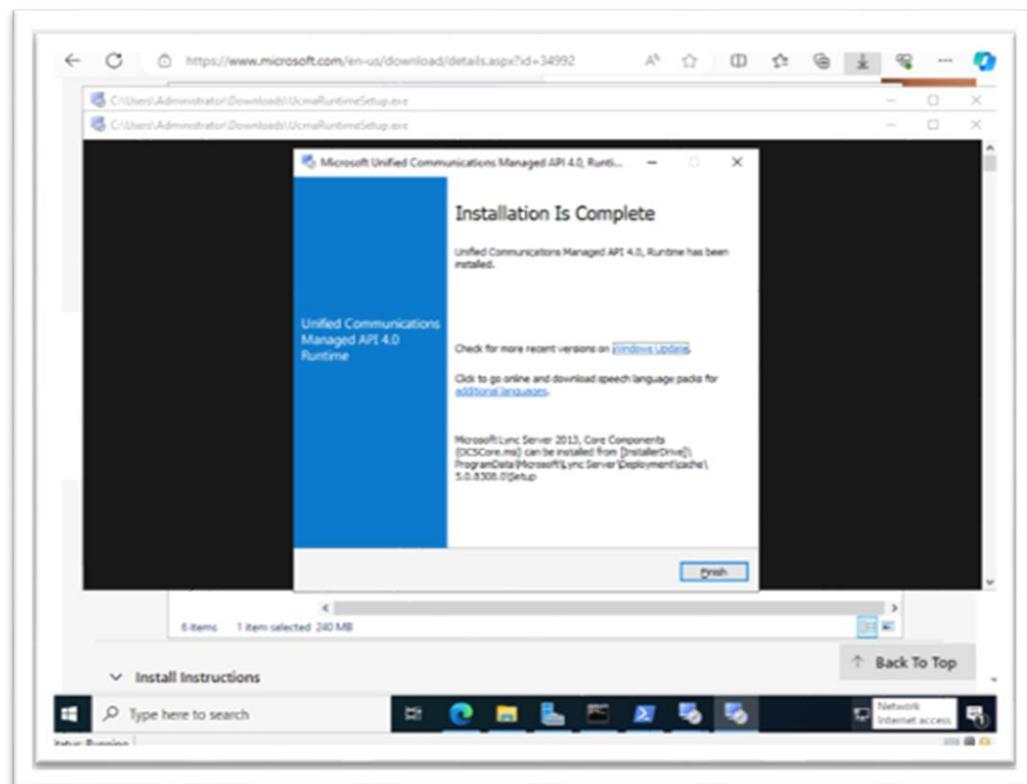
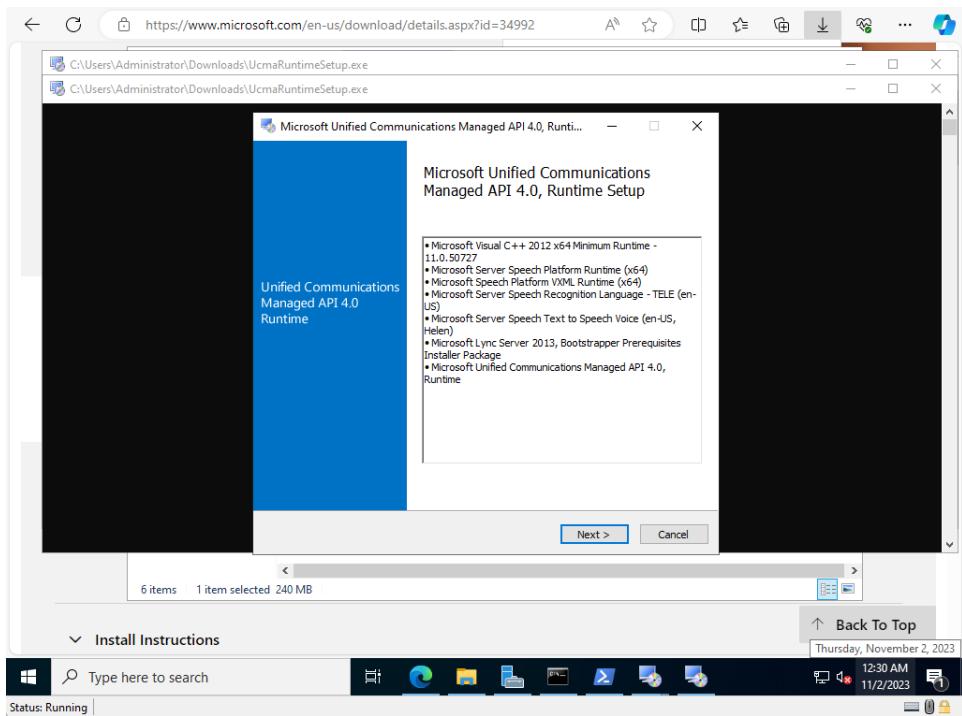
6 items 1 item selected 240 MB

Import

Install Instructions

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12:31 AM 11/2/2023



We are excited to announce that the IIS.NET Forums are moving to the new Microsoft Q&A experience. Learn more >

Microsoft

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All Downloads Community Contributed Downloads Microsoft Supported Downloads

Home > Downloads > Microsoft Supported Downloads > URL Rewrite

## URL Rewrite

Works With: IIS 7, IIS 7.5, IIS 8, IIS 8.5, IIS 10

### Overview



IIS URL Rewrite 2.1 enables Web administrators to create powerful rules to implement URLs that are easier for users to remember and easier for search engines to find. By using rule templates, rewrite



### Related Learning

#### Articles

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### Download Extensibility Samples

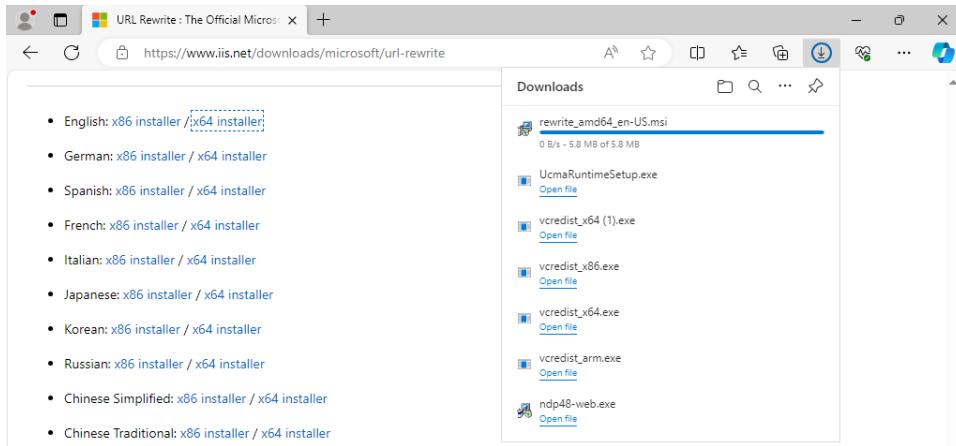
The extensibility samples provide .NET assemblies and the source code with full implementation of rewrite providers for the three most common use cases: storing of the rewrite or redirect mappings in a SQL database; storing of the rewrite or redirect mappings in a text file; storing of the lookup substrings in a text file.

Download Samples

Thursday, November 2, 2023

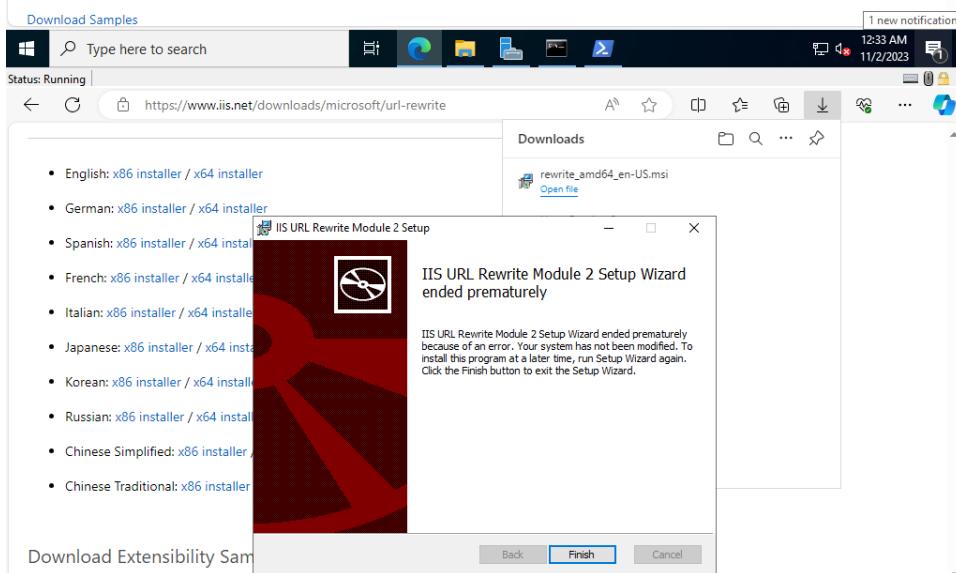
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## Download Extensibility Samples

The extensibility samples provide .NET assemblies and the source code with full implementation of rewrite providers for the three most common use cases: storing of the rewrite or redirect mappings in a SQL database; storing of the rewrite or redirect mappings in a text file; storing of the lookup substrings in a text file.



The extensibility samples provide .NET assemblies and the source code with full implementation of rewrite providers for the three most common use cases: storing of the rewrite or redirect mappings in a SQL database; storing of the rewrite or redirect mappings in a text file; storing of the lookup substrings in a text file.



Google search results for "download visual c++ redistributable packages for windows 10". The results page shows various links, including the Microsoft Visual C++ Redistributable for Visual Studio 2012 Update 4 and Microsoft Community threads about Visual C++ 2012 Redistributable download.

About 834,000 results (0.31 seconds)

**Visual C++ Redistributable for Visual Studio 2012 Update 4**  
Nov 20, 2013 — These packages install runtime components of the C Runtime (CRT), Standard C++, ATL, MFC, C++ AMP, and OpenMP libraries. System Requirements.

**Download Visual C++ Redistributable for Visual Studio ...**  
The Visual C++ Redistributable Packages install runtime components that are required to run C++ applications built with Visual Studio 2012.

**Visual C++ 2012 Redistributable download (x86 & X64)**  
Jun 7, 2017 — It should have a list of all the download links for the latest versions of Microsoft Visual C++. See also: ... Let us know if you need further ...

Google search results for "download visual c++ redistributable packages for windows 10". The results page shows various links, including the Microsoft Visual C++ Redistributable Packages for Visual Studio 2013 and Microsoft Support threads about Visual C++ 2013.

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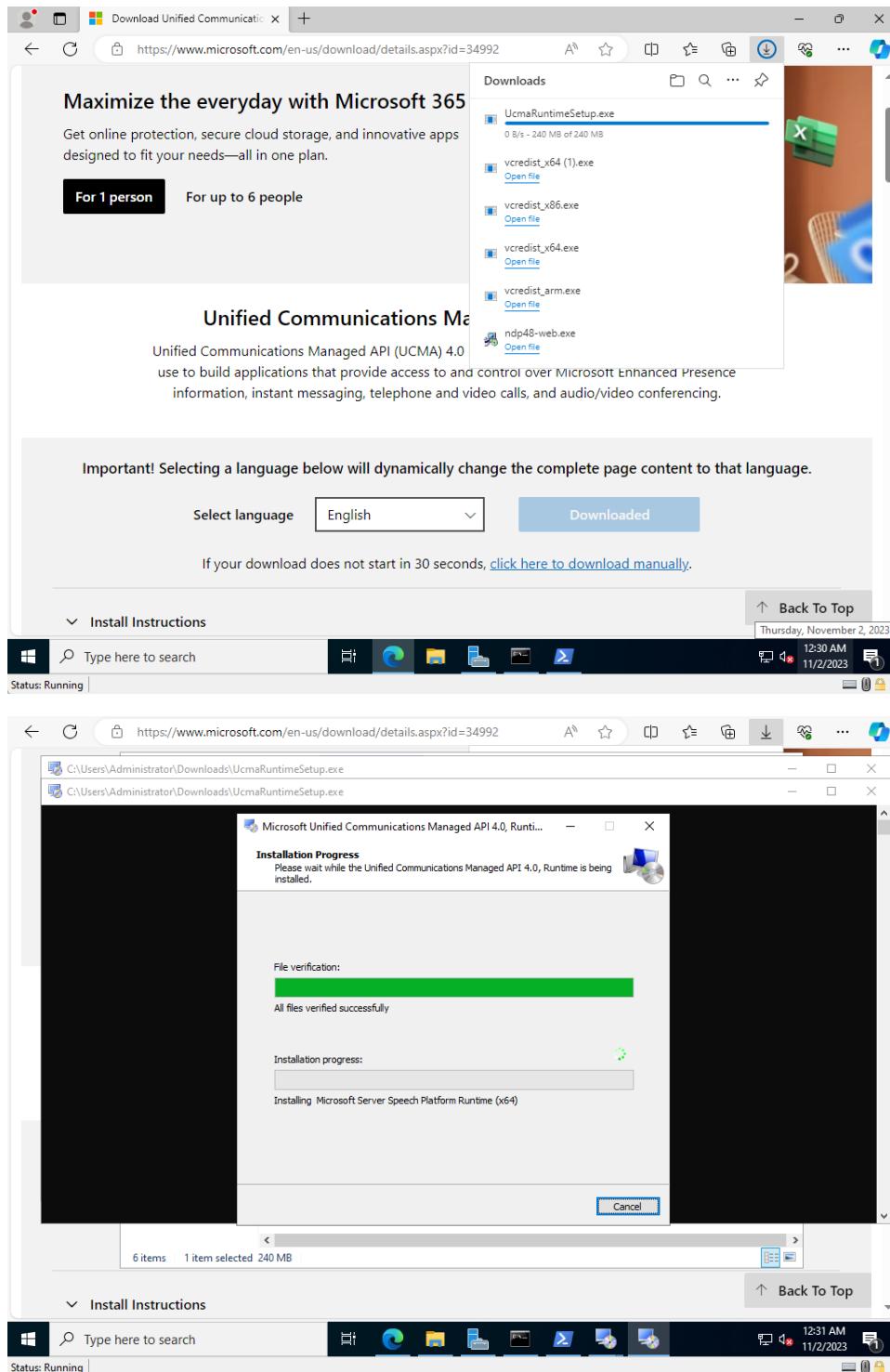
**Visual C++ Redistributable Packages for Visual Studio 2013**  
Dec 30, 2014 — The Visual C++ Redistributable Packages install run-time components that are required to run applications that are developed by using Visual ...

**Download Visual C++ Redistributable Packages for ...**  
The Visual C++ Redistributable Packages install run-time components that are required to run C++ applications that are built by using Visual Studio 2013.

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Unified Communications Managed API (UCMA) 4.0  
use to build applications that provide access to and control over Microsoft Enhanced Presence information, instant messaging, telephone and video calls, and audio/video conferencing.

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Install Instructions

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File verification:  
All files verified successfully

Installation progress:  
Installing Microsoft Server Speech Platform Runtime (x64)

Cancel

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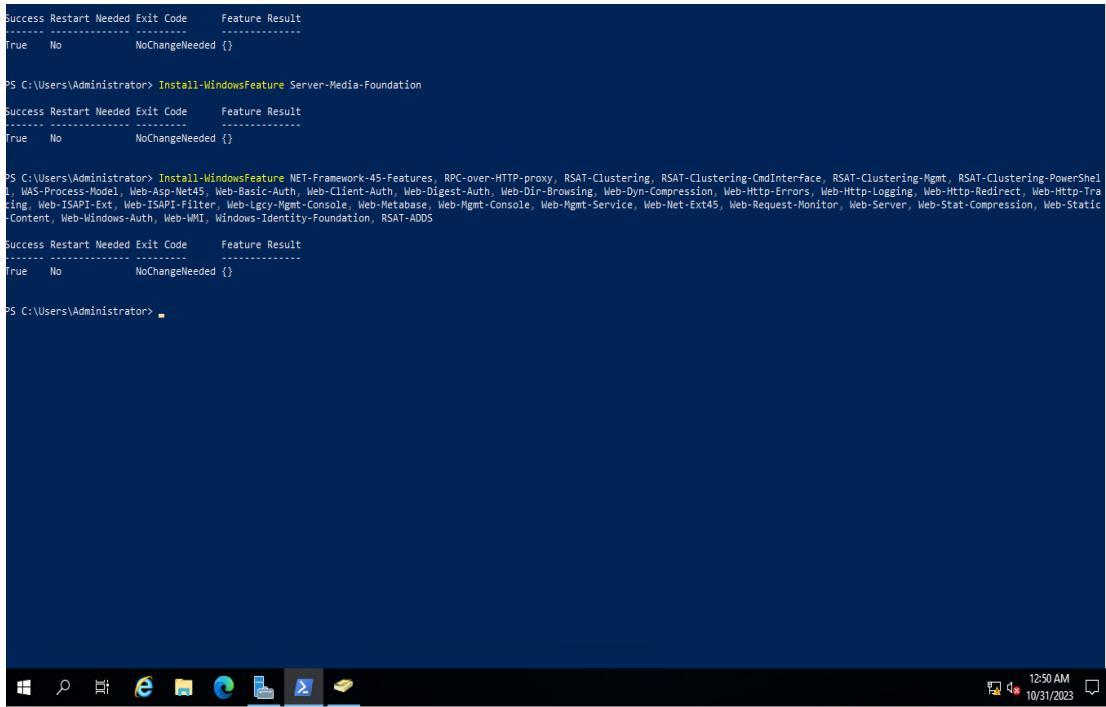
12:31 AM 11/2/2023

Status: Running

Step .7. Use CLI by going to PowerShell in administrator mode and perform these command lines to install command-based prerequisites.

For ex: The first command here would look like this which is illustrated below for example.

PS C:\Users\Administrator>Install-WindowsFeature RSAT-ADDS and press enter following by second command line for Server-Media-Foundation as below. The last command is long and can be found on this second link below and restart the computer after it.



The screenshot shows a Windows PowerShell window with a dark blue background. The command PS C:\Users\Administrator> Install-WindowsFeature RSAT-ADDS is entered, followed by a press of the Enter key. The output shows the feature was successfully installed with a restart needed and a code of 0. The next command PS C:\Users\Administrator> Install-WindowsFeature Server-Media-Foundation is entered, followed by another press of the Enter key. The output shows the feature was successfully installed with a restart needed and a code of 0. The final command PS C:\Users\Administrator> Install-WindowsFeature .NET-Framework-45-Features, RPC-over-HTTP-proxy, RSAT-Clustering, RSAT-Clustering-CmdInterface, RSAT-Clustering-Mgmt, RSAT-Clustering-PowerShell, WAS-Process-Model, Web-Asp-Net45, Web-Basic-Auth, Web-Client-Auth, Web-Digest-Auth, Web-Dir-Browsing, Web-Dyn-Compression, Web-Http-Errors, Web-Http-Logging, Web-Http-Redirect, Web-Http-Tracing, Web-ISAPI-Ext, Web-ISAPI-Filter, Web-Lgcy-Mgmt-Console, Web-Metabase, Web-Mgmt-Console, Web-Mgmt-Service, Web-Net-Ext45, Web-Request-Monitor, Web-Server, Web-Stat-Compression, Web-Static-Content, Web-Windows-Auth, Web-WMI, Windows-Identity-Foundation, RSAT-ADDS is entered, followed by a press of the Enter key. The output shows the feature was successfully installed with a restart needed and a code of 0. The PowerShell window is titled 'Windows PowerShell' and has a status bar at the bottom showing the date and time.

```
Success Restart Needed Exit Code      Feature Result
----- ----- ----- -----
True  No      NoChangeNeeded {}

PS C:\Users\Administrator> Install-WindowsFeature Server-Media-Foundation

Success Restart Needed Exit Code      Feature Result
----- ----- ----- -----
True  No      NoChangeNeeded {}

PS C:\Users\Administrator> Install-WindowsFeature .NET-Framework-45-Features, RPC-over-HTTP-proxy, RSAT-Clustering, RSAT-Clustering-CmdInterface, RSAT-Clustering-Mgmt, RSAT-Clustering-PowerShell, WAS-Process-Model, Web-Asp-Net45, Web-Basic-Auth, Web-Client-Auth, Web-Digest-Auth, Web-Dir-Browsing, Web-Dyn-Compression, Web-Http-Errors, Web-Http-Logging, Web-Http-Redirect, Web-Http-Tracing, Web-ISAPI-Ext, Web-ISAPI-Filter, Web-Lgcy-Mgmt-Console, Web-Metabase, Web-Mgmt-Console, Web-Mgmt-Service, Web-Net-Ext45, Web-Request-Monitor, Web-Server, Web-Stat-Compression, Web-Static-Content, Web-Windows-Auth, Web-WMI, Windows-Identity-Foundation, RSAT-ADDS

Success Restart Needed Exit Code      Feature Result
----- ----- ----- -----
True  No      NoChangeNeeded {}

PS C:\Users\Administrator>
```

```

Administrator Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Start Installation...
20%
[oooooooooooooooooooo]

Success Restart Needed Exit Code      Feature Result
-----      -----      -----
True      No      NoChangeNeeded {}

PS C:\Users\Administrator> Install-windowsfeature Server-Media-Foundation

```

Install and Configure Open SSH Service on Windows Server 2019

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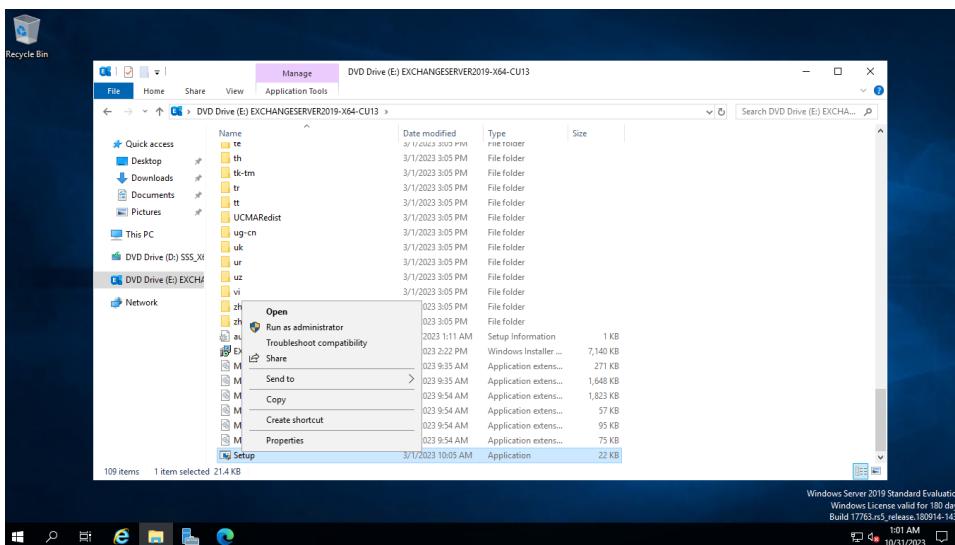
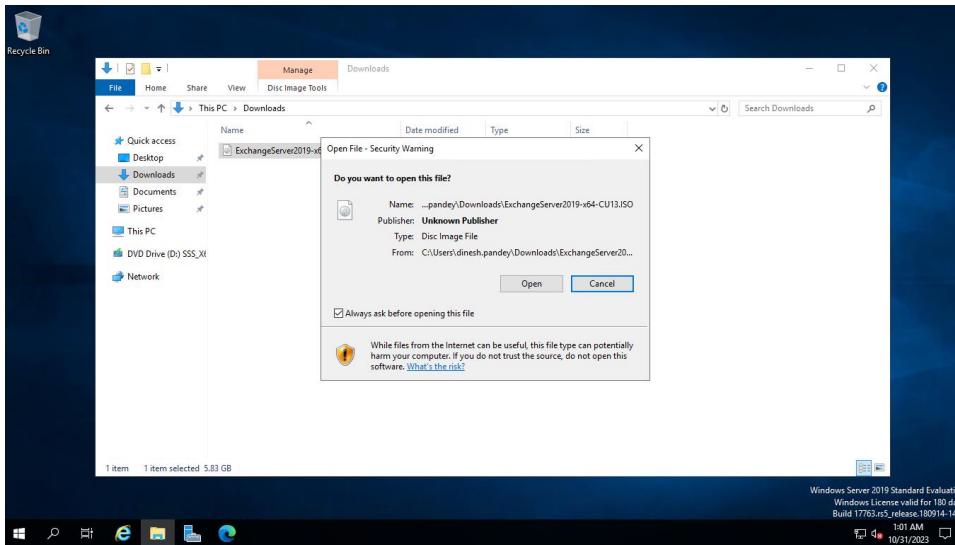
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Step.8. Go to the drive of the downloaded exchange server 2019 iso file in download section and you can double click it or right click and select mount, a new E: or F: similar sort of drive will open automatically as below:



**Step.9.** Now go to administrator mode in PowerShell and enter the following commands by going to E: or F drive. The command would be cd :\ or cd F:\**\**.

The first command would look like this:

```
PS C:\Windows\System32>cd F:\\
```

```
PS C:\F:\\>.\Setup.exe /PrepareSchema /IAcceptExchangeServerLicenseTerms_DiagnosticDataON and press enter.
```

```
PS C:\Users\Administrator> e:  
PS E:\> .\Setup.exe /PrepareSchema /IAcceptExchangeServerLicenseTerms_DiagnosticDataON  
Microsoft Exchange Server 2019 Cumulative Update 13 Unattended Setup  
Copying Files...  
File copy complete. Setup will now collect additional information needed for installation.  
  
Performing Microsoft Exchange Server Prerequisite Check  
Prerequisite Analysis  
Configuring Microsoft Exchange Server  
Extending Active Directory schema  
The Exchange Server setup operation completed successfully.  
PS E:\> .\Setup.exe /PrepareSchema /IAcceptExchangeServerLicenseTerms
```

Setup is starting

```
PS E:\> .\Setup.exe /IAcceptExchangeServerLicenseTerms_DiagnosticDataON /PrepareAD /OrganizationName:"Avancaglobal0"  
Microsoft Exchange Server 2019 Cumulative Update 13 Unattended Setup  
Copying Files...
```

```

Microsoft Exchange Server 2019 Cumulative Update 13 Unattended Setup
Copying Files...
File copy complete. Setup will now collect additional information needed for installation.

Performing Microsoft Exchange Server Prerequisite Check
Prerequisite Analysis 100%
Setup will prepare the organization for Exchange Server 2019 by using 'Setup /PrepareAD'. No Exchange Server 2016 roles have been detected in this topology. After this operation, you will not be able to install any Exchange Server 2016 roles.
For more information, visit: https://learn.microsoft.com/Exchange/plan-and-deploy/deployment-ref/ms-exch-setupreadiness-NoE16ServerWarning?view=exchserver-2019

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://learn.microsoft.com/Exchange/plan-and-deploy/deployment-ref/ms-exch-setupreadiness-NoE15ServerWarning?view=exchserver-2019

Configuring Microsoft Exchange Server
Organization Preparation COMPLETED
The Exchange Server setup operation completed successfully.

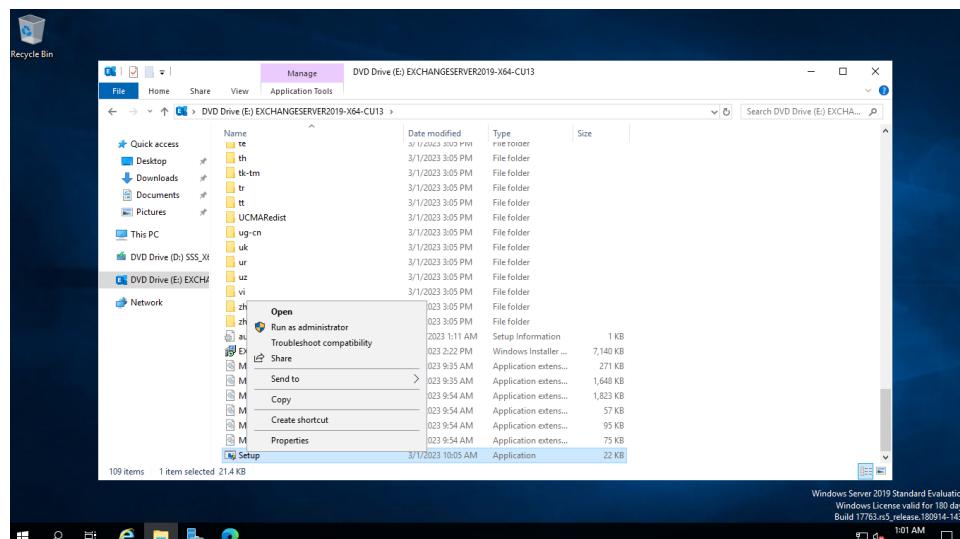
The Exchange Server setup operation completed successfully.

PS E:\> .\Setup.exe /IAcceptExchangeServerLicenseTerms_DiagnosticDataON /PrepareDomain:avancaglobal.com
Microsoft Exchange Server 2019 Cumulative Update 13 Unattended Setup

```

If you have error with command above, usually red lines of error, replace ON with OFF.

Step.10. Open the mounted disk containing exchange server 2019 and run/open setup.exe and open with administrator mode. Please be advised that the whole download process will take up to 2 to 3 hours or even longer depending upon your ISP.



## Check for Updates?

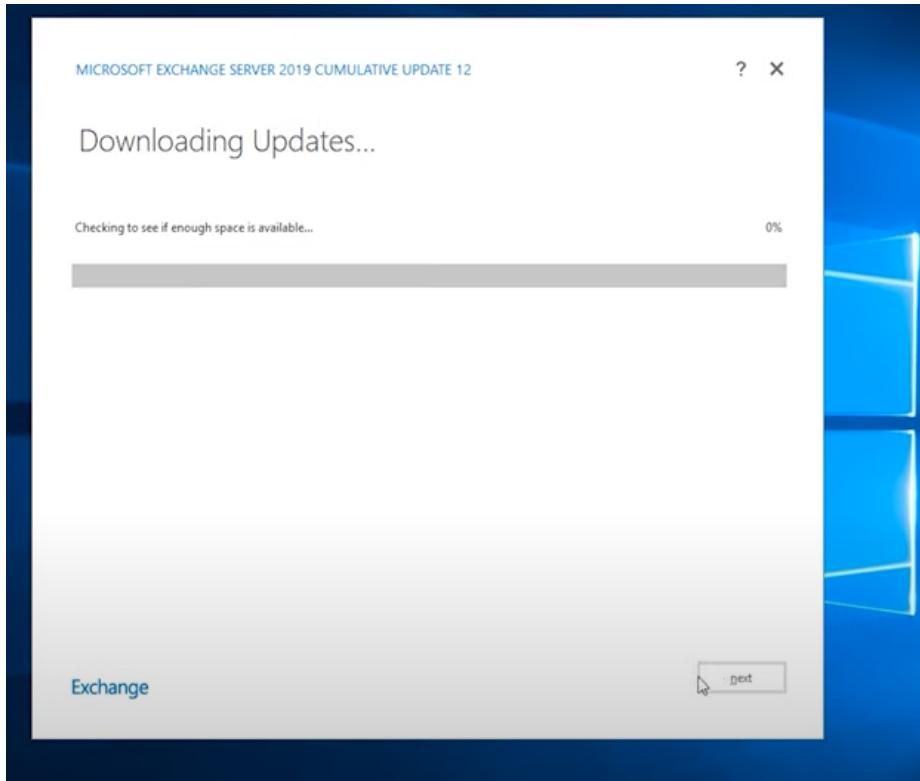
You can have Setup download Exchange Server updates from the Internet before you install Exchange. If updates are available, they'll be downloaded and used by Setup. By downloading updates now, you'll have the latest security and product updates. If you don't want to check for updates right now, or if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



## Introduction

Welcome to Microsoft Exchange Server!

Exchange Server is designed to help you increase user productivity, keep your data safe, and provide you with the control you need. You can tailor your solution to your unique needs with flexible deployment options, including hybrid deployments that enable you to take advantage of both on-premises and online solutions. You can use compliance management features to protect against the loss of sensitive information and help with internal and regulatory compliance efforts. And, of course, your users will be able to access their email, calendar, and voice mail on virtually any device and from any location. This wizard will guide you through the installation of Exchange Server.

Plan your Exchange Server deployment:

[Read about Exchange Server](#)

[Read about supported languages](#)

[Use the Exchange Server Deployment Assistant](#)

next

Exchange

## License Agreement

Please read and accept the Exchange Server license agreement.

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- 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.

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## Recommended Settings

Use recommended settings

Exchange server will automatically check online for solutions when encountering errors and provide usage feedback to Microsoft to help improve future Exchange features.

Don't use recommended settings

Manually configure these settings after installation is complete (see help for more information).

[Read more about providing usage feedback to Microsoft](#)

[Read more about checking for error solutions online](#)

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## Server Role Selection

Select the Exchange server roles you want to install on this computer:

- Mailbox role
- Management tools
- Edge Transport role

Automatically install [Windows Server roles and features that are required to install Exchange Server](#)

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## Server Role Selection

Select the Exchange server roles you want to install on this computer:

- Mailbox role
  - Management tools
  - Edge Transport role
- Automatically install [Windows Server roles and features that are required to install Exchange Server](#)

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## Server Role Selection

Select the Exchange server roles you want to install on this computer:

- Mailbox role
  - Management tools
  - Edge Transport role
- Automatically install [Windows Server roles and features that are required to install Exchange Server](#)

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## Installation Space and Location

Disk space required: 5709.6 MB

Disk space available: 107065.5 MB

Specify the path for the Exchange Server installation:

Exchange

## Exchange Organization

Specify the name for this Exchange organization:

Apply Active Directory split permissions security model to the Exchange organization

The Active Directory split permissions security model is typically used by large organizations that completely separate the responsibility for the management of Exchange and Active Directory among different groups of people. Applying this security model removes the ability for Exchange servers and administrators to create Active Directory objects such as users, groups, and contacts. The ability to manage non-Exchange attributes on those objects is also removed.

You shouldn't apply this security model if the same person or group manages both Exchange and Active Directory. Click "?" for more information.

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## Readiness Checks

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

Prerequisite Analysis

85%

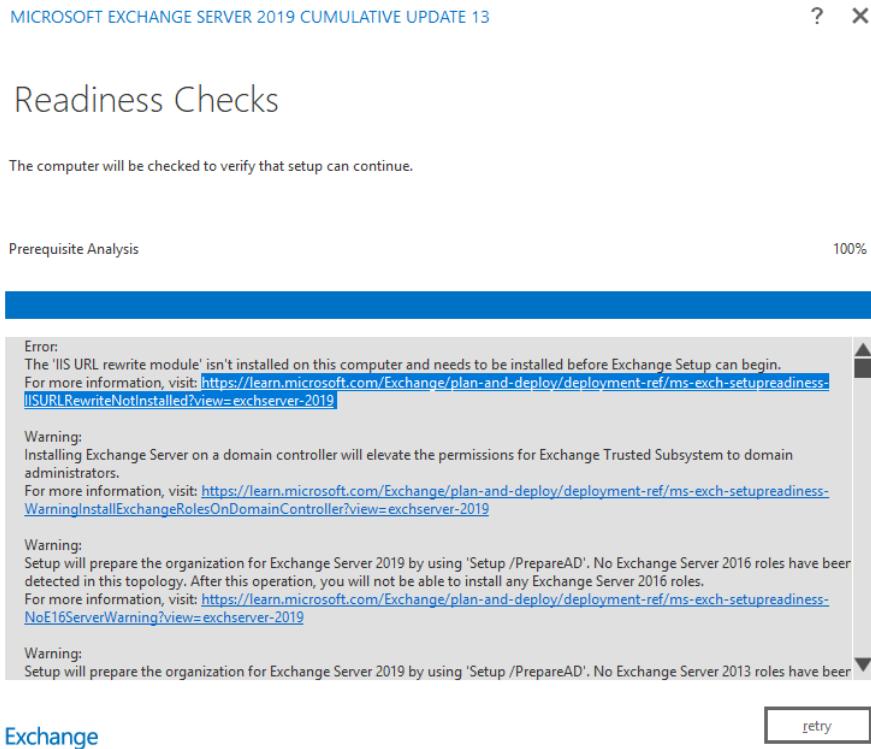


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install

Step .11. You might get a bunch of errors while completing the download. The reasons would be because of not current version of the prerequisite software such as IIS, Microsoft Exchange Server 2019, Microsoft Visual Basic, not having the port open for exchange server mail or not having the DNS Forward zone for your exchange server. You need to search for it online or on the Microsoft link below and upgrade the required version of the upgrade for a particular software or go to your domain controller and open a port by creating an inbound rule or creating a new DNS zone for your Exchange Server to solve this error. The search result will look like this on the second pic below:



# No Exchange 2013 servers detected [NoE15ServerWarning]

Article • 02/21/2023 • 7 contributors

 Feedback

Microsoft Exchange Server 2016 Setup displayed this warning because no Exchange Server 2013 server roles exist in the organization.

## Caution

If you continue with Exchange Server 2016 installation, you won't be able to add Exchange 2013 servers to the organization at a future date.

Before deploying Exchange 2016, consider the following factors that may require you to deploy Exchange 2013 servers prior to deploying Exchange 2016:

- **Third-party or in-house developed applications:** Applications developed for earlier versions of Exchange may not be compatible with Exchange 2016. You may need to maintain Exchange 2013 servers to support these applications.

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Windows 11 system requirements  
Windows 8.1 end of support  
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Activate Windows  
Go to Settings to activate Windows

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## Exchange 2019 Setup Prerequisite Check fails for .NET 4.8 Framework in CU4 on Windows builds 1909 and 1903

Exchange Server 2019

### Symptoms

When you deploy or upgrade to Microsoft Exchange 2019 Cumulative Update 4 (CU4) on Microsoft Windows Server 2019 or Windows 10 (Management Tools only) builds 1909 or 1903, the system prerequisites check fails, and you receive the following error message:

"This computer requires .NET Framework 4.8 (<https://support.microsoft.com/kb/4503548>)."

By default, Windows builds 1909 and 1903 already have .NET Framework 4.8 installed. When you try to reinstall the software, the installation fails.

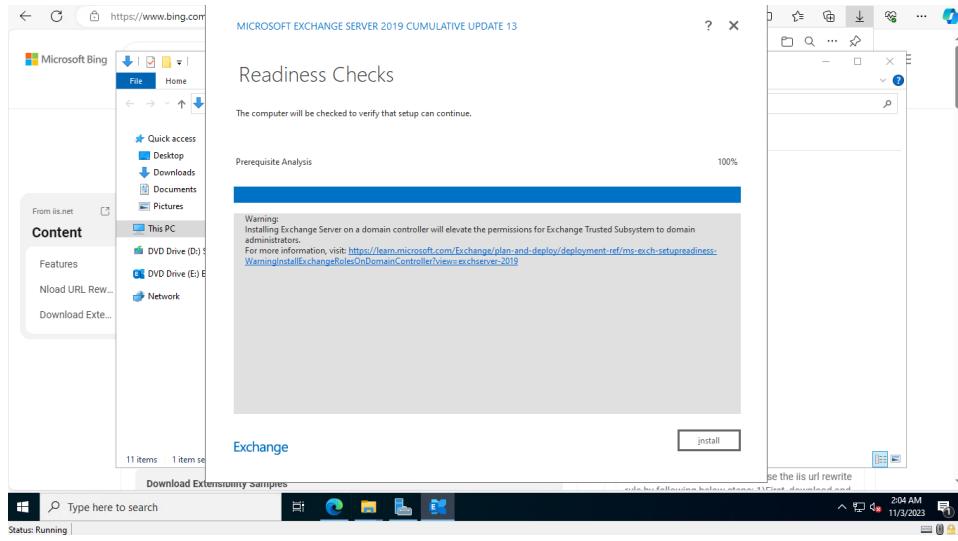
### Cause

This problem is caused by a prerequisite check that was introduced in Cumulative Update 4. This process checks incorrectly for .NET Framework 4.8. Because the prerequisite check doesn't recognize that .NET Framework 4.8 is already installed.

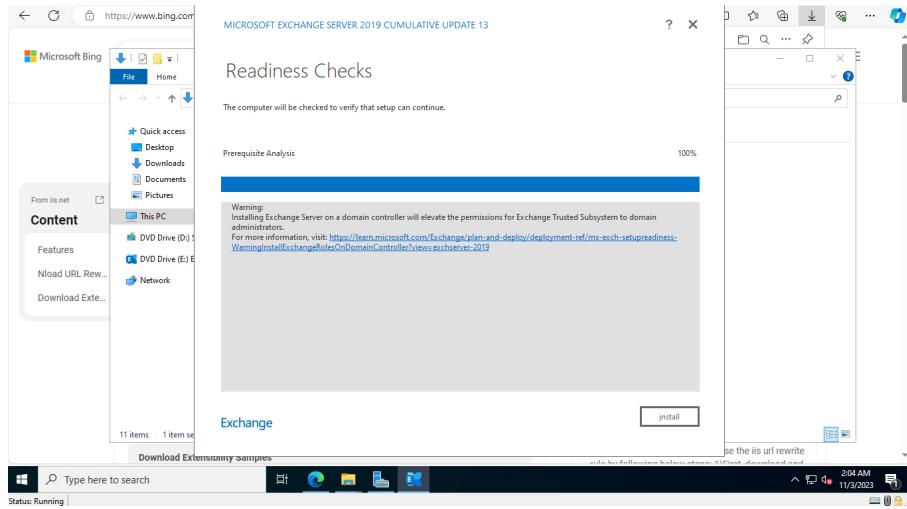
Activate Windows  
Go to Settings to activate Windows

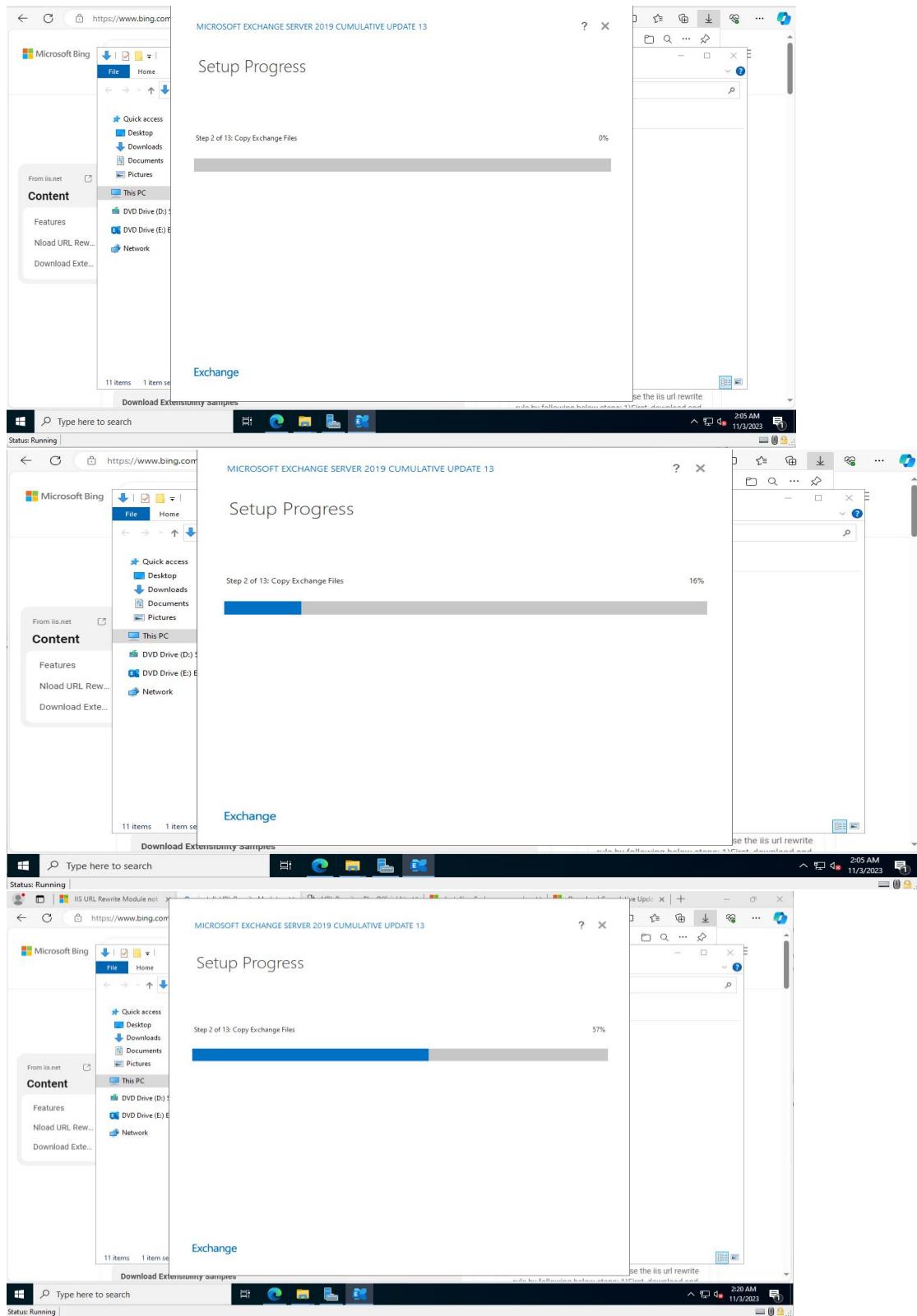
### Resolution

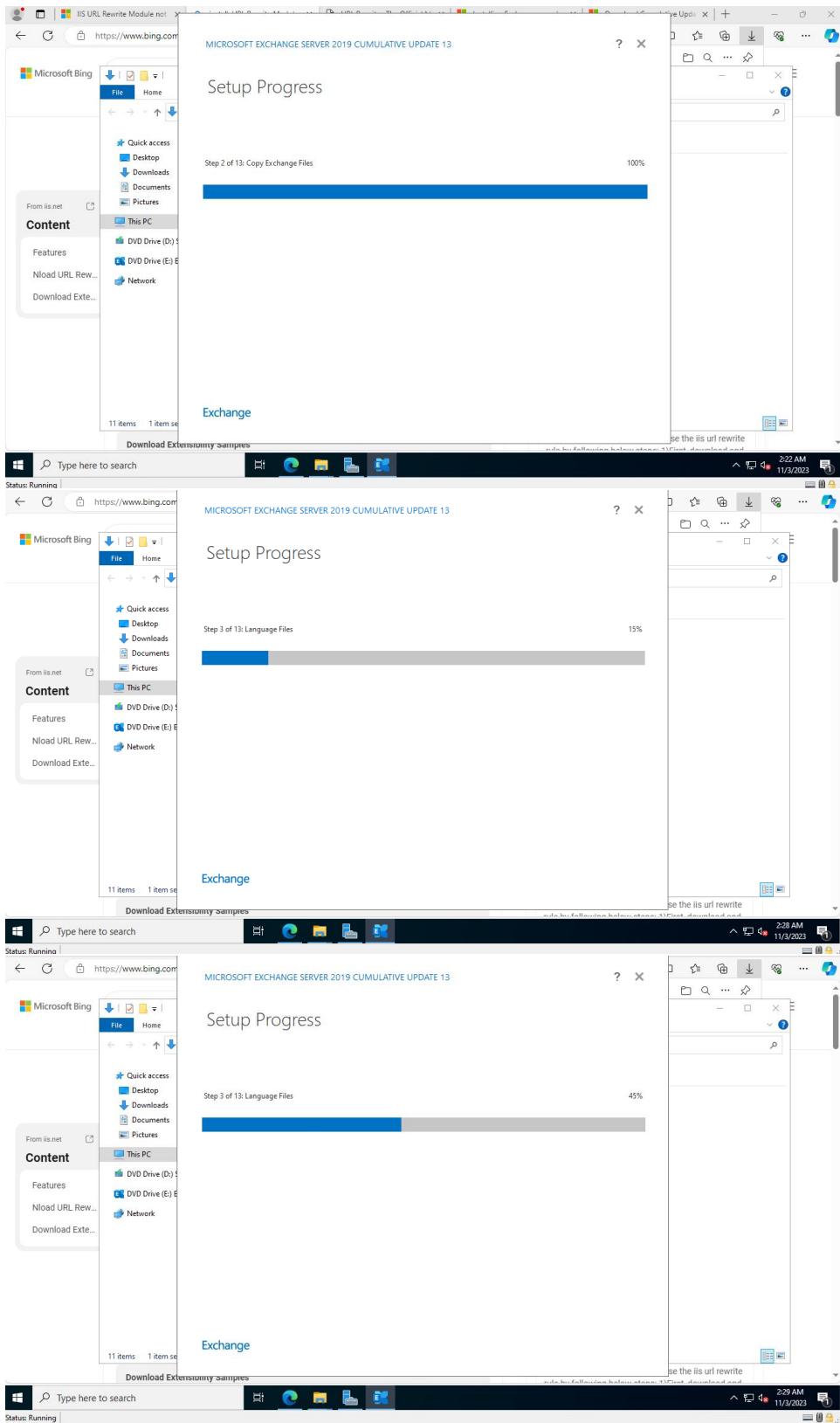
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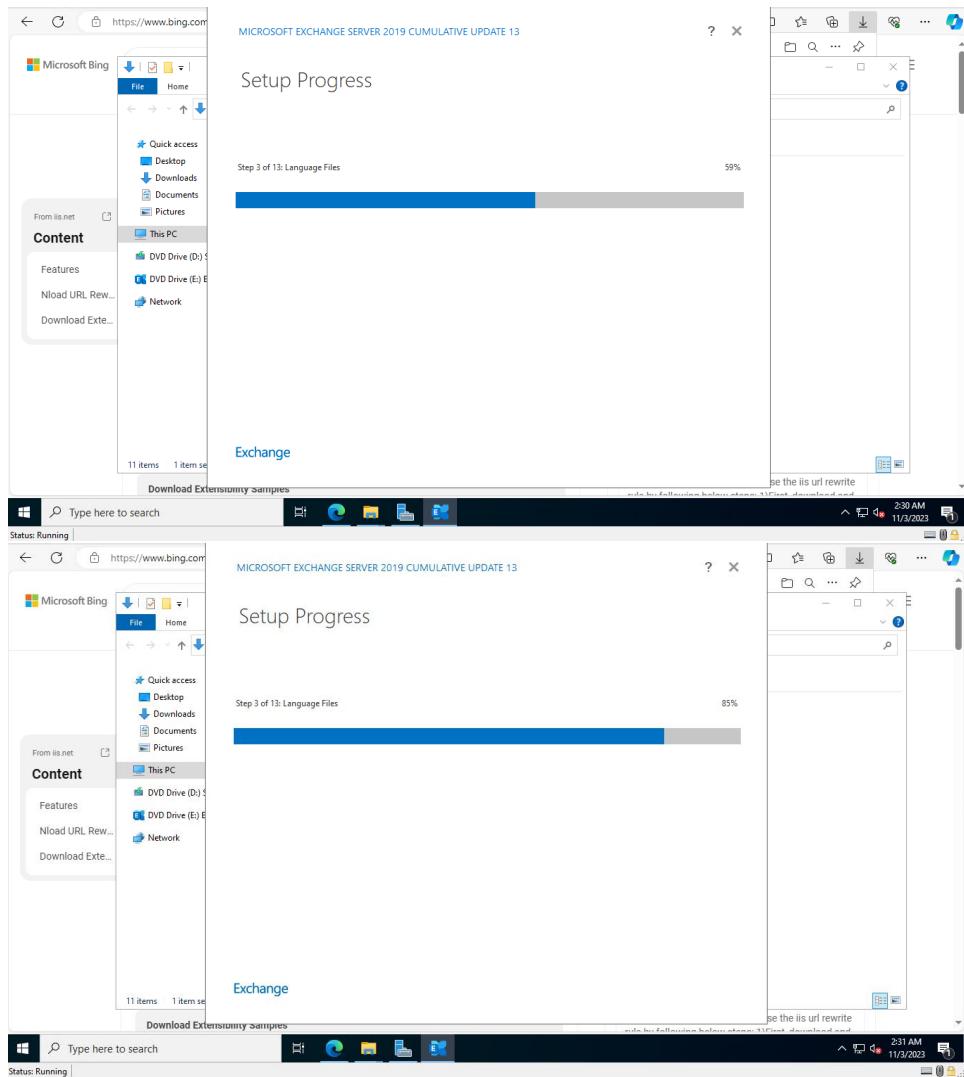


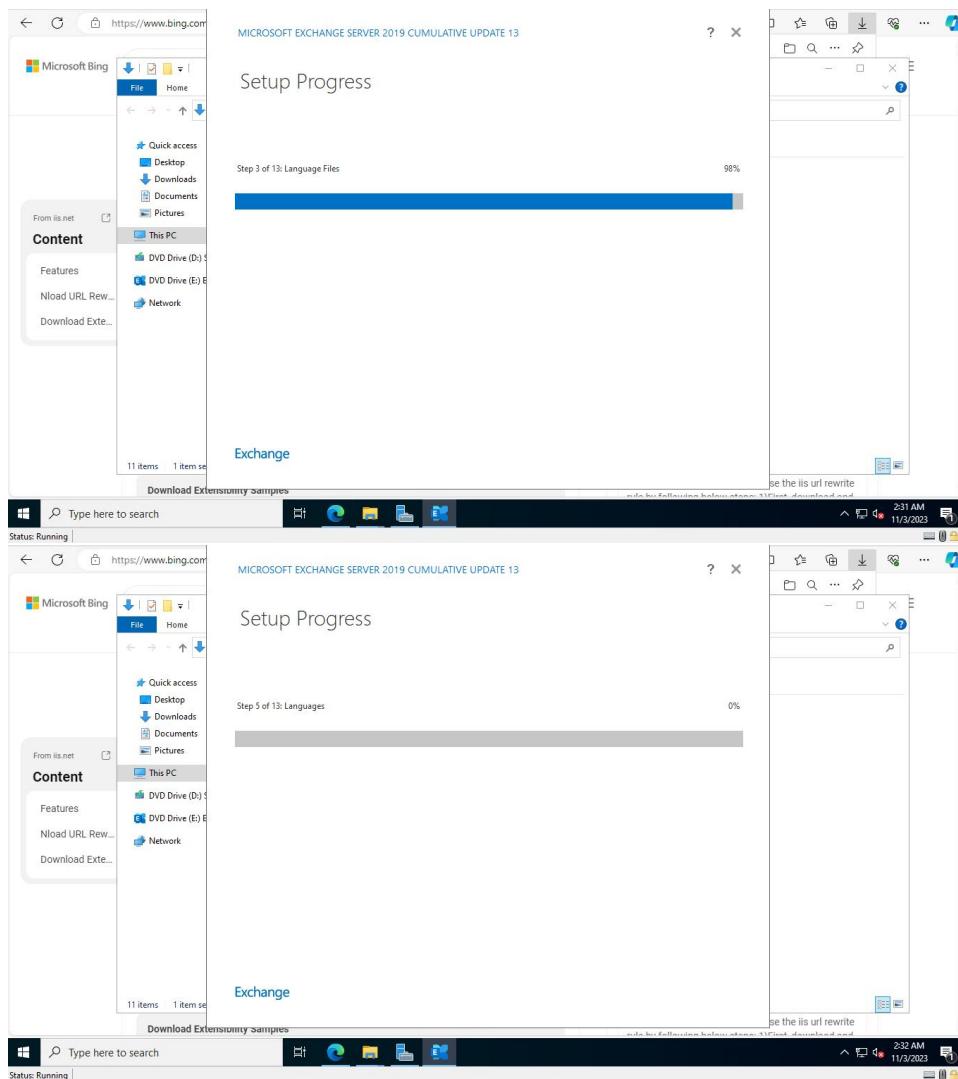
**Step.11.** The installation will only be completed after you see the retry button change from Retry to Install after fixing all the errors. If you don't fix or leave a single error, and exit the installation, you will need to start the installation from scratch and those errors will exist on your next installation.

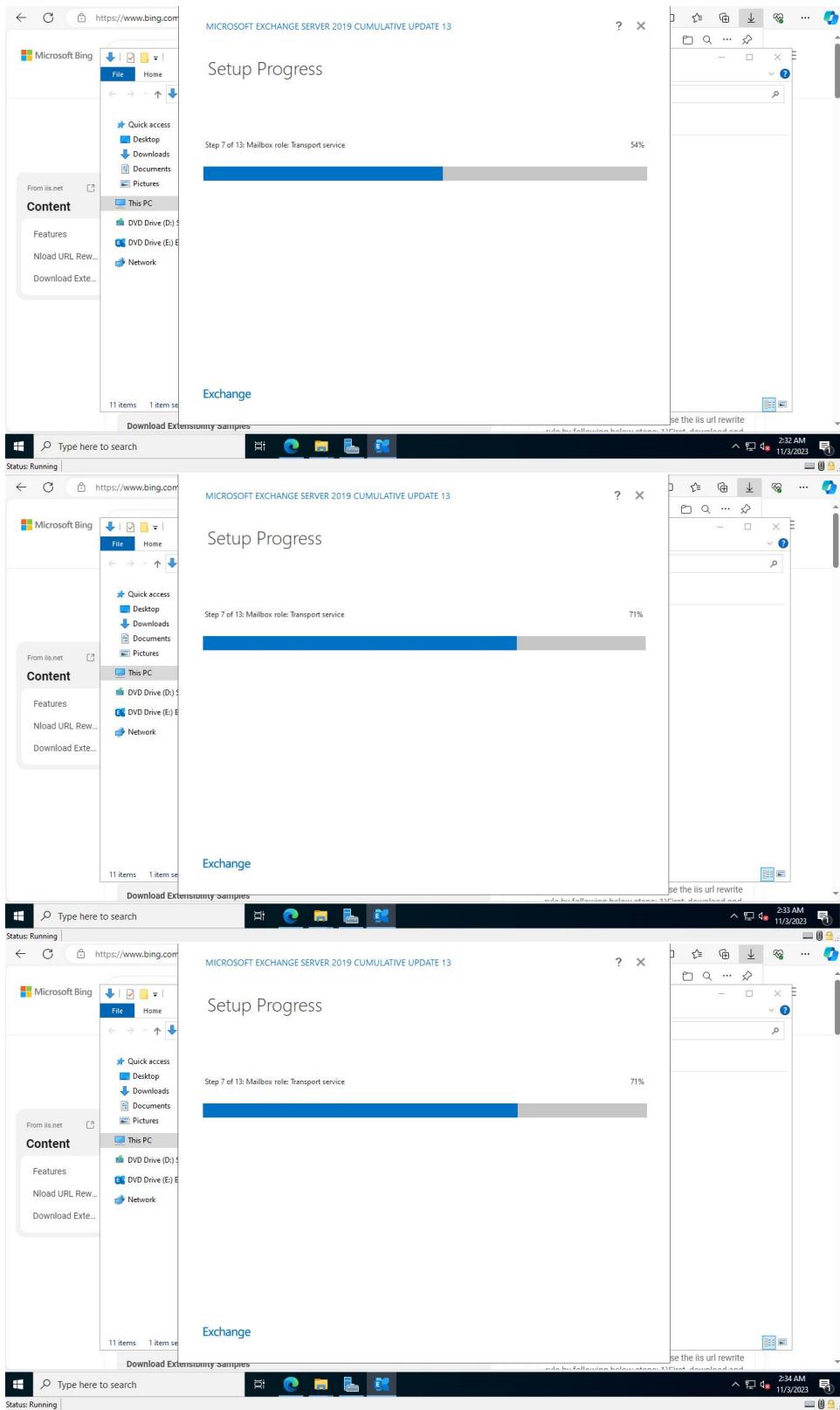


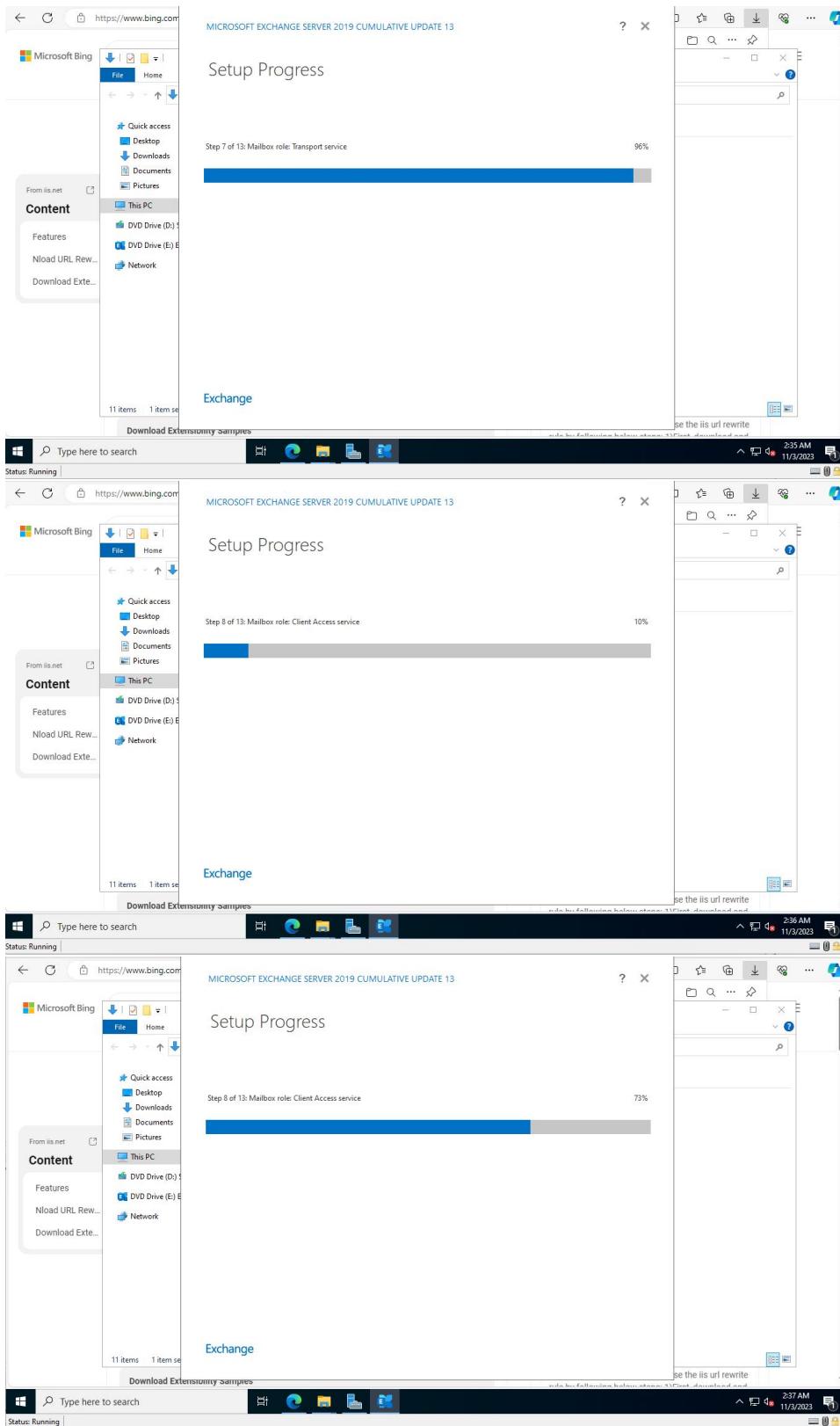


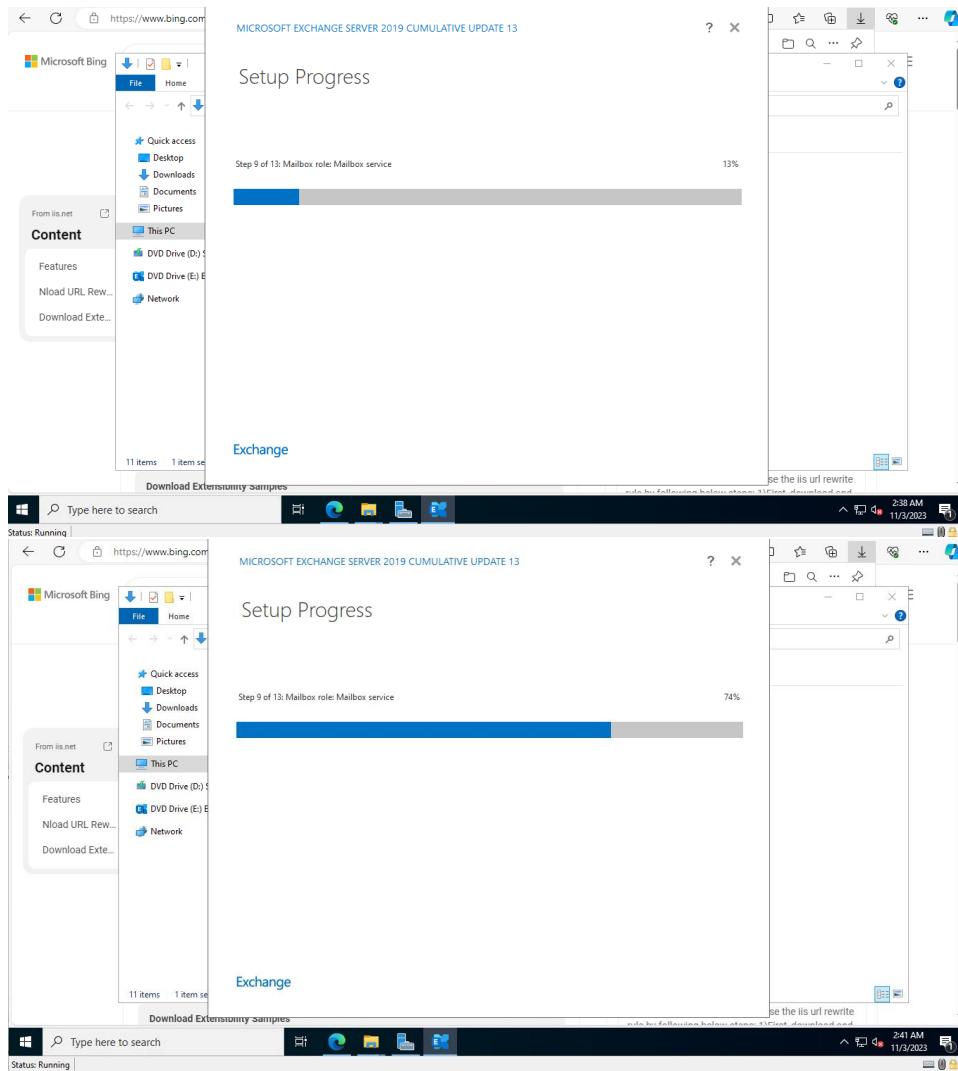


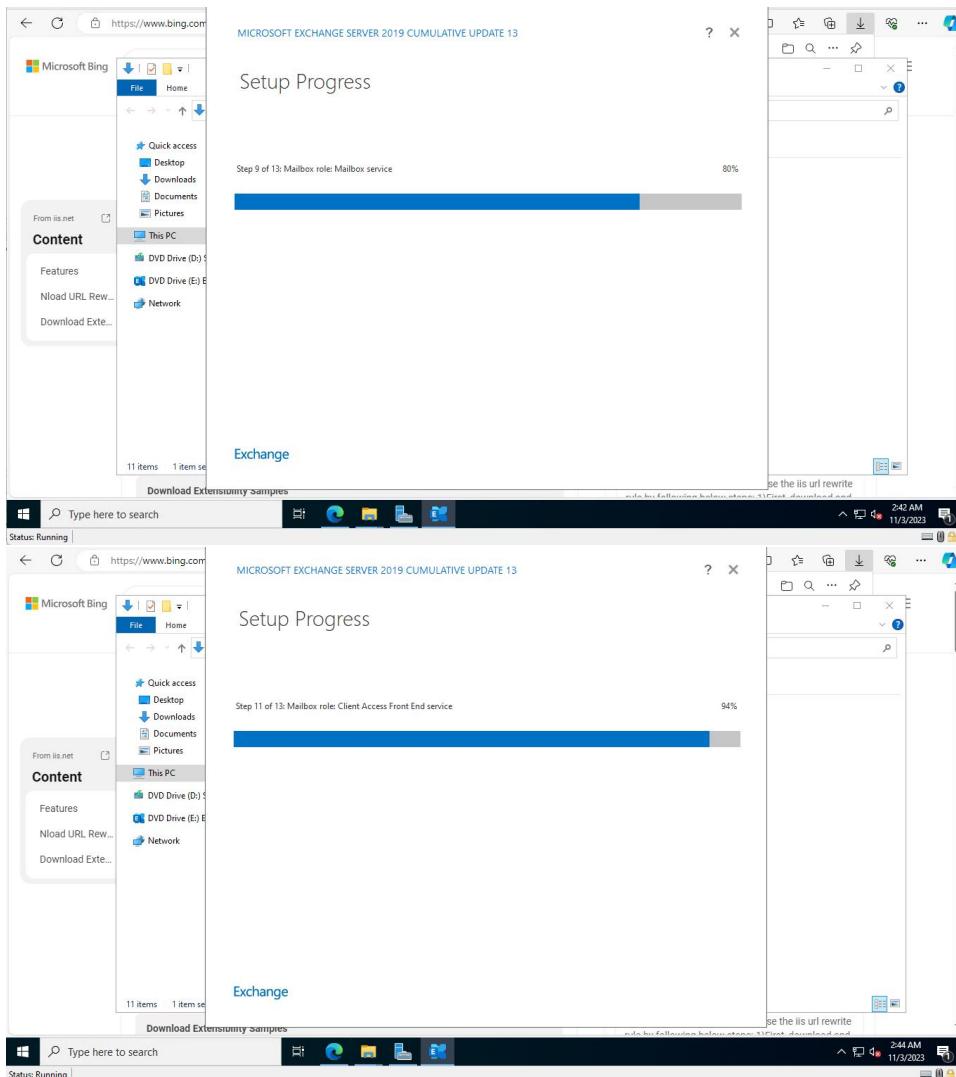


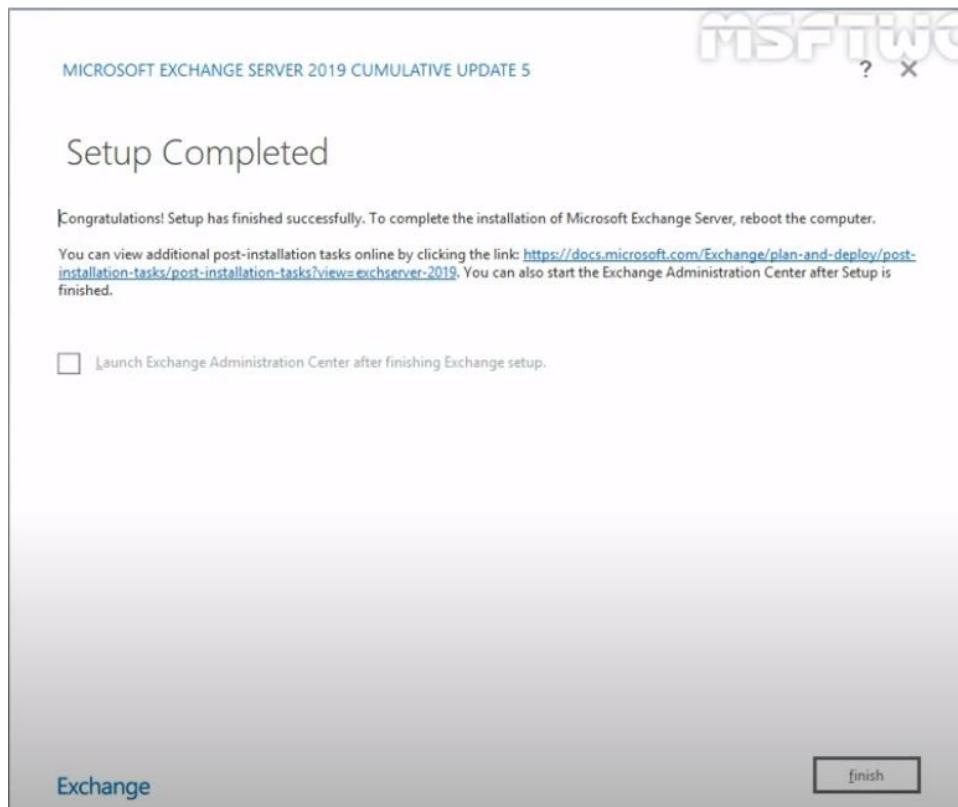




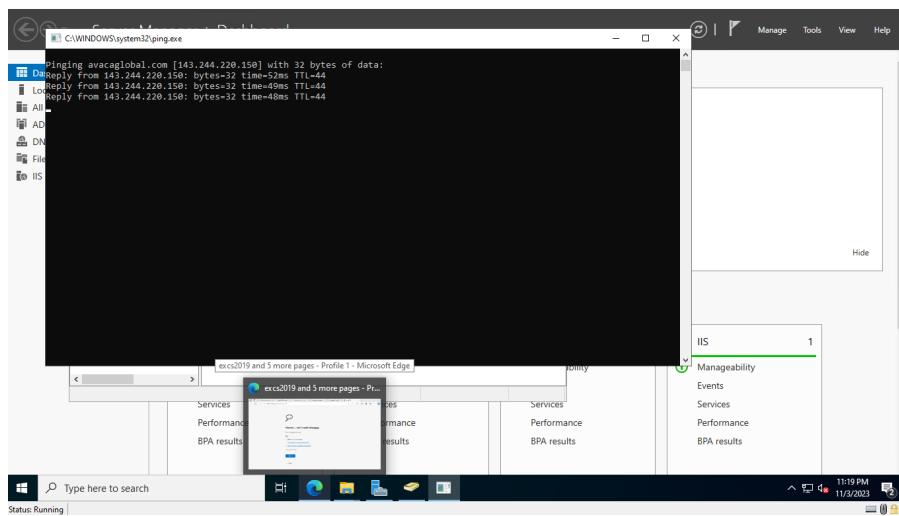








Step.12. Please make sure that the newly installed exchange server 2019 will ping the connected domain controller as below:



Step.13. After the installation is complete, please restart the computer and open the Exchange Administration Center by going to the Microsoft Exchange Server 2019 as below:

