

# AIO-13 LAB SETUP

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### Overview

#### References:

- [Exchange 2013 prerequisites: Exchange 2013 Help | Microsoft Docs](#)
- [Prepare Active Directory and domains](#)

EX13_AIO		
Host	shgbvmas	<a href="#">VMAS - Workspaces</a>
Host Name	AIO-13	
Role	DC & CAS & MBX & Outlook	
OS Version	Windows Server 2012 R2 Datacenter	
Original OS Language	English (en- us)	
Additional Language Packs	Simplified Chinese (zh-cn) Traditional Chinese (zh-tw)	
Exchange Build Number	CU23	Exchange Server build numbers and release dates <a href="https://docs.microsoft.com/en-us/exchange/new-features/build-numbers-and-release-dates?view=exchserver-2019">https://docs.microsoft.com/en-us/exchange/new-features/build-numbers-and-release-dates?view=exchserver-2019</a>
Password Complexity	1	
Certificate created and configured	Exchange self- generated	
Outlook Version	Microsoft 365 2019	

<b>EX13_AIO</b>		
Outlook Language Packs	Simplified Chinese (zh-cn) English (en-us) Traditional Chinese (zh-tw)	
Outlook Anywhere enabled	Y	
OAB and EWS enabled	Y	
Network Monitor installed	Y	<a href="https://aka.ms/wxex">https://aka.ms/wxex</a>
Fiddler installed	Y	<a href="https://aka.ms/wxex">https://aka.ms/wxex</a>
Telnet25	Y	<a href="https://aka.ms/wxex">https://aka.ms/wxex</a>
ExTRA	Y	<a href="https://aka.ms/wxex">https://aka.ms/wxex</a>
Disable CRL check		Exchange 2010 Management Console (EMC) is very slow <a href="https://blogs.technet.microsoft.com/nawar/2011/06/03/exchange-2010-management-console-emc-is-very-slow/">https://blogs.technet.microsoft.com/nawar/2011/06/03/exchange-2010-management-console-emc-is-very-slow/</a> Configuring Exchange Servers Without Internet Access <a href="https://techcommunity.microsoft.com/t5/exchange-team-blog/configuring-exchange-servers-without-internet-access/ba-p/593692">https://techcommunity.microsoft.com/t5/exchange-team-blog/configuring-exchange-servers-without-internet-access/ba-p/593692</a>
NIC	Private IP	
ActiveSync device connectivity	Y	
Additional disk for Backup issue	Y	
Enable Windows Server Backup	Y	
Backup	Y	
Snap Shot	Y	
Lab known issue		If EMC and EMS does not work properly, please clean the credential manager in the Control Panel. It is because Outlook user credential cache.

<b>EX13_AIO</b>		
FAQ		

## Deployment Step by step

The following steps are required in the deployment of AIO-13. The same steps on AIOS are not mentioned here, for more information about parent documentation, see [General Deployment of AIO Step by step](#).

### Step 1: configure the all-in-one virtual machine on VMAs.

**Attention:** the OS version is Windows Server 2012 R2 Datacenter.

New Workspace

Step 1 Step 2 Step 3 Done!

You may either create a workspace from a template or you may build a custom workspace. Choose one.

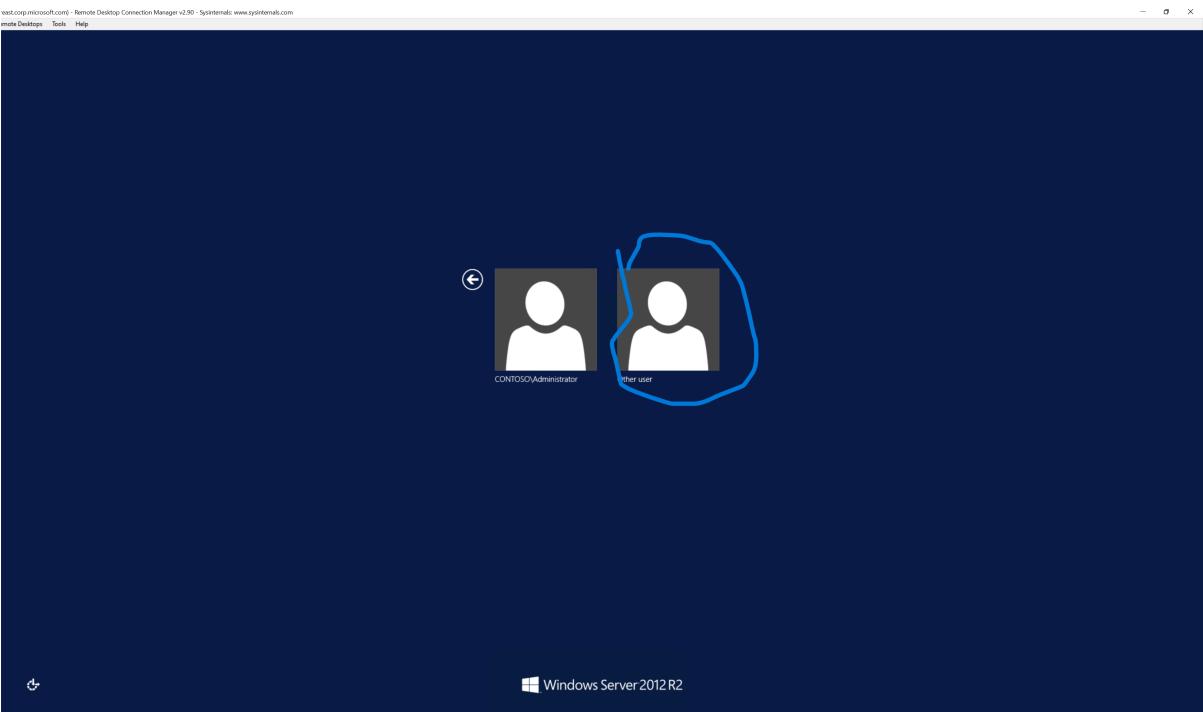
Template  Custom  2 results

Windows 2012 R2 Standard	<input type="button" value="+"/>	<input type="button" value="-"/>	<input type="button" value="Heart"/>	
Windows 2012 R2 Datacenter	<input checked="" type="button" value="1"/>	<input type="button" value="+"/>	<input type="button" value="-"/>	<input type="button" value="Heart"/>

Back Next Cancel

### Step 2: log on to the AIO with RDCMan.exe.

**Attention:** login "other user". Username: contoso\administrator; Password: 1.



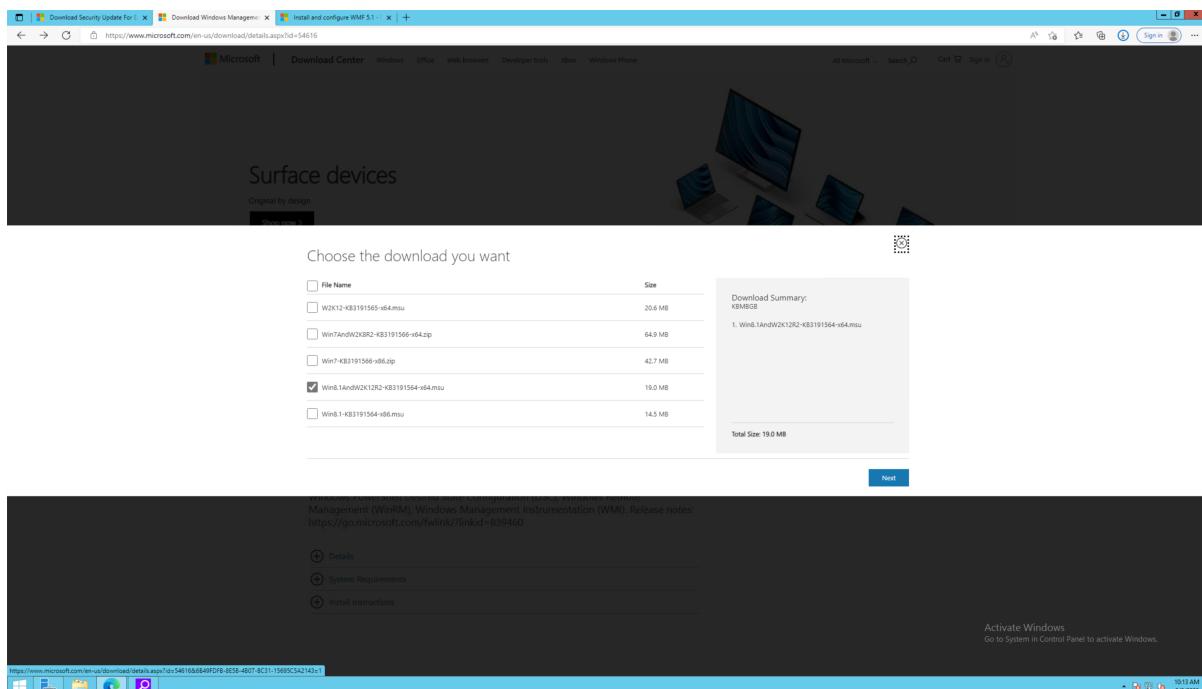
### Step 3: install the necessary applications.

There are other necessary applications should be installed on AIO-13 after the apps mentioned in **Step 3** of [General Deployment of AIO Step by step](#) have been installed.

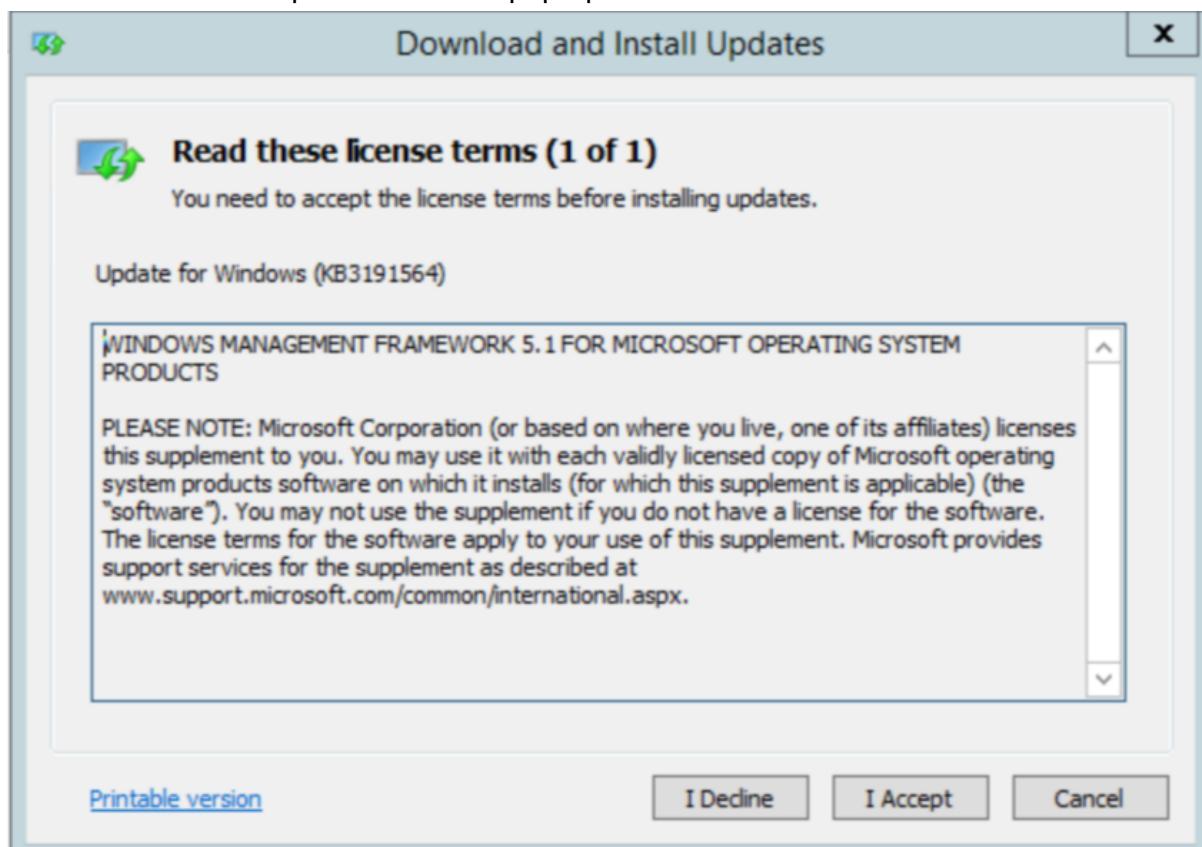
#### 3.1 Install [Windows Management Framework 5.1](#).

The screenshot shows a Microsoft Download Center page for Windows Management Framework 5.1. At the top, there's a banner for Surface devices. Below it, a large download button labeled "Download". The page includes language selection (English) and a note about selecting a language. At the bottom, there's a section for "Details", "System Requirements", and "Install Instructions". A watermark at the bottom right says "Activate Windows Go to System in Control Panel to activate Windows".

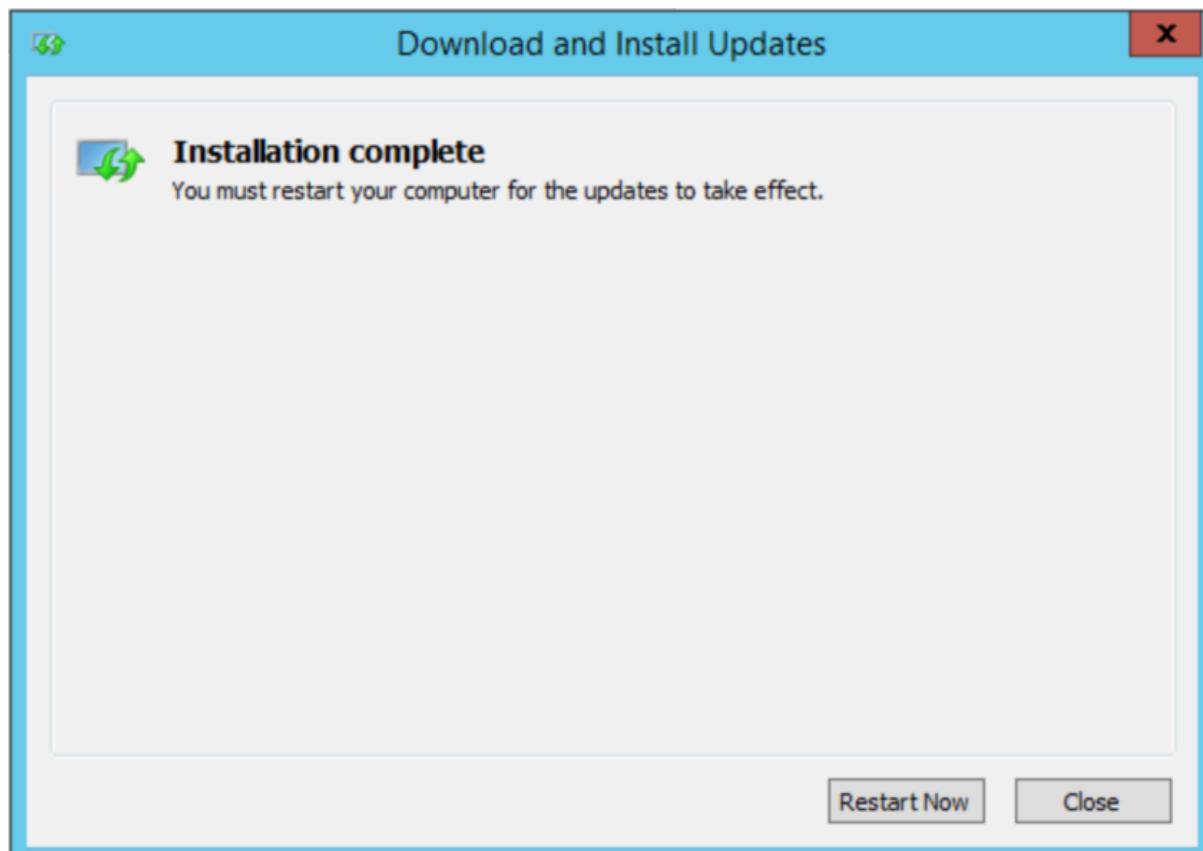
##### 3.1.1 Select "Win8.1AndW2K12R2-KB3191564-x64.msu" and click Next.



### 3.1.2 Click on "I Accept" button in the pop-up.

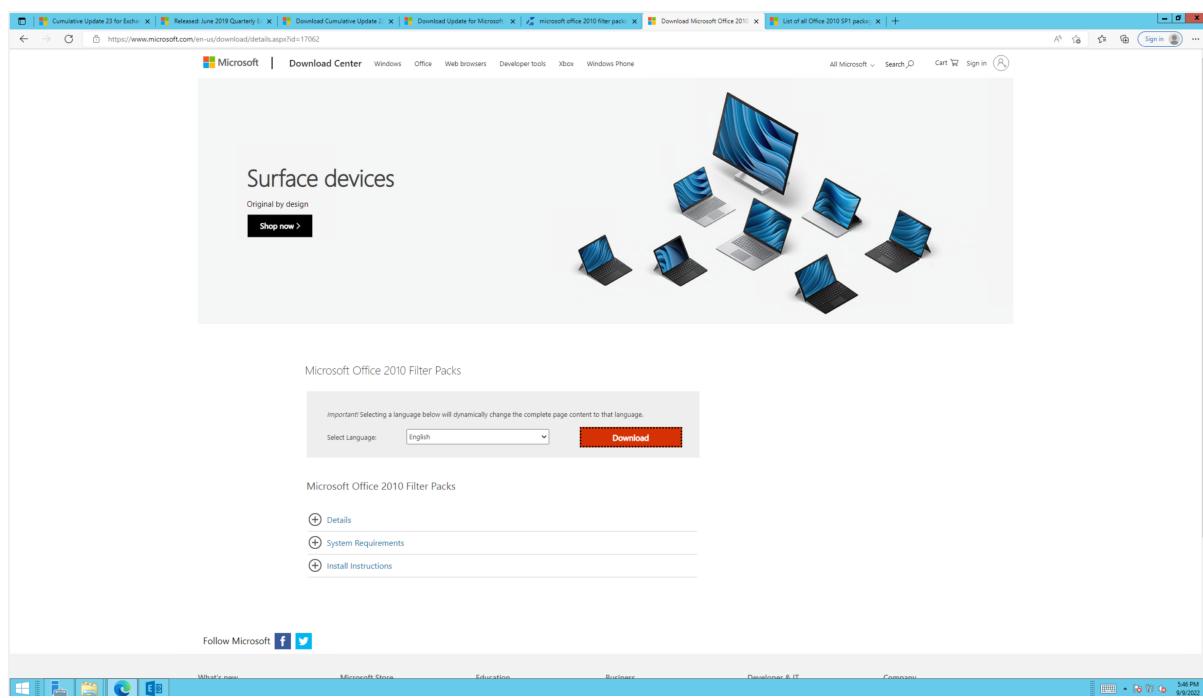


### 3.1.3 Click on **Restart Now** button.



### 3.2 Install [Microsoft Filter Pack 2.0](#).

#### 3.2.1 Click on **Download** button.



#### 3.2.2 Select **filterpack64bit.exe** and click on **Next**.

The screenshot shows the Microsoft download page for Surface devices. At the top, there's a navigation bar with links like Microsoft, Download Center, Windows, Office, and Windows Phone. Below the navigation, the title "Surface devices" is displayed, followed by a "Original by design" badge and a "View all Surface products" link. On the right side, there's a 3D rendering of several Microsoft Surface devices. The main content area is titled "Choose the download you want" and lists two files: "FilterPack12bit.exe" (1.5 MB) and "FilterPack64bit.exe" (3.9 MB). A "Download Summary" box indicates a total size of 3.9 MB. Below the file list, there are sections for "Details" and "System Requirements".

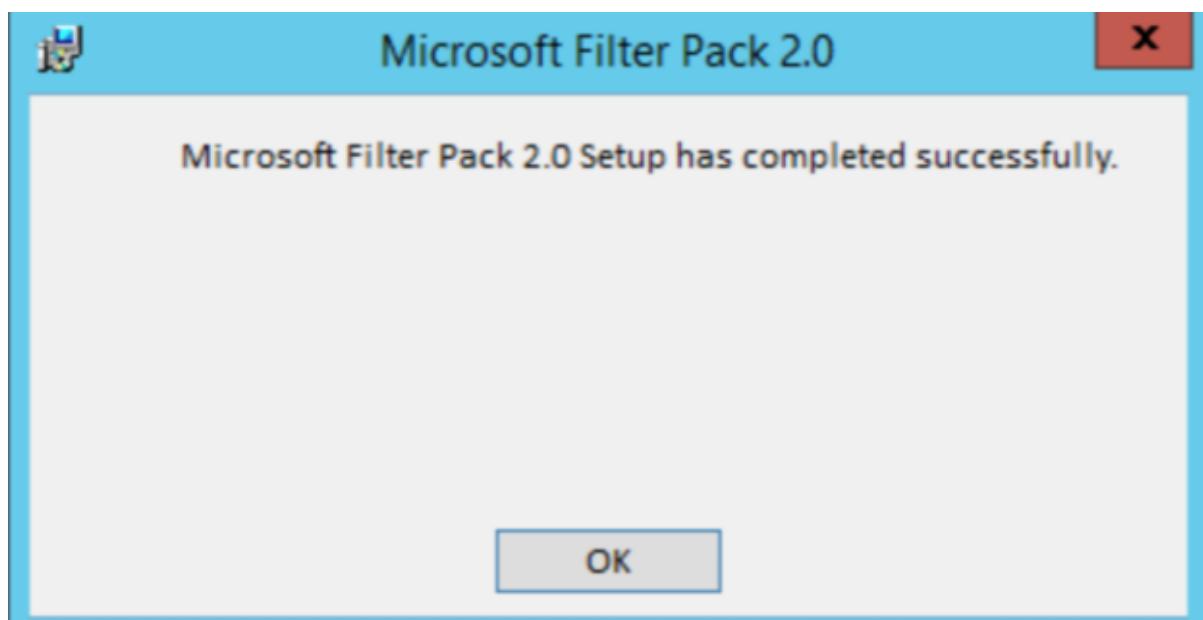
3.2.3 Double-click on the exe and click on **Next** in the pop-up.



3.2.4 Click on **Next**.

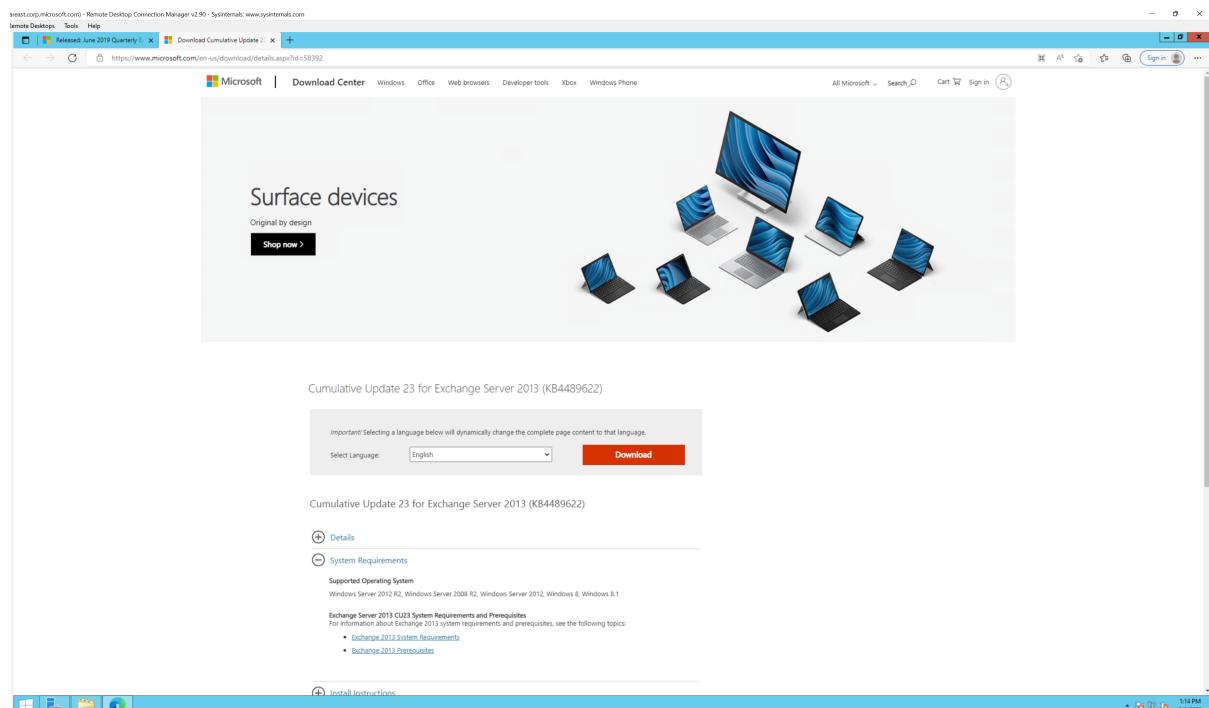


3.2.5 Click on **Ok**.

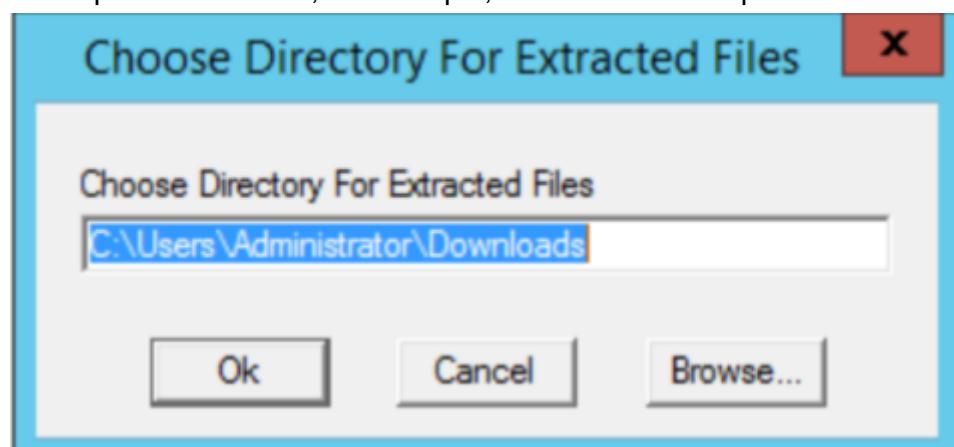


3.3 Install [Cumulative Update 23 for Exchange Server 2013 \(KB4489622\)](#).

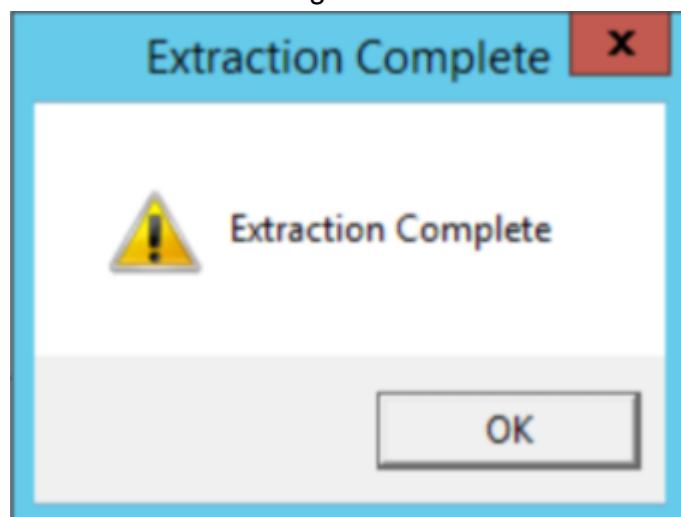
3.3.1 click on **Download** button.



3.3.2 Double-click on the ISO and in the pop-up, click on **OK**. You can change the folder path of ISO later, for example, move them to the path "C:\EX".



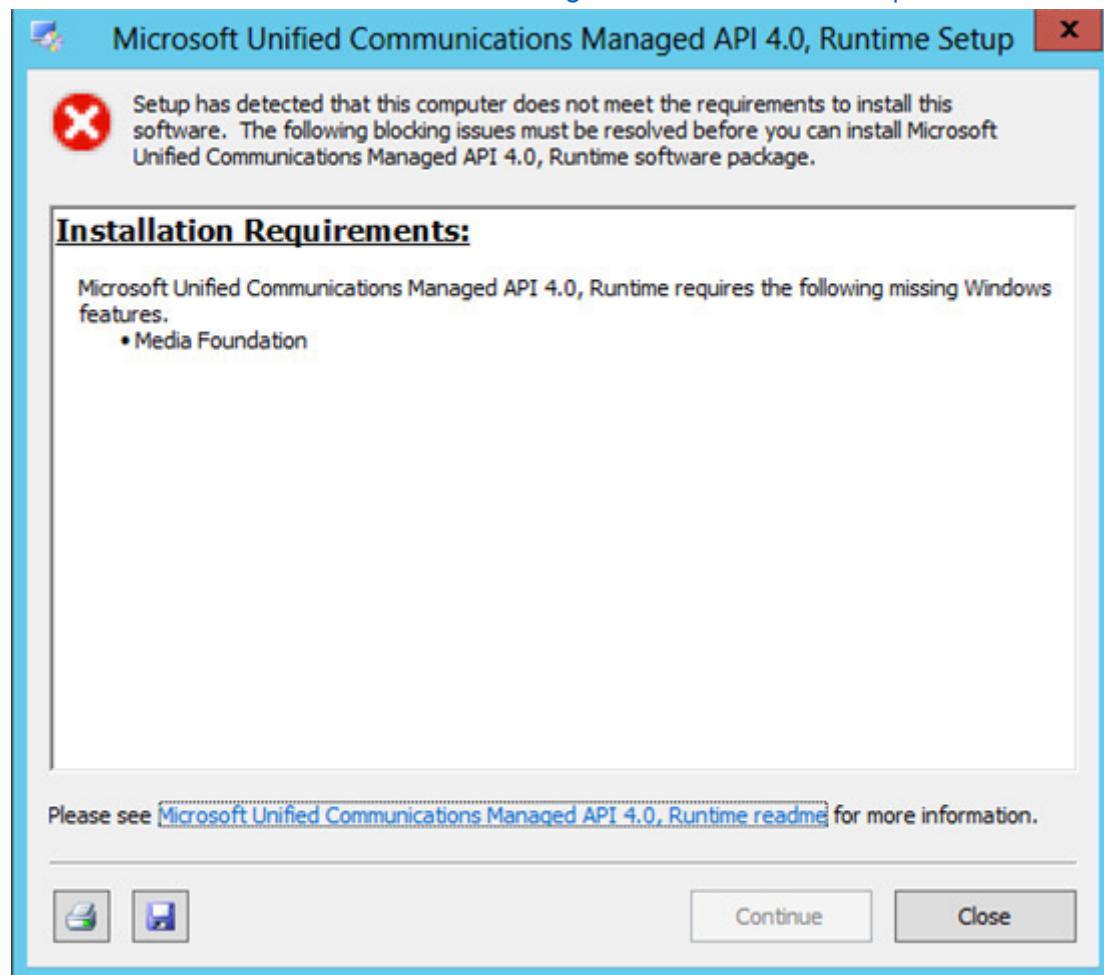
3.3.3 Wait for extracting.



The installation of necessary apps is complete.

When you install [Unified Communications Managed API 4.0 Runtime](#) on AIO-13, you may meet the following problem.

**Problem:** If you met the pop-up like the below pic, you can follow the solution with this link: [Microsoft Communications Managed API 4.0 Install Error | PeteNetLive](#)



### Solution:

Run the cmdlet and then restart the system: `Install-WindowsFeature Server-Media-Foundation`

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\windows\system32> Install-WindowsFeature Server-Media-Foundation
Success Restart Needed Exit Code      Feature Result
----- ----- ----- {Media Foundation}
True   Yes      SuccessRest... {Media Foundation}

WARNING: You must restart this server to finish the installation process.

PS C:\windows\system32>
PS C:\windows\system32>
```

## Step 4: pending the ISO.

Same as **Step 4** in [General Deployment of AIO Step by step](#).

## Step 5: prepare Windows Features.

### 5.1 Install the RSAT Feature.

```
Install-WindowsFeature RSAT-ADDS
```

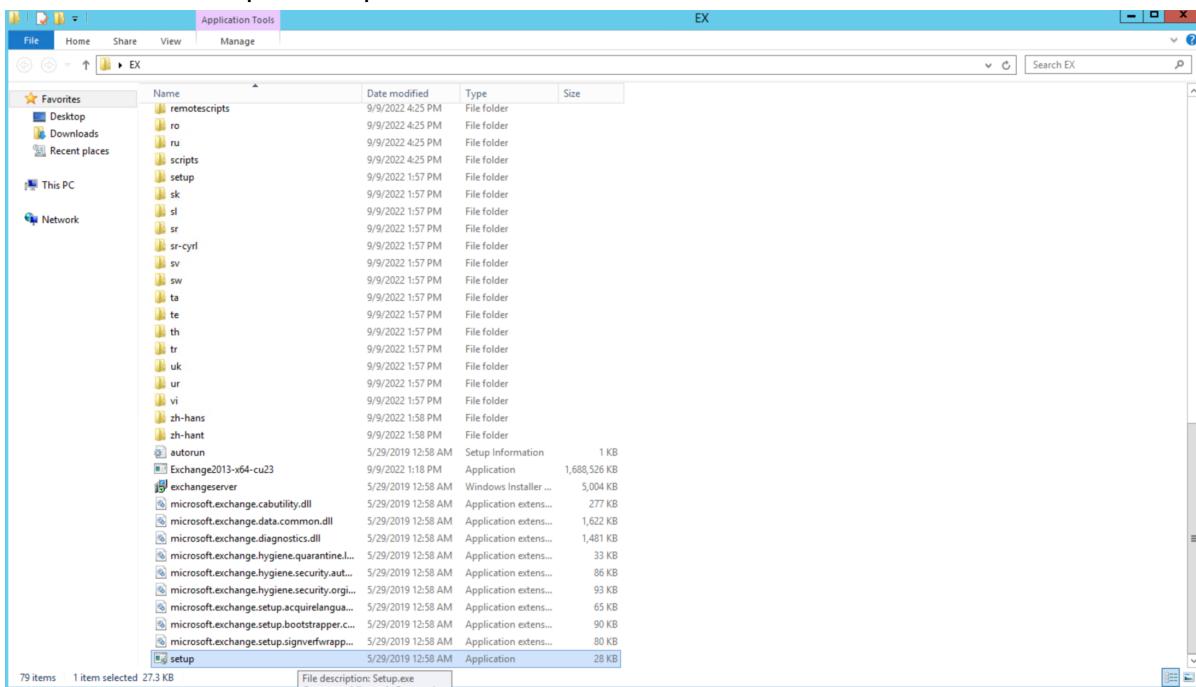
### 5.2 Install Exchange roles.

```
Install-WindowsFeature AS-HTTP-Activation, Desktop-Experience, NET-Framework-45-Features, RPC-over-HTTP-proxy, RSAT-Clustering, RSAT-Clustering-CmdInterface, RSAT-Clustering-Mgmt, RSAT-Clustering-PowerShell, Web-Mgmt-Console, 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
```

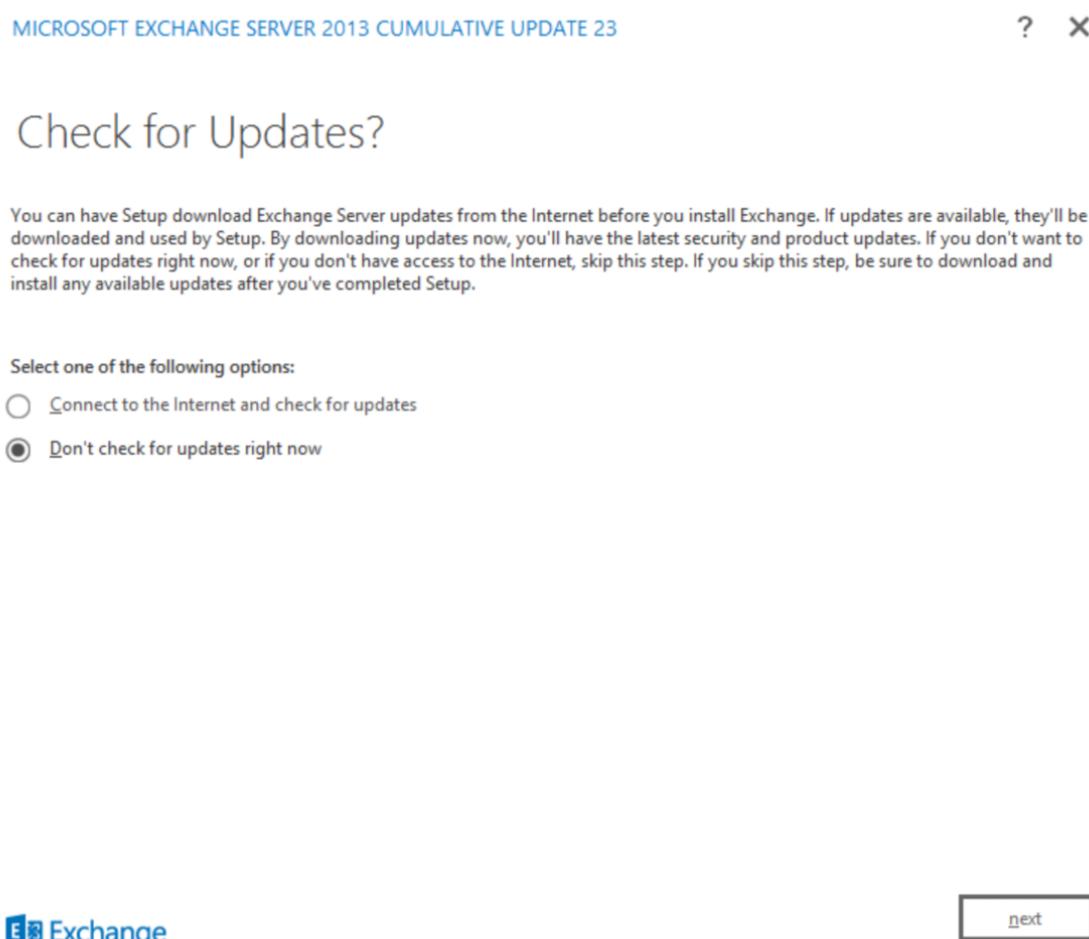
### 5.3. Restart the system.

## Step 6: use wizard to install exchange server 2013.

### 6.1. Click on "setup" in the path of CU.



### 6.2. Click on "Don't check for updates right now" and click on next. Then take the following steps as the pics display.



## Introduction

Welcome to Microsoft Exchange Server 2013!

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 2013.

Plan your Exchange Server 2013 deployment:

[Read about Microsoft Exchange Server 2013](#)

[Read about supported languages](#)

[Use the Exchange Server 2013 Deployment Assistant](#)



## License Agreement

Please read and accept the Exchange Server 2013 license agreement.

### MICROSOFT SOFTWARE LICENSE TERMS

#### MICROSOFT EXCHANGE SERVER 2013 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.

**By using the software, you accept these terms. If you do not accept them, do not use the software. Instead, return it to the retailer for a refund or credit.** If you cannot obtain a refund there, contact Microsoft or

[Microsoft Customer Support](#).

- I accept the terms in the license agreement  
 I do not accept the terms in 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
  - Client Access 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: 8494.3 MB

Disk space available: 174570.8 MB

Specify the path for the Exchange Server installation:



## 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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## Malware Protection Settings

Malware scanning helps protect your messaging environment by detecting messages that may contain viruses or spyware. It can be turned off, replaced, or paired with other premium services for layered protection.

Malware scanning is enabled by default. However, you can disable it if you're using another product for malware scanning. If you choose to disable malware scanning now, you can enable it at any point after you've installed Exchange.

Disable malware scanning.

- Yes  
 No

Internet access is required to download the latest anti-malware engine and definition updates.



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## Readiness Checks

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

Configuring Prerequisites

0%



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[install](#)

## Readiness Checks

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

### Prerequisite Analysis

100%

#### Warning:

Installing Exchange Server on a domain controller will elevate the permissions for Exchange Trusted Subsystem to domain administrators.

For more information, visit: <http://technet.microsoft.com/library/EXCHG.150/ms.exch.setupreadiness.WarningInstallExchangeRolesOnDomainController.aspx>

#### Warning:

Setup will prepare the organization for Exchange 2013 by using 'Setup /PrepareAD'. No Exchange 2007 server roles have been detected in this topology. After this operation, you will not be able to install any Exchange 2007 servers.

For more information, visit: <http://technet.microsoft.com/library/EXCHG.150/ms.exch.setupreadiness.NoE12ServerWarning.aspx>

#### Warning:

Setup will prepare the organization for Exchange 2013 by using 'Setup /PrepareAD'. No Exchange 2010 server roles have been detected in this topology. After this operation, you will not be able to install any Exchange 2010 servers.

For more information, visit: <http://technet.microsoft.com/library/EXCHG.150/ms.exch.setupreadiness.NoE14ServerWarning.aspx>



6.3. Then wait for the installation.

# Setup Completed

Congratulations! Setup has finished successfully. To complete the installation of Exchange Server 2013, reboot the computer.

You can view additional post-installation tasks online by clicking the link: <http://go.microsoft.com/fwlink/p/?LinkId=255372>. You can also start the Exchange Administration Center after Setup is finished.

Launch Exchange Administration Center after finishing Exchange setup.



finish

## Step 7: install o365.

Same as Step 8 in [General Deployment of AIO Step by step](#).

## Preparation mentioned in Overview.

Same as Preparation mentioned in Overview in [General Deployment of AIO Step by step](#).