

Installing Exchange Server 2010

 Wednesday, 06 January 2010 21:01 |  Written by Veerakumar Elumalai | 

(14 Votes)

Exchange Server 2010 has lot of new features which will help us to setup our messaging environment better. Installing Exchange Server 2010 is different from Exchange Server 2007 installation. This topic explains you the road map to Microsoft Exchange Server 2010 installation and post verification.



Note: Please Check Reference section for more information's about the Exchange Server 2010 installations and its downloads.

Steps to Install Exchange Server 2010

The steps in below chart flow, will give you a brief idea on Exchange Server 2010 installation.



Prerequisites:

Sr.	Requirements	Discription
1.	OS Requirement	Windows Server 2008 SP2 x64 or Windows Server 2008 R2 x64 (Enterprise or Standard Edition) Note: It won't support Windows Server 2003 and Windows Server 2008 x32 version
2.	Active Directory and Domains Functional Requirement	• Minimum Forest and Domain functional level should be Windows Server 2003 (x32 or x64) • Schema Master Server Should be Windows Server 2003 SP1 or Later
3.	Processor	• Intel 64 architecture (Intel EM64T) • AMD processor (AMD64 platform)
4.	Memory	Varies depending on Exchange Roles and its capacity
5.	Paging file size	Page file size min and max must be set to physical RAM + 10 MB
6.	Disk space	Minimum - 1.2 GB to install Exchange Server + 500 MB for Unified Messaging + 500 MB for message que Database(Edge/Hub transport server)
7.	Disk partitions	NTFS file system

Scenario - My LAB Setup

Name of the Server: Server1

Role: Active Directory Domain Controller

OS: Windows Server 2008 SP2

Domain Name: Veera.com

Name of the Server: EX2010

Role: Planned to install - Hub Transport server role, Client Access server role, Mailbox Server role, Exchange Management Tools

OS: Windows Server 2008 SP2

Exchange Server 2010 Version: 14.00.0639.021

Prepare Active Directory Environment

The following commands are used to prepare your Active Directory environment.

Commands	Purpose
setup /PrepareLegacyExchangePermissions:	Any computers in your organization running Exchange 2003
setup /PrepareSchema	This will Update the Schema Master with the Exchange 2010 attributes Note: This will automatically perform the PrepareLegacyExchangePermissions also
setup /PrepareAD /OrganizationName:	This will prepare your Active Directory environment Note: This Setup /PrepareAD will automatically perform the PrepareLegacyExchangePermissions , PrepareSchema and PrepareDomain so no need to run Separately, the advantages of using each command separately are that you can run each command with an account that has the minimum permissions required for that specific purpose only
setup /PrepareAllDomains	This command prepare all domains in your organization

setup /PrepareDomain:

This command prepare the specific domains in your organization

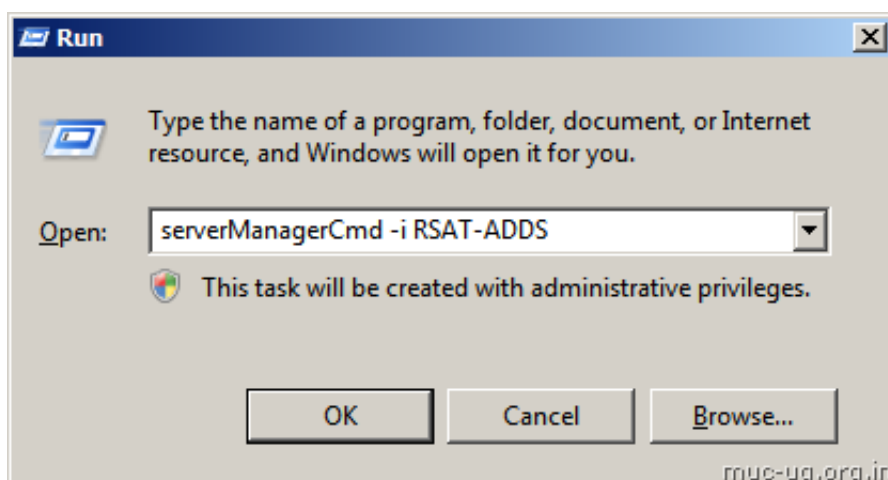
Prepare - Active Directory and Domains:

This sub-section will guide you to prepare your Active Directory and Domain environment.

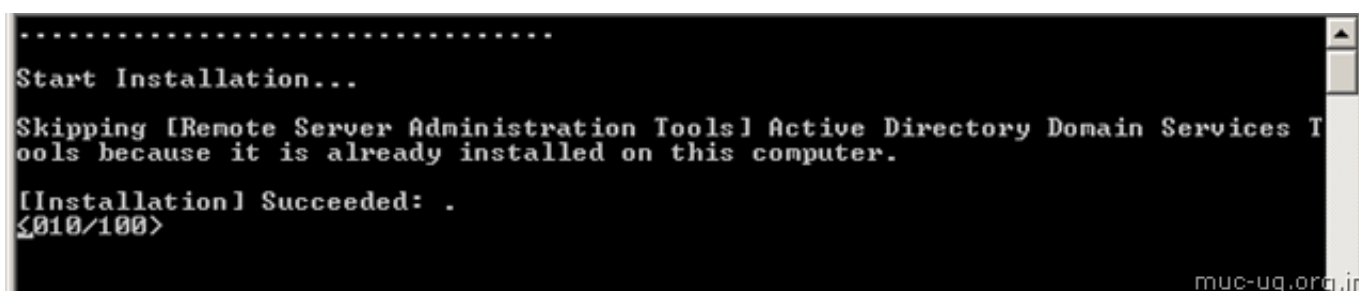
1. To perform this tasks we need an User ID with **Schema Admins**, **Domain Admins** and **Enterprise Admins** group membership.

2. In the Active Directory Domain Server run the following command (As per Lab setup I have started this installation in Server1 Server).

Go to **Start | Run | ServerManagerCmd -i RSAT-ADDS** .This command will install the install the Active Directory management tools.



3. It will take few minutes to install the tools.



4. In the Active Directory Domain Server run the following command.

setup /PrepareAD /OrganizationName: or **setup /p /on:**

Note: In this command is a variable this will vary according to your environment Ex: **setup /PrepareAD /OrganizationName: Veera-Lab**. Before run this command browse to Exchange 2010 binaries path or include the Exchange binaries path Ex: "M:\Setup.com /PrepareAD /OrganizationName:Veera-Lab"

```
C:\Users\Administrator>M:\setup.com /PrepareAD /OrganizationName:Veera-Lab
```

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5. It will take few minutes to complete the installation.

```
Welcome to Microsoft Exchange Server 2010 Unattended Setup

By continuing the installation process, you agree to the license terms of
Microsoft Exchange Server 2010. If you don't accept these license terms,
please cancel the installation. To review these license terms, please go to
http://go.microsoft.com/fwlink/?LinkId=150127&clcid=0x409/
```

```
Press any key to cancel setup.....
No key presses were detected. Setup will continue.
Preparing Exchange Setup
```

```
Copying Setup Files ..... 53%
```

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6. Verify Schema Update Completed successfully.

```
please cancel the installation. To review these license terms, please go to
http://go.microsoft.com/fwlink/?LinkId=150127&clcid=0x409/
```

```
Press any key to cancel setup.....
No key presses were detected. Setup will continue.
Preparing Exchange Setup
```

```
Copying Setup Files ..... COMPLETED
```

```
No server roles will be installed
```

```
Performing Microsoft Exchange Server Prerequisite Check
```

```
Organization Checks ..... COMPLETED
```

```
Setup is going to prepare the organization for Exchange 2010 by using 'Setup /P
repareAD'. No Exchange 2007 server roles have been detected in this topology. Af
ter this operation, you will not be able to install any Exchange 2007 server rol
es.
```

```
Configuring Microsoft Exchange Server
```

```
Organization Preparation ..... COMPLETED
```

```
The Microsoft Exchange Server setup operation completed successfully.
```

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Prepare Exchange Server 2010 Installation

The below specified commands are used to prepare the Server to Install Exchange Server 2010. The commands will vary according to the Exchange Server 2010 Roles and Windows Server 2008 versions (Windows Server 2008 SP2 or Windows Server 2008 R2).

Exchange Server 2010 Roles	Commands for Windows Server 2008 SP2	Commands For Windows Server 2008 R2 x64
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	x64 (Standard or Enterprise)	(Standard or Enterprise)
Typical installation of Client Access, Hub Transport, and the Mailbox role	<pre>sc config NetTcpPortSharing start= auto</pre> <pre>ServerManagerCmd -ip Exchange-Typical.xml - Restart</pre>	Add- WindowsFeature NET -Framework,RSAT-ADDS,Web-Server,Web-Basic-Auth,Web-Windows-Auth,Web-Metabase,Web-Net-Ext,Web-Lgcy-Mgmt-Console,WAS-Process-Model,RSAT-Web-Server,Web-ISAPI-Ext,Web-Digest-Auth,Web-Dyn-Compression,NET-HTTP-Activation,RPC-Over-HTTP-Proxy -Restart
Client Access, Hub Transport, Mailbox, and Unified Messaging server roles	<pre>sc config NetTcpPortSharing start= auto</pre> <pre>ServerManagerCmd -i Desktop-Experience</pre> <pre>ServerManagerCmd -ip Exchange-Typical.xml - Restart</pre>	Add- WindowsFeature NET -Framework,RSAT-ADDS,Web-Server,Web-Basic-Auth,Web-Windows-Auth,Web-Metabase,Web-Net-Ext,Web-Lgcy-Mgmt-Console,WAS-Process-Model,RSAT-Web-Server,Web-ISAPI-Ext,Web-Digest-Auth,Web-Dyn-Compression,NET-HTTP-Activation,RPC-Over-HTTP-Proxy,Desktop-Experience -Restart
Client Access and Hub Transport server roles	<pre>sc config NetTcpPortSharing start= auto</pre> <pre>ServerManagerCmd -ip Exchange-Typical.xml - Restart</pre>	Add- WindowsFeature NET -Framework,RSAT-ADDS,Web-Server,Web-Basic-Auth,Web-Windows-Auth,Web-Metabase,Web-Net-Ext,Web-Lgcy-Mgmt-Console,WAS-Process-Model,RSAT-Web-Server,Web-ISAPI-Ext,Web-Digest-Auth,Web-Dyn-Compression,NET-HTTP-Activation,RPC-Over-HTTP-Proxy -Restart
Hub Transport and Mailbox server roles	<pre>ServerManagerCmd -ip Exchange-Typical.xml - Restart</pre>	Add- WindowsFeature NET -Framework,RSAT-ADDS,Web-Server,Web-Basic-Auth,Web-Windows-Auth,Web-Metabase,Web-Net-Ext,Web-Lgcy-Mgmt-Console,WAS-Process-Model,RSAT-Web-Server -Restart
Client Access and Mailbox server roles	<pre>sc config NetTcpPortSharing start= auto</pre> <pre>ServerManagerCmd -ip Exchange-Typical.xml - Restart</pre>	Add- WindowsFeature NET -Framework,RSAT-ADDS,Web-Server,Web-Basic-Auth,Web-Windows-Auth,Web-Metabase,Web-Net-Ext,Web-Lgcy-Mgmt-Console,WAS-Process-Model,RSAT-Web-Server,Web-ISAPI-Ext,Web-Digest-Auth,Web-Dyn-Compression,NET-HTTP-Activation,RPC-Over-HTTP-Proxy -Restart

Client Access role	sc config NetTcpPortSharing start= auto ServerManagerCmd -ip Exchange-CAS.xml –Restart	Add- WindowsFeature NET-Framework,RSAT-ADDS,Web-Server,Web-Basic-Auth,Web-Windows-Auth,Web-Metabase,Web-Net-Ext,Web-Lgcy-Mgmt-Console,WAS-Process-Model,RSAT-Web-Server,Web-ISAPI-Ext,Web-Digest-Auth,Web-Dyn-Compression,NET-HTTP-Activation,RPC-Over-HTTP-Proxy –Restart
Hub Transport role	ServerManagerCmd -ip Exchange-Hub.xml –Restart	Add- WindowsFeature NET-Framework,RSAT-ADDS,Web-Server,Web-Basic-Auth,Web-Windows-Auth,Web-Metabase,Web-Net-Ext,Web-Lgcy-Mgmt-Console,WAS-Process-Model,RSAT-Web-Server –Restart
Mailbox role	ServerManagerCmd -ip Exchange-MBX.xml –Restart	Add- WindowsFeature NET-Framework,RSAT-ADDS,Web-Server,Web-Basic-Auth,Web-Windows-Auth,Web-Metabase,Web-Net-Ext,Web-Lgcy-Mgmt-Console,WAS-Process-Model,RSAT-Web-Server –Restart
Unified Messaging role	ServerManagerCmd -ip Exchange-UM.xml –Restart	Add- WindowsFeature NET-Framework,RSAT-ADDS,Web-Server,Web-Basic-Auth,Web-Windows-Auth,Web-Metabase,Web-Net-Ext,Web-Lgcy-Mgmt-Console,WAS-Process-Model,RSAT-Web-Server,Desktop-Experience –Restart
Edge Transport role	ServerManagerCmd -ip Exchange-Edge.xml -Restart	Add- WindowsFeature NET-Framework,RSAT-ADDS,ADLDS –Restart

Prepare Server to install Exchange Server 2010:

This sub-section will guide you to prepare the server to install Exchange Server 2010 (Typical Installation)

1. To perform this tasks we need an User ID with **Schema Admins**, **Domain Admins** and **Enterprise Admins** group membership

Note: Since this server in the same Forest we don't required to update the domain by using /PrepareDomain

2. (As per Lab setup I have started this installation in **EX2010** Server)

Since we are going to install the Client Access, Hub Transport, and the Mailbox role in the same server we need to run the below command.

Go to **Start | Run | cmd** | In the command prompt run **sc config NetTcpPortSharing start= auto**

```
C:\>sc config NetTcpPortSharing start= auto
```

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3. Verify Command completed successfully.

```
C:\>sc config NetTcpPortSharing start= auto
[SC] ChangeServiceConfig SUCCESS
C:\>
```

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4. Browse to Exchange 2010 Binaries Run the Below command.

Go to **Start | Run | cmd** | Browse to Exchange 2010 Binaries **Scripts** folder by using **cd Scripts** command | Run **ServerManagerCmd -ip Exchange-Typical.xml -Restart**

Note: This command should be run from Scripts directory of Exchange 2010 DVD, In my lab environment I have extracted the Exchange 2010 Binaries to the C:\Exchange2010 folder.

```
C:\exchange2010\scripts>ServerManagerCmd -ip Exchange-Typical.xml -Restart
```

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5. Verify all Exchange 2010 Server Prerequisite installed successfully.

```
C:\exchange2010\scripts>ServerManagerCmd -ip Exchange-Typical.xml -Restart
.....
Start Installation...
Skipping [.NET Framework 3.0 Features] .NET Framework 3.0 Features because it is
already installed on this computer.
[Installation] Succeeded: [Remote Server Administration Tools] Role Administrati
on Tools.
[Installation] Succeeded: [Web Server (IIS)] Management Tools.
[Installation] Succeeded: [.NET Framework 3.0 Features] WCF Activation.
[Installation] Succeeded: [Web Server (IIS)] Web Server.
[Installation] Succeeded: [Remote Server Administration Tools] Feature Administr
ation Tools.
[Installation] Succeeded: [Web Server (IIS)] Performance.
[Installation] Succeeded: [Web Server (IIS)] Common HTTP Features.
[Installation] Succeeded: [Web Server (IIS)] IIS 6 Management Compatibility.
[Installation] Succeeded: [Web Server (IIS)] Security.
[Installation] Succeeded: [Remote Server Administration Tools] Active Directory
Domain Services Tools.
[Installation] Succeeded: [Web Server (IIS)] Application Development.
[Installation] Succeeded: [Web Server (IIS)] Health and Diagnostics.
<010/100>
```

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6. After Server Restart , Run the below command to set the service automatic.

Go to **Start | Run | cmd | Run command Set-Service NetTcpPortSharing -StartupType Automatic.**

7. For Hub Transport Server Role/Mailbox Server Role We need to install **2007 Office System Converter: Microsoft Filter Pack** (FilterPackx64.exe) [Click Here to Download the Office filter pack](#)

8. Download and install Windows **WinRM 2.0** and **Windows PowerShell 2.0** this will comes as a single package [Click here to download the package](#)

9. Download and install **.NET Framework 3.5 Service Pack 1 (SP1)** [Click here to download it from Microsoft site.](#)

Exchange Server 2010 Installation

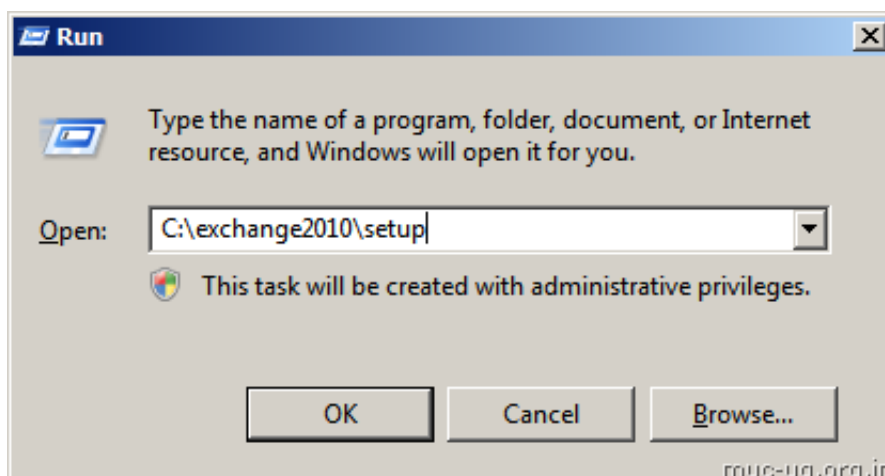
We have completed our environment Preparation and the Server Preparation now we can go ahead and install the Exchange server 2010.

Note: As per Microsoft Recommendation we need to download and install the recommended updates from Microsoft Site.

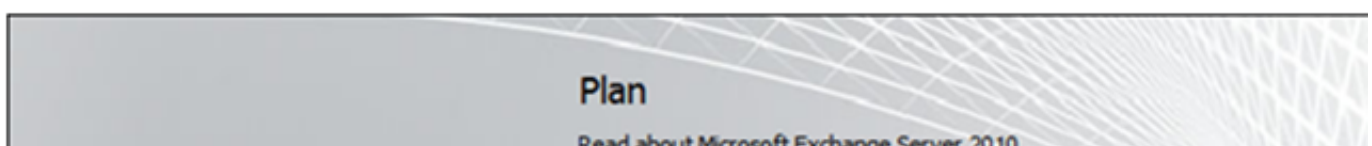
1. To perform this tasks we need an User ID with **Schema Admins, Domain Admins, Enterprise Admins** and **Local Administrators** groups membership.

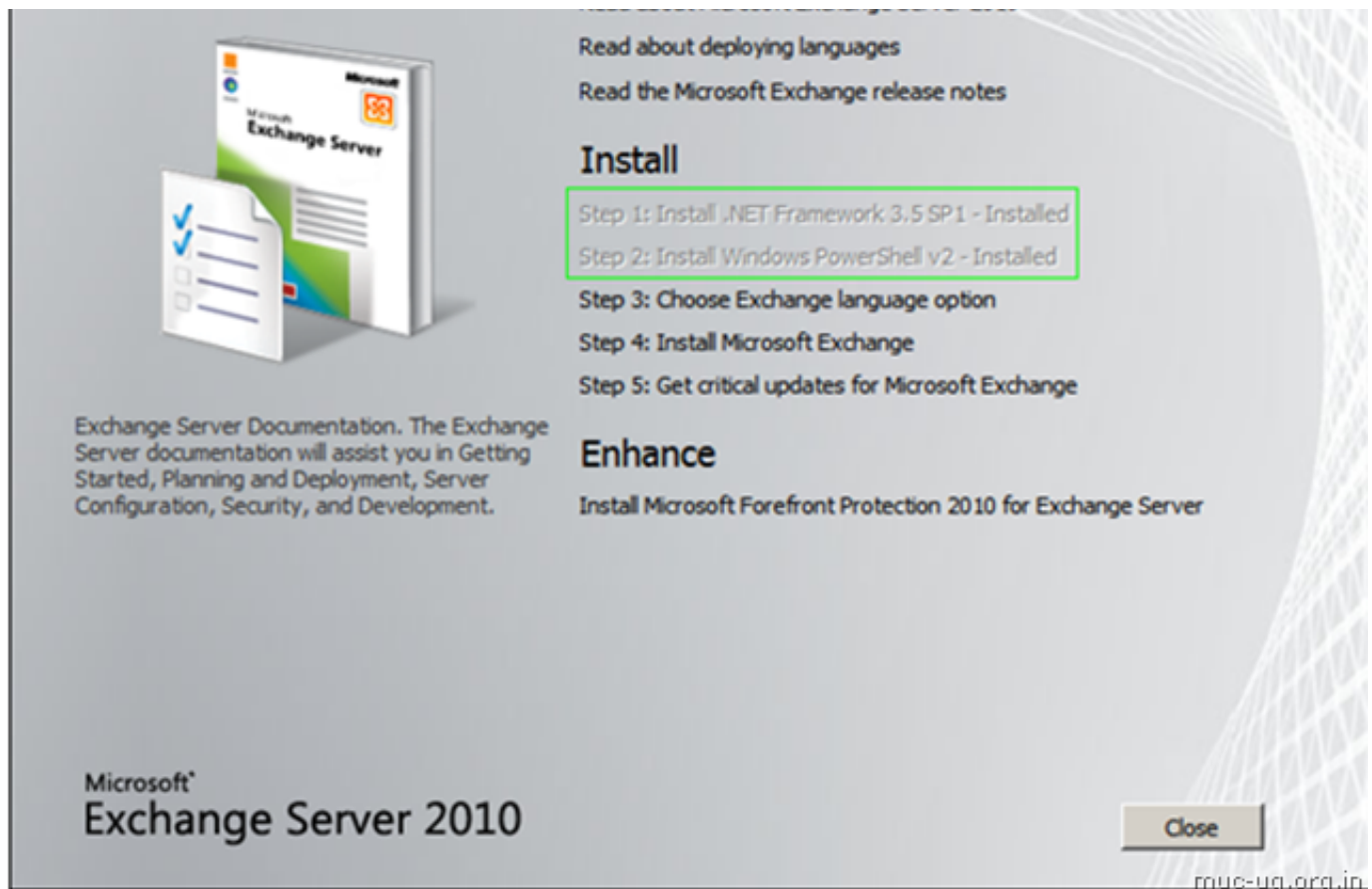
2. To Begin the Exchange Server 2010 Installation (As per Lab setup I have started this installation in **EX2010** Server) Go to **Start | Run | Run command Setup.com** from the Exchange 2010 Server Binaries or DVD.

Note: In my Lab setup I have extracted the binaries to C:\exchange2010 folder.

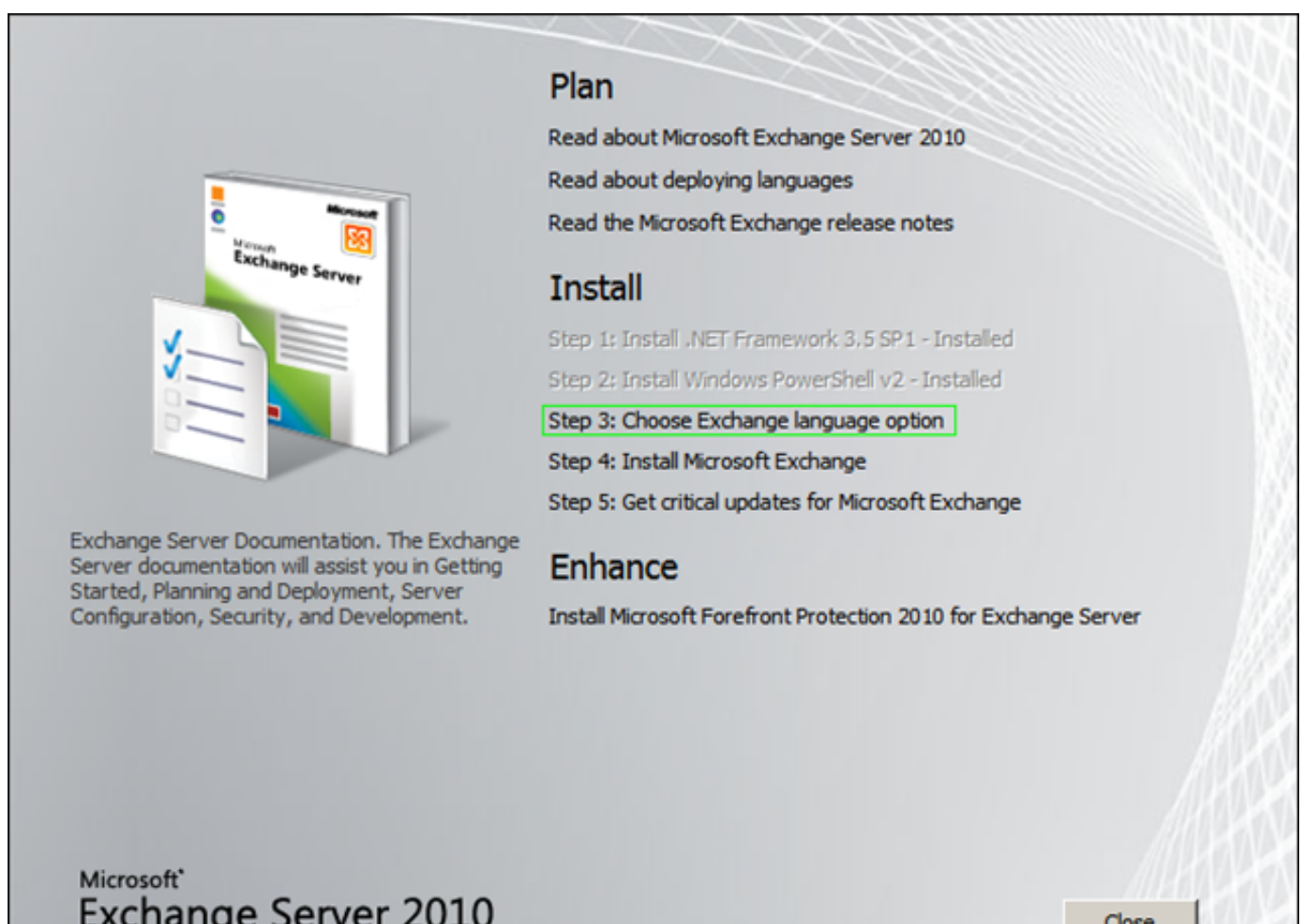


3. The First two Steps are disabled, because we have installed those prerequisites in the previous section.





4. Click **Step 3: Choose Exchange language options.**

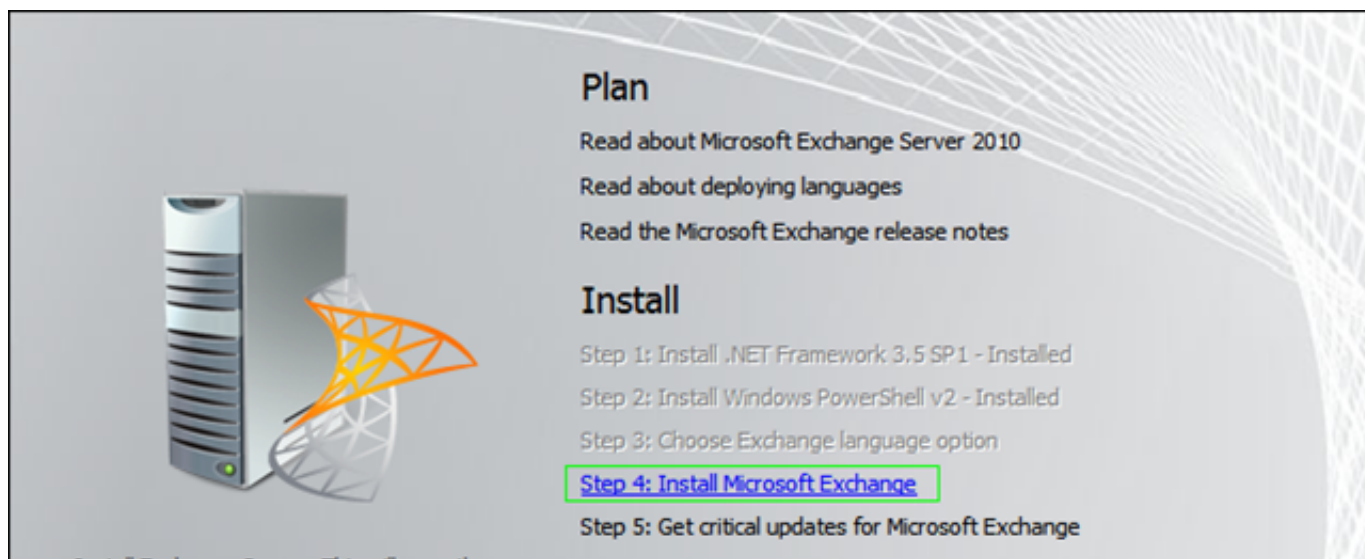


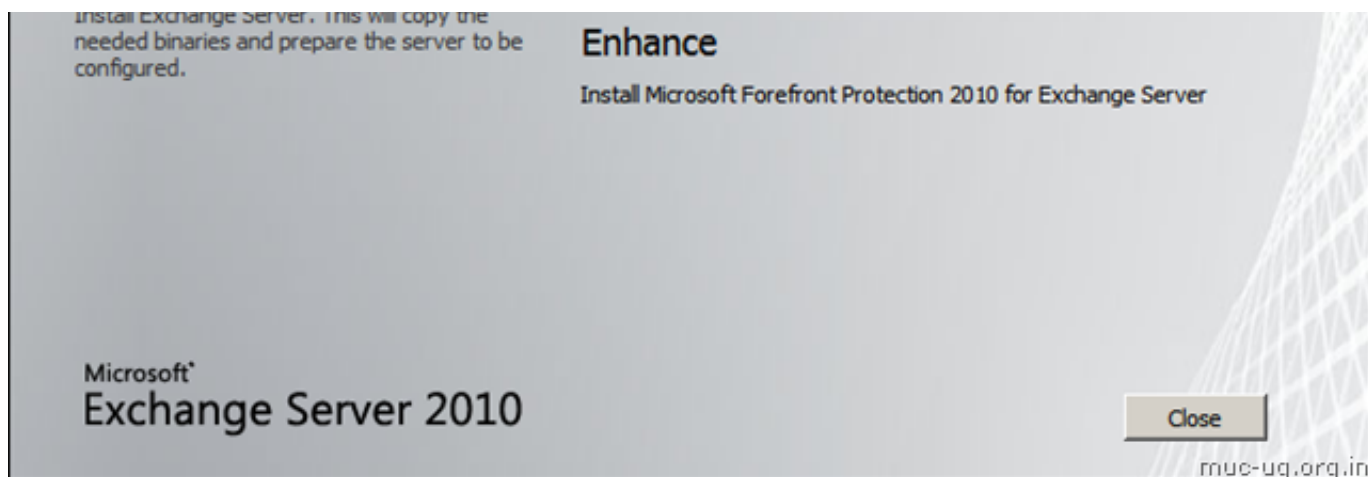
5. Select **Install only languages from the DVD.**

Note: You can choose the “Install all languages from the language bundle” if you have download the languages pack from Microsoft site [Click Here to download the language bundle pack.](#)

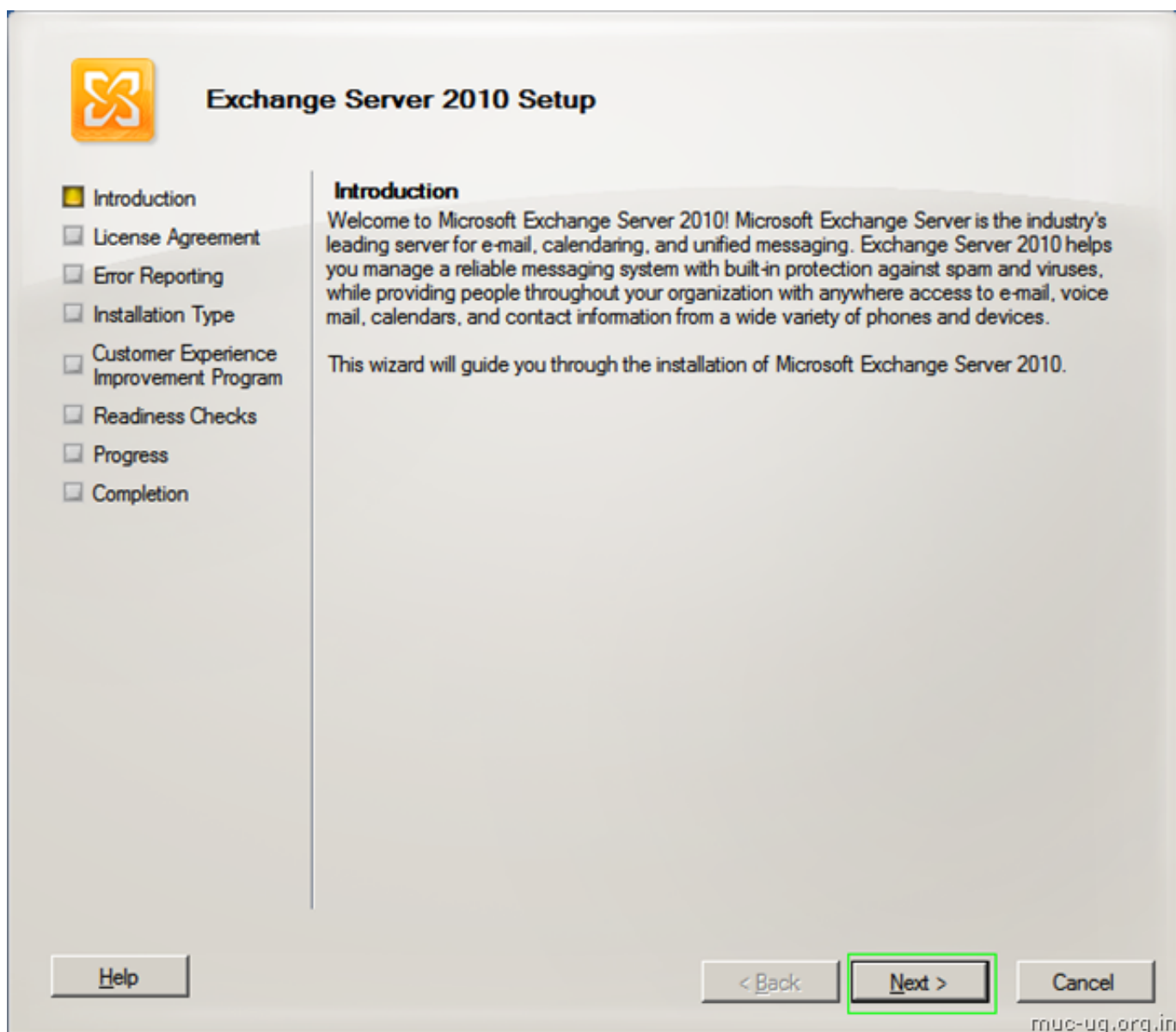


6. Click **Step 4: Install Microsoft Exchange** , this will open the Exchange Server 2010 Setup window.

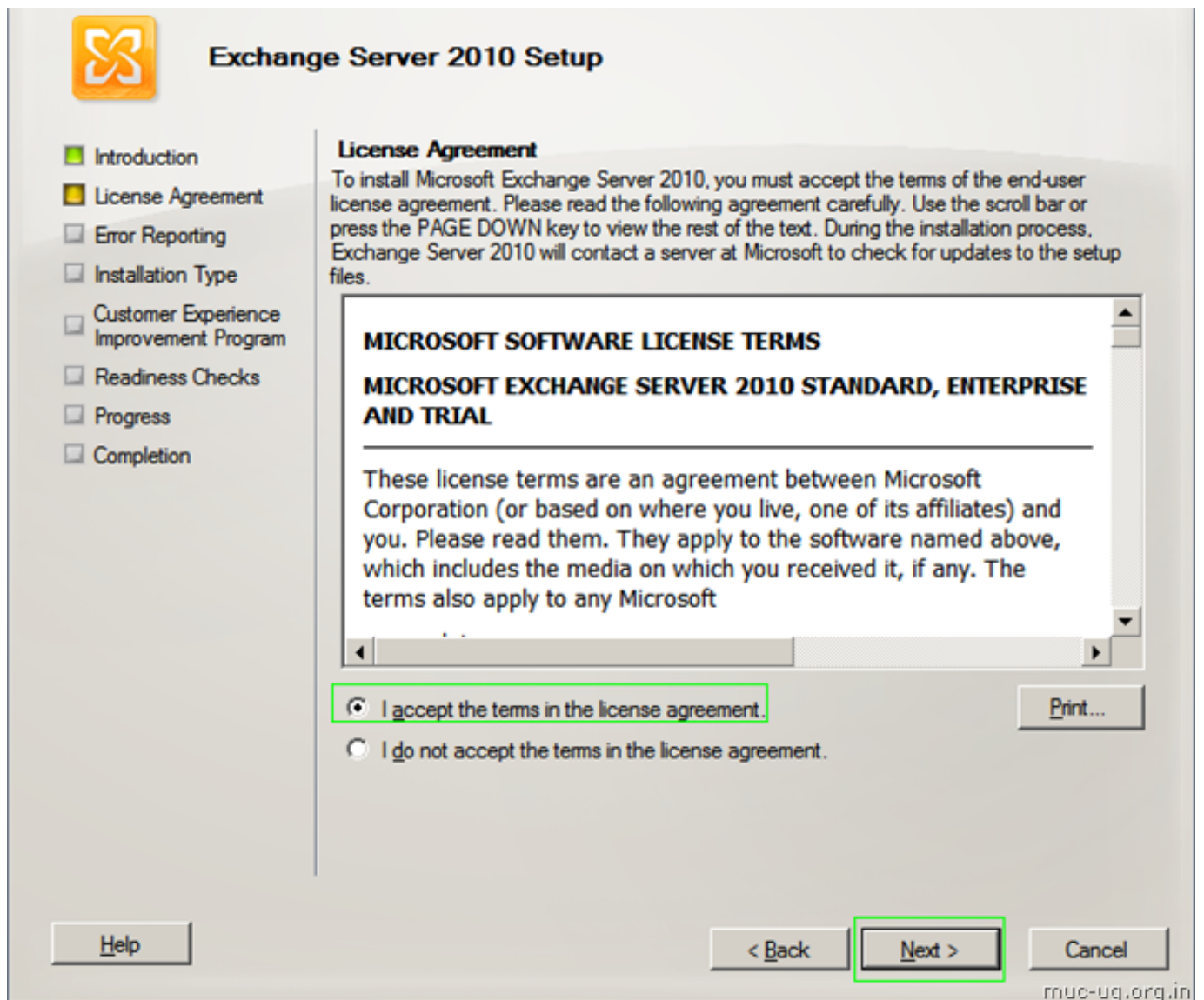




7. Click **Next** to proceed.



8. **Read** the Microsoft License Agreement | Select **I accept the terms in the license agreement** | Click **Next**.



Exchange Server 2010 Setup

- ☒ Introduction
- ☒ **License Agreement**
- ☐ Error Reporting
- ☐ Installation Type
- ☐ Customer Experience Improvement Program
- ☐ Readiness Checks
- ☐ Progress
- ☐ Completion

License Agreement

To install Microsoft Exchange Server 2010, you must accept the terms of the end-user license agreement. Please read the following agreement carefully. Use the scroll bar or press the PAGE DOWN key to view the rest of the text. During the installation process, Exchange Server 2010 will contact a server at Microsoft to check for updates to the setup files.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT EXCHANGE SERVER 2010 STANDARD, ENTERPRISE AND TRIAL

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

☒ I accept the terms in the license agreement.
 ☐ I do not accept the terms in the license agreement.

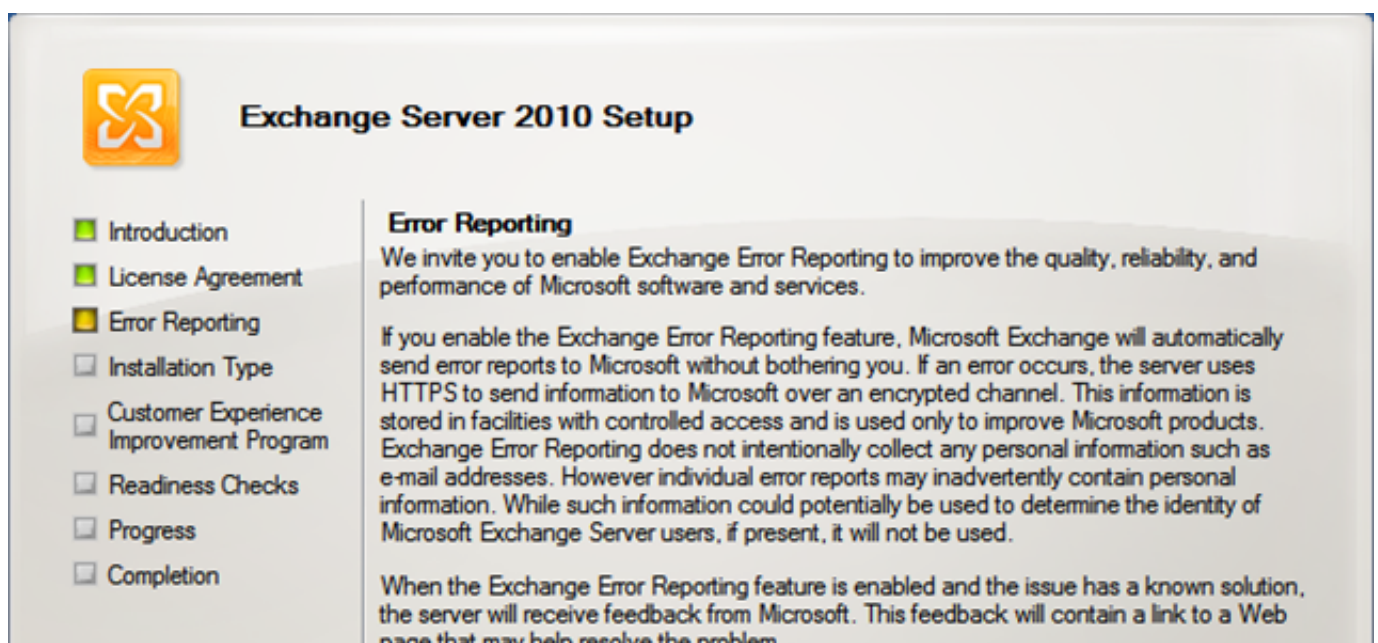
Print...

Help
 < Back
 Next >
 Cancel

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9. Select **No** | Click **Next** to proceed.

Note: You can choose yes if you wish to enable the error reporting.



Exchange Server 2010 Setup

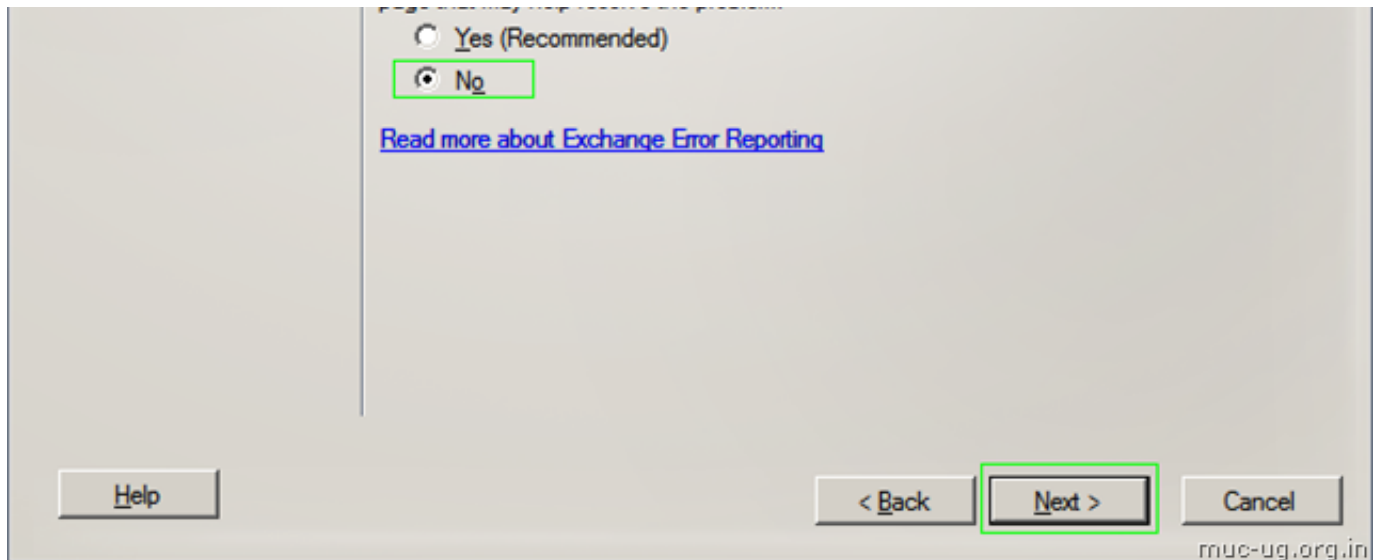
- ☒ Introduction
- ☒ License Agreement
- ☒ **Error Reporting**
- ☐ Installation Type
- ☐ Customer Experience Improvement Program
- ☐ Readiness Checks
- ☐ Progress
- ☐ Completion

Error Reporting

We invite you to enable Exchange Error Reporting to improve the quality, reliability, and performance of Microsoft software and services.

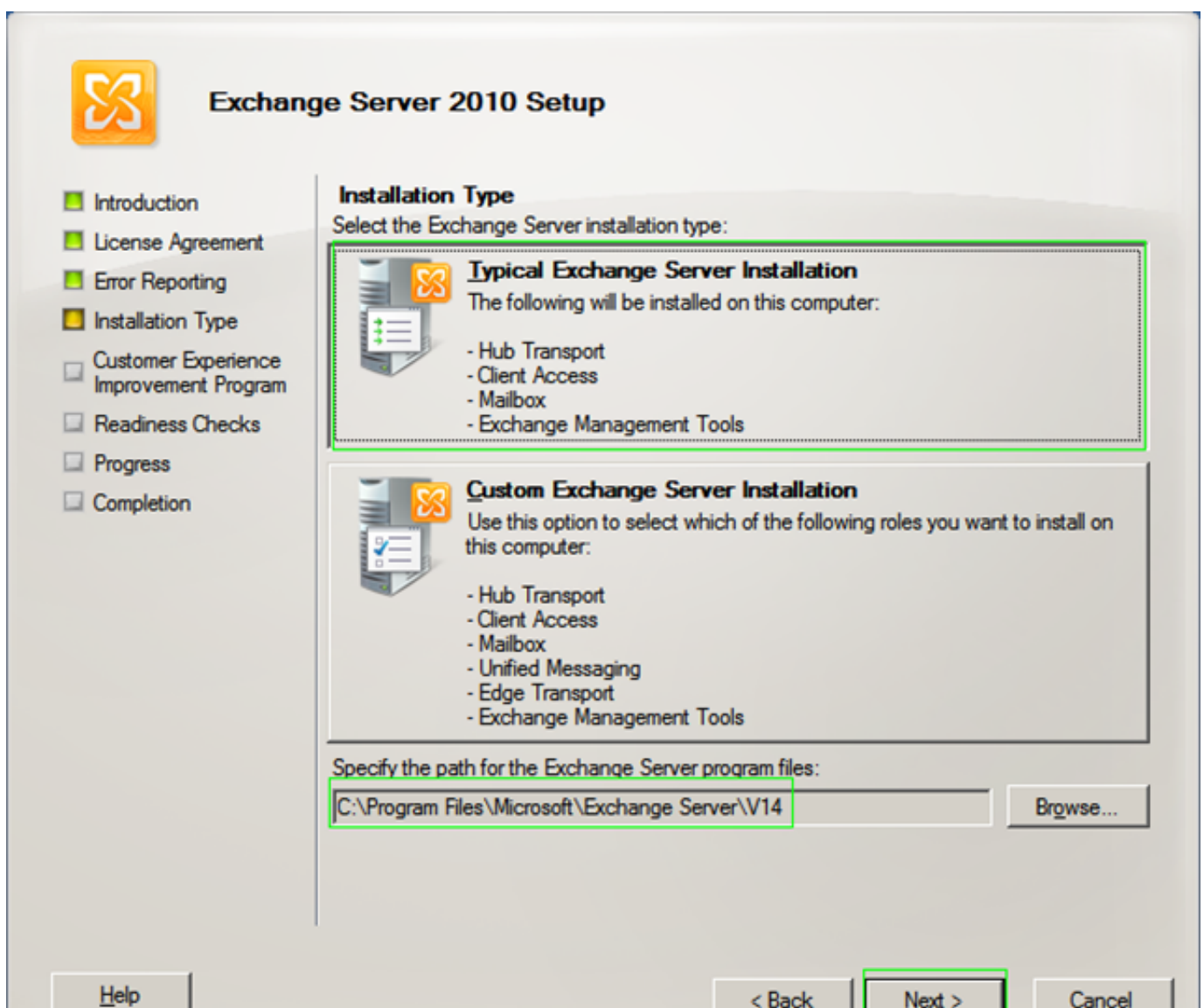
If you enable the Exchange Error Reporting feature, Microsoft Exchange will automatically send error reports to Microsoft without bothering you. If an error occurs, the server uses HTTPS to send information to Microsoft over an encrypted channel. This information is stored in facilities with controlled access and is used only to improve Microsoft products. Exchange Error Reporting does not intentionally collect any personal information such as e-mail addresses. However individual error reports may inadvertently contain personal information. While such information could potentially be used to determine the identity of Microsoft Exchange Server users, if present, it will not be used.

When the Exchange Error Reporting feature is enabled and the issue has a known solution, the server will receive feedback from Microsoft. This feedback will contain a link to a Web page that may help resolve the problem.



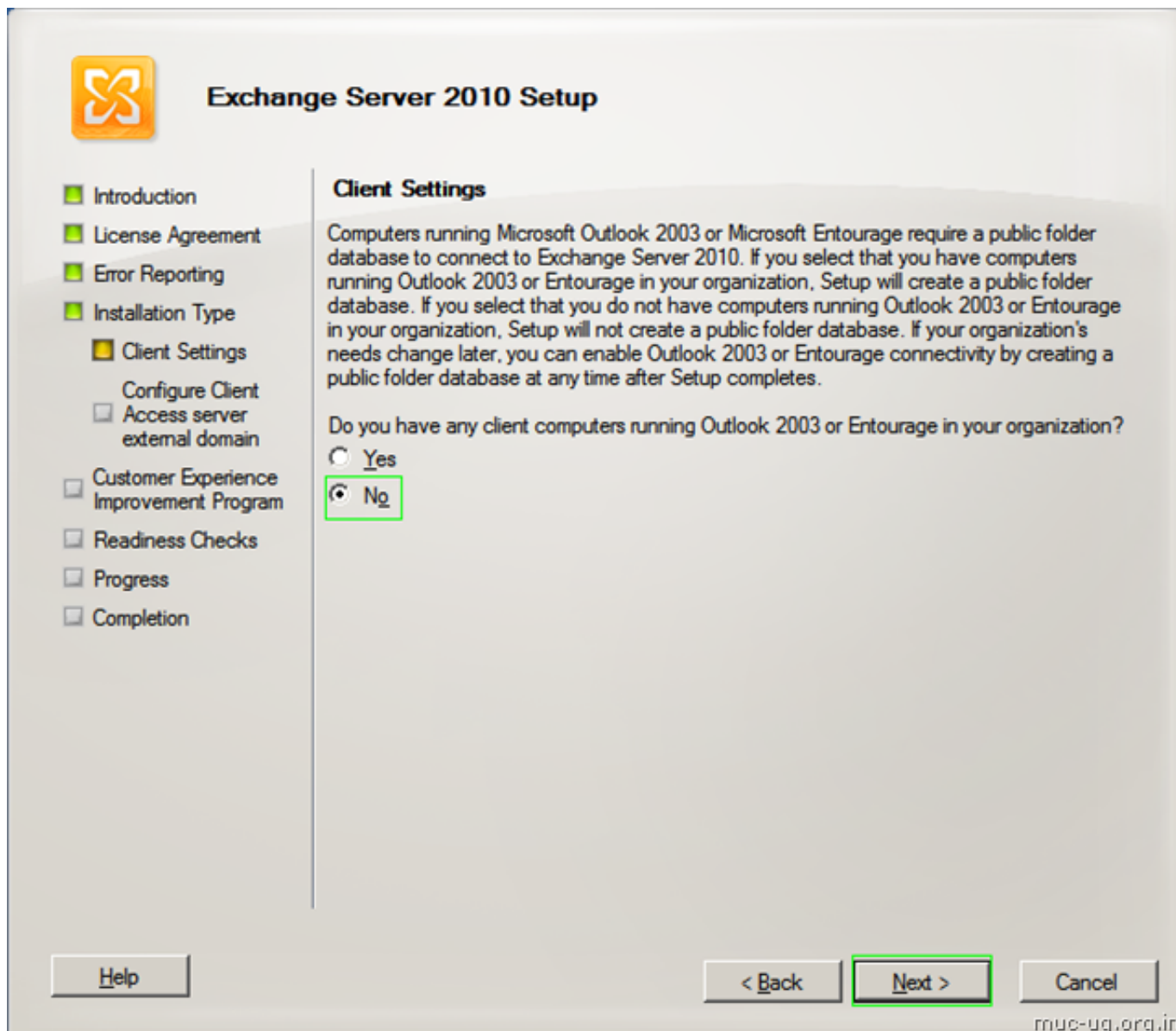
10. Select Typical Exchange Server Installation | Change the Installation Path if required | Click **Next** , This will install the Hub Transport, Client Access, Mailbox and Exchange Management Tools.

Note: Select Custom Exchange Server Installation if you want to install any specific role, As per our scenario we are going to install Typical Exchange installation so I have selected Typical options.



11. Select No | Click Next.

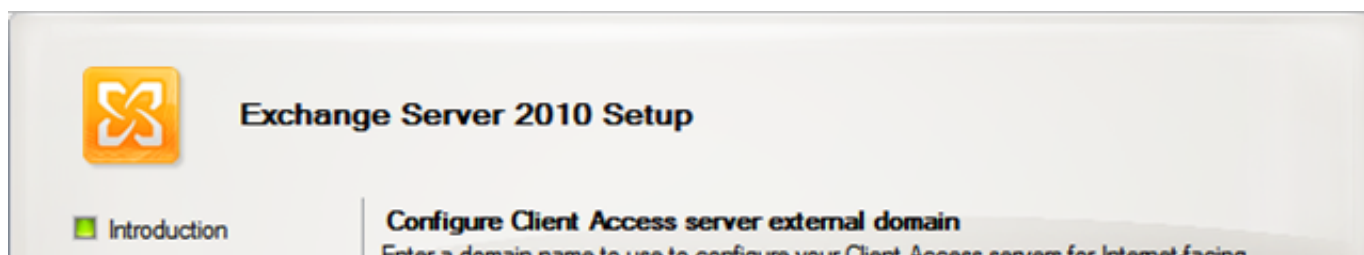
Note: If you are installing Exchange Server 2010 in the existing environment with Public folder database please select **yes**.



The screenshot shows the 'Exchange Server 2010 Setup' window. On the left is a navigation pane with the following items: Introduction, License Agreement, Error Reporting, Installation Type, Client Settings (highlighted), Configure Client Access server external domain, Customer Experience Improvement Program, Readiness Checks, Progress, and Completion. The main area is titled 'Client Settings' and contains the following text: 'Computers running Microsoft Outlook 2003 or Microsoft Entourage require a public folder database to connect to Exchange Server 2010. If you select that you have computers running Outlook 2003 or Entourage in your organization, Setup will create a public folder database. If you select that you do not have computers running Outlook 2003 or Entourage in your organization, Setup will not create a public folder database. If your organization's needs change later, you can enable Outlook 2003 or Entourage connectivity by creating a public folder database at any time after Setup completes.' Below this text is the question 'Do you have any client computers running Outlook 2003 or Entourage in your organization?' with two radio button options: 'Yes' and 'No'. The 'No' option is selected and highlighted with a green box. At the bottom of the window are three buttons: 'Help', '< Back', and 'Next >' (highlighted with a green box), and a 'Cancel' button. The URL 'muc-ug.org.in' is visible in the bottom right corner.

12. Click Next.

Note: If you want to publishing your Client Access server for External access enable “The Client Access server role will be Internet facing” option | set your domain address in the domain name field, this web address will be used to access the Outlook Web App Ex: <https://mail.veera.com>



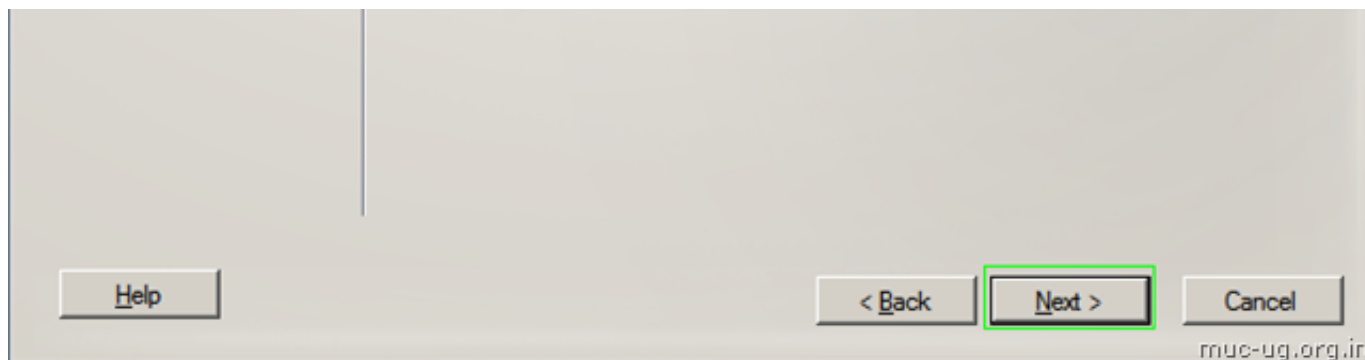
The screenshot shows the 'Exchange Server 2010 Setup' window at the 'Configure Client Access server external domain' step. The navigation pane on the left shows 'Introduction' as the selected item. The main area is titled 'Configure Client Access server external domain' and contains the text: 'Enter a domain name to use to configure your Client Access servers for Internet-facing'. The URL 'muc-ug.org.in' is visible in the bottom right corner.

This screenshot shows the 'Access server external domain' step in the Exchange Server 2010 Setup wizard. On the left, a navigation pane lists the following steps: License Agreement, Error Reporting, Installation Type, Client Settings, Configure Client, Access server external domain (highlighted), Customer Experience Improvement Program, Readiness Checks, Progress, and Completion. The main area contains the following text: 'Enter the domain name you will use with your external Client Access servers (for example, mail.contoso.com):'. Below this text is an empty text input field. There are three checkboxes: 'The Client Access server role will be Internet-facing.' (unchecked), and 'Customer Experience Improvement Program' (unchecked). At the bottom, there are three buttons: 'Help', '< Back', and 'Next >' (highlighted with a green box), and a 'Cancel' button. The URL 'muc-ug.org.in' is visible in the bottom right corner.

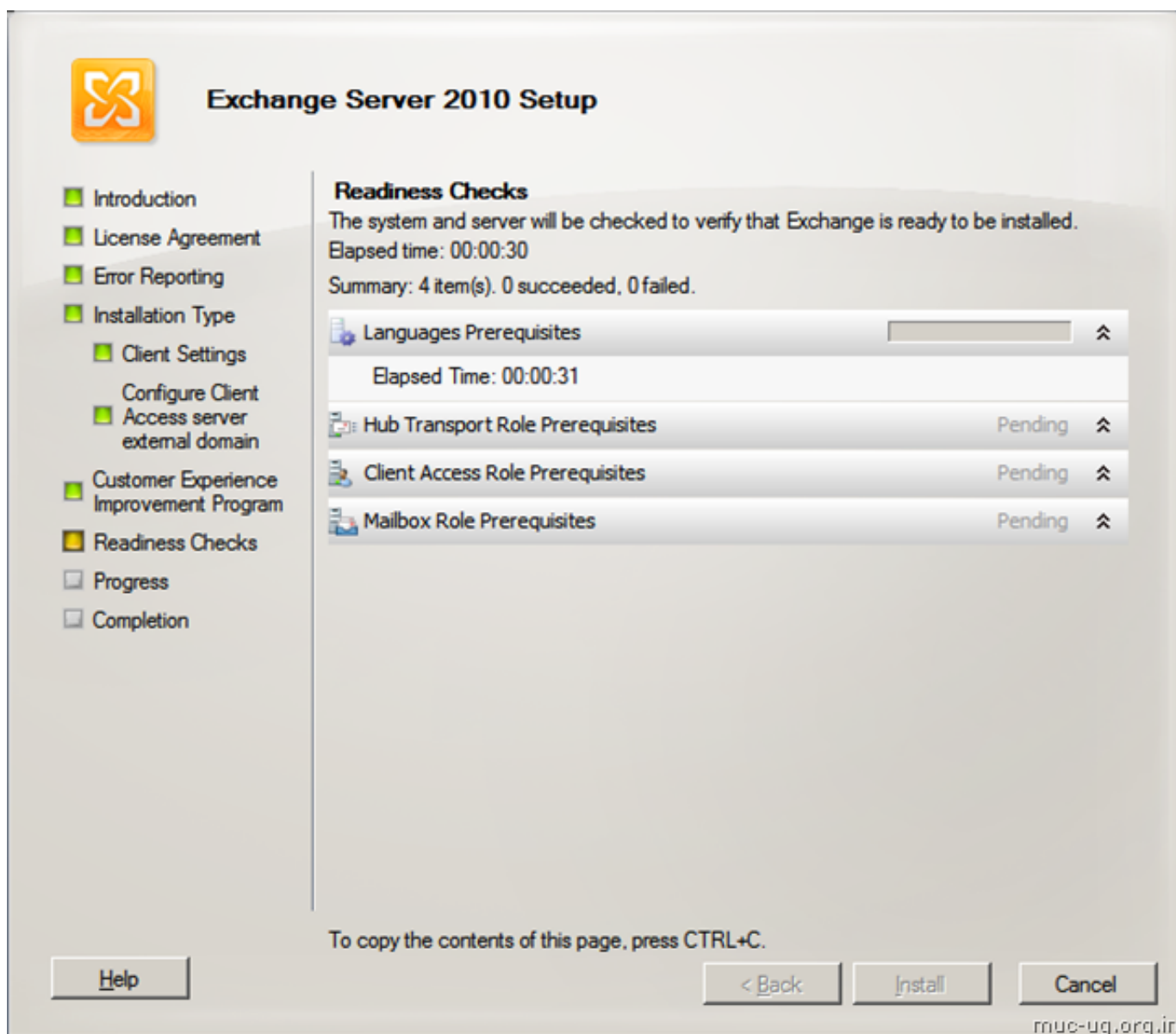
13. Select I don't wish to join the program at this time | Click Next.

Note: You can choose "CEIP" if you wish to join the program.

This screenshot shows the 'Customer Experience Improvement Program' step in the Exchange Server 2010 Setup wizard. The left navigation pane lists: Introduction, License Agreement, Error Reporting, Installation Type, Client Settings, Configure Client, Access server external domain, Customer Experience Improvement Program (highlighted), Readiness Checks, Progress, and Completion. The main area is titled 'Customer Experience Improvement Program' and contains the following text: 'The Customer Experience Improvement Program (CEIP) collects information about how you use Microsoft Exchange in your organization. The information that is collected helps Microsoft identify which Microsoft Exchange features to improve. No information collected is used to identify you, to contact you, or for any other reason.' Below this, it says: 'If you click Join the Customer Experience Improvement Program, this Exchange 2010 server will be included in the program. You can opt-out from joining at any time via the Community and Feedback tab of the Exchange Management Console.' and 'If you click I don't want to join the program at this time, this Exchange 2010 server will not be included in the program.' There are two radio buttons: 'Join the Exchange Customer Experience Improvement Program (CEIP)' (unchecked) and 'I don't wish to join the program at this time' (checked and highlighted with a green box). Below the radio buttons are two links: 'Read the CEIP Privacy Statement' and 'Tell me more about the CEIP'.

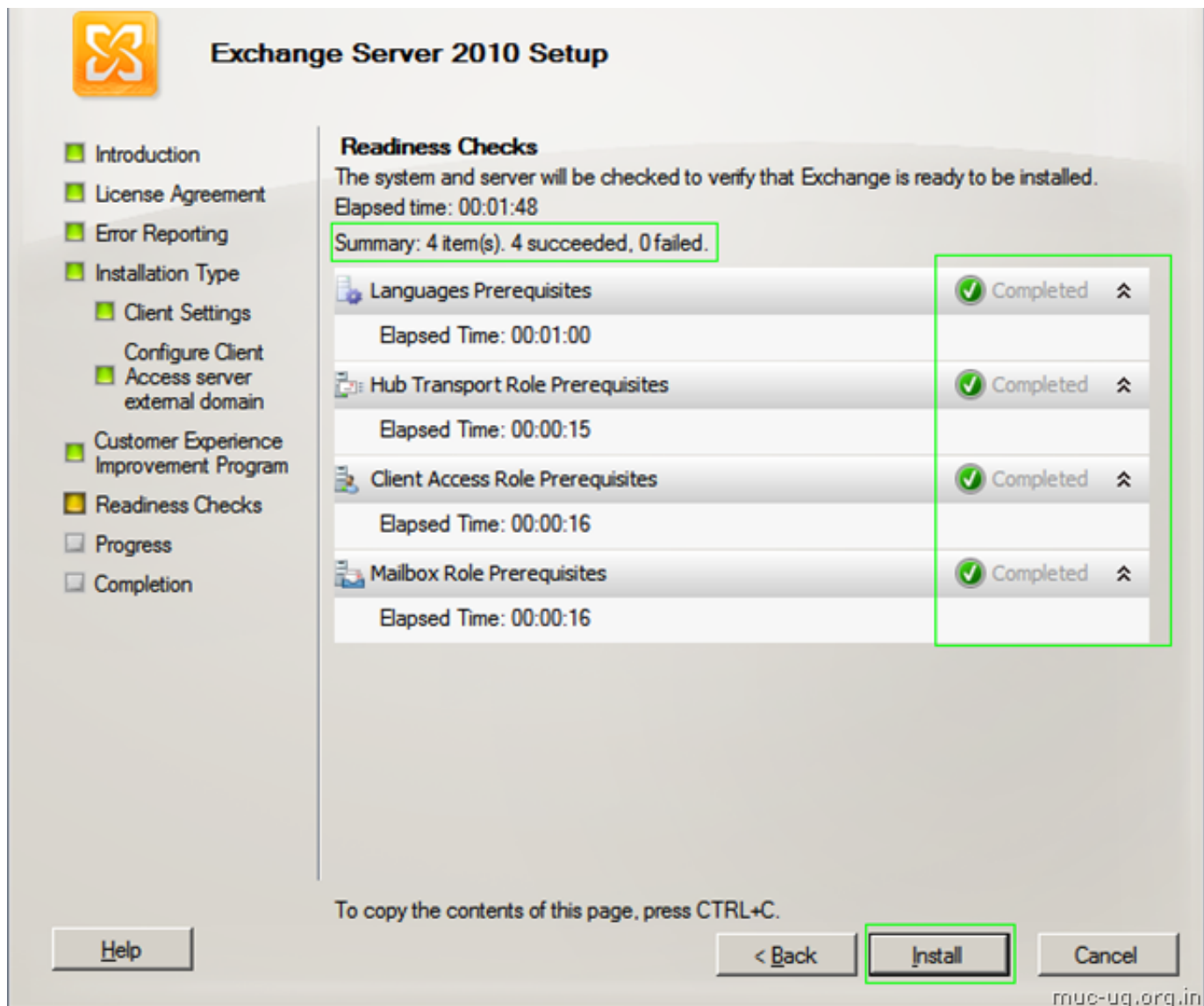


14. The Readiness Checks process will check the existing environment and provide you appropriate error or warning.



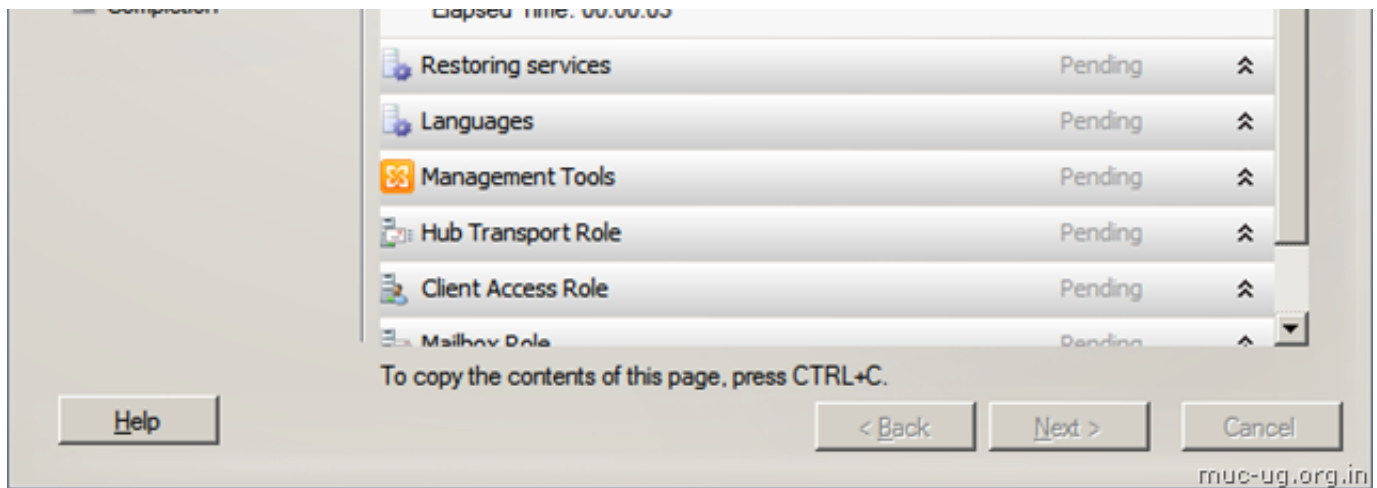
15. Great :) !!!, Readiness check **succeeded** | Click **Install**.

Note: If you get any error in this step, Please solve the error otherwise the setup will not allow you to proceed further until you solve the error.

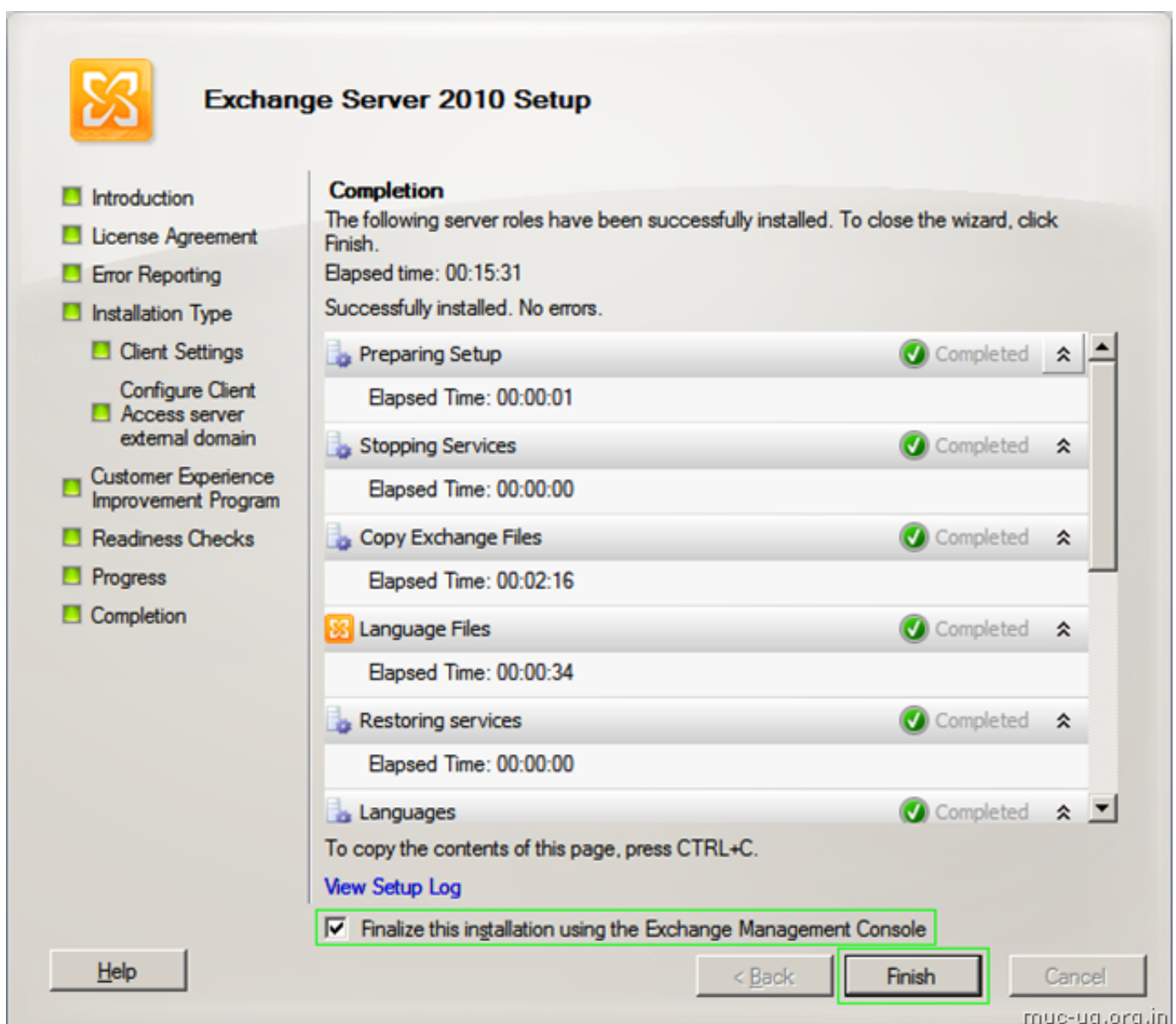


16. Installation going on ...



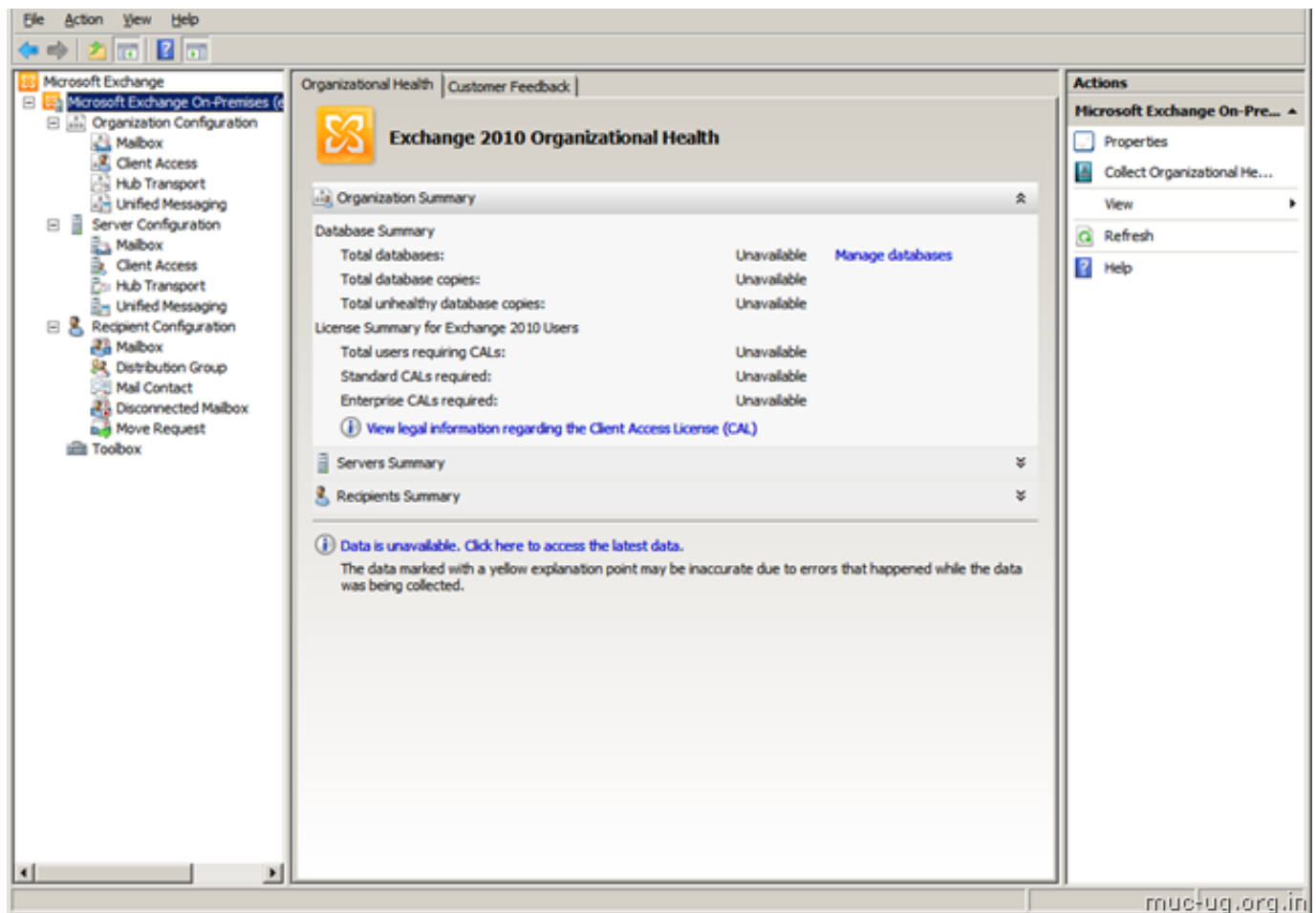


17. Check **Finalize this installation using the Exchange Management Console** | Click **Finish**, Verify installation completed without any errors.



18. That's it !!!! We have successfully installed the Exchange Server 2010.





19. Step 4 and Step 5 is for Exchange server 2010 update purpose | Click **Close**.



Plan

- Read about Microsoft Exchange Server 2010
- Read about deploying languages
- Read the Microsoft Exchange release notes

Install

- Step 1: Install .NET Framework 3.5 SP1 - Installed
- Step 2: Install Windows PowerShell v2 - Installed
- Step 3: Choose Exchange language option
- Step 4: Install Microsoft Exchange**
- Step 5: Get critical updates for Microsoft Exchange**

Enhance

- Install Microsoft Forefront Protection 2010 for Exchange Server

Read the Microsoft Exchange release notes



References:

- [Exchange 2010 Prerequisites](#)
- [Prepare Active Directory and Domains](#)

Downloads:

- [.NET Framework 3.5 Service Pack 1 \(SP1\)](#)
- [2007 Office System Converter: Microsoft Filter Pack](#)
- [Windows Management Framework \(Windows PowerShell 2.0, WinRM 2.0, and BITS 4.0\)](#)
- [Microsoft Exchange Server 2010](#)
- [Microsoft Exchange Server 2010 Language Pack Bundle](#)

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