

Upgrade to Skype for Business Server 2015 Jude Perera







This step by step module is aimed at IT Pros that are looking forward in performing an in-place upgrade from Lync Server 2013 to Skype for Business Server 2015 environment in organizations. The document will be updated when and where new content is written and will be published as revisions.

If you encounter any area that may require attention or alterations please feel free to contact me and I would be happy to address you.

Change log

Rev 01: Provided with additional screenshots and configurations from Skype for Business Server 2015 RTM

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1 Introduction

The below section describes a step-by-step guide for upgrading a Microsoft Lync Server 2013 to Microsoft® Skype for Business Server 2015. Unlike previous versions of Lync, Skype for Business now supports in-place upgrading. Meaning that you can use your existing Lync Server 2013 hardware to be used for Skype for Business. Read more <u>here</u>.



The installation considers a single server environment with a Lync Server 2013 with the basic roles collocated. Additional details of the topology and architecture of the lab environment which was used in the installation is described here;

Domain Controller				
Operating System	Windows Server 2012 R2			
Forest func Level	Windows Server 2012 R2			
Domain func Level	Windows Server 2012 R2			
Lync Server 2013				
Operating System	Windows Server 2012 R2			
Server Edition	Lync 2013 Standard Edition			

Note: The in-place upgrade requires all Lync Server 2013 services to be stopped. Therefore a mandatory user downtime will be required for an approx. of 45-90 minutes (may vary). So as a best practice;

- 1. Choose a weekend for your upgrade.
- 2. Notify all users of the downtime.
- 3. Take backups.
- 4. Get some pop-corn, a movie and a Red Bull.

The upgrade process for S4B is quite easy and features 5 steps;

- 1. Prepare Environment and Install prerequisites
- 2. Upgrade, Publish Topology and upgrade databases using Topology Builder.
- 3. Stop all Lync Server 2013 services.
- 4. Perform in-place upgrade.
- 5. Start Services, verify and Go home!

2 Prepare Environment and Install prerequisites

Ensure that your Lync Server 2013 server has the latest patches. Download and install following hotfixes, patches;

- Install CU5+ latest hotfix to Lync 2013 topology
- PowerShell RTM version (6.2.9200.0) or later
- Have at least SQL server 2012 SP1 installed*
- Operating System Hotfixes:
 - o <u>Kb2533623</u> Windows Server 2008 R2
 - o <u>Kb2858668</u> Windows Server 2012
 - o <u>KB2982006</u> Windows Server 2012 R2

*Lync Server 2013 comes with and installs SQL server 2012 express natively. However you may need to update your SQL express with the SP1 or later.

Note: In case you missed any S4B prerequisites, fear not. The Upgrade wizard will check and ask you do get the requirements installed and you can resume the setup.

3 Upgrade, Publish Topology and upgrade databases using Topology Builder

Note: It is required that the Skype for Business Topology Builder installation should be performed on a server or a workstation that has not been configured with any Lync Server 2013 components. For the demonstration of the lab, a Windows 8.1 workstation will be used.

- 1. On a Server/Computer that has no Lync Server roles deployed, insert the Skype for Business installation media.
- 2. Navigate to X:\Setup\amd64\ and run Setup.exe
- 3. On the installation page, select the Update option and click Install.

Skype for Business Server 2015				
S Skype for Business Server				
To install Skype for Business Server 2015, Core Components and start the Deployment Wizard, click Install				
Check for Updates?				
Onnect to the internet to check for updates				
O Don't check for updates right now				
Specify the location for the installation files. Any additional Skype for Business Server components that you install will also go to this folder Installation Location: C.\Program Files\Skype for Business Server 2015 Browse Browse				
Help Install Cancel				

4. On the End User License Agreement page, select the I accept term and click OK.



5. The Setup will install the core components.



ā	Install Administrative Tools		×		
S	Executing Commands				
Checkin Checkin Checkin Checkin Checkin Checkin Checkin Checkin Installin Installin	Checking prerequisite NoBootstrapperOnBranchOfficeApplianceprerequisite satisfied. Checking prerequisite SupportedOSprerequisite satisfied. Checking prerequisite NoOtherVersionInstalledprerequisite satisfied. Checking prerequisite WMIEnabledprerequisite satisfied. Checking prerequisite NoOtherVersionInstalledprerequisite satisfied. Checking prerequisite NoOtherVersionInstalledprerequisite satisfied. Checking prerequisite SupportedOSprerequisite satisfied. Checking prerequisite PowerShellprerequisite satisfied. Checking prerequisite VCredistprerequisite satisfied. Checking prerequisite VCredistprerequisite satisfied. Checking prerequisite SqlNativeClientprerequisite satisfied. Installing SQLSysClrTypes.msi(REBOOT=ReallySuppress)				
		View Log			
Help	Back Finish	Cancel			

6. Once the installation is completed, click Finish to exit the wizard.

3	Install Administrative Tools	х		
S	Executing Commands			
Checkii Checkii Installii Installii BOOT= Installii INSTAL No dat No role	Checking prerequisite PowerShellprerequisite satisfied. Checking prerequisite VCredistprerequisite satisfied. Checking prerequisite SqlNativeClientprerequisite satisfied. Installing SQLSysCIrTypes.msi(REBOOT=ReallySuppress)success Installing SharedManagementObjects.msi(REBOOT=ReallySuppress)success Installing Setup\UcmaRuntime.msi(REBOOT=ReallySuppress EXCLUDETRACING=1 BOOT=1)success Installing AdminTools.msi(ADDLOCAL=Feature_AdminTools REBOOT=ReallySuppress INSTALLDIR="C:\Program Files\Skype for Business Server 2015\")success No databases discovered, skipping Install-CsDatabase No roles discovered, skipping Enable-CsComputer			
Task sta Bootstra	tus: Completed. p admin tools	g		
Help	Back Finish Cance			

7. Click Start, search and run Skype for Business Server 2015 Topology Builder.



8. On the Topology Builder window, select **Download Topology from existing deployment** and click **OK**. This will download the existing Lync 2013 topology.

29	Skype for Business Server 2015, Topology Builder	- 🗆 🗙
File Action Help	Define a new deployment from the Actions pane	
	 Velcome to Topology Builder. Select the source of the Skype for Business Server topology document. Download Topology from existing deployment Retrieve a copy of the current topology from the Central Management store and save it as a local file. Use this option if you are editing an existing deployment. Open Topology from a local file Open an existing Topology Builder file. Use this option if you have work in progress. New Topology Create a blank topology and save it to a local file. Use this option for defining new deployments from scratch. Help 	

- 9. Save the topology to a preferred location.
- 10. On the Topology Builder, expand and navigate to Skype for Business Server > Lync Server 2013 > Standard Edition Front End Servers. (This is your existing front end pool)



11. Right click on the FQDN of the Lync 2013 under the Standard Edition Front End Servers section and click on Upgrade to Skype for Business Server 2015.

6	Sky	pe for Business Server	2015,	Topology
File Action Help				
 Is Skype for Business Sen Image: Contoso.com 				
 Lync Server 201 Lync Server 201 Standard Ed 	0 3 ition Front End Servers	FQDN:		2013-LYNC
2015.1V	Edit Properties			Use all conf
Direct	Upgrade to Skype for B	Business Server 2015		
Persist	Topology			Enabled
Dia Edge p □ Truste	Delete			Enabled
Skype for Standa	Help			Enabled
Director poo	dition Front End pools	Enterprise Voice:		Enabled
🚞 Mediation p 🛅 Persistent C	ools hat pools	Associations		
·	-	COL 0		2012 LVMC

12. On the confirmation window, click Yes. (Please note that this step is not reversible)

Upgrade to Skype for Business Server 2015	×
Are you sure you want to upgrade the selected pool to Skype for Business Server 2015? If you click Yes, Topology Builder will move the pool to the Skype for Business Server 2015 node. After that you can then upgrade the pool by running the Skype for Business Server 2015 Deployment Wizard.	
Yes No	

13. Once completed, note that your existing Lync 2013 Front End server(s) will be moved and listed under the Topology Builders' Skype for Business Server 2015 section.



14. On the topology builder, right click on the Skype for Business Server and select Publish Topology.



15. On the Publish Topology window, click on Next.

16	Publish Topology	×
Puk	plish the topology	
In or publ com	rder for Skype for Business Server 2015 to correctly route messages in your deployment, you must ish your topology. Before you publish the topology, ensure that the following tasks have been pleted:	
 completed: A validation check on the root node did not return any errors. A file share has been created for all file stores that you have configured in this topology. All simple URLs have been defined. For Enterprise Edition Front End pools and Persistent Chat pools and for Monitoring Servers and Archiving Servers: All SQL Server stores are installed and accessible remotely, and firewall exceptions for remote access to SQL Server are configured. For a single Standard Edition server, the "Prepare first Standard Edition server" task was completed. You are currently logged on as a SQL Server administrator (for example, as a member of the SQL sysadmin role). If you are removing a Front End pool, all users, common area phones, analog devices, application contact objects, and conference directories have been removed from the pool. When you are ready to proceed, click Next. 		
F	lelp Back Next Cancel	

16. On the Select databases page, select the database that will be used to publish the topology and click Next.

8		Publish ⁻	Гороlоду	×
Seleo	ct databases			
The da upgrad choose approp permis Choos	The databases listed below are a part of your topology, but they have either not been created or upgraded on your SQL Server yet. If you have the appropriate permission in SQL Server, you can choose to create or upgrade the databases when your topology is published. If you do not have the appropriate permissions (or you are just not sure), you can have someone with appropriate SQL Server permissions create or update these databases later. Choose the databases you would like to create when you publish your topology:			
	Store	Site	Database paths	
✓	2013-LYNC-MGT.Conto	Contoso.com	Automatically determine database file locat	
Note: on a Si 2015 s Manac	This wizard will only install d QL Server that is collocated etup on the server. And you	atabases on dedic with other server r need to install the	Advanced ated SQL Servers. If you want to install a database oles, you'll need to run Skype for Business Server e same version of the Skype for Business Server red with the database. So the Lync Server 2010	_ _
Management Shell would be used for Lync Server 2010 components, while the Lync Server 2013 Management Shell would be used for Lync Server 2013 components.				
He	lp		Back Next Cance	

17. Now the new topology will be published.

1	Publish Topology	×
	Publishing in progress	
	Please wait while Topology Builder tries to publish your topology.	
	Enabling topology	^
	Note: The cmdlet Enable-CsTopology might cost seconds to a few hours depending on your system configuration. Please wait until the progress completes	
	Succeeded	
	Creating Database 2013-LYNC-MGT.Contoso.com\Mon	
	****Creating DbSetupInstance for 'Microsoft.Rtc.Common.Data.MonitoringDatabase'****	
	Trying to connect to Sql Server 2013-LYNC-MGT.Contoso.com\Mon. using windows authentication	~
	Back Next Cancel	

18. Once the wizard is completed, verify that the status of all steps are Successful. Click next to exit.

9	Publish Topology			×	
Publishing wizard complete					
You	r topology was successfully published.				
	Step	Status	^		
-	Publishing topology	Success	View Logs		
	Downloading topology	Success		_	
	Downloading global simple URL settings	Success			
	Updating role-based access control (RBAC) roles	Success			
-	Enabling topology	Success	\sim		
 Next steps: Click here to open to-do list In order for Skype for Business Server 2015 to correctly route traffic, your deployment must match the published topology. The linked text file contains a list of any servers that need to be updated, as well as any databases that need to be created. To close the wizard, click Finish. 					
	Help	Back Finish	n Cancel		

4 Stop Lync Server 2013 services

Now that the Lync topology is marked as 'To be upgraded', we will be shutting down all Lync services running on all Front End servers within the pool. Note that during this time users will be affected with a downtime. If you do not wish to have a downtime, you can move the users to a different pool as a temporary measure.

- 1. Navigate to a Lync Server 2013 server.
- 2. Open the Lync Server Management Shell.
- 3. Type the below command and press enter. This will stop all Lync 2013 services on the server.

Disable-CsComputer -Scorch



5 Perform In-place Upgrade

Now that we have stopped all Lync 2013 pool services in all the front end servers, we will move with the in-place upgrade of Skype for Business Server 2015.

- 1. Navigate to the Lync 2013 Front End server.
- 2. Locate the installation media on your computer, and then double-click \Setup\amd64\Setup.exe
- 3. Microsoft Visual C++ setup will be installed.

Height Microsoft Visual C++ 2013 Redistributable (x64) - 12 □ ×
Microsoft Visual C++ 2013 Redistributable (x64) - 12.0.21005
Setup Progress
Processing: Microsoft Visual C++ 2013 x64 Minimum Runtime - 12.0.21005
Cancel

- 4. Once completed, the Skype for Business Upgrade Setup wizard will be loaded.
- 5. You can choose an option to whether to install any updates at this stage or install them later. Click Next to proceed.

Skype for Business Server 2015
Skype for Business Server
If you're ready to upgrade to Skype for Business Server 2015, click Next.
Check for Updates?
 Connect to the internet to check for updates
○ Don't check for updates right now
Help Next Cancel

6. On the License Agreement page, accept and click OK.

7. Now a new window will be loaded that will give a real time status of your in-place upgrade.

Skype for Business Server 2015
Skype for Business Server
We're installing Skype for Business Server 2015. This could take a few minutes.
····· Verifying upgrade readiness
Installing missing prerequisites
Uninstalling roles
Detaching database
Uninstalling local management services
Installing and configuring core components
Installing administrative tools
Installing local management services
Attaching database
Upgrading database
Enabling replica
Installing roles
Verifying installation
Checking machines status
View Logs OK Cancel

8. Each performed task and relevant information will be displayed on the lower part of the window.



9. Skype for Business will now perform the upgrade process as shown in the upgrade window.

Skype for Business Server 2015
Skype for Business Server
We're installing Skype for Business Server 2015. This could take a few minutes.
✓ Verifying upgrade readinessSuccess
✓ Installing missing prerequisitesSuccess
····· Uninstalling roles
Detaching database
Uninstalling local management services
Installing and configuring core components
Installing administrative tools
Installing local management services
Attaching database
Upgrading database
Enabling replica
Installing roles
Verifying installation
Executing PowerShell command: Disable-CSComputer -Confirm:\$false -Verbose -Scorch - Report "C:\Users\Administrator.Contoso\AppData\Local\Temp\1\Disable-CSComputer- [2015_05_15][14_48_45].html"
View Logs OK Cancel

10. If any prerequisites is missing, the installation will prompt for the missing bits. Install the missing bits and you can continue from Step 2 where the setup will resume from where it left off.

11. Once the upgrade process is completed, ensure all tasks have been executed successfully and click on OK.

Skype for Business Server 2015	x
Skype for Business Server	
Upgrade to Skype for Business Server 2015 completed successfully!	
✓ Verifying upgrade readinessSuccess	
✓ Installing missing prerequisitesSuccess	
✓ Uninstalling rolesSuccess	
✓ Detaching databaseSuccess	
 Uninstalling local management servicesSuccess 	
✓ Installing and configuring core componentsSuccess	
✓ Installing administrative toolsSuccess	
✓ Installing local management servicesSuccess	
✓ Attaching databaseSuccess	
✓ Upgrading databaseSuccess	
 Enabling replicaSuccess 	
✓ Installing rolesSuccess	
✓ Verifying installationSuccess	
'Verifying installation' completed successfully	
View Logs OK Canc	el

12. On the Next Steps page, review and click OK.

Skype for Business Server 2015
Skype for Business Server
Upgrade to Skype for Business Server 2015 completed successfully! Next Steps:
After you've upgraded all the servers in the pool, you'll need to run one of the following cmdlets in the Skype for Business Server Management Shell:
 To start servers in a front end pool, connect to one of the servers in the pool and run the Start-CsPool cmdlet
 To start servers in all other pools (e.g. Edge pool, Mediation pool), run the Start- CsWindowsService cmdlet on every server in the pool
ОК

6 Start Services

Prior to starting the services of your Front End Servers/Pool ensure that all servers within the selected pool is successful with the In-Place upgrade setup. Once this term is ensured, the following command will be run on a single Front End server that will start Skype for Business services on all the services within the pool

- 1. Navigate to Skype for Business PowerShell console.
- 2. Start all Skype for Business services on the server by running the following command. Start-CsPool

Now it's time to test and verify that all services are up and running. You can use the Event viewer and Logs to collect information for any warnings and errors.

– End –

http://bit.ly/skype4b