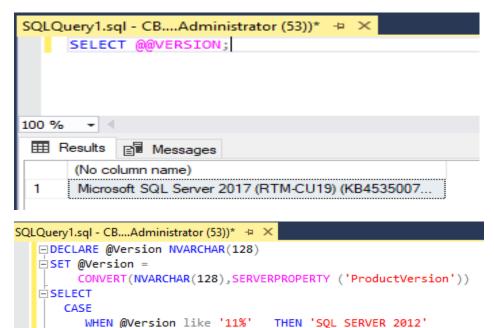
Upgrade SQL 2017 to SQL 2019

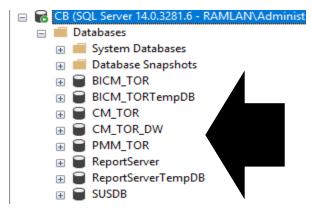
In this post, I will show you how to upgrade SQL Server 2017 CU19 to SQL Server 2019 CU4. I am currently running SQL 2017 Enterprise Version. The SQL Server is running on Microsoft Endpoint Configuration Manager (CB2002).

Here is the screen shot



	WHEN @Version	lika '19%'	THEN 'SOL SERVER 20	14'
	~		-	
	WHEN @Version	like '13%'	THEN 'SQL SERVER 20	916'
	WHEN @Version	like '13%'	THEN 'SQL SERVER 20	917'
	ELSE 'Unknown'			
	END AS 'Sql Serve	r Version Nam	ne',	
	SERVERPROPERTY('P	roductVersion	<pre>n') AS ProductVersic</pre>	on,
	SERVERPROPERTY('E	dition') AS E	Edition,	
	SERVERPROPERTY('P	roductLevel'	AS ProductLevel	
100 %				
III F	Results 📑 Messages			
	Sql Server Version Name	ProductVersion	Edition	ProductLevel
1	Unknown	14.0.3281.6	Enterprise Edition (64-bit)	RTM

To be safe, I will backup all the database. Following are some of the database within CB2002.



Will create Maintenance Plan.

		management								
	+	🗄 🧣 Policy Management								
	+	🗄 📷 Data Collection								
	Resource Governor									
	+	Extended Eve	ents							
		Maintenance	• Plar	ns						
	+	💼 SQL Server L		New Maintenance Plan						
		🚽 Database Ma		Maintenance Plan Wizard						
		Distributed 1								
	+	📕 Legacy		View History						
+		Integration Serv		Reports						
+	묦	SQL Server Ager		· · · · · · · · · · · · · · · · · · ·						
+	4	XEvent Profiler		Refresh						

🛐 Maintenance Plan Wizard

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SQL Server Maintenance Plan Wizard

This wizard helps you create a maintenance plan that SQL Server Agent can run on a regular basis. With this wizard you can perform routine database administration tasks such as:

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- Check database integrity
- Perform index maintenance
- Update database statistics
- Perform database backups

This wizard will create maintenance plans that can be edited in SQL Server Management Studio. Edit maintenance plans to add new tasks or define workflow among the tasks.

Do not show this starting page again.

Help	< Back	Next >	Finish	Cancel

🛐 Maintenance Plan W	_						
	Select Plan Properties How do you want to schedule your maintenance tasks?						
Name:	CB2002						
Description:					~		
					× .		
Run as:	SQL Server Ager	nt service accour	t		\sim		
O Seconda cabadadaa	for each tool.						
 Separate schedules Single schedule for t 		o schedule					
<u></u>							
Schedule: Not scheduled (On Demar	nd)				Change		
	,				ondinge		
Help		< Back	Next >	Finish	Cancel		
🛐 Maintenance Plan W	lizard			_	\Box ×		
Select Maintenar Which tasks should the					-		
Select one or more mainte	nance tasks:						
Check Database Integ	grity						
Shrink Database							
Rebuild Index Update Statistics							
Clean Up History							
Execute SQL Server	-						
Back Up Database (F Back Up Database (D							
Back Up Database (T							
Maintenance Cleanup	Task						
The Check Databas within the database.		forms internal cor	sistency checks	of the data and i	ndex pages		
Help		< Back	Next >	Finish	Cancel		

		- 🗆 ×
Select Maintenance Task In which order should these tasks b		
Select the order for the tasks to execute	e:	
Check Database Integrity Back Up Database (Full)		
	Move U	p Move Down
The Check Database Integrity tas within the database.	sk performs internal consistency check	s of the data and index pages
Help	< Back Next >	Finish Cancel
Maintenance Plan Wizard Define Database Check In	nteority Task	×
Configure the maintenance task.		
Databases: Sp	pecific databases	▼
✓ Include indexes ✓ Physical Only		
Tablock	1 🜲	
Schedule: Not scheduled (On Demand)		Change
Not scheduled (On Demand)	< Back	
	< Back	Change Next > Finish >> Cancel
Not scheduled (On Demand)	< Back	
Not scheduled (On Demand)	< Back	
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🗃 Maintenance Plan Wizard			—		\times
Define Back Up Databas Configure the maintenance task				-	
General Destination Options					
Backup type:	Full				
Database(s):	Specific databases				-
Backup component					
Database					
Files and filegroups:					
Back up to:	Disk ~				
chedule: Not scheduled (On Demand)				Change	
Help	< Back	Next > Finish		Cance	2
All databases					
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O All user databases (excluding r tempdb)	naster, model, msdb,				
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BICM_TORTempDB CM_TOR					
CM_TOR_DW					
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Medb PMM_TOR					
ReportServer					
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🧊 Maintenance Plan Wizard		_			(
Select Report Options					-
Select options for saving or district	outing a report of the maintenance	pian acuons.			
Write a report to a text file					
	C:\Temp\CBDB				
Folder location:	C. (Temp (CBDB				
E-mail report					
To:					~
There are no operators defined	on the system.				
-					
Help	< Back Next	> Finish >>		Cancel	

	mplete the Wizard Verify the choices made in the wizard, ar	nd then click Fini	sh.					
ick	Finish to perform the following actions:							
	Maintenance Plan Wizard Create Maintenance Plan 'CB2002' Define Database Check Integrity Ta Define Back Up Database (Full) Tas Selected reporting options							
	Help	< Back	Next >	F	nish		Cance	el
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Now execute MP

🖃 📕 Maintenance Plans						
 		New Maintenance Plan Maintenance Plan Wizard View History Modify Execute				
XEvent Pro		Reports •				
		Rename Delete				
		Refresh				

🖄 Execute Maintenance Plan		- 🗆 ×
Status:		
1 Remaining	1 Total 0 Success	0 Error 0 Warning
Details:		
Action	Status	Message
• Execute maintenance plan. CB2002	In progress	
	Stop	Report 🔻
Execute Maintenance Plan Status:		– 🗆 ×
Success	1 Total 1 Success	0 Error 0 Waming
Details:		
Action	Status	Message
Execute maintenance plan. CB2002	Success	
	Close	Report 💌

OS (C:) > Program Files > Microsoft SQL Server > MSSQL14.MSSQLSERVER > MSSQL > Backup

Name	Date modified	Туре	Size
BICM TOR backup 2020 04 04 135204 8604667.bak	04-Apr-2020 1:52	BAK File	<u>20,571 KB</u>
BICM TORTempDB backup 2020 04 04 135204 8684457.bak	04-Apr-2020 1:52	BAK File	<u>4,119 KB</u>
CM TOR backup 2020 04 04 135204 8744401.bak	<u>04-Apr-2020 1:52</u>	BAK File	<u>3,078,862 KB</u>
CM TOR DW backup 2020 04 04 135204 8814359.bak	<u>04-Apr-2020 1:52</u>	BAK File	<u>1,639,545 KB</u>
master backup 2020 04 04 135204 8864333.bak	<u>04-Apr-2020 1:52</u>	BAK File	<u>4,059 KB</u>
model backup 2020 04 04 135204 8924325.bak	<u>04-Apr-2020 1:52</u>	BAK File	<u>2,841 KB</u>
msdb backup 2020 04 04 135204 8988505.bak	<u>04-Apr-2020 1:52</u>	BAK File	<u>24,691 KB</u>
PMM TOR backup 2020 04 04 135204 9040565.bak	<u>04-Apr-2020 1:52</u>	BAK File	<u>3,415 KB</u>
ReportServer backup 2020 04 04 135204 9100695.bak	<u>04-Apr-2020 1:52</u>	BAK File	<u>87,139 KB</u>
ReportServerTempDB backup 2020 04 04 135204 9160488.bak	<u>04-Apr-2020 1:52</u>	BAK File	<u>5,527 KB</u>
SUSDB backup 2020 04 04 135204 9220452.bak	<u>04-Apr-2020 1:52</u>	BAK File	<u>2,753,635 KB</u>

SQLQ	uery3.sql - CBdmi	nistrator (116	<mark>i))* ≠ ×</mark> Maintenance	ePlan CB2002 [D	esign]*				
	<pre>>select p.name as 'Maintenance Plan' ,p.[description] as 'Description' ,p.[owner] as 'Plan Owner' ,sp.subplan_name as 'Subplan Name' ,sp.subplan_description as 'Subplan Description' ,j.name as 'Job Name' ,j.[description] as 'Job Description' from msdbsysmaintplan_plans p inner join msdbsysmaintplan_subplans sp on p.id = sp.plan_id inner join msdbsysjobs j on sp.job_id = j.job_id where j.[enabled] = 1</pre>								
100 %									
E F	Results 📑 Message	es							
	Maintenance Plan	Description	Plan Owner	Subplan Name	Subplan Description	Job Name	Job Description		
1	CB2002	NULL	RAMLAN\Administrator	Subplan_1		CB2002.Subplan_1	No description available.		

CB > DVD Drive (E:) SQL2016_x64_ENU >

	Name	Date modified	Туре	Size	
	1033 ENU LP	24-Sep-2019 11:51	<u>File folder</u>		
7	redist	<u>24-Sep-2019 11:15</u>	<u>File folder</u>		
*	resources	24-Sep-2019 10:09	<u>File folder</u>		
*	Tools	25-Sep-2019 12:28	<u>File folder</u>		
*	<u>k x64</u>	25-Sep-2019 6:46	<u>File folder</u>		
*	autorun.inf	24-Sep-2019 10:32	Setup Information	<u>1 KB</u>	
*	Medialnfo.xml	24-Sep-2019 10:32	XML Document	<u>1 KB</u>	
*	💹 <u>setup.exe</u>	24-Sep-2019 10:32	Application	<u>124 KB</u>	
	🔁 <u>setup.exe.config</u>	24-Sep-2019 10:32	XML Configuratio	<u>1 KB</u>	
	SqlSetupBootstrapper.dll	24-Sep-2019 10:32	Application extens	<u>216 KB</u>	

髋 SQL Server Installation Center

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Planning		New SQL Server stand-alone installation or add features to an existing installation
Installation		Launch a wizard to install SQL Server 2019 in a non-clustered environment or to add features to an existing SQL Server 2019 instance.
Maintenance		reading to an existing sign server zons instance.
Tools	=	Install SQL Server Reporting Services
Resources		Launch a download page that provides a link to install SQL Server Reporting Services. An internet connection is required to install SSRS.
Advanced	8.7	Install SQL Server Management Tools
Options		Launch a download page that provides a link to install SQL Server Management Studio, SQL Server command-line utilities (SQLCMD and BCP), SQL Server PowerShell provider, SQL Server Profiler and Database Tuning Advisor. An internet connection is required to install these tools.
		Install SQL Server Data Tools
		Launch a download page that provides a link to install SQL Server Data Tools (SSDT). SSDT provides Visual Studio integration including project system support for Microsoft Azure SQL Database, the SQL Server Database Engine, Reporting Services, Analysis Services and Integration Services. An internet connection is required to install SSDT.
	-	New SQL Server failover cluster installation
		Launch a wizard to install a single-node SQL Server 2019 failover cluster. This action is only availabe in the clustered environment.
	.	Add node to a SQL Server failover cluster
	\$1	Launch a wizard to add a node to an existing SQL Server 2019 failover cluster. This action is only availabe in the clustered environment.
	-	Upgrade from a previous version of SQL Server
	2	Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2019. Click here to first view Upgrade Documentation
	-	New Machine Learning Server (Standalone) installation
	1	Launch a wizard to install Machine Learning Server (Standalone) on a Windows machine. This is typically used by data scientists as a standalone analysis server or as a SQL Server Machine Learning Services client.
Microsoft SQL Server 2019		······································

🐻 Upgrade to SQL Server 2019			_		\times
Product Key					
Specify the edition of SQL Se	rver 2019 to install.				
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 Upgrade to SQL Server 2019 License Terms To install SQL Server 2019, y 	ou must accept the Microsoft Software License Terms.	< Back	Next >	Cance	×
Product Key License Terms	MICROSOFT SOFTWARE LICENSE TERMS				^
Global Rules	MICROSOFT SQL SERVER 2019 ENTERPRISE				
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	SQL Server transmits information about your installation of performance data, to Microsoft to help improve the prod privacy controls, and to turn off the collection of this info <u>documentation</u> .	uct. To learn mo	ore about data pro		d
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Select Instance

Specify the instance of SQL Server to modify.

Product Key License Terms Global Rules Product Updates Install Setup Files Upgrade Rules Select Instance Select Features Feature Rules Ready to Upgrade Upgrade Progress Complete	Select the instance of features" and then of Instance to upgrade MSSQLSERVER Installed instances: Instance Name MSSQLSERVER		 Features 	y shared features, sele	version 14.0.3281.	
Upgrade to SQL Server 2019				< Back Nex	t> Car	ncel
Select Features It is not possible to change the	: SQL Server features to	be upgraded in this re	lease.			
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Upgrade to SQL Server 2019						_	
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Configuration file path:

< Back

Upgrade

C:\Program Files\Microsoft SQL Server\150\Setup Bootstrap\Log\20200404_143111\ConfigurationFile.ini

Cancel

Computer restart required

Copy message

🐻 Upgrade to SQL Server 2019

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One or more affected files have operations pending. You must restart your computer after the setup process is completed.

OK

Complete

Your SQL Server 2019 upgrade completed successfully with product updates.

Product Key	Information about the Setup operation o	or possible next steps:	
License Terms		· · · ·	
Global Rules	Feature	Status	
Product Updates	Database Engine Services SQL Browser	Succeeded Succeeded	
Install Setup Files	SOL Writer	Succeeded	
Upgrade Rules	SQL Client Connectivity SDK	Succeeded	
Select Instance	SQL Client Connectivity	Succeeded	
Select Features	Setup Support Files	Succeeded	
Instance Configuration			
Feature Rules			
Ready to Upgrade			
Upgrade Progress			
Complete	Details:		
	Install successful. Summary log file has been saved to the f <u>C:\Program Files\Microsoft SQL Server\1</u> <u>\Summary_CB_20200404_143111.txt</u>	following location: 50\Setup Bootstrap\Log\20200404_143111	
			Close

Had to restart the server after the upgrade. Now will login to SSMS and see everything is OK!

SQL Product VersioAdministrator (70)) + ×											
E	SELECT										
	SERVERPROPERT	Y('productve	ersion') as 'Product	: Version',							
	SERVERPROPERT	Y('productle	evel') as 'Product L	.evel',							
	SERVERPROPERTY('edition') as 'Product Edition',										
	SERVERPROPERT	Y('buildclrv	version') as 'CLR Ve	ersion',							
	SERVERPROPERT	Y('collation	n') <mark>as</mark> 'Default Coll	lation',							
	SERVERPROPERT	Y('instancer	name') as 'Instance'	,							
	SERVERPROPERT	Y('lcid') as	s 'LCID',								
	SERVERPROPERT	Y('servernam	ne') <mark>as</mark> 'Server Name	e*							
100 %											
I Results B Messages											
	Product Version	Product Level	Product Edition	CLR Version	Default Collation	Instance	LCID	Server Name			
1	15.0.2000.5	RTM	Enterprise Edition (64-bit)	v4.0.30319	SQL_Latin1_General_CP1_CI_AS	NULL	1033	CB			
	·										

SQLQuery2.sql - CBAdministrator (55))* 😐 🗙	
Select @@version	
100 % 👻 🖣	
Results B Messages	
(No column name)	_
1 Microsoft SQL Server 2019 (RTM) - 15.0.2000.5 (X	

Now we will install CU4

Name	Date modified	Туре	Size
📑 <u>en sql server 2019 enterprise x64 dvd 46f0ba38.iso</u>	<u>01-Oct-2019 2:25</u>	<u>Disc Image File</u>	<u>1,393,286 KB</u>
援 <u>SQLServer2019-KB4548597-x64.exe</u>	<u>04-Apr-2020 1:17</u>	Application	<u>585,545 KB</u>
SSMS 18.4.exe	04-Apr-2020 2:24	Application	<u>551,535 KB</u>

_

 \times

🗟 Install a SQL Server 2019 update

License Terms

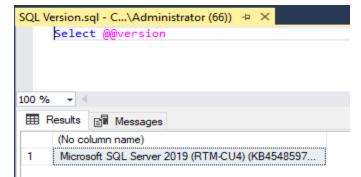
To install the update, you must accept the Microsoft Software License Terms.

SQL Server 2019 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	UPDATE FOR MICROSOFT SQL SERVER 2019 PLEASE NOTE: Refer to your license terms for Microsoft SQL Server 2019 software (the "software") to identify the entity licensing this supplement to you and for support information. You may use a copy of this supplement with each validly licensed copy of the software. You may not use the supplement if you do not have a license for the software. The license terms for the software apply to your use of this supplement.						
				🗈 Сору	3 Print		
	✓ I accept the license terms and Privacy Statement						
	Notice: A paid SQL Server edition product key has been p you are entitled to this SQL Server edition with proper lice supplied.				Jre		
	SQL Server transmits information about your installation performance data, to Microsoft to help improve the prod privacy controls, and to turn off the collection of this info documentation.	luct. To learn mo	re about data pro		ıd		
		< Back	Next >	Cance	el		

👼 Install a SQL Server 2019 up	date					-	- 🗆	>
Select Features								
Specify the features to up	date							
specify the reatures to up	uate.							
SQL Server 2019 update	Instances:			Descriptio	n:			
License Terms	MSSQLSERVER							
Select Features	Database Engine S	Services						
Check Files In Use Ready to update	SQL Client Conne	ctivity SDK						
Update Progress								
Complete								
				Language				
				Edition:				
				Patch Leve	el:			
				Architectu	ire:			
				Service Pa	ck:			
				Upgrade S	tatur			
				opgrade 3	tatus.			
	Select All Unselect	All						
					_			
				< Back		Next >	Ca	ncel
Check Files In Use The following services and restart, stop the application	d applications are using files that S ns and services.	Setup needs to comp	lete the in	stallation. To avo	oid a co	mputer		
SQL Server 2019 update	Eiles is use shark some late				Chara	shaala	Refresh	ala a da
License Terms	Files in use check complete	-0.			Stop	check	Kerresh	Check
Select Features								
Check Files In Use	Process	Туре	A	ccount		Process	D	
Ready to update	RSPowerBI.exe	Application	NT	SERVICE\Power	BIRe	8976		
Update Progress	WmiPrvSE.exe	Application		AUTHORITY\SY		5560		
Complete	w3wp.exe	Application		AUTHORITY\N		6352		
	ReportingServicesServic RSPortal.exe	Application Application		MLAN\Administ		8728 8736		
	ReportingServicesServic	Application		SERVICE\Power		8960		
	RSPortal.exe	Application		SERVICE\Power		8968		
	microsoft.management	Application				14596		
	MonitoringHost.exe	Application	NT		STEM	13824		
	The 'RSPowerBl.exe' proces to avoid a computer restar		y the upda	te wizard. You ha	ave to n	nanually st	op this pr	ocess
	to avoid a comparer restar							
				< Back		ext >	Can	

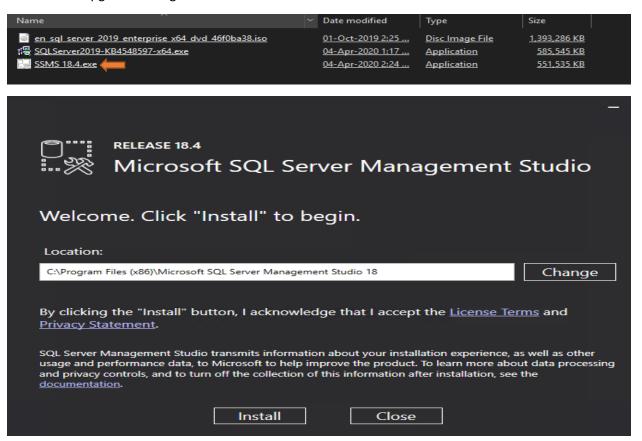
🗟 Install a SQL Server 2019 update			_		\times
Ready to update					
Verify the list of features to be u	odated.				
SQL Server 2019 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	Ready to update: Summary Action: Patch General Configuration General Configuration Solution: Enterprise Patch Level: 15.0.2000.5 Processor Type: x64 Solution: Patch Level: 15.0.2000.5 Configuration file path: Configuration file path:				
		< Back	Update	Car	ncel
Computer restart required					×
One or more affecte process is complete	d files have operations pending. You must resta d.	art your computer a		etup OK]
				- □) ×
Complete				- L	
Your SQL Server 2019 update o	peration is complete.				
SQL Server 2019 update	Information about the Setup operation or possible next	steps:			
License Terms Select Features	Feature	Status			
Check Files In Use Ready to update Update Progress Complete	 Database Engine Services (MSSQLSERVER) SQL Browser (MSSQLSERVER) SQL Writer (MSSQLSERVER) Setup Support Files (MSSQLSERVER) 	Succeeded Succeeded Succeeded Succeeded			
	Summary log file has been saved to the following locati C:\Program Files\Microsoft SQL Server\150\Setup Boot \Summary CB 20200404 145501.txt		1 <u>45501</u>		
				0	lose

Had to restart the server after the upgrade. Now will login to SSMS and see everything is OK!



E	SELECT							
	SERVERPROPERT SERVERPROPERT SERVERPROPERT SERVERPROPERT	TY('productle TY('edition' TY('buildclre TY('collation	ersion') as 'Product evel') as 'Product) as 'Product Edition version') as 'CLR V n') as 'Default Col	Level', on', ersion', lation',				
0 %		TY('lcid') a TY('serverna	name') as 'Instance s 'LCID', me') as 'Server Nam	-				
) %	SERVERPROPERT	TY('lcid') a TY('serverna	s 'LCÍD',	-	Default Collation	Instance	LCID	Server Nam

Now we will upgrade Management Studio to Version 18.4





Had to restart the server after the upgrade. Now will login to SSMS and see everything is OK!

Microsoft SQL Server Tools 18	Performance Tools	•
Microsoft System Center	Analysis Services Deployment Wizard 18	
Parallels	🕨 🧕 Microsoft SQL Server Management Studi	o 18

Import User Settings

Would you like to import the SSMS user settings If you do not import SSMS will load the default of					
a Copy message		Import from	n SSMS 17	Do not	import
Conversion of SSMS user settings			—		×
Success	-	Total Success	-	Error Warning	
Details:					
Action	Status		Message		
Migrate settings	Success				
		Close		Report	•

SQL Server Management Studio

v18.4

Component Name	Versions		
SQL Server Management Studio	15.0.18206.0		
Microsoft Analysis Services Client Tools	15.0.1567.0		
Microsoft Data Access Components (MDAC)	10.0.17763.1		
Microsoft MSXML	3.0 6.0		
Microsoft Internet Explorer	9.11.17763.0		
Microsoft .NET Framework	4.0.30319.42000		
Operating System	10.0.17763		
	Copy Info		
To copy component name and version information, click Copy Info. Warning: This computer program is protected by copyright law an Unauthorized reproduction or distribution of this program, or any in severe civil and criminal penalties, and will be prosecuted to the possible under the law.	d international treaties. portion of it, may result		
To copy component name and version information, click Copy Info. Narning: This computer program is protected by copyright law an Jnauthorized reproduction or distribution of this program, or any n severe civil and criminal penalties, and will be prosecuted to the	d international treaties. portion of it, may result		

Now let us open Microsoft Endpoint Configuration Manager (CB2002) console

🗲 🔹 🎼 🔪 🕨 Administration 🕨 Overv	niew 🕨	
Administration	Administration	
	Navigation Index Updates and Servicing: Updates and Servicing will let you install recent updates as they become available. Cloud Services: Manage ubscriptions to cloud services in your hierarchy. Client Settings: Configure default and custom client settings. Distribution Points: Manage individual distribution points and configuration properties, and view disk space capacity. Manager hierarchy. Parallels Mac Management: Manage Mac computers and Parallels Desktop. P Recent Alerts (0) - Last updated: 04-Apr-2020 3:43:42 PM	Hierarchy Configuration: Manage boundaries, site-to-site communication, discovery methods, Active Directory forest and Exhange Server connection settings. Site Configuration: Manage servers and late system roles, components, site maintenance, and status configurations. Security: Manage administrative user, security roles, security scopec, certificates, and accounts that you configure in the Configuration Manager control. Distribution Point Groups: Manage distribution points as a group. Management Ingibits: Better understand your environment and take action, based on analysis of data from the site database.

This concludes SQL 2017 to SQL 2019 upgrade. Later, I will create another post on how to upgrade SSRS 2017 to SSRS 2019.

Thanks

Ram Lan 4th April 2020 Now let us complete below configuration to fix the error on SQL 2019 for CB2002 database.

ALTER DATABASE SCOPED CONFIGURATION SET TSQL_SCALAR_UDF_INLINING = OFF

SQLQuery1.sql - CBAdministrator (54))* 😐 🔀	
ALTER DATABASE SCOPED CONFIGURATION SET TSQL_SCALAR_UDF_INLINING = OFF	
100 % -	
B Messages	
Commands completed successfully.	
Completion time: 2020-04-04T16:19:15.5153685-04:00	
Known issue with SQL Server 2019	
There's a known issue with the new scalar UDF inlining feature in SQL 2019. To work around this issue and disable UDF	linina, run
the following script on the SQL 2019 server:	
SQL	🗅 Сору
ALTER DATABASE SCOPED CONFIGURATION SET TSQL_SCALAR_UDF_INLINING = OFF	
While not always necessary, you may need to restart the SQL server after you run this script. For more information, see	Disabling
Scalar UDF Inlining without changing the compatibility level.	
You can safely disable this SQL feature for the site database server because Configuration Manager doesn't use it.	