# EXCHANGE 2016 INSTALLATION STEP BY STEP FOR ANYONE

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## Exchange 2016 Installation Step by Step

At Ignite 2015, Microsoft showcase some of the features and capabilities of Exchange 2016 that makes it better than the existing 2013 version. On July 22, 2015 Microsoft announced the *public preview availability* of Exchange 2016. Here, we'll look at exchange 2016 Installation step by step guide for anyone who would like to install <u>exchange 2016</u> to a new infrastructure.

Warning: Microsoft doesn't support the installation of Exchange 2016 preview in production environment. !!!

Before we start to look at exchange 2016 installation step by step, let's take a look at some of the perrequisites for Exchange 2016 and comparability requirements.

Exchange 2016 does include Office Web App server but currently only available to members of the Exchange On-Premises Technology Adoption Program (TAP). If you're not a member of the Exchange TAP program, you can still install Exchange 2016. However, the features enabled by "Office Web Apps vNext" won't be available.

### Exchange 2016 Compatibility Requirements:

- Exchange 2016 doesn't support coexistence with Exchange 2007 or earlier versions of Microsoft exchange.
- Exchange 2013 CU8 and higher version are supported with Exchange 2016 coexistence.
- Exchange 2010 SP3 RU9 and higher versions are supported for exchange 2016 coexistence with 2010.
- Exchange 2016 hybrid is only supported with new upgraded office 365 tenant.
- IPv6 is supported with coexistence of IPv4.
- Outlook 2010 and 2013 clients are supported with Exchange 2016. I always recommend to patch the outlook client for best end user experience.

### Exchange 2016 Installation Prerequisites:

- Minimum forest functional level for exchange 2016 is Windows Server 2008.
- Windows Server 2012 or 2012 R2 Operating System is required for Exchange 2016 installation. You cannot install Exchange 2016 on Windows 2012 core or essentials edition.

## Exchange 2016 Installation Step by Step:

Exchange 2016 support three possible installations at the moment with preview edition.

- Mailbox Server Role: It's a mandatory server role for exchange 2016 and the only mandatory role in 2016.
- Management Tools: Requires for admin purpose on admin machine.
- Edge Transport Role: Optional role and we can't install it on the same server that has mailbox role installed.



You must have Enterprise Admin, Schema Admin and Domain admin rights before you start the installation of Exchange 2016.

In my lab, I've installed the mailbox server and management tools on the same box and here are the steps to perform.

On exchange 2016 server member server, run the following cmdlet to install the exchange 2016 perrequisites. Make sure you run the powershell as administrator.

Install RSAT-ADDS by running the cmdlet Add-WindowsFeature RSAT-ADDS

			Administrator: Windows PowerShell	_ <b>D</b> X
Windows Copyrig	PowerShell ht (C) 2014 Micr	rosoft Corpora	tion. All rights reserved.	<u>^</u>
PS C:∖W	indows\system32>	Install-Wind	owsFeature RSAT-ADDS	
Success	Restart Needed	Exit Code	Feature Result	
True	No	Success	{Active Directory Administrative Center, A	

Installation of RSAT-ADDS allows exchange setup to extend AD Schema and prepare the domain for exchange installation. You can also extend your schema and domain by running the cmdlet.

Install-WindowsFeature AS-HTTP-Activation, Desktop-Experience, NET-Framework-45-Features, RPCover-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



**Note:** You need to reboot the machine after the roles and features per-requisites installation is completed.

After rebooting the machine. Download and install the following in order.

- 1. <u>.NET Framework 4.5.2</u>
- 2. Microsoft Unified Communications Managed API 4.0, Core Runtime 64-bit

### .Net Framework Installation

After downloading the file, double click the setup and follow the instructions.

•	User Account Control				
Do you want to allow the following program to make changes to this computer?				to make	
	*	Program name: Verified publisher: File origin:	NDP452-KB290 Microsoft Cor Hard drive on	01907-x86-x64-A poration this computer	IIOS-ENU.exe
⊗ s	how detai	ls		Yes	No
			Change v	when these notif	ications appear

Accept the license terms and click Install.



Framework 4.5.2 Setup Please accept the license terms to	continue.	
MICROSOFT SOFTWARE SU	IPPLEMENTAL LICENSE	TERMS
.NET FRAMEWORK AND AS MICROSOFT WINDOWS OP	SOCIATED LANGUAGE	PACKS FOR
Microsoft Windows operating	system software (the "	'software"), you
✓ I have read and accept the licer	u may not use it if you (	io not have a
✓ I have read and accept the licer Download size estimate:	u may not use it if you on the second se	io not have a
✓ I have read and accept the licer Download size estimate: Download time estimates:	u may not use it if you o nse terms. 0 MB Dial-Up: 0 minute: Broadband: 0 min	s utes





After 5-10 minutes, .Net framework installation will be completed.

	Microsoft .NET Framework 4.5.2
Microsoft NET	Installation Is Complete .NET Framework 4.5.2 has been installed. Check for more recent versions on <u>Windows Update</u> .
	Einish

Microsoft Unified Communications Managed API 4.0





C:\Users	s\rjbutt\Downloads\UcmaRuntimeSetup.exe	_ <u> </u>
		Microsoft Unified Communications Managed AP
		Please wait while files are copied to your hard drive. Copying files
Minner Huifind Com		x
- Microsoft Unined Con	Microsoft Unified Communications Managed API 4.0, Runtime Setup	
Unified Communications Managed API 4.0 Runtime	<ul> <li>Microsoft Visual C++ 2012 x64 Minimum Runtime - 11.0.50727</li> <li>Microsoft Server Speech Platform Runtime (x64)</li> <li>Microsoft Server Speech Recognition Language - TELE (US)</li> <li>Microsoft Server Speech Text to Speech Voice (en-US, Helen)</li> <li>Microsoft Lync Server 2013, Bootstrapper Prerequisites Installer Package</li> <li>Microsoft Unified Communications Managed API 4.0, Runtime</li> </ul>	(en-
	Next > Canc	cel



Verifying BootstrapperPrereqs.msi	
Installation progress:	0
Installing Microsoft Visual C++ 2012 x64 Minimu	m Runtime - 11.0.50727
Installing Microsoft Visual C++ 2012 x64 Minimu	m Runtime - 11.0.50727

EXChange Server 2016



### Exchange 2016 Installation

Double click on Exchange 2016 Setup and follow the instructions.

Microsoft recommend to always check for updates before you start the installation and Click Next.



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You can have Setup download Exchange Server 2016 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

<u>D</u>on't check for updates right now



next



Once you check for updates and install the required updates if required, Setup will start the process of copying Exchange setup files.

MICROSOFT EXCHANGE SERVER 2016 SETUP	? X
Copying Files	
Setup needs to copy files that are required to install Exchange Server.	
Copying files	6%



Once the files are copied, Setup will start the process of initialization for Exchange installation.

Exchange 2016 coexistence with Exchange 2007 server isn't supported. You cannot install Exchange 2016 in Exchange 2007 Organization. You need to Uninstall Exchange 2007 before you can install Exchange 2016



### ? X

## Initializing Setup...

Setup is preparing the necessary resources before it can continue to the next step.





## Introduction

Welcome to Microsoft Exchange Server 2016!

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 2016.

Plan your Exchange Server 2016 deployment:

Read about Exchange Server 2016

Read about supported languages

Use the Exchange Server Deployment Assistant



next



Click Next to Start the installation process.

#### MICROSOFT EXCHANGE SERVER 2016 SETUP

#### 🖶 ? 🗙

next

## License Agreement

Please read and accept the Exchange Server 2016 license agreement.

#### MICROSOFT PRE-RELEASE SOFTWARE LICENSE TERMS

#### **MICROSOFT EXCHANGE SERVER 2016 UPDATES**

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 pre-release 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.

- I accept the terms in the license agreement
- I do not accept the terms in the license agreement.

### E Exchange

Accept the license agreement and click on Next.



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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



back

next

Always use Recommended Settings and click Next.



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## Server Role Selection

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



Automatically install Windows Server roles and features that are required to install Exchange Server

E Exchange

<u>b</u>ack

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Select the server role that you would like to install. I've selected the Mailbox and Management Role as It's the first Exchange server deployment in my lab.

browse

MICROSOFT	EXCHANGE	SERVER	2016	SETUP
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Installation	Space and Location
Disk space required:	8688.1 MB
Disk space available:	108585.5 MB

Specify the path for the Exchange Server installation:

C:\Program Files\Microsoft\Exchange Server\V15

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		107 A 9

Provide the path for Exchange Installation directory and click Next.



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## Exchange Organization

Specify the name for this Exchange organization:

MSCloudTalks

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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E	3	Excha	inge		

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Provide the name to your messaging organization. I've provided the name of "*MSCloudTalks*". If you've split permissions model and have different administrator for Active Directory then select the check box



for split permissions.

#### MICROSOFT EXCHANGE SERVER 2016 SETUP

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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.

0	Yes
۲	No

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



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next

It's recommended that you shouldn't disable malware scanning on your exchange server. We stick with the default option of No and click next.



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## Readiness Checks

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

Prerequisite Analysis

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#### Warning:

Setup will prepare the organization for Exchange Server 2016 by using 'Setup /PrepareAD'. No Exchange Server 2007 roles have been detected in this topology. After this operation, you will not be able to install any Exchange Server 2007 roles. For more information, visit: <u>http://technet.microsoft.com/library(EXCHG.150)/ms.exch.setupreadiness.NoE12ServerWarning.aspx</u>

#### Warning:

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



install



Read the warnings and make sure you don't have any error message and click on Install.

MICROSOFT EXCHANGE SERVER 2016 SETUP

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Setup Progress

Step 1 of 15: Organization Preparation

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During the Installation process, Exchange server will perform the following 15 steps.

- Organization Preparation
- Stopping Services
- Copy Exchange Files
- Language Files
- Restoring Services
- Languages
- Management Tools
- Mailbox Role: Transport Service
- Mailbox Role: Client Access Service
- Mailbox Role: Unified Messaging Service
- Mailbox Role: Mailbox Service
- Mailbox Role: Front End Transport Service
- Mailbox Role: Client Access Front End Service
- Finalizing Setup



After all above steps are completed, you're done with the installation of your first Exchange 2016 in your organization.

MICROSOFT EXCHANGE SERVER 2016 SETUP

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Congratulations! Setup has finished successfully. To complete the installation of Exchange Server 2016, reboot the computer.

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

Launch Exchange Administration Center after finishing Exchange setup.



finish

You need to reboot your exchange server before you start the administration and configuration of your exchange server.

## Verify Exchange Installation

After rebooting the server, Go to Exchange Management Shell and run the following Cmdlet to verify the exchange version.

EPS 1	C:\Windows\system32>Get-ExchangeS	Server	ft Name, ServerRole,	, Edition, AdminDisplayU	ersion
Name			ServerRole	Edition	AdminDisplayVersion
AZURI	E-EXCH16-01	Mailbox,	ClientAccess	StandardEvaluation	Version 15.1 (Build 225.17)
EPS 1	C:\Windows\system32>				



It's recommended that you read the setup logs to confirm that there is no issue with the installation.

## Exchange 2016 Post Installation Tasks

Once the exchange 2016 is installed. We need to perform post installation tasks to make it functional as per our organizational requirements. Exchange 2016 Post Installation tasks are as below.

- 1. Assign Public SSL Certificate to Exchange Services
- 2. Assign License to Exchange 2016
- 3. Configure Exchange Virtual Directories
- 4. Rename Default Database
- 5. Create/Modify Email Address Policy

Note: You can perform Post Installation tasks in any order

### Exchange 2016 SSL Certificate

To Assign SSL certificate to Exchange Services, we need to perform following Steps.

- 1. Create SSL Certificate Request
- 2. Assign SSL Certificate

## **Create SSL Certificate Request**

To create a SSL Certificate Request in Exchange 2016, Follow the following Instructions.

- Login to Exchange Admin Center as **Organization Administrator** Account
- Navigate to the following path
  - Exchange Admin Center  $\rightarrow$  Servers  $\rightarrow$  Certificates
- Click on + icon to create a certificate Request



Enterprise Office 365			
Exchange admin ce	enter		
recipients	servers databases database availabilit	ty groups virtual directories <b>certifi</b>	cates
permissions			
compliance management	Select server: Exch01.MSCLOUDTALKS.COM	~	
organization	+ 🖍 🖻 🕄 …		
protection	NAME	STATUS	EXPIRES ON
mail flow	Microsoft Exchange Server Auth Certificate Microsoft Exchange	<b>Valid</b> Valid	<b>2/26/2021</b> 3/24/2021
mobile	WMSVC	Valid Valid	6/7/2024
public folders			-,
unified messaging			
servers			
hybrid			
tools			

• Select "Create a request for a Certificate from a Certification Authority" and click Next

🥖 Exchange Certificate - Internet Explorer
new Exchange certificate
This wizard will create a new certificate or a certificate request file.
You can either create a self-signed certificate or request a certificate from a certification authority. Learn more
Oreate a request for a certificate from a certification authority
○ Create a self-signed certificate
Next Cancel
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• Type the friendly name of your SSL Certificate and click Next



e	Exchange Certificate - Internet Explorer	_ <b>D</b> X
new Exchange certificate		
*Friendly name for this certificate:		Entering a friendly name for
Exchange 2016 SSL Certificate		x the certificate can help identify it.
	Back	Next Cancel
		🔍 100% 🔻 🔡

• Exchange 2016 does support Wildcard Certificate but it's not recommended to use WildCard Certificate. We're going to create a **SAN Certificate** Request, Click on Next

🥖 Exchange Certificate - Internet Explorer	×
new Exchange certificate	
Request a wildcard certificate. A wildcard certificate can be used to secure all sub- domains under your root domain with a single certificate. Learn more	
Back Next Cancel	
et 100% •	

• Click on Browse button to select the Exchange Server where you would like to save the Certificate Request File.



e	Exchange Certificate -	Internet Explorer		
new Exchange certificate				
*Store certificate request on this serve	r:			
EXCH01	3	Browse	]	
		Deale		
		Васк	Cancel	
			• ال	00% 👻

• Here you can see the namespace configuration of your Exchange Server. You can edit your namespace here or click Next to edit this on next page.

Exchange Certification	ite - Internet Explorer
new Exchange certificate	
Specify the domains you want to be included in your certificate	e. Learn more
<i>•</i>	
ACCESS	DOMAIN
Outlook Web App (when accessed from the Internet)	mail.mscloudtalks.com
Outlook Web App (when accessed from the intranet)	mail.mscloudtalks.com
OAB (when accessed from the Internet)	mail.mscloudtalks.com
OAB (when accessed from the intranet)	mail.mscloudtalks.com
Exchange Web Services (when accessed from the Internet)	mail.mscloudtalks.com
Exchange Web Services (when accessed from the intranet)	mail.mscloudtalks.com
Exchange ActiveSync (when accessed from the Internet)	mail.mscloudtalks.com 💙
	Back Next Cancel
	🔍 100% 🔻 🖽

• I've removed all unwanted namespace from certificate request. Click on Next to complete the certificate Request



Exchange Certificate - Internet Explorer	_ <b>_</b> X
new Exchange certificate	
Based on your selections, the following domains will be included in your certificate. You can add additional domains here, or make changes. Learn more $+ \mathscr{A} - \checkmark$	Â
DOMAIN	
mail.mscloudtalks.com	
AutoDiscover.MSCLOUDTALKS.COM	
MSCLOUDTALKS.COM	
	×
Back	Next Cancel
	€ <b>100% ▼</b> _::

### • Enter your organization information and click Next

Exchange Certificate - Internet Explorer		x
new Exchange certificate		
Specify information about your organization. This is required by the certification authority. Learn more		
*Organization name:		
MS Cloud Talk		
*Department name:		
Т		
*City/Locality:		
Lahore		
*State/Province:		
Punjab		
*Country/Region name:		
Pakistan 💙		
Back Next	Cancel	
	🔍 1009	6 <del>-</del>

• Specify the UNC path of your SSL certificate request file and click on Finish to complete the request process.



Exchange Certificate - Internet Explorer	_ 🗆 X
new Exchange certificate	
*Save the certificate request to the following file (example: \\myservername\share\mycertrequest.REQ):	
\\Exch01\Temp\exchangecert.req	
You'll need to submit the contents of the file you entered to a certification authority. After you receive the certificate file from the certification authority, you'll need to click Complete in the Information pane to install it on your Exchange server. Learn more	
Back Finish C	Cancel
	🔍 100% 🔻 🔐

### **Assign SSL Certificate Request**

- Once the certificate request is completed. Copy the CSR file to generate a SSL certificate from 3<sup>rd</sup> party SSL provider like **GoDaddy**, **DigiCert** or **GeoTrust**.
- Once you've purchased a SSL Certificate from Public SSL provider, Login to your Exchange Server and Navigate to Exchange Admin Center → Servers → Certificates
- Select the SSL Certificate for which you've created a request and click on **Complete** to complete the SSL certificate Request.

## **Rename Default Database**

### **Rename Database using Exchange Admin Center**

To rename your database using GUI method, follow the following steps.

- Login to Exchange Admin Center.
- Navigate to Exchange Admin Center -> Servers -> Databases
- Select the database and click on Edit



Exchange admin cen	ter					
recipients	servers da	tabases database availab	ility groups virtual director	ies certificates		
permissions						
compliance management	+ 🖊 🖻 🔎	Ø				
organization	NAME	ACTIVE ON SERVER	SERVERS WITH COPIES	STATUS	BAD COPY COUNT	
protection	Mailbox Databa	se 13264 EXCH01	EXCH01	Mounted	0	Mailbox Database 1326496149
mail flow						Servers EXCH01
mobile						Database copies
public folders						Mailbox Database 1326496149\EXCH01 Active Mounted Copy queue length: 0
unified messaging						View details
servers						
hybrid						
tools						

• Enter the new name of the Database in "Name" field and Click on Save

e	Mailbox database - Internet Explorer	_ <b></b>
Mailbox Database 1:	326496149	
general     maintenance     limits     client settings	Name: Database01 Database path: C:\Program Files\Microsoft\Exchange Server\V15\Mailbox\M. Last full backup:	The name of your new database.
	Last incremental backup: Status: Mounted	
	Mounted on server: Exch01.MSCLOUDTALKS.COM Master: EXCH01	
	Master type: Server Modified:	~
	15/24/2010 0:25 PW	Save Cancel



• You're done with the renaming of your database using Exchange Admin Center.

+ 〃 亩 ዖ ♂ …				
NAME 🔺	ACTIVE ON SERVER	SERVERS WITH COPIES ST	TATUS	BAD COPY COUNT
Database01	EXCH01	EXCH01 N	lounted	0

### **Rename Exchange 2016 Database from Exchange Management Shell**

Another method of renaming your Exchange 2016 database is to use <u>Exchange Management</u> <u>Shell</u>. To rename your database using EMS, follow the following steps.

- Run Exchange Management Shell as Administrator
- Run the following cmdlet in Exchange Management Shell
  - Set-MailboxDatabase -Identity "Database01" -Name DB01

F <sub>x</sub> <sup>2</sup>	Machine: Exch01.MSCLOUDTALKS.COM	_ <b>_</b> X
[PS] C:\Windows\system32)Set-Mailb [PS] C:\Windows\system32>_	xDatabase -Identity Database01 -Name DB01	÷.

In my case, I've renamed my Database01 database to DB01 using EMS

- To verify that the database is renamed, run the following cmdlet to retrieve database information
  - o Get-MailboxDatabase | ft Name, Server

E2	Machine: Exch01.MSCLOUDTALKS.COM	-	×	
LLBS 1	C:\Windows\system32>Get-MailboxDatabase   ft Name, Server		~	
Name	Server		=	1
DBØ1	EXCH01			
EPS 1	C:\Windows\system32>_			

## Exchange 2016 Edge Transport Server

Edge Transport servers minimize the attack to your exchange organization by handling all Internet-facing mail flow. Edge Transport Server can be used to provide SMTP relay and smart host services for Exchange organization. Edge Transport role performs anti-spam filtering and applies security and email policies to messages in transport. Always **Install Exchange 2016 Edge Transport server** in the perimeter network and outside of the Active Directory forest.

Renaming a server after Edge Transport Role installation isn't supported.



Before we install Exchange 2016 edge Transport Server role make sure that the following pre-requisites are met for edge transport server.

## **Edge Transport Network Requirement**

- You have allowed port 25 traffic from Internet to your Edge Transport Server.
- You have configured the Network ports between Edge Transport Server and Exchange 2016 Server. Network ports required for Edge Transport server to communicate with Exchange 2016 are as below.
  - Port **25** and **2525** for SMTP Mail flow
  - Port **53** for DNS Resolution
  - Port **3389** for Remote Desktop
  - Port 50389 for LDAP needs to be opened locally for LDAP binding
  - Port 50636 for Secure LDAP to provide directory synchronization from Mailbox servers to AD LDS

## **Edge Transport Installation**

- Follow the steps to install the edge transport server.
- Login to Edge Transport Server as local Administrator
- Set the Edge Server DNS Prefix by Navigating to My Computer --> Properties --> Click on Change under computer name, domain, workstation settings --> Under Computer Name, click on Change --> More --> and set the DNS Prefix. In my case it's mscloudtalks.com. This process requires you to restart your computer

		System		_	D X
🍥 🍥 = 🕇 🕎 🕨 Control	Panel	rstem	× ¢	Search Control Panel	م
Control Panel Home	View basic information	about your computer			6
🛞 Device Manager	Windows edition				
🛞 Remote settings	Windows Server 2012 R2 D	atacenter			
log Advanced system settings	© 2013 Microsoft Corpora	tion. All rights reserved.	Winc	lows Server <sup>20</sup>	12 R2
	System				
	Processor:	AMD Opteron(tm) Processor 4171 HE 2.10 GHz			
	Installed memory (RAM):	7.00 GB			
	System type:	64-bit Operating System, x64-based processor			
	Pen and Touch:	Limited Touch Support with 4 Touch Points			
	Computer name, domain, and	workgroup settings			
	Computer name:	Edge16		Change	settings
	Full computer name:	Edge16			
	Computer description:				
	Workgroup:	WORKGROUP			
	Windows activation				
	Windows is activated Rea	d the Microsoft Software License Terms			



	System Properties	Computer Name/Domain Changes	
Computer Name Hardware Windows use on the networe	are Advanced Remote sthe following information to identify your computer k.	You can change the name and the membership of this computer. Changes might affect access to network resources.	DNS Suffix and NetBIOS Computer Name
Computer <u>d</u> escription:	For example: "IIS Production Server" or "Accounting Server". Edma16	Edge16 Full computer name: Edge16	MSCLOUDTALKS.COM
To rename this compute workgroup, click Change	WORKGROUP r or change its domain or <u>Qhange</u>	Member of Domain:	NetBIOS computer name: EDGE16 This name is used for interoperability with older computers and services. OK Cancel
		Workgroup:     WORKGROUP     OK Cancel	
	OK Cancel Apply		

• Configure NIC to set the DNS server to point to your local DNS server.

eneral	Alternate Configur	ation						
You car this cap for the	n get IP settings assi ability. Otherwise, ) appropriate IP settir	igned auton you need to ngs.	ask you	if yo ur ne	ur ne twork	twork adm	k sup inistr	ports ator
<ul> <li>O</li> </ul>	otain an IP address a	automatical	у					
OUs	e the following IP a	ddress:						
IP a	ldress:				10			
Subr	iet mask:			ş	(ii)	3		
Defa	ult gateway:			8	ŝ.	<u>8</u> 4		
Ool	otain <mark>DN</mark> S server add	dress autor	natically					
- O Us	e the following DNS	server add	resses:					
Prefi	erred DNS server:		10 .	10	. 10	(a. )	4	
Alter	nate DNS server:			8	•	8		
Πv	alidate settings upor	n exit			1	Ad	vanc	ed

• Install AD LDS on Edge Transport Server Role by running the windows powershell cmdlet "Install-WindowsFeature ADLDS"



Success	Restart Needed	Exit Code	Feature Result
True	No	Success	{Active Directory Lightweight Directory Se
WARNING: Lightwei	To create a no ght Directory S	ew AD LDS insta Services Setup	unce on server, log on to the destination server and then run the Active Directory Wizard. For more information, see http://go.microsoft.com/fwlink/?LinkId=224859.

- Install .Net Framework 4.5.2. If you're using Windows Server 2012R2 then it's already been installed.
- Create "A" record in your DNS that point to Edge Transport Server.

	New Host
Name (uses parent	domain name if blank):
Edge 16	
-ully qualified doma	in name (FQDN):
Edge 16.MSCLOUD	TALKS.COM.
P address:	
192.168.10.5	
<ul> <li>Create associate</li> <li>Allow any authe</li> <li>same owner nan</li> </ul>	ed pointer (PTR) record nticated user to update DNS records with the ne
	Add Host Cancel

• Run the Exchange 2016 Setup as Administrator. I always recommend to Check for Updates. If you don't want to check select "Don't Check for updates right now" and click next



### ? X

next

## Check for Updates?

You can have Setup download Exchange Server 2016 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:

Onnect to the Internet and check for updates

<u>D</u>on't check for updates right now

### E B Exchange

• Setup will start the process of copying Exchange files for installation.



## Copying Files...

Setup needs to copy files that are required to install Exchange Server.

Copying files...

53%

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## E Exchange

• Once the copy process is completed, Setup will start the initial setup preparation.



## Initializing Setup...

Setup is preparing the necessary resources before it can continue to the next step.

## E Exchange

• Once the initialization is completed. Exchange Setup will start, Click on Next to continue.



## Introduction

Welcome to Microsoft Exchange Server 2016!

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 2016.

Plan your Exchange Server 2016 deployment:

Read about Exchange Server 2016

Read about supported languages

Use the Exchange Server Deployment Assistant

## E Exchange

next

• Read and accept the license agreement and click Next



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next

## License Agreement

Please read and accept the Exchange Server 2016 license agreement.

#### MICROSOFT SOFTWARE LICENSE TERMS

#### MICROSOFT EXCHANGE SERVER 2016 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

( I accept the terms in the license agreement

) I do not accept the terms in the license agreement.

### E Exchange

• Use Recommended Settings for Exchange to automatically check online for solutions when encountering errors and provide feedback to Microsoft and click Next.



## 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

E	3	Exc	ha	no	e
	-	LAC		9	-

back

next

• Select Edge Transport Server Role and "Automatically Install Windows Server Roles and Feature that are required to install Exchange Server" check box and click Next



## Server Role Selection

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



Automatically install Windows Server roles and features that are required to install Exchange Server

E B Exchange	back	<u>n</u> ext
Edge Transport Server role cannot coexist with Mailbox Server Role.		

• Select the installation path, In my case i'm installing it in C Drive as it's my test lab.



## Installation Space and Location

b<u>r</u>owse

Disk space required: 3676.2 MB

Disk space available: 111086.9 MB

Specify the path for the Exchange Server installation:

C:\Program Files\Microsoft\Exchange Server\V15

E Exchange

back

<u>n</u>ext

• Once the "Readiness Checks" are completed, Click on Install



## Readiness Checks

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

Prerequisite Analysis

100%

E Exchange

• Exchange 2016 Edge Server Installation process will start. Wait for the 9 step installation to be completed before you can configure your Exchange 2016 Edge Transport Server.



install

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Setup Progress

Step 2 of 9: Copy Exchange Files

16%

## E Exchange

Exchange Server 2016

## Setup Completed

Congratulations! Setup has finished successfully. To complete the installation of Exchange Server 2016, reboot the computer.

You can view additional post-installation tasks online by clicking the link: http://go.microsoft.com/fwlink/p/?Linkld=255372.

### E S Exchange

• Click on Finish to complete the installation of Edge Transport Server Role.

## **Configure Edge Transport Server**

## Introduction

Once you have installed the Exchange 2016 Edge Transport Server. Next step is to configure your Edge Transport Server for Mail flow and other policies that you would like to implement to your Exchange organization. If you have not installed your Edge Transport Server yet, you can install the Exchange 2016 Edge Transport Server by following the steps mentioned <u>here</u>

Edge Transport Server Role is optional in Exchange 2016. It's up to you to use Edge Transport Server Role for SMTP Mail flow or use 3rd party appliance from Barracuda, IronPort etc.



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## **Configuring Exchange 2016 Edge Transport Server**

Configuration of Exchange 2016 Edge Transport Server is based on Exchange Management Shell. Just Like Exchange 2013, Exchange 2016 Edge Transport Server do not have Graphical interface available.

### **Verify Edge Services**

Before you start Edge Server configuration, test the edge transport server installation by running the Exchange Management Shell cmdlet *Test-ServiceHealth* 



• Verify Transport Agents are enabled.

Identity	Enabled	Priority
Connection Filtering Agent	True	1
Address Rewriting Inbound Agent	True	2
Edge Rule Agent	True	3
Content Filter Agent	True	4
Sender Id Agent	True	5
Sender Filter Agent	True	6
Recipient Filter Agent	True	7
Protocol Analysis Ägent	True	8
Attachment Filtering Agent	True	9
Address Rewriting Outbound Agent	True	10

• You can disable or change the priority of any transport agent that you want. To disable a transport agent, run the EMS cmdlet Disable-TransportAgent -Identity "Agent Name"

You need to restart MSExchangeTransport Service whenever you disable or enable Transport Agent.

• Verify Edge Transport server components state



Server	Component	State
Edge16.MSCLOUDTALKS.COM	ServerWideOffline	Active
Edge16.MSCLOUDTALKS.COM	HubTransport	Active
Edge16.MSCLOUDTALKS.COM	FrontendÎransport	Active
Edge16.MSCLOUDTALKS.COM	Monitoring	Active
Edge16.MSCLOUDTALKS.COM	RecoveryActionsEnabled	Active
Edge16.MSCLOUDTALKS.COM	AutoDiscoverProxy	Active
Edge16.MSCLOUDTALKS.COM	ActiveSyncProxy	Active
Edge16.MSCLOUDTALKS.COM	EcpProxy	Active
Edge16.MSCLOUDTALKS.COM	EwsProxy	Active
Edge16.MSCLOUDTALKS.COM	ImapProxy	Active
Edge16.MSCLOUDTALKS.COM	OabProxy	Active
Edge16.MSCLOUDTALKS.COM	OwaProxy	Active
Edge16.MSCLOUDTALKS.COM	PopProxy	Active
Edge16.MSCLOUDTALKS.COM	PushNotificationsProxy	Active
Edge16.MSCLOUDTALKS.COM	RpsProxy	Active
Edge16.MSCLOUDTALKS.COM	RwsProxy	Active
Edge16.MSCLOUDTALKS.COM	RpcProxy	Active
Edge16.MSCLOUDTALKS.COM	UMCallRouter	Active
Edge16.MSCLOUDTALKS.COM	XropProxy .	Active
Edge16.MSCLOUDTALKS.COM	HttpProxyAvailabilityGroup	Active
Edge16.MSCLOUDTALKS.COM	ForwardSyncDaemon	Inactive
Edge16.MSCLOUDTALKS.COM	ProvisioningRps	Inactive
Edge16.MSCLOUDTALKS.COM	MapiProxy	Active
Edge16.MSCLOUDTALKS.COM	EdgeTransport	Active
Edge16.MSCLOUDTALKS.COM	HighAvailability	Active
Edge16.MSCLOUDTALKS.COM	SharedCache	Active
Edge16.MSCLOUDTALKS.COM	MailboxDeliveryProxy	Active
Edge16.MSCLOUDTALKS.COM	RoutingUpdates	Active
Edge16.MSCLOUDTALKS.COM	RestApiProxy	Active

• Verify default Receive Connector on Edge server



ha blackstanien : Ile, ExchangeServer BinaryTheeEnabled : Inue BinaryTheeEnabled : Inue Brank isonation : Inue Brank isona	[PS] C:\Windows\system32>Get-ReceiveConn	ector   fl
Bindings Findings Fund ings Fund ings Fu	AuthMechanism Descent	: Tls, ExchangeServer
Bindings Bindin	Banner BinaruMimeFnahled	
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Once you have verified Edge Transport Server. Next step is to create Edge Subscription.

## **Edge Subscription**

• To create Edge Transport Subscription, run the following cmdlet



[PS] C:\Windows\system32>New-EdgeSubscription -FileName "C:\Users\rjbutt\Desktop\Edge.XML"
Confirm
If you create an Edge Subscription, this Edge Transport server will be managed via EdgeSync replication. As a result,
any of the following objects that were created manually will be deleted: accepted domains, message classifications,
remote domains, and Send connectors. After creating the Edge Subscription, you must manage these objects from inside
the organization and allow EdgeSync to update the Edge Transport server. Also, the InternalSMTPServers list of the
TransportConfig object will be overwritten during the synchronization process.
EdgeSync requires that this Edge Transport server is able to resolve the FQDN of the Mailbox servers in the Active
Directory site to which the Edge Transport server is being subscribed, and those Mailbox servers be able to resolve th
FQDN of this Edge Transport server. You should complete the Edge Subscription inside the organization in the next
"1440" minutes before the bootstrap account expires.
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y
[PS] C:\Windows\system32>

Carefully Read the message before you confirm. Once the edge subscription is created with Mailbox Servers then your edge server will be managed via EdgeSync replication.

- Copy the XML file from Edge Transport Server to your mailbox Server.
- Run the following cmdlet on your mailbox server

[PS] C:\Win	dows\system32>New-E	eSubscription -FileData {[byte[]]\${Get-Content -Path "C:\Users\Rjbutt\Desktop\Edge.x	ml"
-Encoding B	yte -ReadCount 0>>	ite "Exchange"	
Name	Site	Domain	
Edge16	MSCLOUDTALKS.C	V MSCLOUDTALKS.COM	ess
WARNING: Ed	geSync requires tha	the Mailbox servers in Active Directory site Exchange be able to resolve the IP addr	
for Edge16	.MSCLOUDTALKS.COM a	be able to connect to that host on port 50636.	
[PS] C:\Win	dows\system32}_		

Carefully read the warning message and make sure you have a local DNS entry and Port 50636 opened on your local LAN for Edge and Mailbox server.

• Start the edge sync service from Services.MSC

This cmdlet completes the edge subscription setup for your Exchange 2016. Next Step is to verify the Edge Server subscription.

### Verify Edge Subscription

• To verify the edge subscription, run the following cmdlets

[PS] C:\Windows\system32>Te:	t-EdgeSynchronization
PupanasaId	• £25046-7-0556-44-7-554-6504-01011EE
Runspaceru	· 1310406/771017446/70016700467171133
Sylicolatus	• NUTIDAL • E202046 40.54.22 DM
ULCHUW	- 5/0/2010 10-51-53 FN
Name	
Leaseholder	: CN=EXCH01, CN=Servers, CN=Exchange Hdministrative Group (FYDIBOHF23SPDLT), CN=Administrative Groups, CN=MSCLOUDTALKS, CN=Microsoft Exchange, CN=Services, CN=Configuration, DC=MSCLOUDTALKS, DC=COM
LeaseType	: Option
FailureDetail	
LeaseExpiryUtc	: 5/8/2016 11:21:11 PM
LastSynchronizedUtc	: 5/8/2016 10:51:11 PM
TransportServerStatus	: Skipped
TransportConfigStatus	: Skipped
AcceptedDomainŠtatus	: Skipped
RemoteDomainStatus	: Skipped
SendConnectorStatus	: Skipped
MessageClassificationStatus	: Skipped
RecipientStatus	: Skipped
CredentialRecords	: Number of credentials 3
CookieRecords	: Number of cookies 2



P	• C2C04C-9-0CVC-44-9-VV1CV04-01011F
Runspaceia	• 13104007=71D1=44C7=DD1C=0D04C7171153
	- Success
I ype	- Recipients
Name	Edgelb
FailureDetails	- F 10 1001/ 10-F0-15 DM
Startuic	: 5/8/2016 10:52:17 PM
Enduig	: 5/8/2016 10:52:17 PM
Haded	
Deleted	
Updated	
Scanned	: 0
TargetScanned	: 0
RunspaceId	: f3f846e7-9fbf-44c7-bb1c-6b84c9191155
Result	: Success
Туре	: Configuration
Name	: Edge16
FailureDetails	
StartUTC	: 5/8/2016 10:52:17 PM
EndUTC	: 5/8/2016 10:52:17 PM
Added	: 0
Deleted	: 0
Updated	: 0
Scanned	: 0
TargetScanned	: 0

Configure the Internal SMTP Servers if you want to bypass any of your server from Edge Sender ID and Connection Filtering agent.

