

How to Install Exchange Server 2016



Table of Contents

Introduction	2
1. Operating System requirements for Exchange Server 2016.....	3
2. Prepare Active Directory	3
3. Prerequisites for Server role	3
3.1 Prerequisites for Mailbox Server Role.....	3
3.2 Prerequisites for Edge Server Role	4
4. Prepare Active Directory and domains	4
4.1 Extend Active Directory Schema.....	4
4.2 Prepare Active Directory.....	5
4.3 Prepare Domains	6
5. Installing Exchange Server 2016.....	7
Conclusion:.....	11

Introduction

Exchange 2016 is out and many are planning to foray into this new version of Exchange communication and collaboration.

In this whitepaper, we will take you through the steps for installing Exchange Server 2016, including the prerequisites and installation system requirements.

1. Operating System requirements for Exchange Server 2016

For Mailbox and Edge Server Role the following servers are supported:

Windows Server 2012 R2 Standard or Datacenter, Windows Server 2012 Standard or Datacenter and Windows Server vNext.

2. Prepare Active Directory

Before installing any version of Exchange Server be sure to prepare the Active Directory environment where the server will be placed. The following Server requirements have to be satisfied.

For Domain controllers:

Windows Server 2012 R2 Standard or Datacenter, Windows Server 2012 R2 Standard or Datacenter, Windows Server 2008 R2 Standard/Enterprise/Datacenter, Windows Server 2008 Standard/Enterprise/Datacenter.

For Active Directory forest:

Use Windows Server 2008 or higher.

The next task is to prepare the Active Directory environment using the Exchange Server 2016 Active Directory Prepare module. Follow these steps:

1. Download and install Microsoft .Net Framework 4.5.
2. In the Windows PowerShell, run the following command to install the Remote Tools Administration Pack.
Install-WindowsFeature RSAT-ADDS

3. Prerequisites for Server role

In this section, the prerequisites for Mailbox Server Role and Edge Server Role will be described.

3.1 Prerequisites for Mailbox Server Role

The following are the prerequisites for the server running the standalone Exchange 2016 with the Mailbox Server Role.



1. Go to **Start > All Programs > Accessories > Windows PowerShell**.
2. Run the following command to install the essential Windows components.

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

3. Install the following components: Microsoft .Net Framework 4.5, Microsoft Unified Communications Managed API 4.0, Core Runtime 64-bit.

3.2 Prerequisites for Edge Server Role

The following are the prerequisites for the Edge Server Role.

1. Go to **Start > All Programs > Accessories > Windows PowerShell**.
2. Run the following command for installing the requisite Windows components.

Install-WindowsFeature ADLDS

3. Download and Install Microsoft .Net Framework 4.5

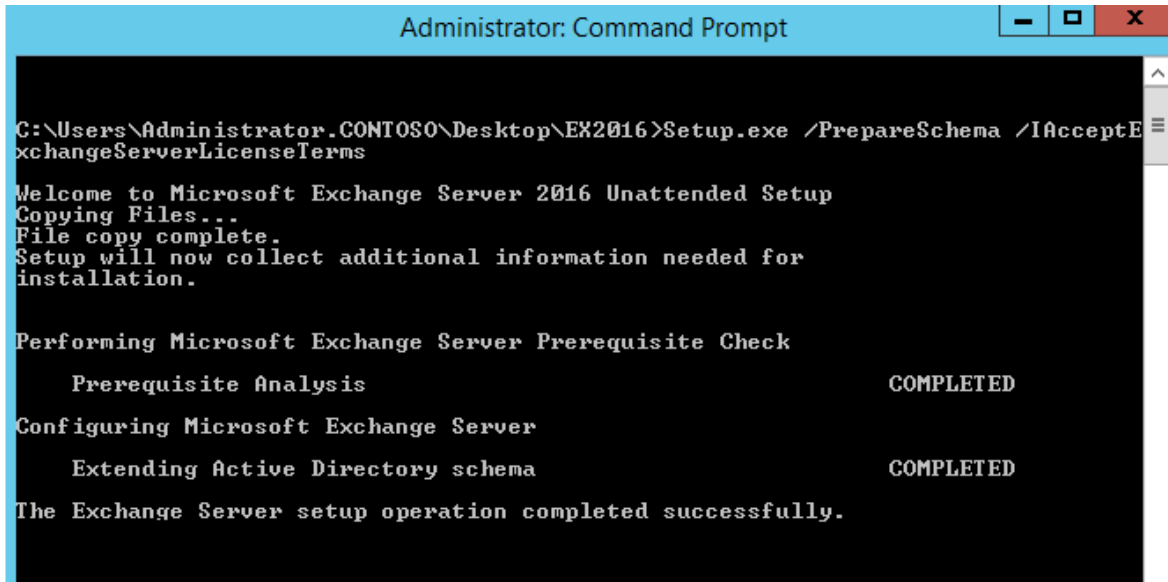
4. Prepare Active Directory and domains

To prepare the Active Directory and the Domains for Exchange 2016, follow these steps. All the commands should be run through the Schema Admins group and the Enterprise Admins group membership.

4.1 Extend Active Directory Schema

1. Run the Exchange Server 2016 installation Media
2. Start a Command Prompt session and go to the setup files from the command prompt
3. Run the following command:

Setup.exe /PrepareSchema /IAcceptExchangeServerLicenseTerms



```
Administrator: Command Prompt

C:\Users\Administrator.CONTOSO\Desktop\EX2016>Setup.exe /PrepareSchema /IAcceptExchangeServerLicenseTerms

Welcome to Microsoft Exchange Server 2016 Unattended Setup
Copying Files...
File copy complete.
Setup will now collect additional information needed for
installation.

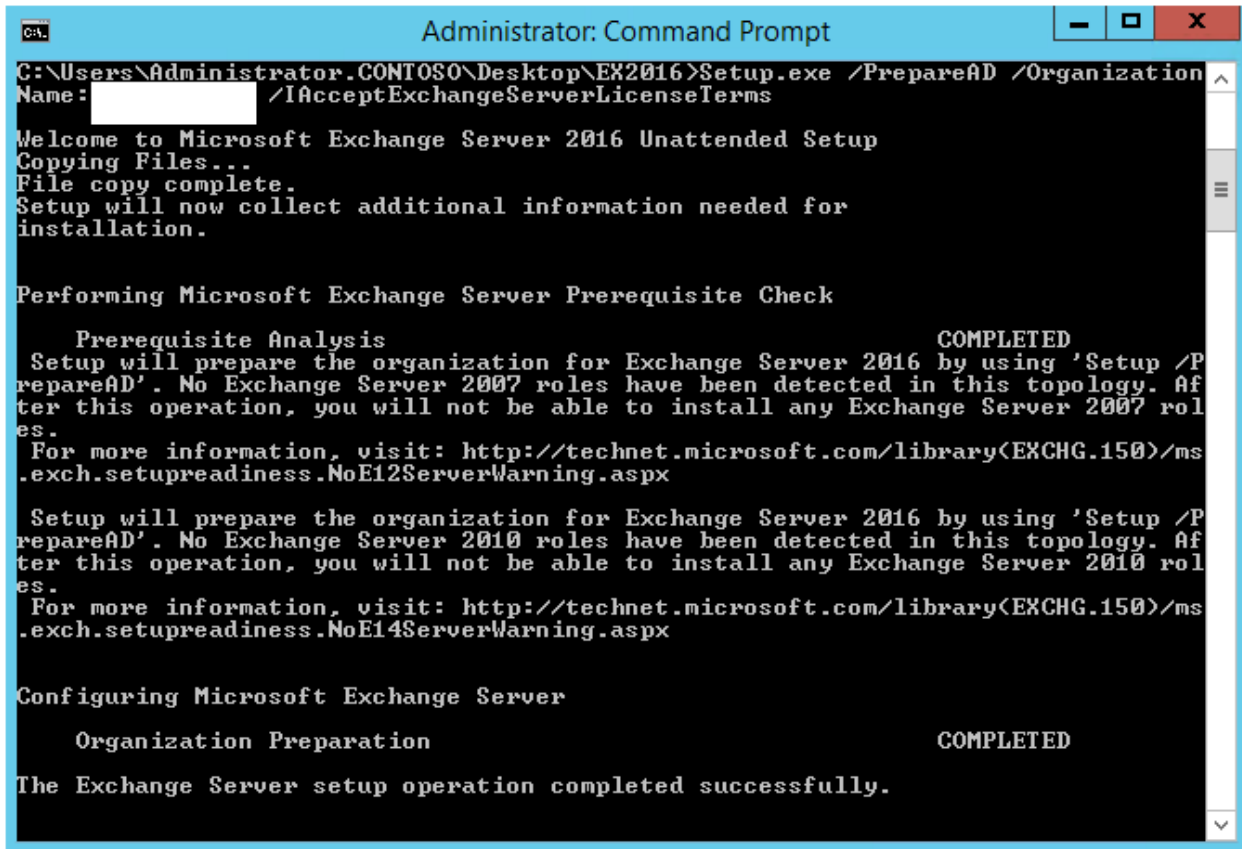
Performing Microsoft Exchange Server Prerequisite Check
    Prerequisite Analysis                                COMPLETED
Configuring Microsoft Exchange Server
    Extending Active Directory schema                    COMPLETED
The Exchange Server setup operation completed successfully.
```

Figure 1: Prepare Schema Command for Preparing Active Directory

4.2 Prepare Active Directory

Run the following command in the command prompt:

```
Setup.exe /PrepareAD /OrganizationName:"<organization name>" /IAcceptExchangeServerLicenseTerms
```



```
C:\Users\Administrator.CONTOSO\Desktop\EX2016>Setup.exe /PrepareAD /OrganizationName: [redacted] /IAcceptExchangeServerLicenseTerms

Welcome to Microsoft Exchange Server 2016 Unattended Setup
Copying Files...
File copy complete.
Setup will now collect additional information needed for
installation.

Performing Microsoft Exchange Server Prerequisite Check

    Prerequisite Analysis                                COMPLETED
Setup will prepare the organization for Exchange Server 2016 by using 'Setup /P
repareAD'. No Exchange Server 2007 roles have been detected in this topology. Af
ter this operation, you will not be able to install any Exchange Server 2007 rol
es.
For more information, visit: http://technet.microsoft.com/library(EXCHG.150)/ms
.exch.setupreadiness.NoE12ServerWarning.aspx

Setup will prepare the organization for Exchange Server 2016 by using 'Setup /P
repareAD'. No Exchange Server 2010 roles have been detected in this topology. Af
ter this operation, you will not be able to install any Exchange Server 2010 rol
es.
For more information, visit: http://technet.microsoft.com/library(EXCHG.150)/ms
.exch.setupreadiness.NoE14ServerWarning.aspx

Configuring Microsoft Exchange Server

    Organization Preparation                            COMPLETED

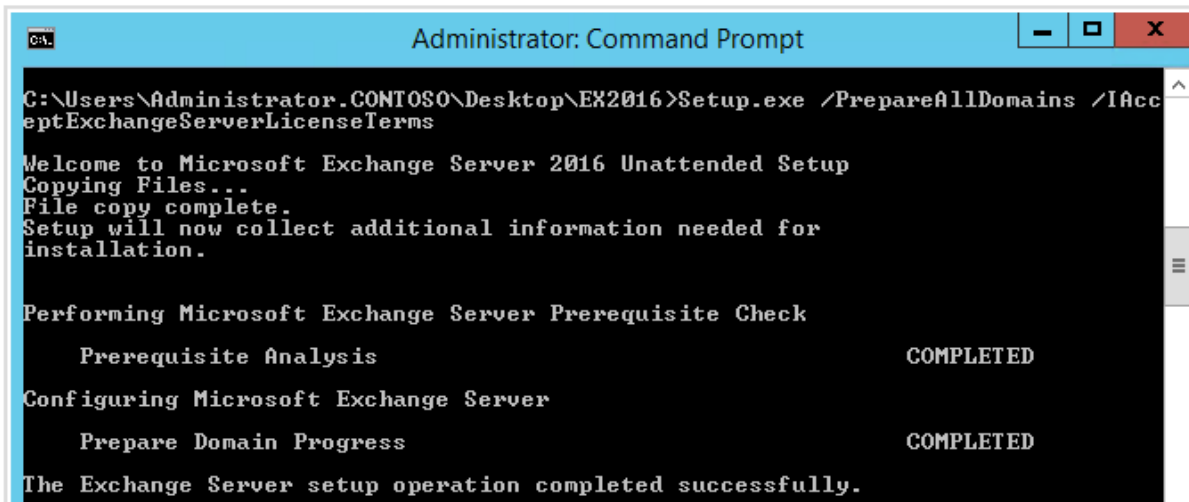
The Exchange Server setup operation completed successfully.
```

Figure 2: Preparing Active Directory

4.3 Prepare Domains

Open the command prompt, run the following command:

```
Setup.exe /PrepareAllDomains /IAcceptExchangeServerLicenseTerms
```



```
C:\Users\Administrator.CONTOSO\Desktop\EX2016>Setup.exe /PrepareAllDomains /IAcceptExchangeServerLicenseTerms

Welcome to Microsoft Exchange Server 2016 Unattended Setup
Copying Files...
File copy complete.
Setup will now collect additional information needed for
installation.

Performing Microsoft Exchange Server Prerequisite Check

    Prerequisite Analysis                                COMPLETED

Configuring Microsoft Exchange Server

    Prepare Domain Progress                            COMPLETED

The Exchange Server setup operation completed successfully.
```

Figure 3: Prepare All Domains

5. Installing Exchange Server 2016

Follow the below steps for installing Exchange Server 2016.

1. Log on to the Mailbox server.
2. Start the Exchange Server 2016 installation Media.
3. Start Exchange Server 2016 Setup by double-clicking Setup.exe.
4. On the “Check for Updates” page, select whether you want Setup to download product and security updates for Exchange 2016. Click Next to proceed.

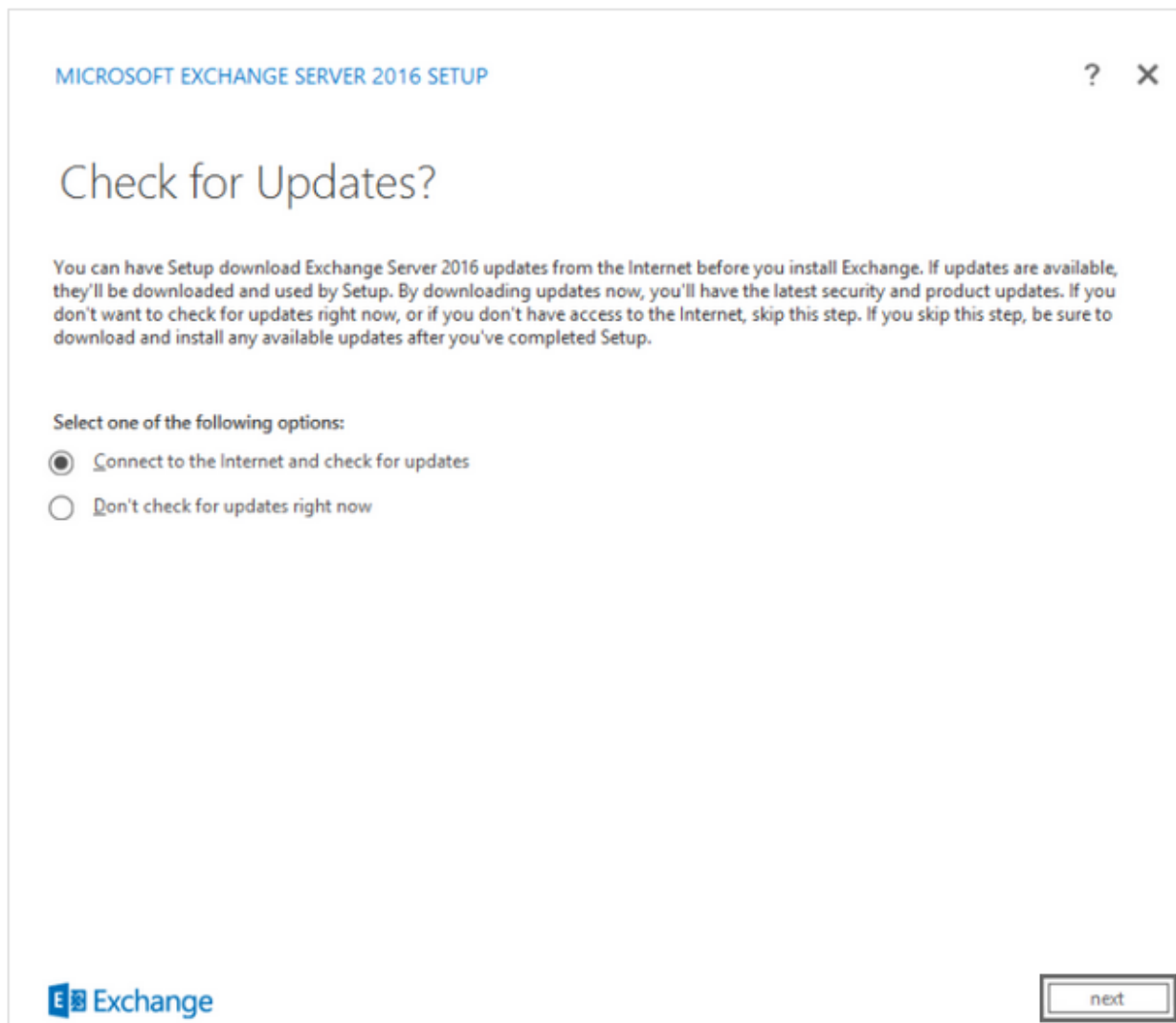


Figure 4: Launching the Exchange Server 2016 Setup wizard

5. After the Setup has finished copying files on the Copying Files page, click Next to proceed.

6. Setup is initialized and the Introduction page opens up which gives further information about the installation process. Read the content and Click next to continue.

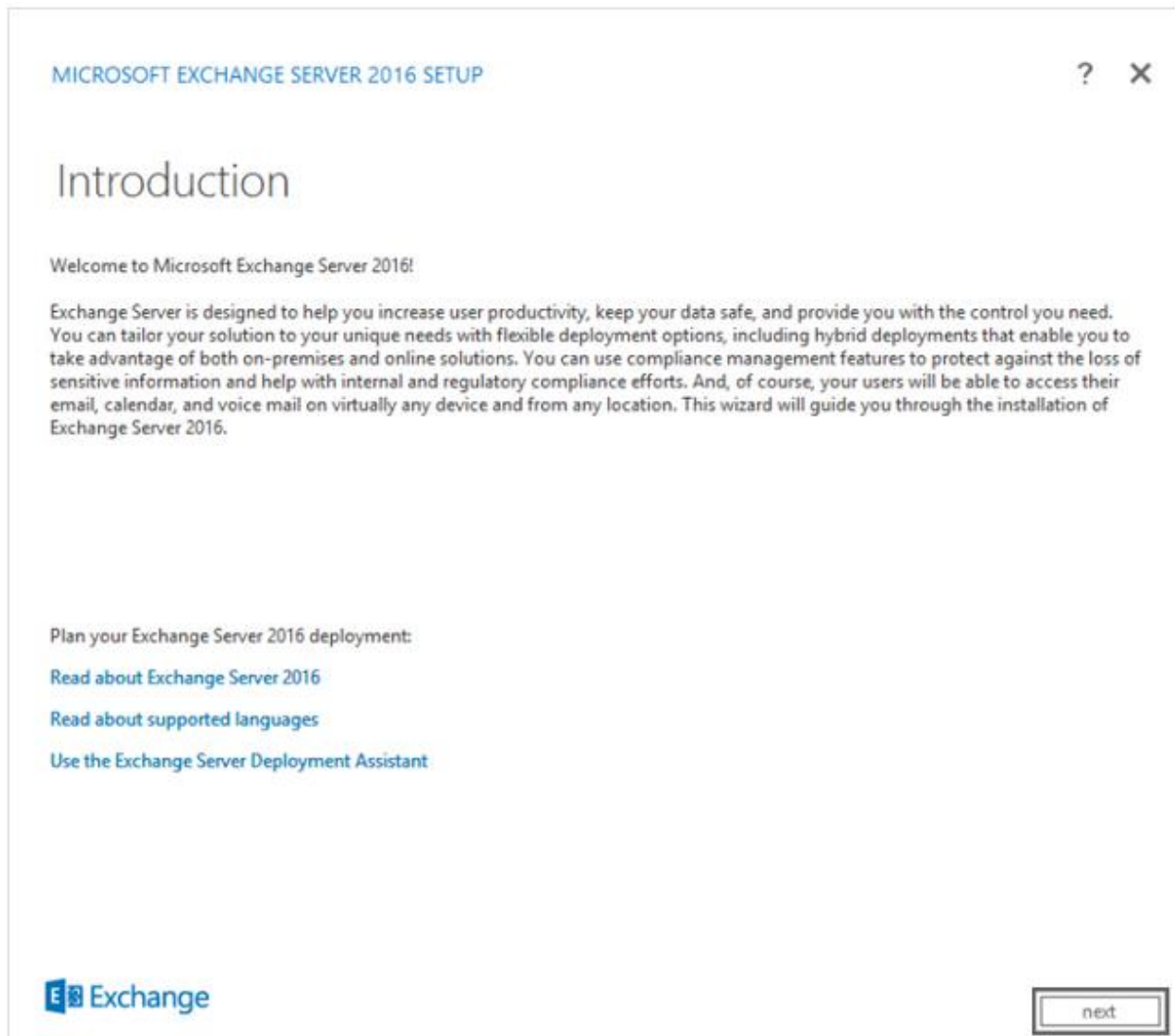


Figure 5: Introduction Page

7. The License Agreement page opens up, read the terms and conditions, select the 'I accept the terms in the license agreement', and then click Next.
8. The 'Recommended Settings' page opens up, select whether you want the Exchange Server to use recommended settings, or you want to manually configure these settings after the installation is complete. Select 'Use recommended settings' and click Next.

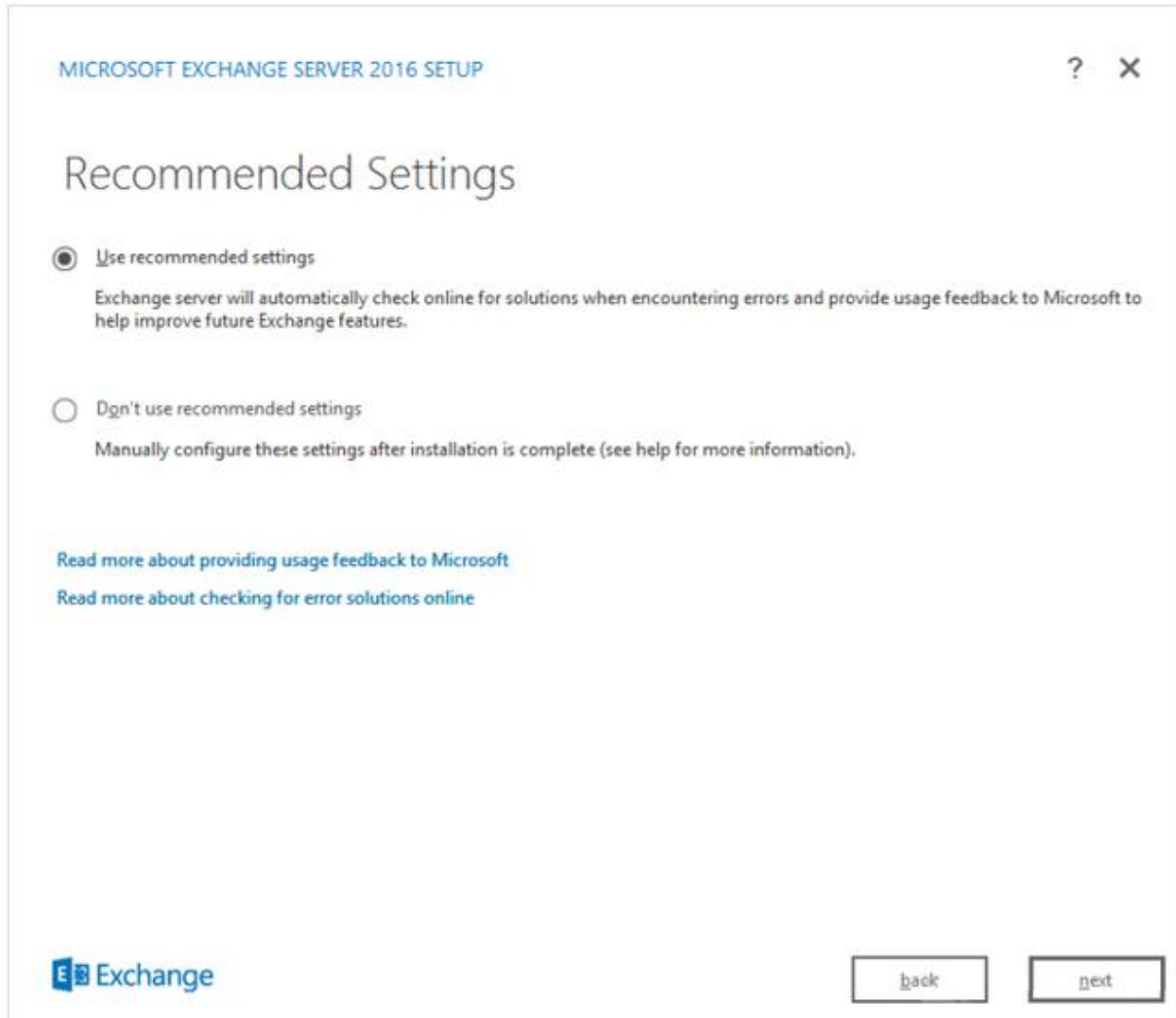


Figure 6: Recommended Settings

9. On the Server Role Selection page choose whether you want to install the Mailbox role or the Edge Server role. Here, the Mailbox server role has been selected. Once you select the Mailbox Server Role, the Edge Server role cannot be selected and the Management Tools option will be selected by default. Select the 'Automatically install Windows Server roles and features that are required to install Exchange Server' checkbox and click Next to proceed.

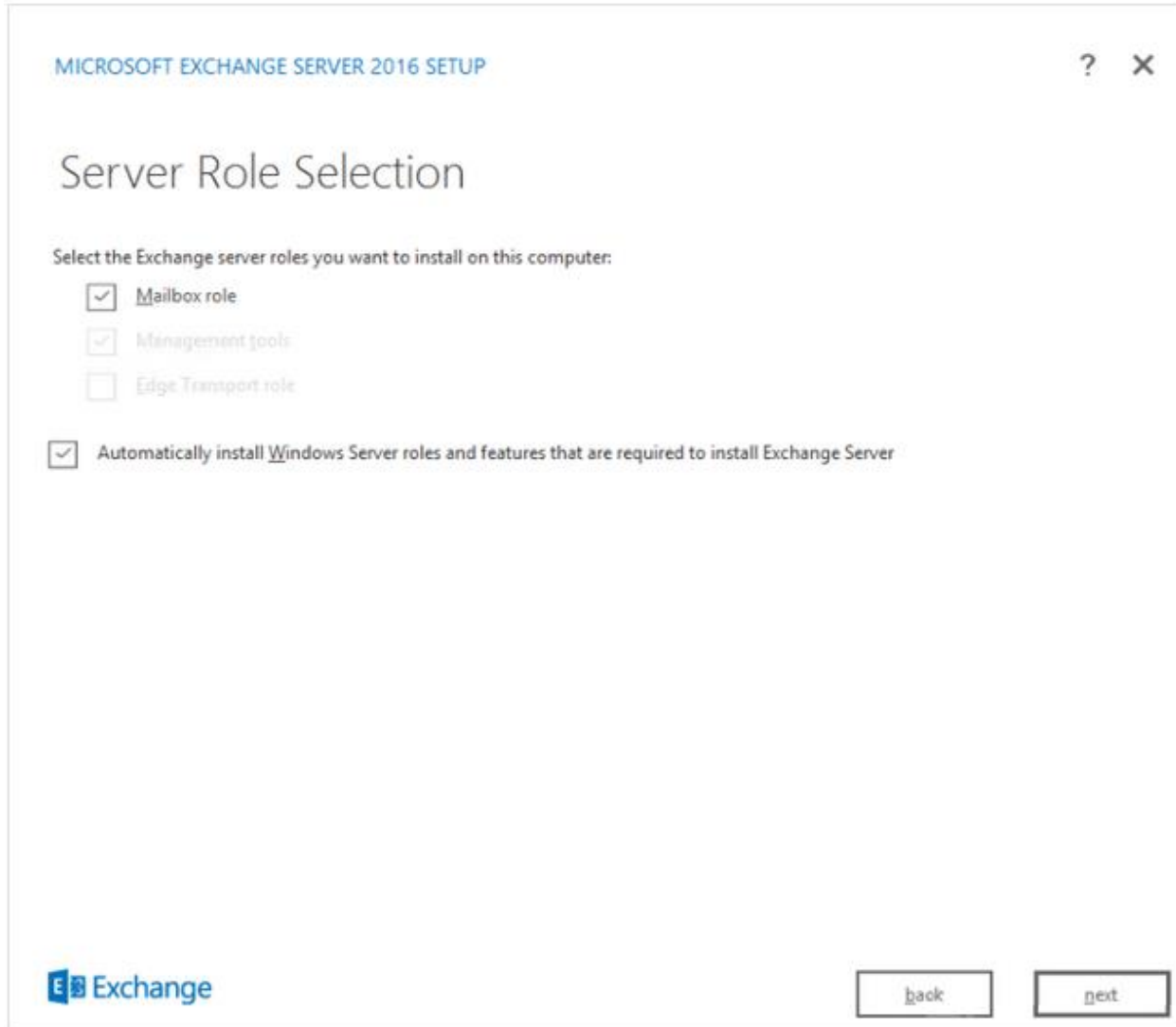


Figure 7: Selecting Server Role

10. Specify the installation path for Exchange Server on the 'Installation Space and Location' page. You can choose the default installation location or use Browse button to specify a new location. Ensure that installation location has suitable storage space.
11. In the next step, you will be asked whether you want to enable or disable the Malware Protection Setting. Make your choice and click Next.
12. In the next step, computer will do the readiness check to find out if the organization and server role prerequisite have completed successfully. If unsuccessful, click Back to perform the required tasks and run the readiness check again. If successful, click Install to continue.
13. The software is installed. And once the setup installs all the components, the Setup Completed page is displayed. Click Finish to complete the installation.

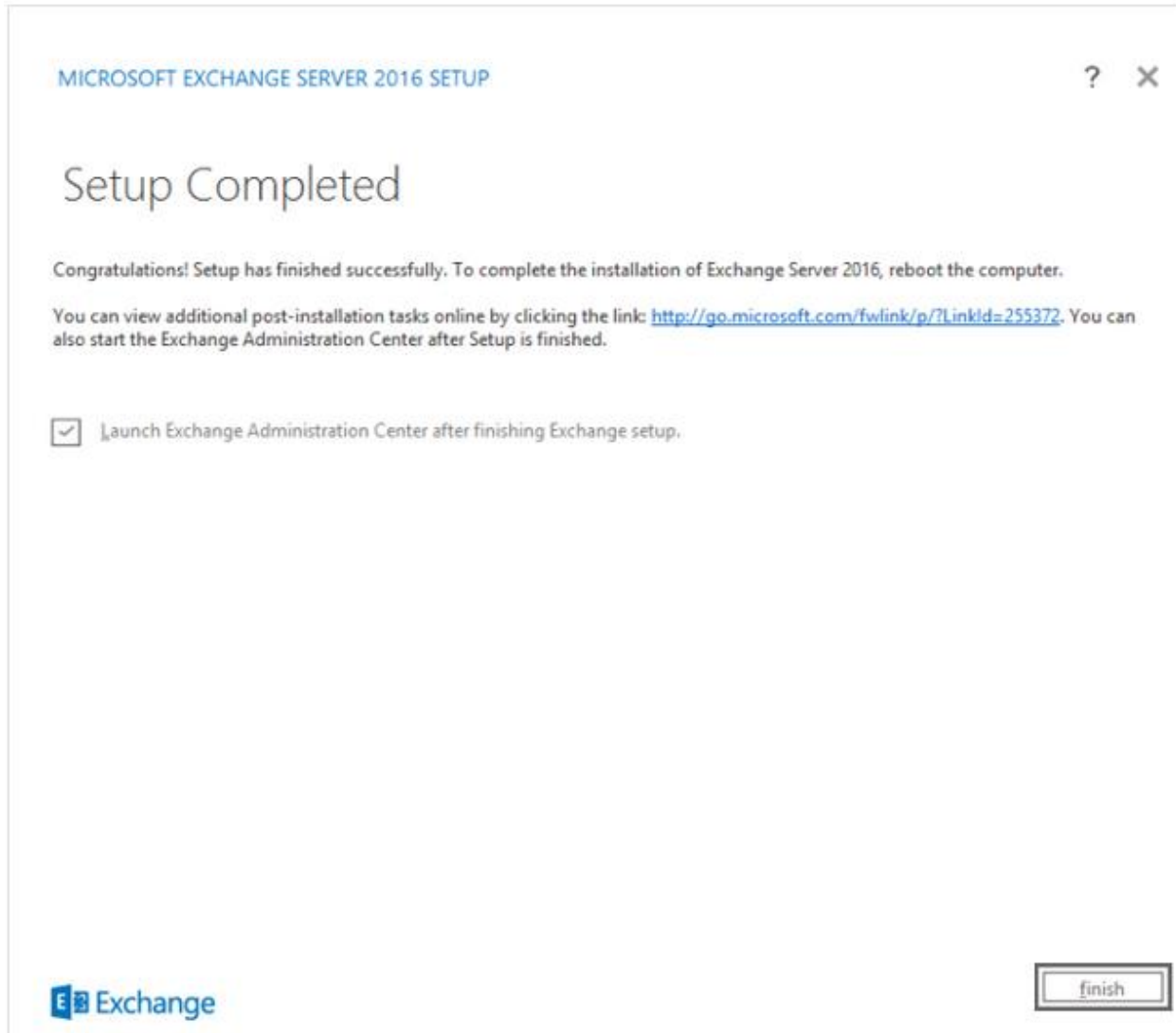


Figure 8: Click on Finish to complete the Setup

Once the installation is complete, you can verify the installation using the Exchange 2016 Administrative Center and PowerShell.

Conclusion:

In this whitepaper, the system requirements, pre-requisites and step-by-step process for single server deployment of Microsoft® Exchange Server 2016 with the Mailbox role have been laid out. For those who are looking for tips on the Exchange Server 2016 installation, this should be a handy guide.