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 Tolls

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

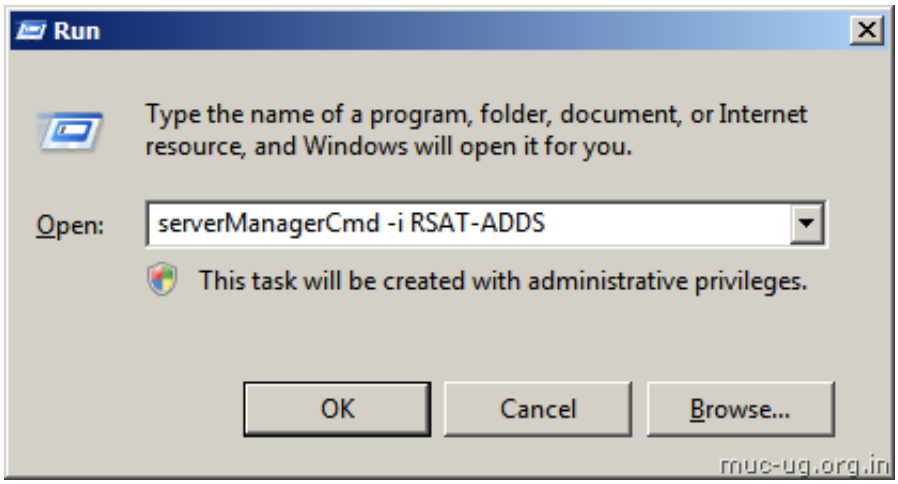
Prepare - Active Directory and Domains:

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

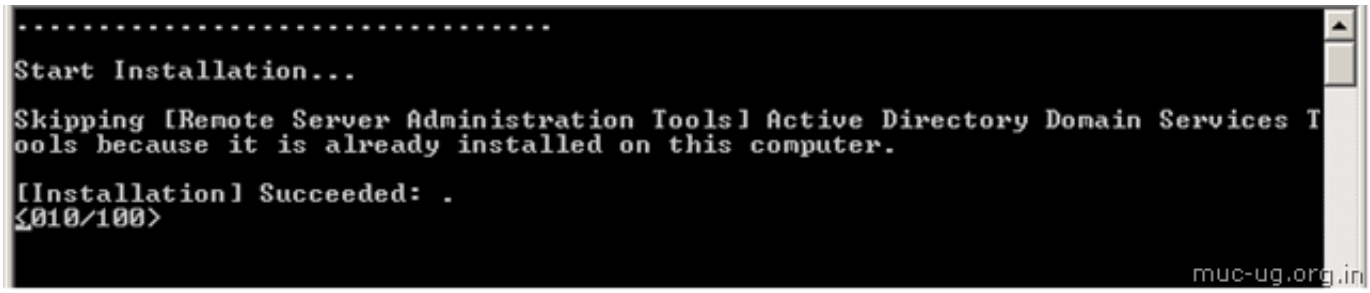
1. To perform this tasks we need an User ID with **Schema Admins**, **Domain Admins** and **Enterprise Admins** group membership.

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.

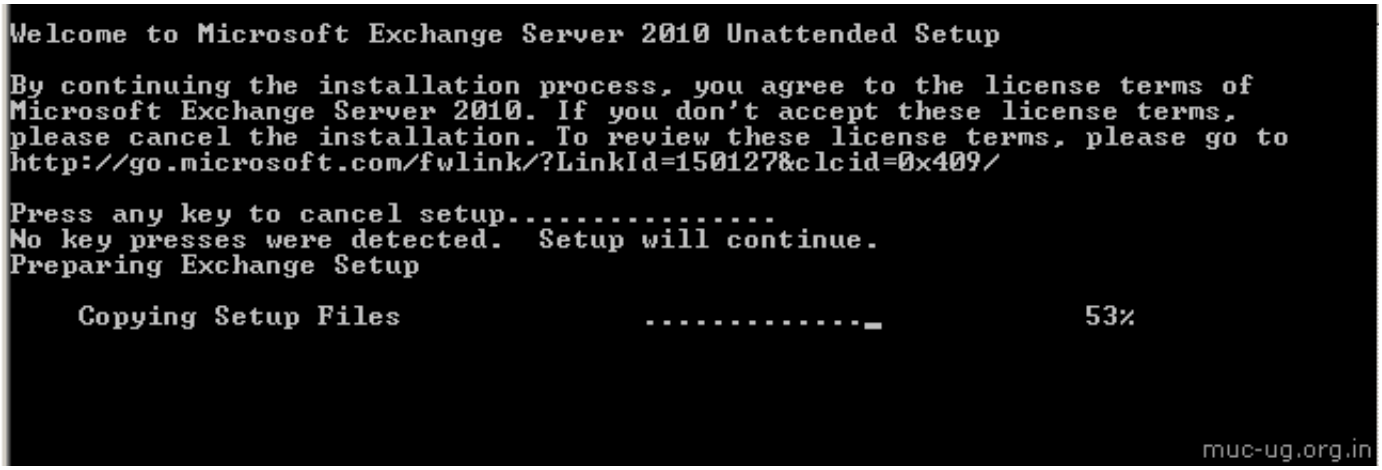


4. In the Active Directory Domain Server run the following command.

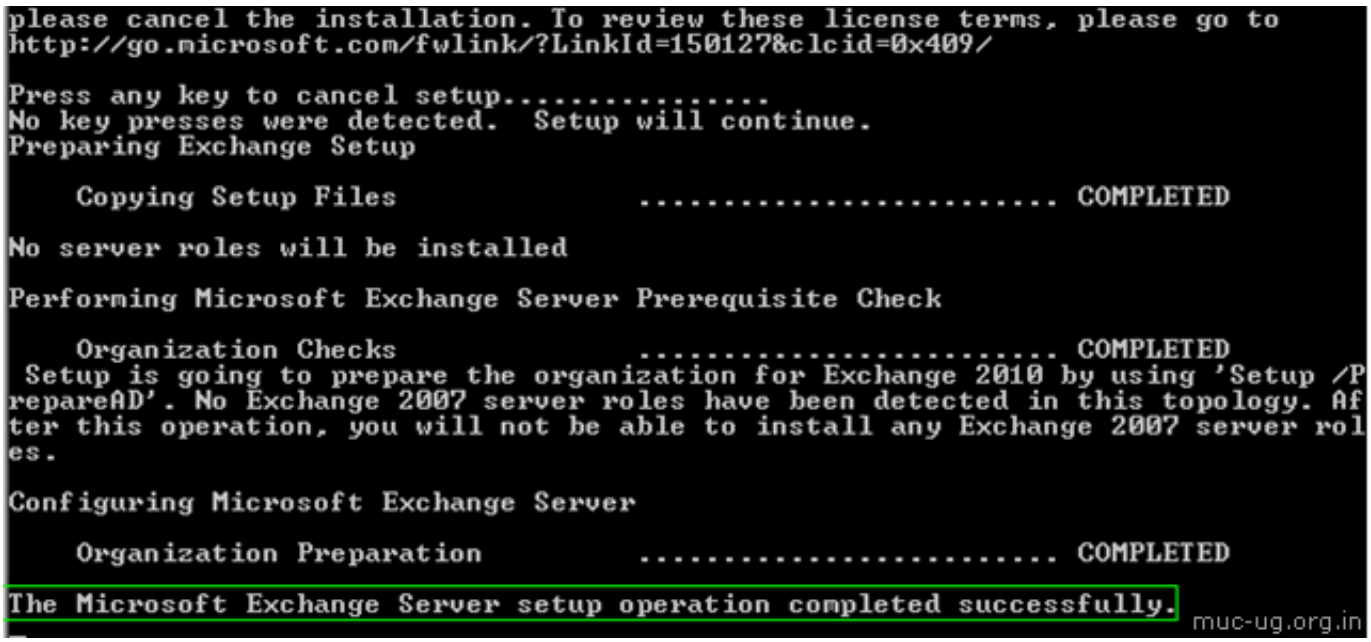
setup /PrepareAD /OrganizationName: or **setup /p /on:**

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"

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



6. Verify Schema Update Completed successfully.



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**

	x64 **(Standard or Enterprise)**	**(Standard or Enterprise)**
Typical installation of Client Access, Hub Transport, and the Mailbox role	sc config NetTcpPortSharing start= auto ServerManagerCmd -ip Exchange-Typical.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
Client Access, Hub Transport, Mailbox, and Unified Messaging server roles	sc config NetTcpPortSharing start= auto ServerManagerCmd -i Desktop-Experience ServerManagerCmd -ip Exchange-Typical.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,Desktop-Experience –Restart
Client Access and Hub Transport server roles	sc config NetTcpPortSharing start= auto ServerManagerCmd -ip Exchange-Typical.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 and Mailbox server roles	ServerManagerCmd -ip Exchange-Typical.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
Client Access and Mailbox server roles	sc config NetTcpPortSharing start= auto ServerManagerCmd -ip Exchange-Typical.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

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)

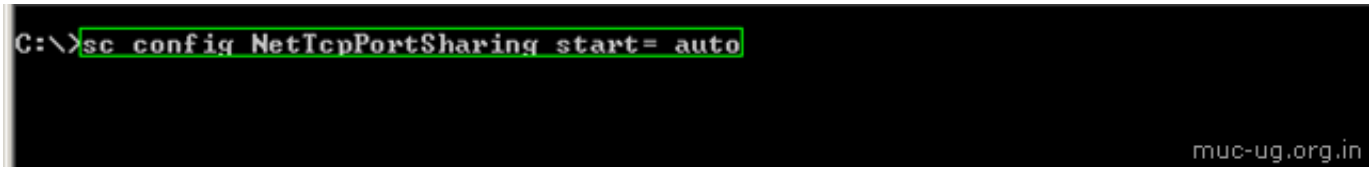
1. To perform this tasks we need an User ID with **Schema Admins**, **Domain Admins** and **Enterprise Admins** group membership

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

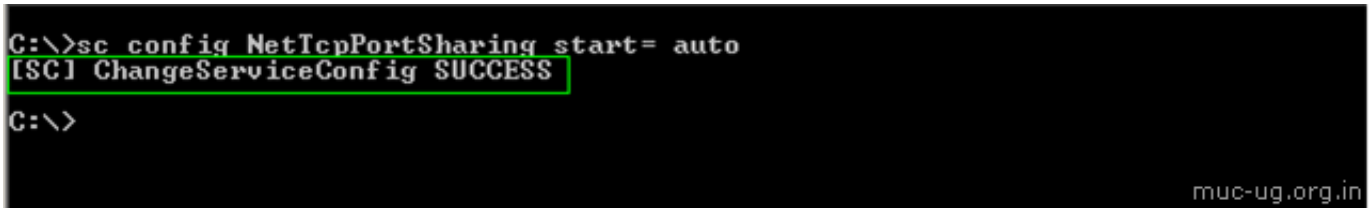
2. (As per Lab setup I have started this installation in **EX2010** Server)

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**



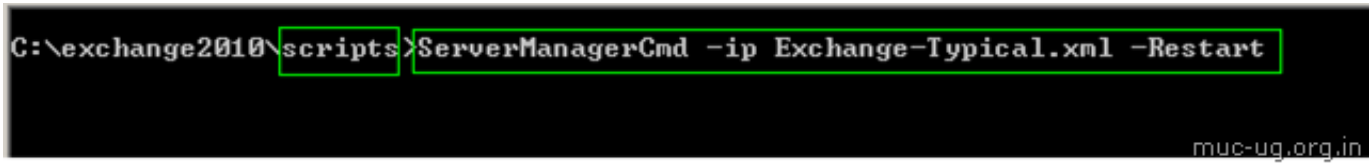
3. Verify Command completed successfully.



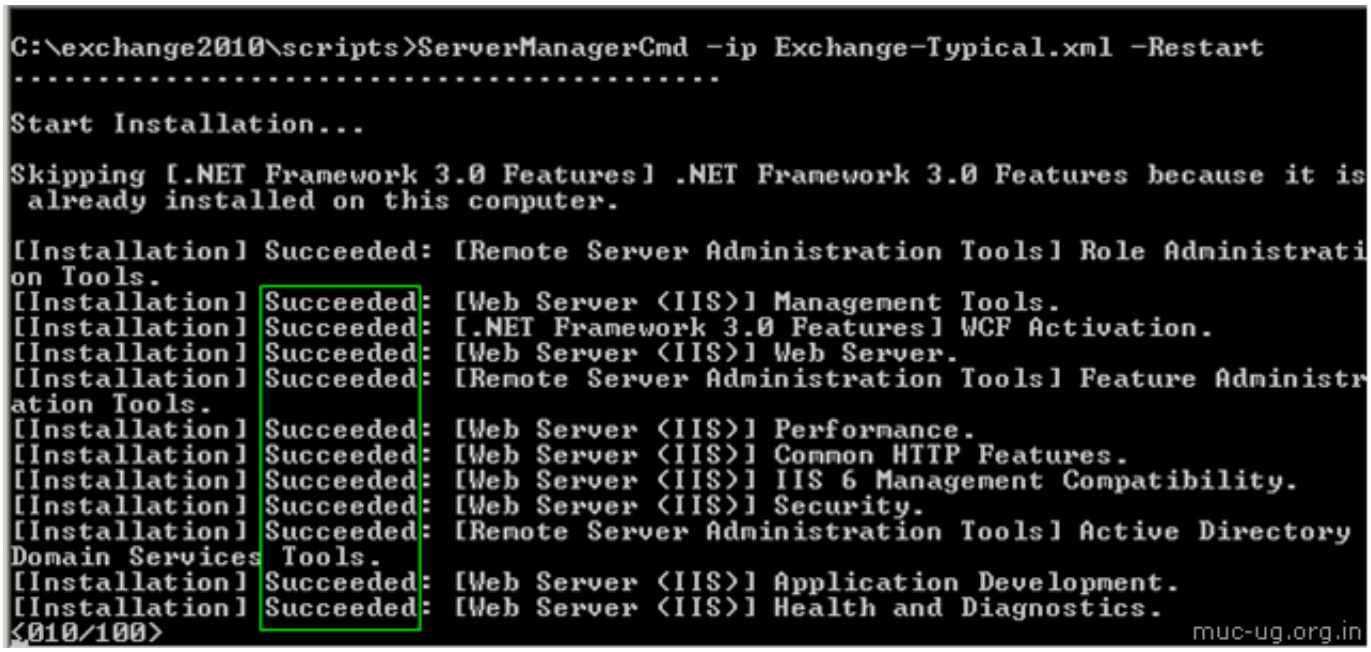
4. Browse to Exchange 2010 Binaries Run the Below command.

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.



5. Verify all Exchange 2010 Server Prerequisite installed successfully.



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

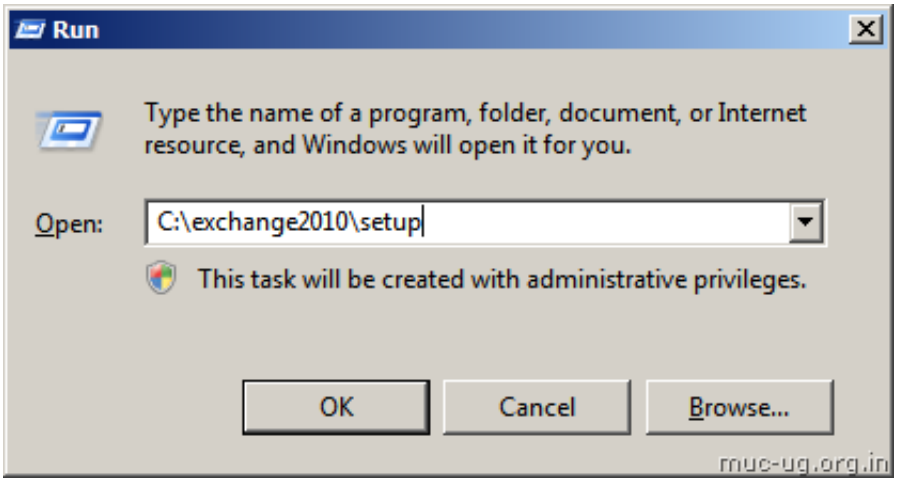
We have completed our environment Preparation and the Server Preparation now we can go ahead and install the Exchange server 2010.

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

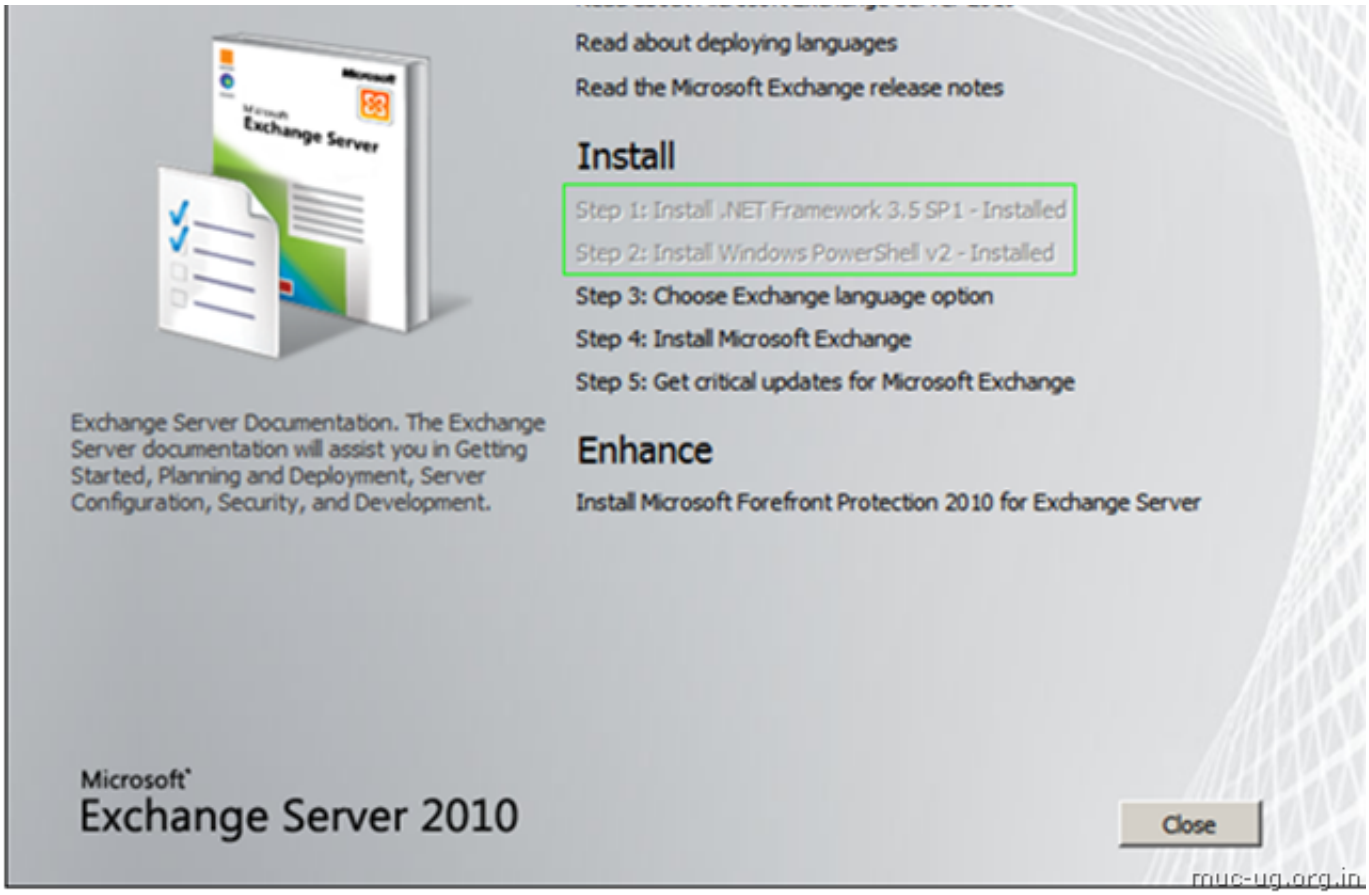
1. To perform this tasks we need an User ID with **Schema Admins**, **Domain Admins**, **Enterprise Admins** and **Local Administrators** groups membership.

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.

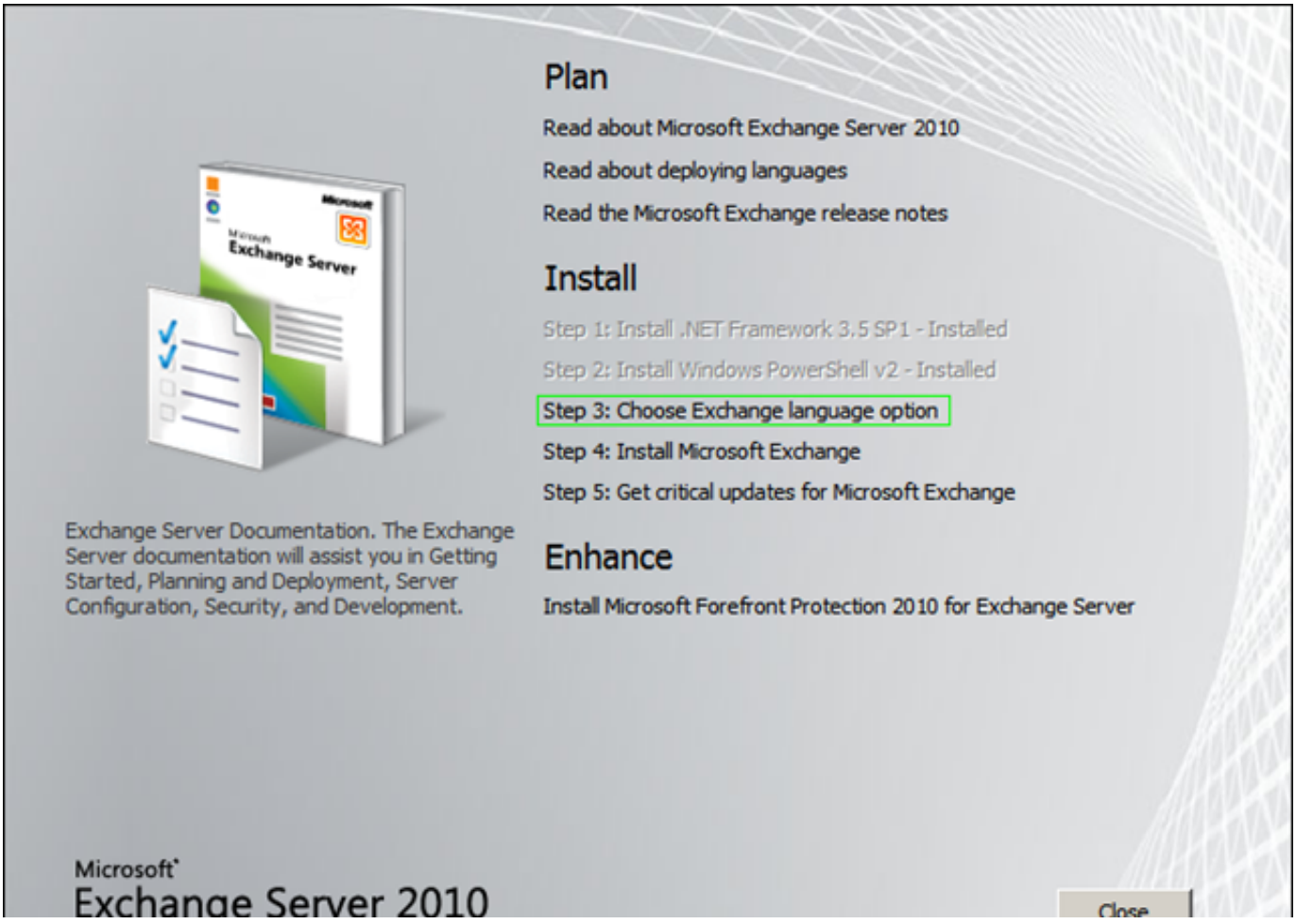
Note: In my Lab setup I have extracted the binaries to C:**exchange2010** folder.



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



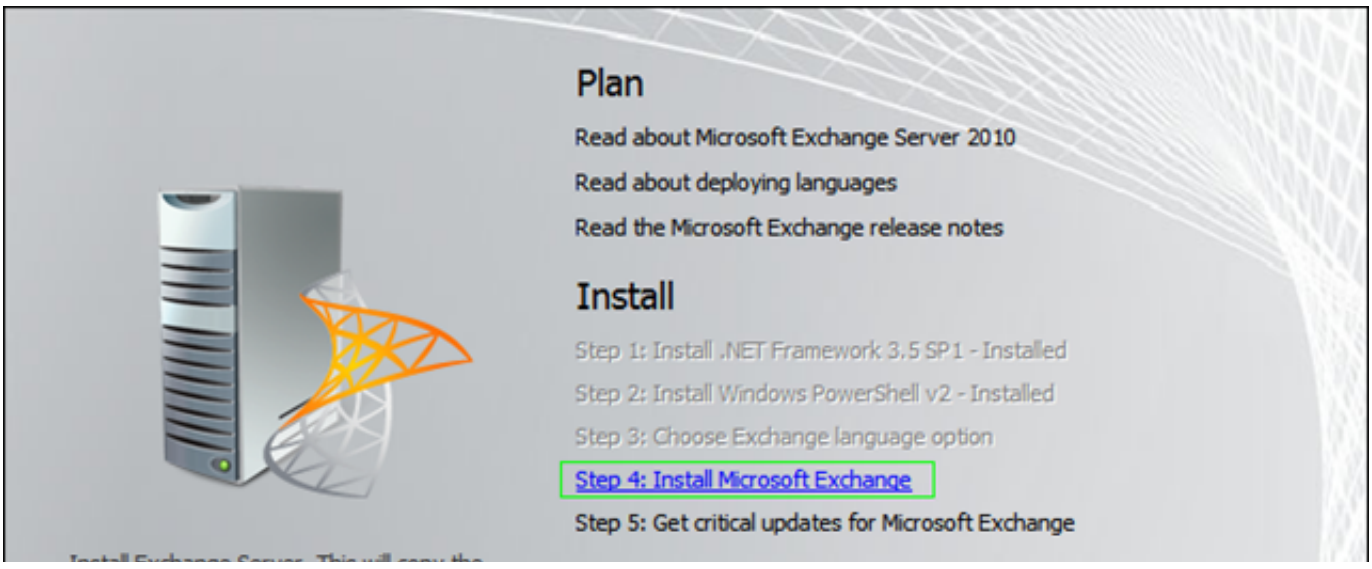
4. Click **Step 3: Choose Exchange language options.**

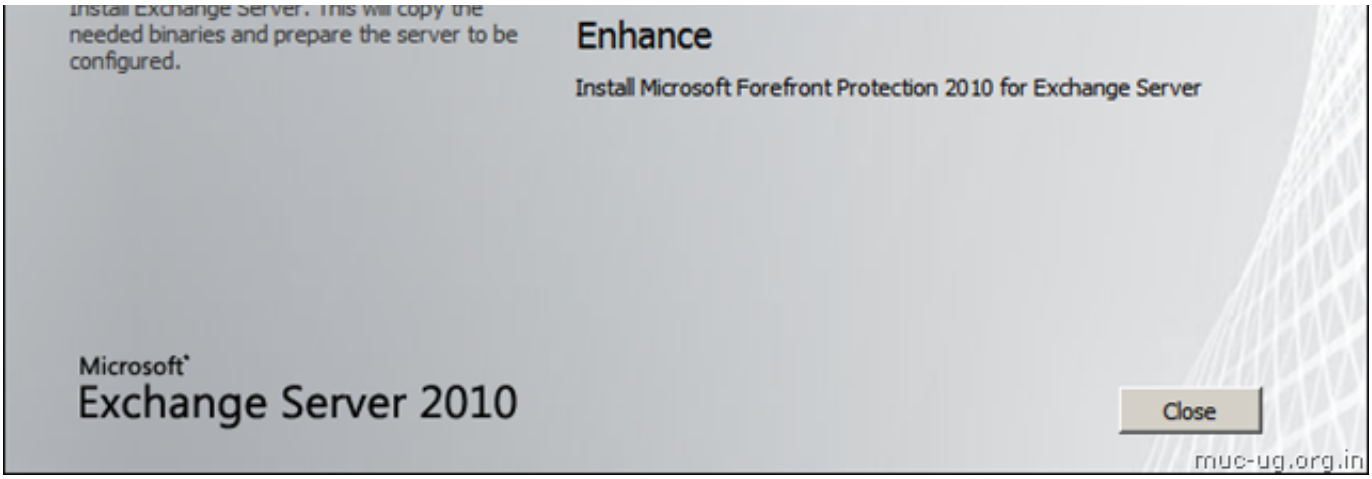


5. Select **Install only languages from the DVD.**

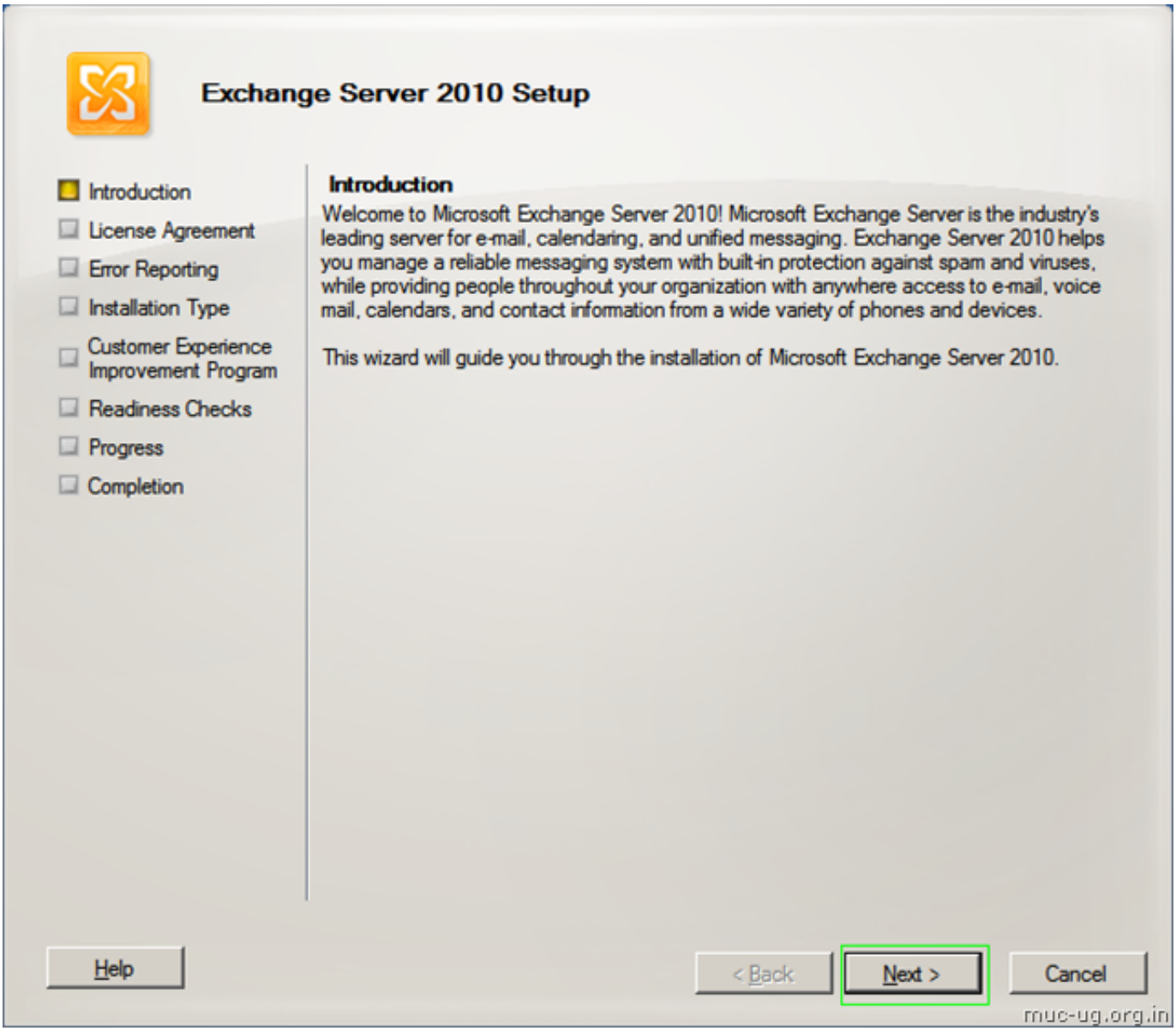
Note: You can choose the "Install all languages from the language bundle" if you have download the languages pack from Microsoft site [Click Here to download the language bundle pack](#).

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

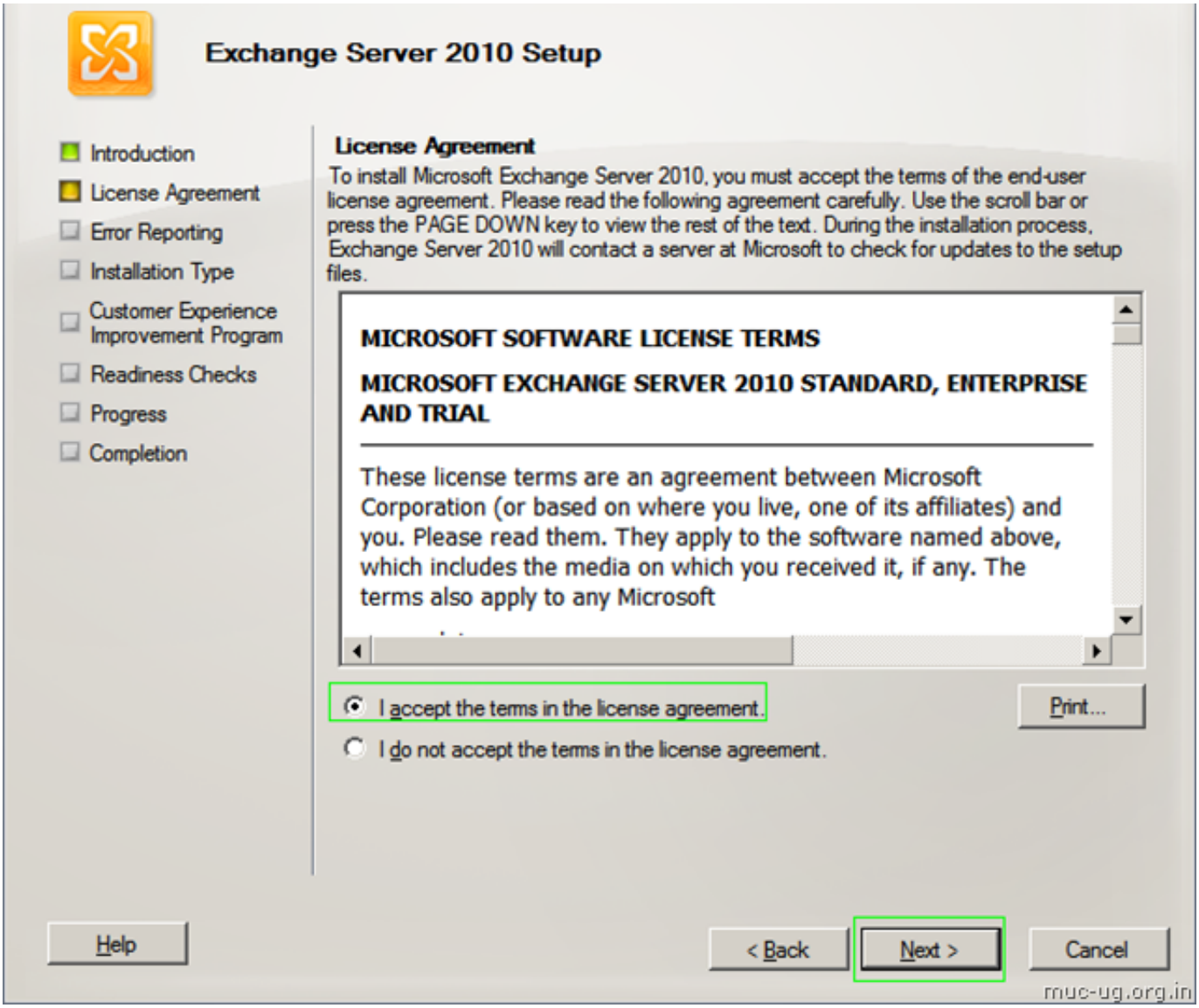




7. Click **Next** to proceed.

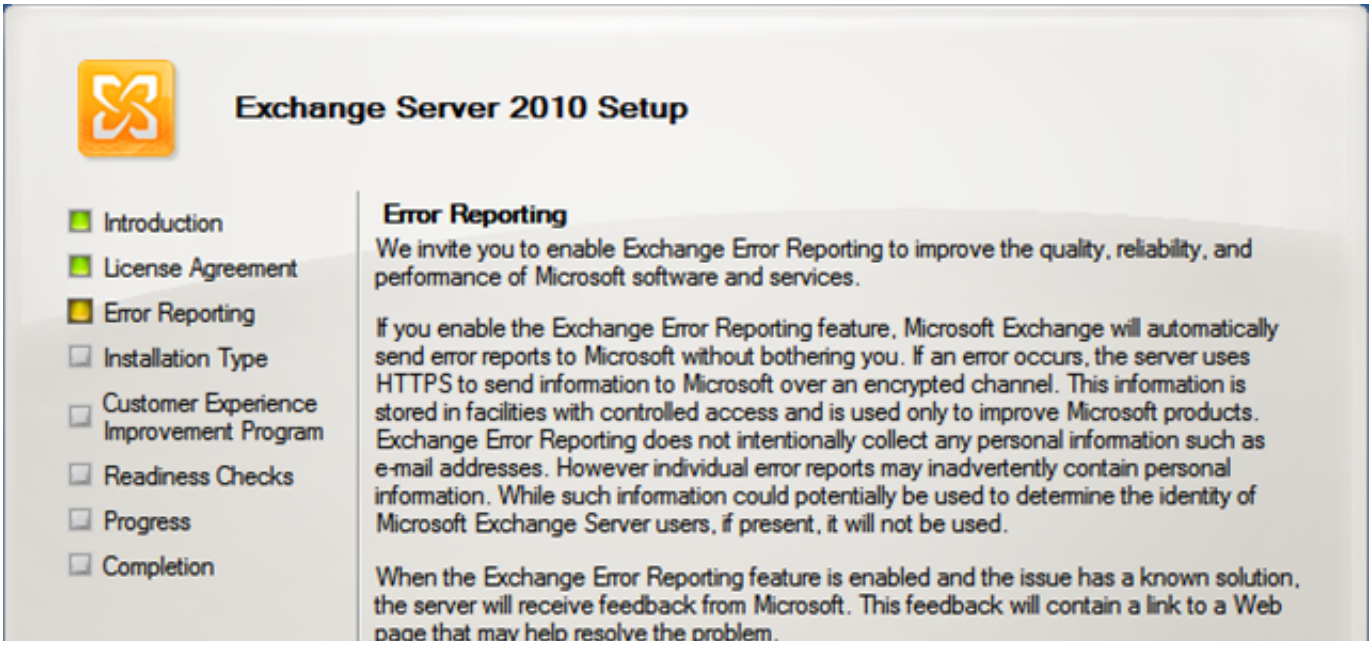


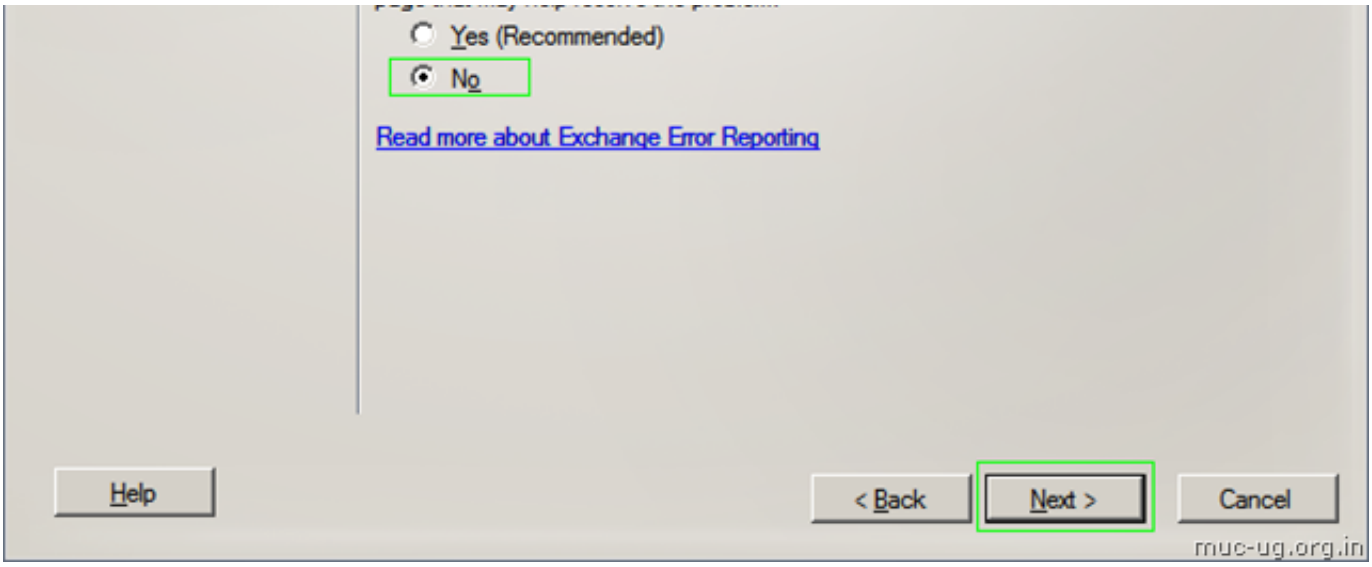
8. Read the Microsoft License Agreement | Select **I accept the terms in the license agreement** | Click **Next.**



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

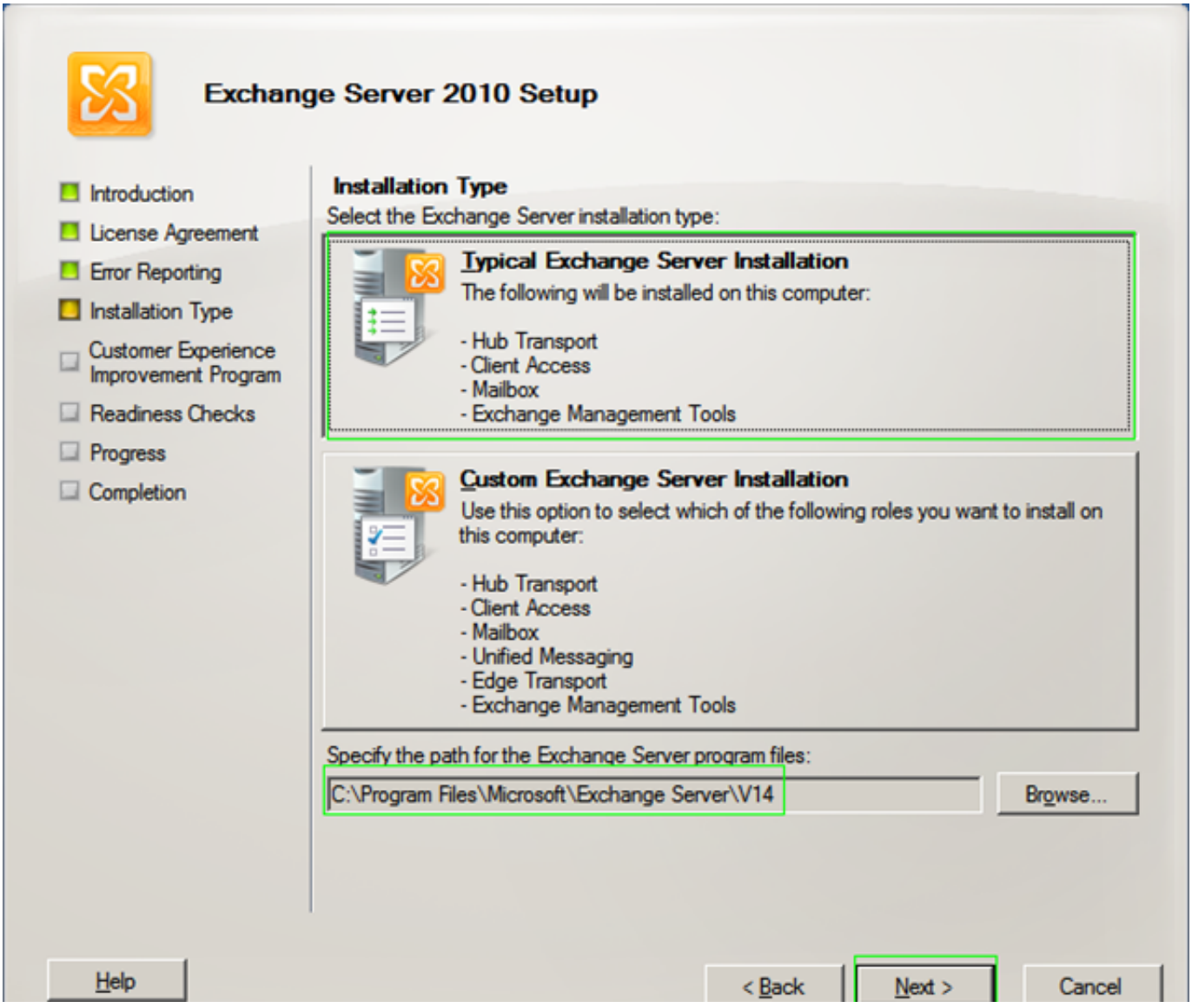
Note: You can choose yes if you wish to enable the error reporting.





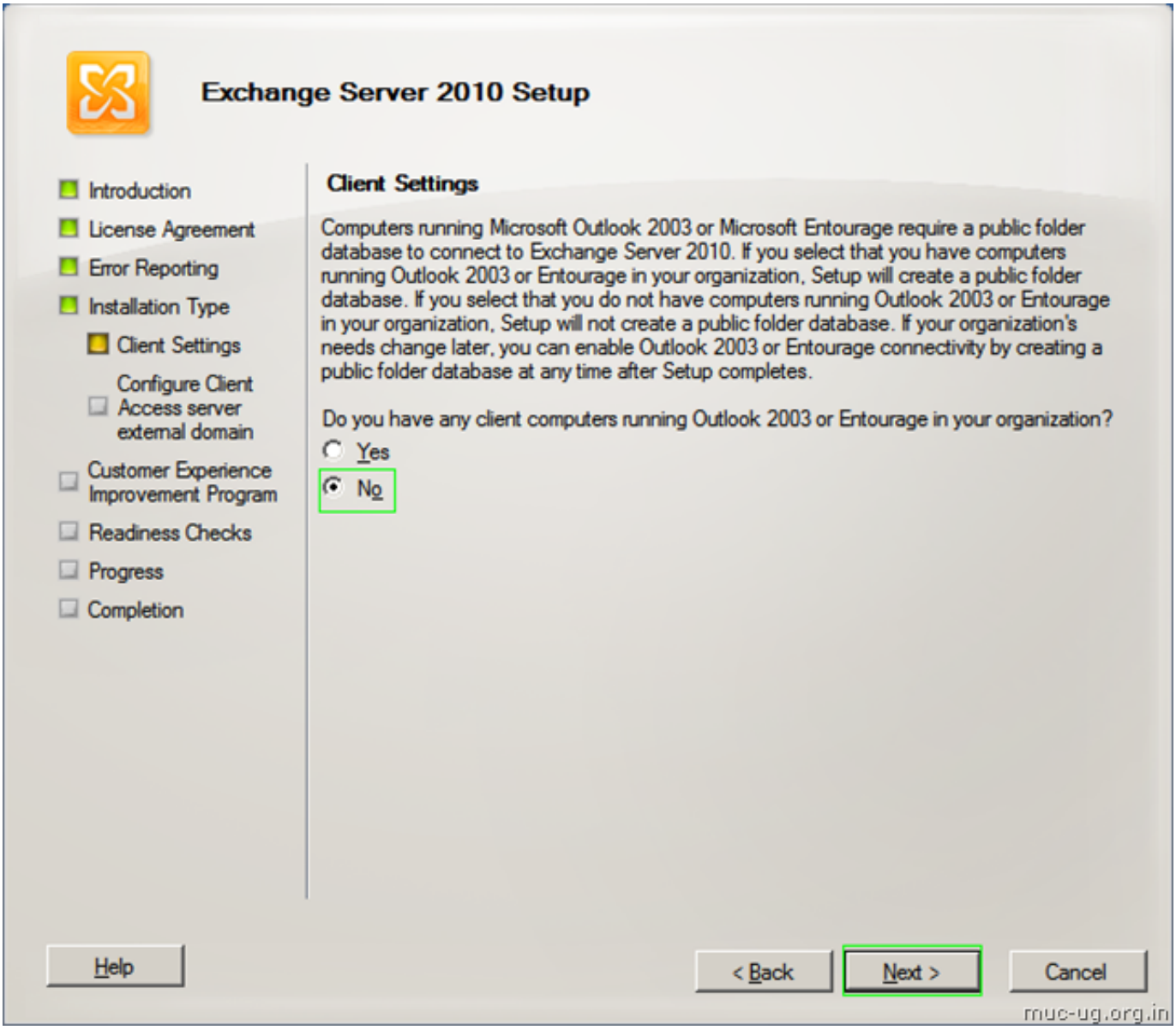
10. Select **Typical Exchange Server Installation** | Change the Installation Path if required | Click **Next** , This will install the Hub Transport, Client Access, Mailbox and Exchange Management Tools.

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.



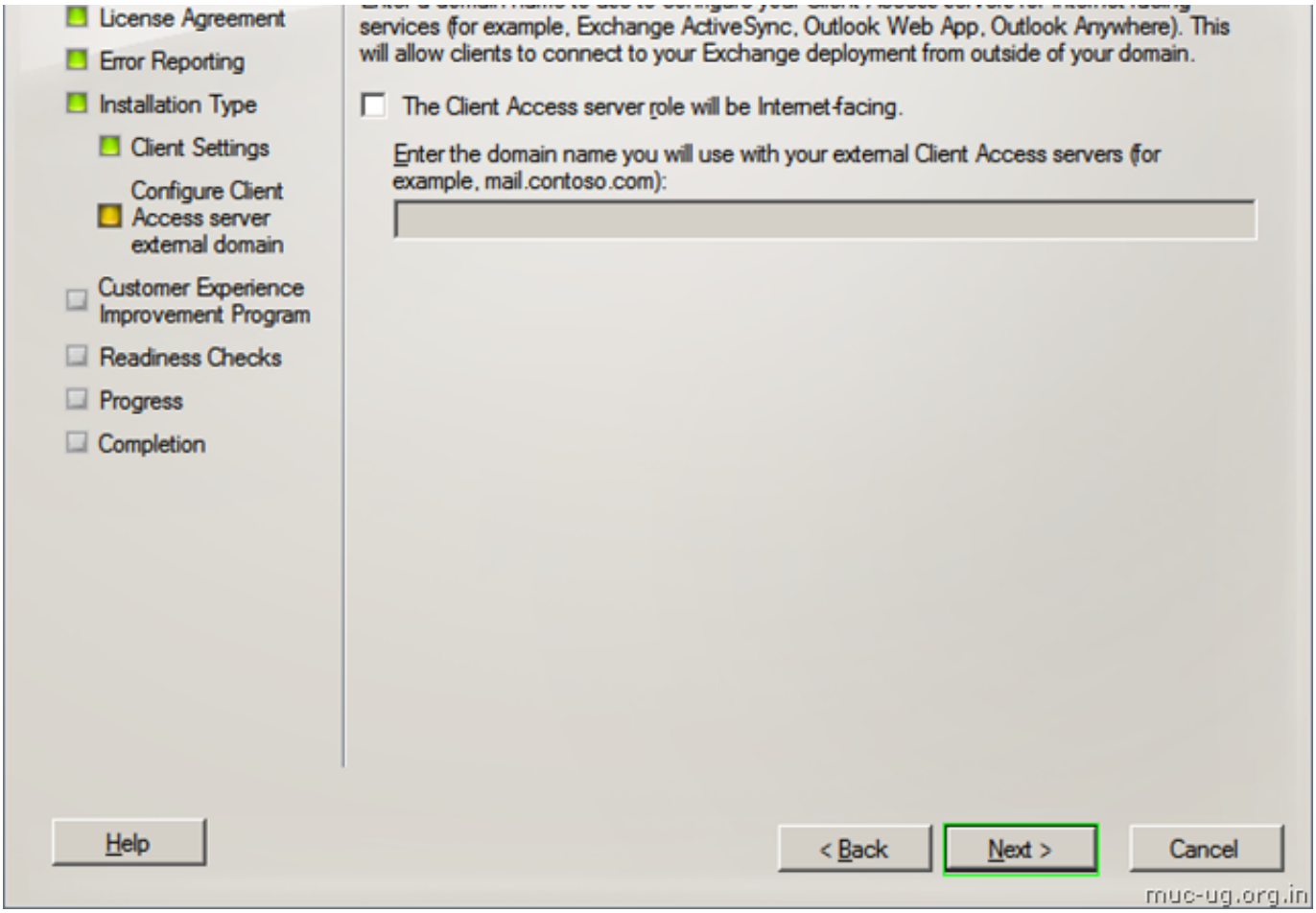
11. Select **No** | Click **Next.**

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



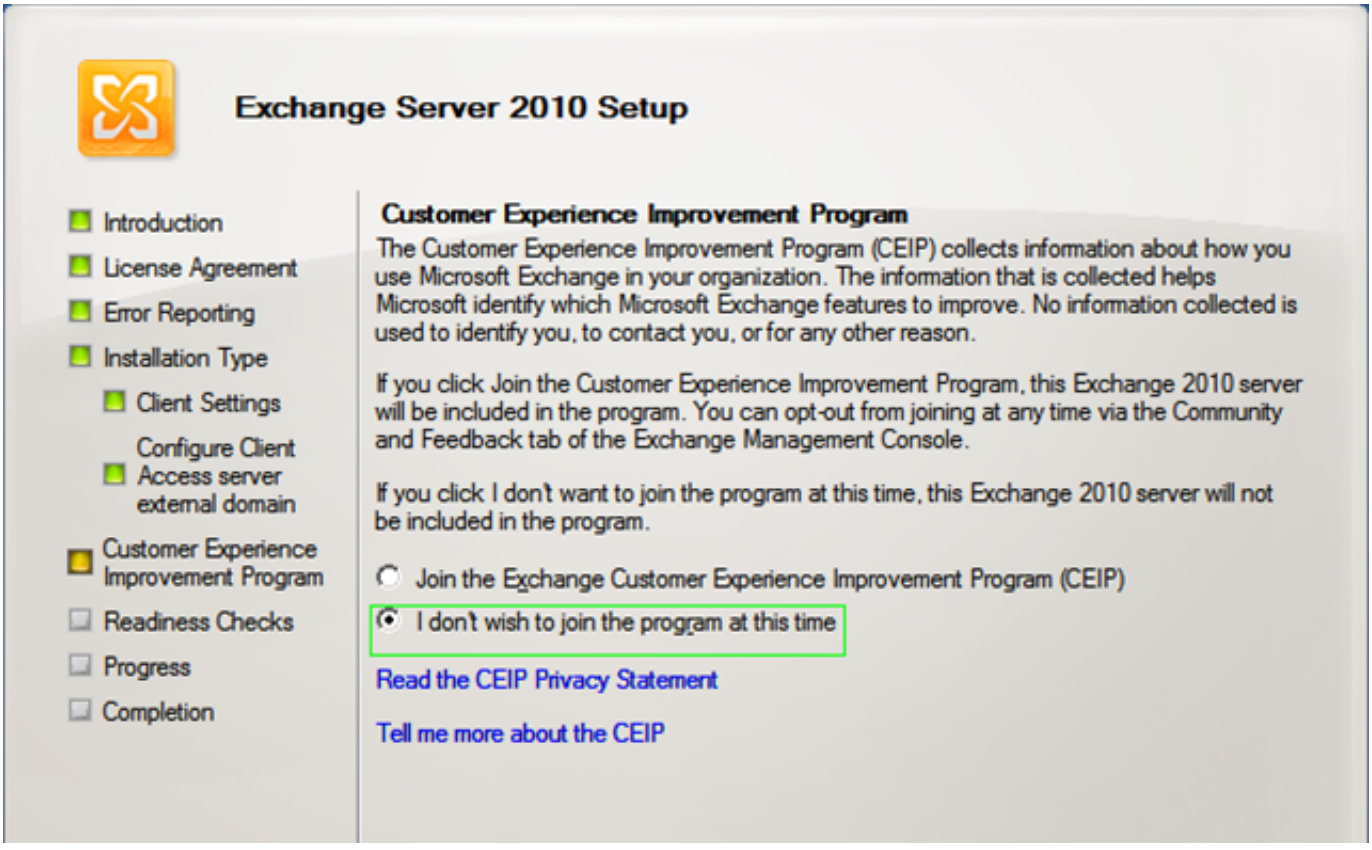
12. Click **Next.**

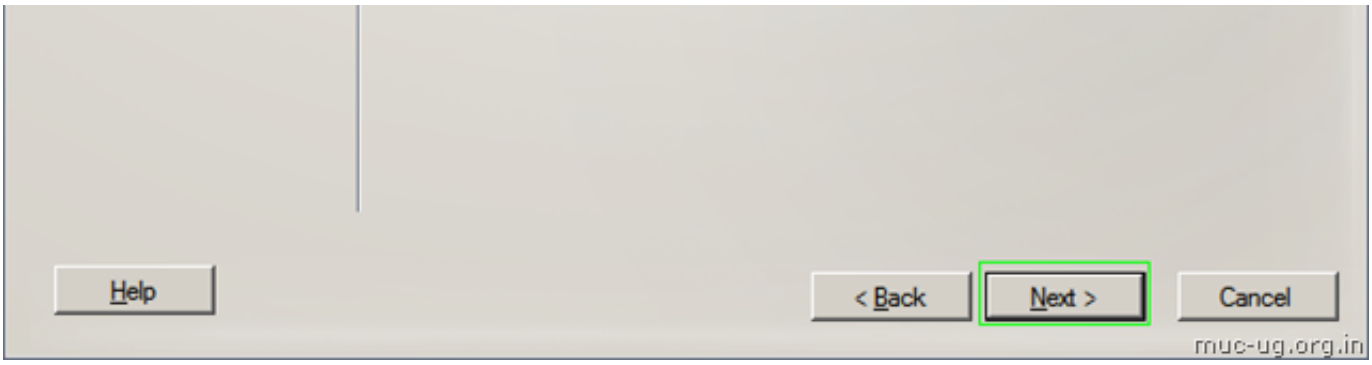
Note: If you want to publishing your Client Access server for External access enable "The Client Access server role will be Internet facing" option | set your domain address in the domain name field, this web address will be used to access the Outlook Web App Ex: https://mail.veera.com



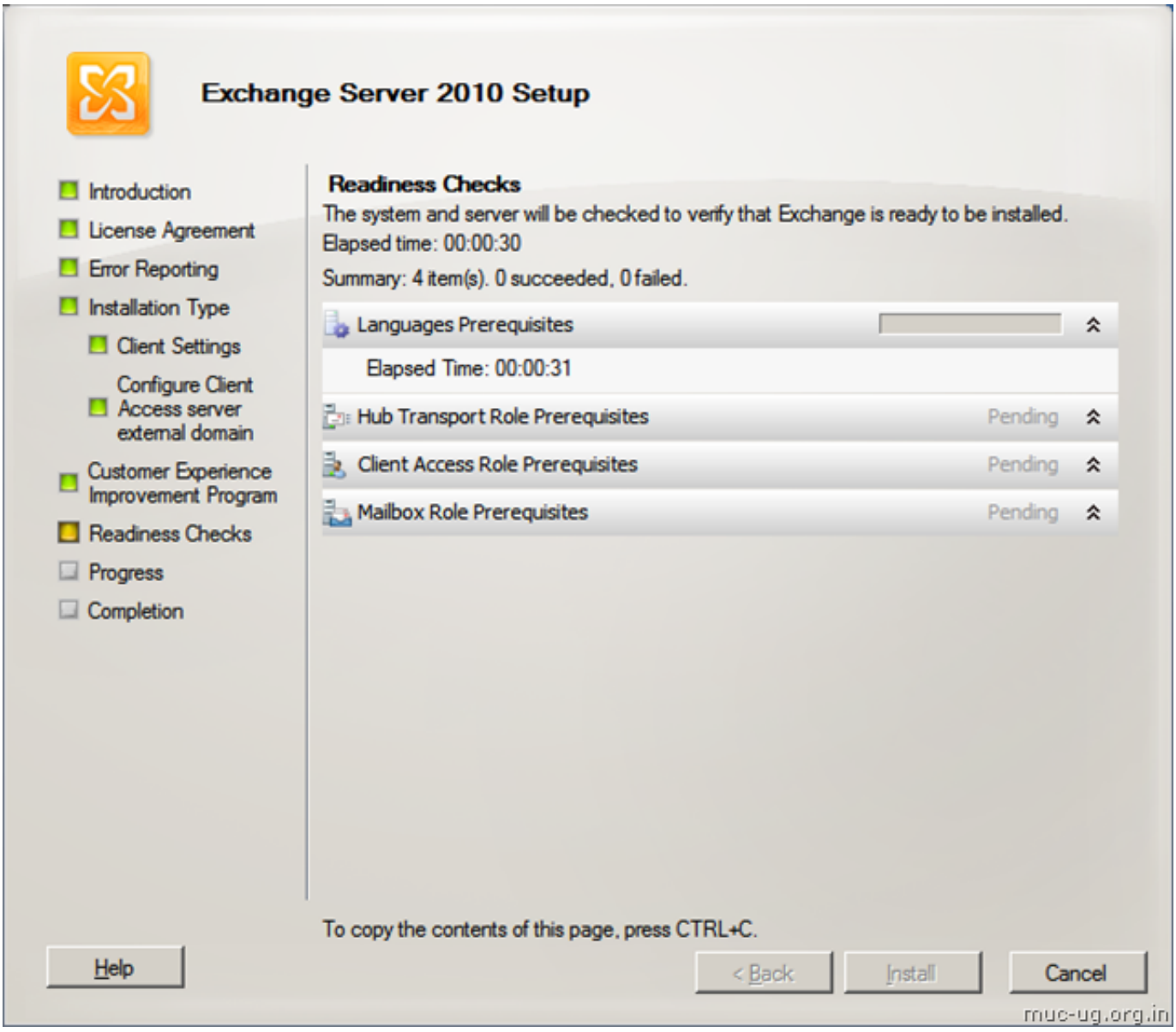
13. Select **I don't wish to join the program at this time** | Click **Next.**

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



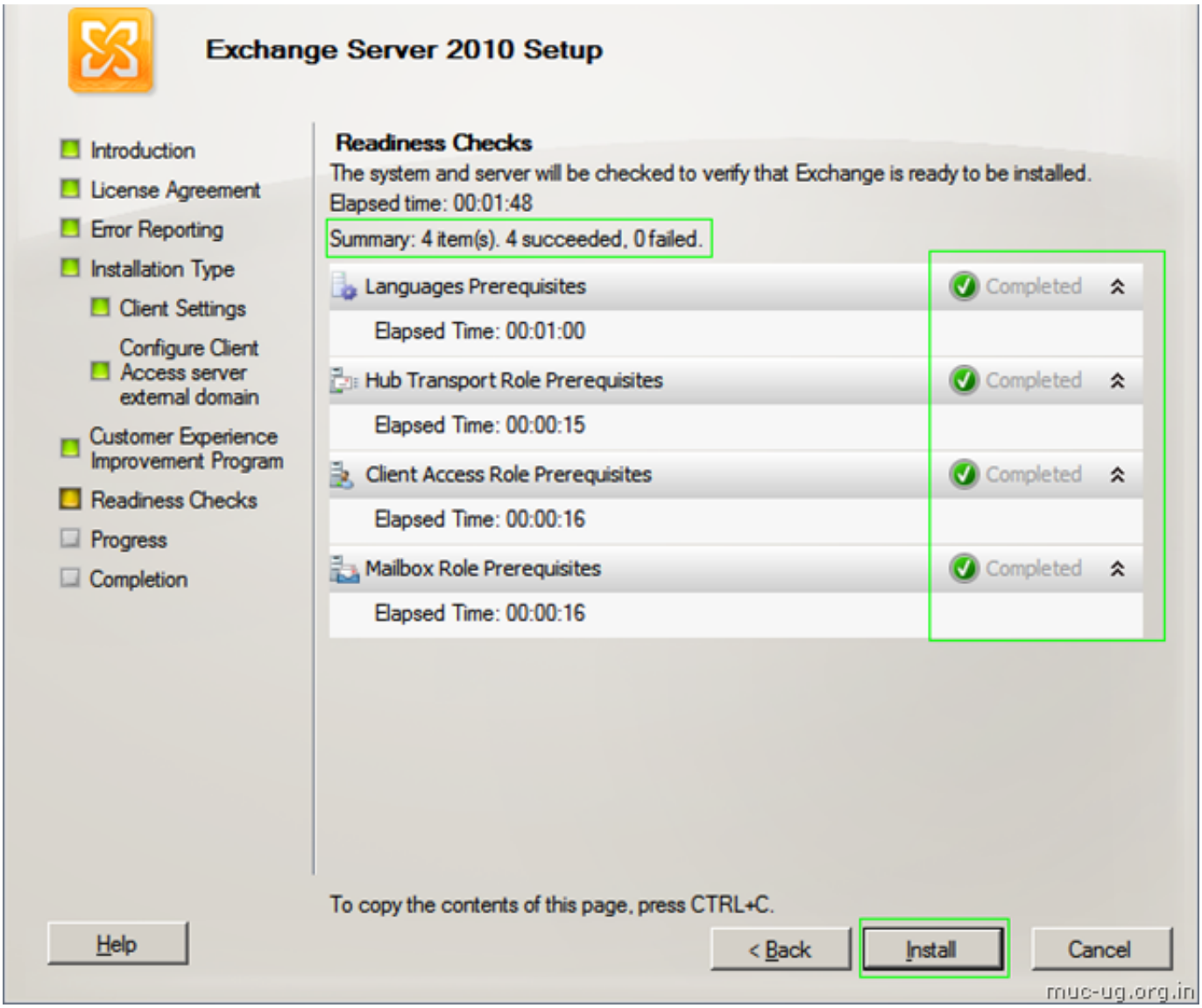


14. The Readiness Checks process will check the existing environment and provide you appropriate error or warning.

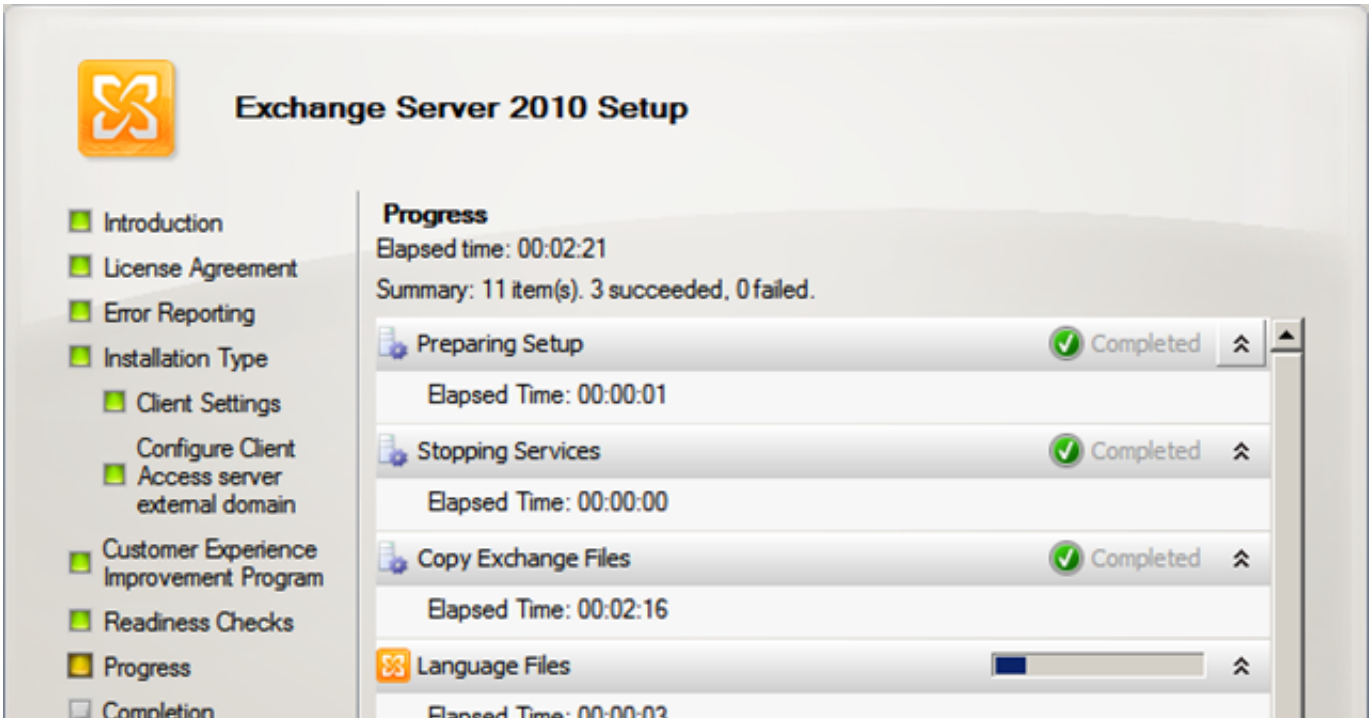


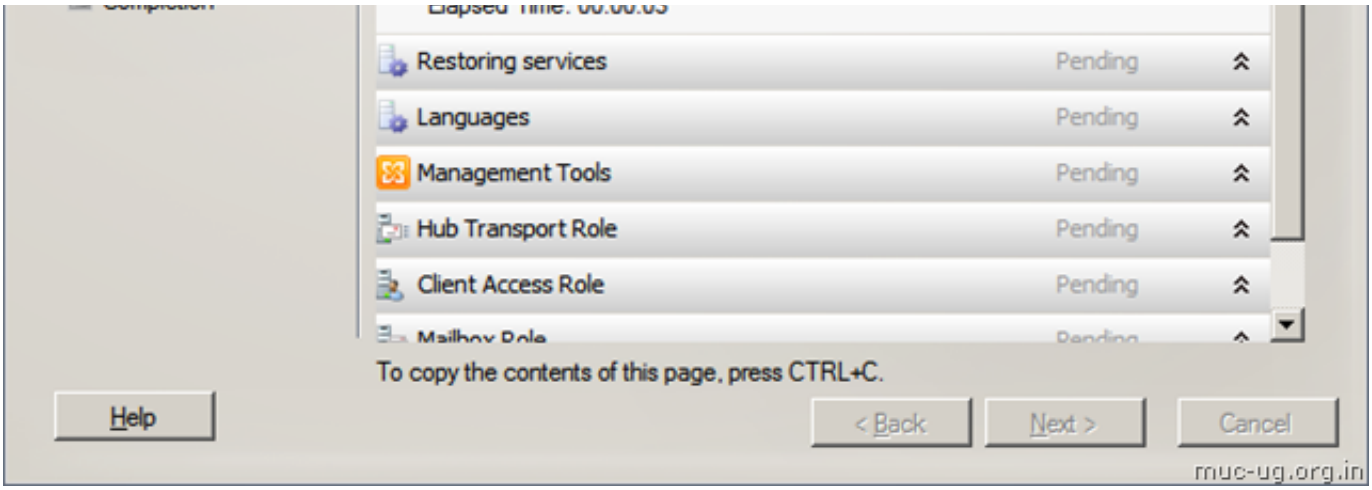
15. Great :) !!!, Readiness check **succeeded** | Click **Install.**

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.

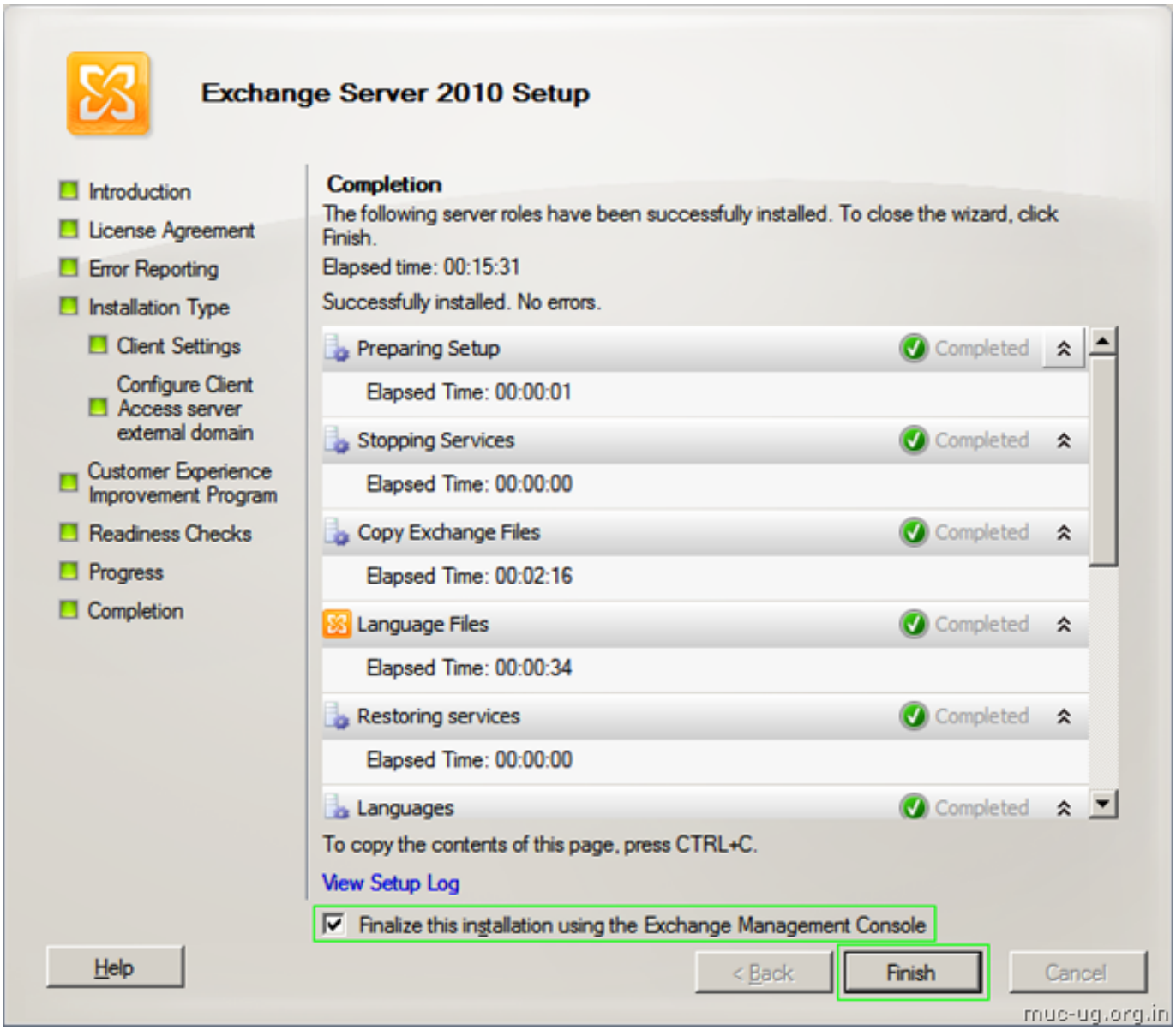


16. Installation going on ...

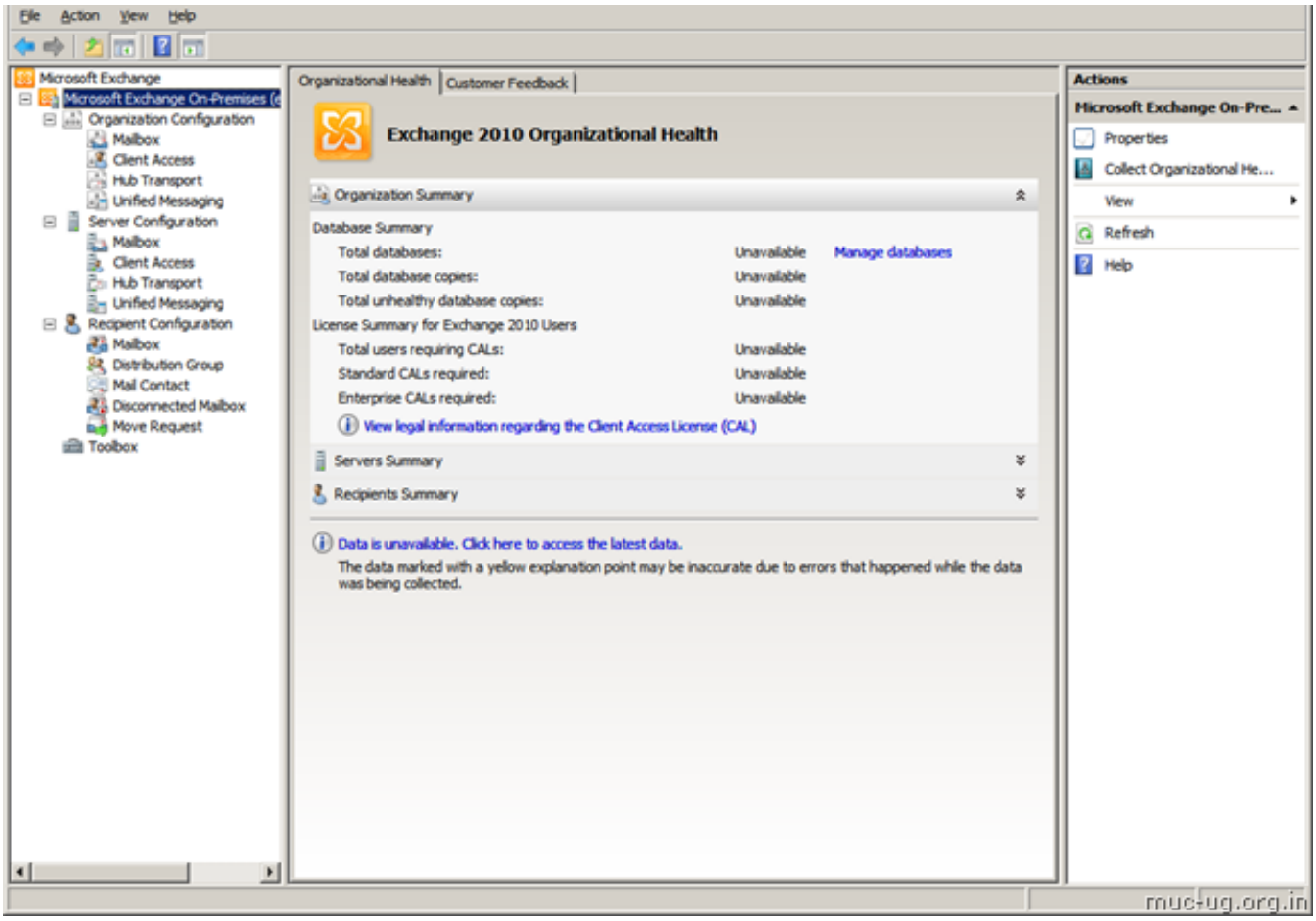




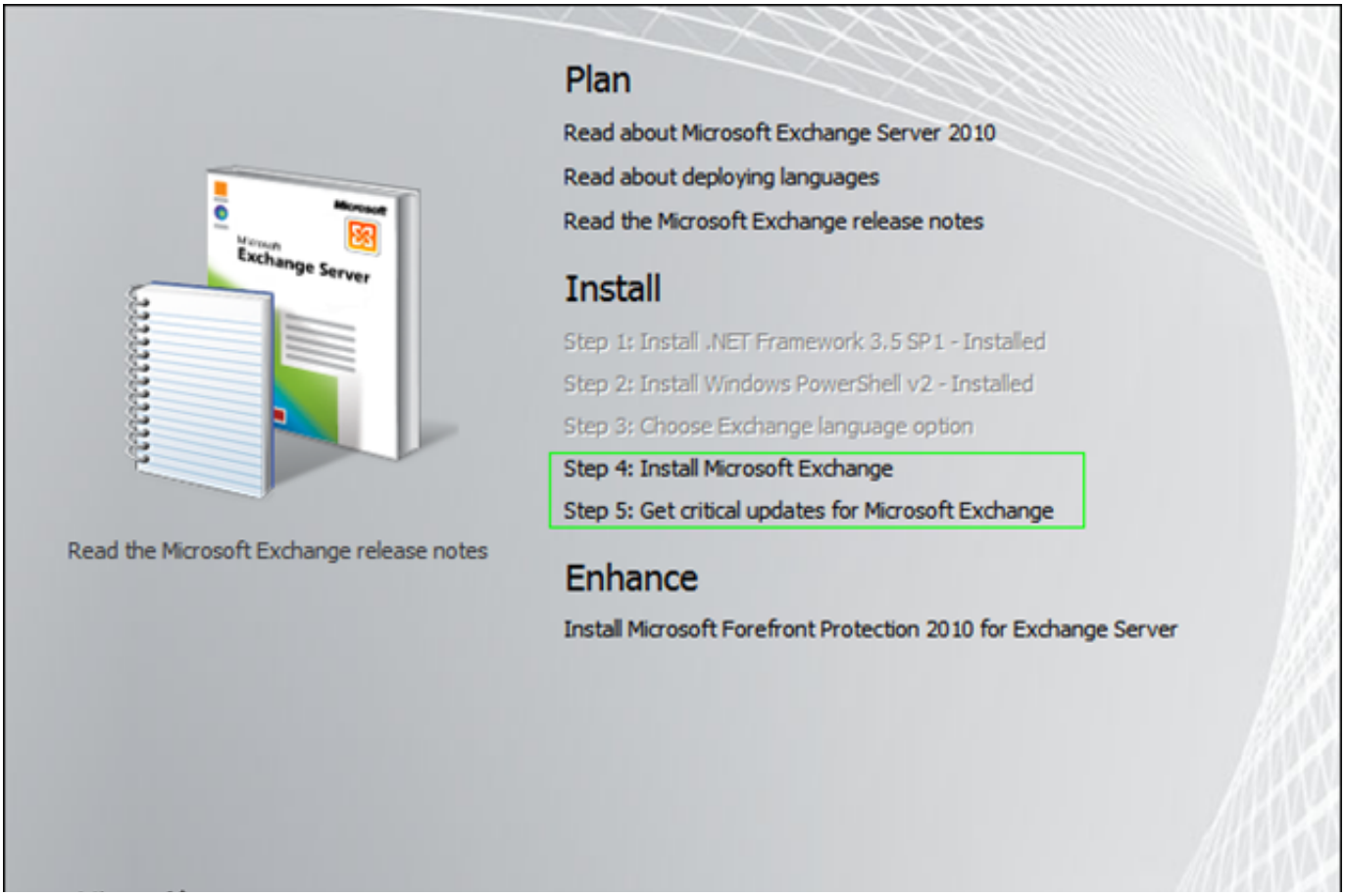
17. Check **Finalize this installation using the Exchange Management Console** | Click **Finish,** Verify installation completed without any errors.



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.**



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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