

Document Information

Reference	PRO-180002
Title	Installing an instance of SQL Server 2016 Express
Synopsis	Beyond just installing SQL Server 2016 Express, this document guides a user through installing SQL Server 2016 Express, backing up the DAS SQL databases, detaching the databases, copying the databases to a new server / instance, re-attaching the DAS SQL databases, updating the database format then connecting a new DAS SQL instance to the databases.
Author	David Montgomery
Creation Date	2019-Jan-08

Revisions

Rev	Date	Who	Notes
001	2019-Jan-08	David Montgomery	Initial document



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Attaching the database files	
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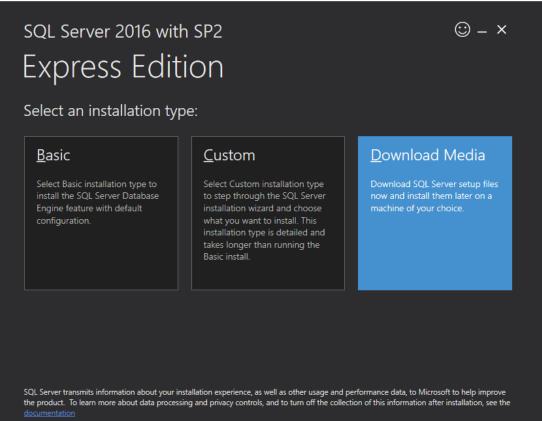


Microsoft SQL Server 2016 SP2 Express download

https://www.microsoft.com/en-us/download/details.aspx?id=56840

It downloads as an update launcher which will download the required binaries as you step through the installation wizard.

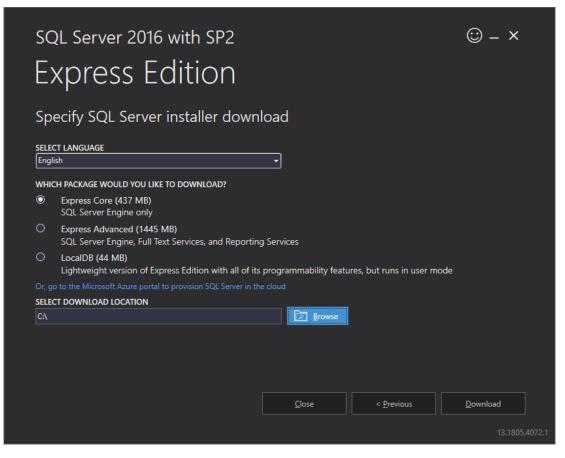
Download Media for use later



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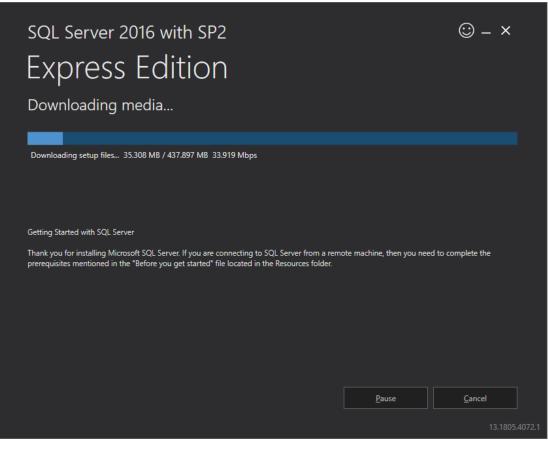


Select your download language, package (Express Core) and download location



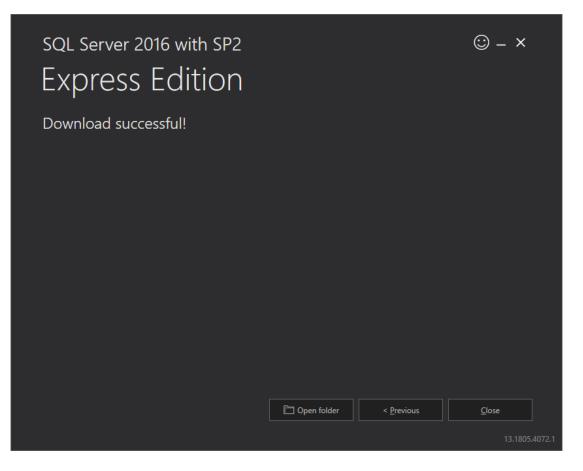
Then click Download





Confirmation that download is successful







SQL Server 2016 Express Installation

When you're ready to being the installation, click Open Folder then run the SQL Express installer as Admin. You will be asked where you would like to unpack your installation files to:

Microsoft SQL Server 2016 Express SP2	X
	Cancel

Once completed, the SQL Server Installation Center will load.

1		SQL Server Installation Center
Planning Installation Maintenance	ŧ	New SQL Server stand-alone installation or add features to an existing installation Launch a wizard to install SQL Server 2016 in a non-clustered environment or to add features to an existing SQL Server 2016 instance.
Tools Resources Options	•••• ••• ***	Install SQL Server Management Tools 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.
	K	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 Azure SQL Database, the SQL Server Database Engine, Reporting Services, Analysis Services and Integration Services. An internet connection is required to install SSDT. Upgrade from a previous version of SQL Server Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2016.
Microsoft" SQL Server" 2016		

You now have the option to either:

- Create a new stand alone 2016 instance OR
- Upgrade an existing instance



Ultimately this choice is down to your own organizational preferences but from a DAS SQL point of view, we recommend leaving your existing instance alone and creating a new stand alone 2016 instance. At the end of the process, we can help transfer your files from your existing older SQL Server Express instance and then convert the database for the new SQL version by running a SQL script.

Beginning the Installation

1	SQL Server 2016 Setup	– – X
Global Rules Setup Global Rules identify pro	blems that might occur when you install SQL Server Setup support files. Failures must be	
corrected before Setup can con Global Rules Product Updates Install Setup Files Install Rules Installation Type License Terms Feature Selection Feature Rules Feature Configuration Rules Installation Progress Complete	tinue. Rule check in progress Show details >>	<u>R</u> e-run
	< <u>B</u> ack <u>N</u> ext >	Cancel



1	SQL Server 2016 Setup	_ _ ×
Product Updates		
Always install the latest update	s to enhance your SQL Server security and performance.	
Global Rules Product Updates Install Setup Files Install Rules Installation Type License Terms Feature Selection Feature Rules Feature Configuration Rules Installation Progress Complete	There are no updates for SQL Server found online. Read our privacy statement online Learn more about SQL Server product updates	<u>C</u> heck again
	< <u>B</u> ack <u>N</u> ext	:> Cancel

Click Next to begin the installation



1	SQL Server 2016 Setup		_ 🗆 🗙
Install Setup Files	up is found and specified to be included, the update	will be installed.	
Global Rules			
Product Updates Install Setup Files	Task	Status	
Install Rules	Scan for product updates	Completed	
Installation Type	Download Setup files	Skipped	
License Terms	Extract Setup files	Skipped	
Feature Selection	Install Setup files	In Progress	
Feature Rules			
Feature Configuration Rules			
Installation Progress			
Complete			
		< <u>B</u> ack <u>N</u> ext >	Cancel



1	S	QL Server 2016 Se	tup		_ D X
Installation Type Perform a new installation or ac	dd features to an existing	instance of SQL Serve	r 2016.		
Install Rules Installation Type License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	components. O <u>A</u> dd features to an e DIGITUS_LAB Select this option if want to add the An	Ilation of SQL Server 2 you want to install a r existing instance of SQ you want to add featu alysis Services features nust be the same edition Instance ID MSSQL13.DIGITUS	new instance of SQL S L Server 2016 ures to an existing inst s to the instance that on. Features SQLEngine, SQLEn	tance of SQL Server. Fo	or example, you
			< <u>B</u> a	ick <u>N</u> ext >	Cancel

We are going to install a new SQL Server 2016 Express instance – notice the 2 x existing instances (1 x SQL Server 2016 Express called DIGITUS_LAB and 1 x SQL Server 2012 Express called DIGITUS2012). Click Next



1	SQL Server 2016 Setup	x			
License Terms To install SQL Server 2016, you Install Rules	u must accept the Microsoft Software License Terms.				
Installation Type	MICROSOFT SOFTWARE LICENSE TERMS	Ê			
License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	MICROSOFT SQL SERVER 2016 EXPRESS 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				
	 ☑ I accept the license terms and Privacy Statement SQL Server transmits information about your installation experience, as well as other usage and performance data, to Microsoft to help improve the product. To learn more about data processing and privacy controls, and to turn off the collection of this information after installation, see the documentation. 	Arint			
	< <u>B</u> ack <u>N</u> ext > Cance	I			

Accept the license terms and click Next



1	SQL Serve	er 2016 Setup	_ D X	
Feature Selection Select the Express features to in	istall.			
Install Rules Installation Type License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	<u>Features</u> Instance Features ✓ Database Engine Services ✓ SQL Server Replication Shared Features ✓ SQL Client Connectivity SDK Redistributable Features		Feature description: The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by-side on v Prerequisites for selected features: Already installed: Windows PowerShell 3.0 or higher Microsoft Visual Studio 2010 Redistributable v Disk Space Requirements Drive C: 1058 MB required, 69259 MB available	
	Select All Unselect All Instance root directory: Shared feature directory: Shared feature directory (x86):	C:\Program Files\Mi C:\Program Files\Mi C:\Program Files (x8		
			< <u>B</u> ack <u>N</u> ext > Cancel	

Check the installation options and path, then click Next



1	S	QL Server 2016 Se	tup		_ 🗆 X
Instance Configuration Specify the name and instance		QL Server. Instance ID b	ecomes part of the in	stallation path.	
Install Rules Installation Type License Terms	 <u>D</u>efault instance N<u>a</u>med instance: 	DIGITUS2016			
Feature Selection Feature Rules Instance Configuration	Instance <u>I</u> D:	DIGITUS2016			
Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress	SQL Server directory: Installed instances:	C:\Program Files\Micr	rosoft SQL Server\MSS	QL13.DIGITUS2016	
Complete	Instance Name	Instance ID	Features	Edition	Version
	DIGITUS_LAB	MSSQL13.DIGITUS		Express	13.1.4001.0
	DIGITUS2012	MSSQL11.DIGITUS2		Express	11.2.5058.0
	<shared compone<="" td=""><td></td><td>Conn, BC, SDK</td><td></td><td>13.0.14500.10</td></shared>		Conn, BC, SDK		13.0.14500.10
< <u>B</u> ack Cancel					

Give your SQL Server 2016 Express instance a meaning name, then click Next



SQL Server 2016 Setup					x
Server Configuration Specify the service accounts and Install Rules	d collation configuration. Service Accounts Collation				
Installation Type License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	This privilege enables instant fi	Account Name Account Name NT Service\MSSQL\$DIGI NT AUTHORITY\LOCAL nance Task privilege to SQL Sen ile initialization by avoiding zerc lowing deleted content to be ac	Password ver Database Engin bing of data pages.	Startup Type Automatic Automatic	~
		< <u>B</u> aci	k <u>N</u> ext >	Canc	el

Makes changes to your Server Configuration if your organization requires it, we left the settings at default. Click Next



1	SQL Server 2016 Setup
	uration ication security mode, administrators, data directories and TempDB settings.
Install Rules Installation Type License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Server Configuration Data Directories TempDB User Instances FILESTREAM Specify the authentication mode and administrators for the Database Engine. Authentication Mode
	Add <u>Current User</u> Add Remove < Back

Digitus recommends that your SQL Server 2016 Express instance is installed in mixed mode. Select a suitable password for the 'sa' account – this will be used to connect your DAS-SQL Server / Service to the SQL database.

Don't forget to add any additional SQL Server admin users. Click Next



1	SQL Server 2016 Setup	_ 🗆 X
Installation Progress		
Install Rules Installation Type License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Initializing Windows Installer actions.	
	<u>N</u> ext >	Cancel

SQL Server installation has now started.



	SQL Server 20	16 Setup	_ D X
Complete	nstallation completed successfully with product u	ndstar	
Tour sign server 2010 h	istaliation completed successfully with product u	puates	
Install Rules Installation Type	Information about the Setup operation	or possible next steps:	
License Terms	Feature	Status	
	Oatabase Engine Services	Succeeded	
Feature Selection	SQL Server Replication	Succeeded	
Feature Rules	SQL Browser	Succeeded	
Instance Confi	Computer restar	t required	×
Server Configu			
7 I I I I I I I I I I I I I I I I I I I	25 - 127 ALE - 127 ALE - 128	12 S 0 S S S S S S S S	
Database Engin	One or more affected files have operations pending process is completed.	. You must restart your computer after the se	tup
Database Engin	One or more affected files have operations pending process is completed.	. You must restart your computer after the se	tup
Database Engir Feature Config		. You must restart your computer after the se	tup
Database Engir Feature Config Installation Pro			tup
Database Engir Feature Config			
Database Engir Feature Config Installation Pro	Product Update: Product Update successfully a		ЭК rosoft.com/?id=
Database Engir Feature Config Installation Pro	Product Update: Product Update successfully a	pplied KB 4052908 < <u>http://support.micr</u> atch level of the Setup operation to 13.2.5026.0	ЭК rosoft.com/?id=
Database Engir Feature Config Installation Pro	Product Update: Product Update has successfully a 4052908>. These updates have set the p Summary log file has been saved to the	pplied KB 4052908 < <u>http://support.micr</u> atch level of the Setup operation to 13.2.5026.0	эк rosoft.com/?id=).

The installation of the new SQL Server 2016 Express instance is finished but a reboot is required to complete the installation.



Preparing to connect DAS SQL to the New SQL instance

Next we need to transfer the database. In order to do this and ensure that no further data is pulled in by the DAS Server / Service updating the old database, we need to stop the BiometricAccess Service on the server.

		Services		Ŀ	- 0 X
<u>-</u> Eile <u>A</u> ction <u>V</u> iew	v <u>H</u> elp				
Þ 🍁 🔚 🛅 🛛	g 🔒 🛛 🖬 🕨 🔳 🕪				
Services (Local)	Services (Local)	27			
	BiometricAccess Service	Name	Description	Status	Startup Typ
		🙆 App Readiness	Gets apps re		Manual
	Stop the service	Application Experience	Processes a	Running	Manual (Tr
	Restart the service	Application Identity	Determines	A MARKEN AND A MARKA	Manual (Tr
		Application Information	Facilitates t	Running	Manual (Tr
		Application Layer Gateway Service	Provides su		Manual
		Application Management	Processes in		Manual
		🔍 AppX Deployment Service (AppXSVC)	Provides inf		Manual
		🔍 Background Intelligent Transfer Service	Transfers fil		Manual
		🍓 Background Tasks Infrastructure Servi	Windows in	Running	Automatic
		🍓 Base Filtering Engine	The Base Fil	Running	Automatic
		BiometricAccess Service		Running	Automatic
		Certificate Propagation	Copies user	Running	Manual
		CNG Key Isolation	The CNG ke		Manual (Tr
		🖏 COM+ Event System	Supports Sy	Running	Automatic
		COM+ System Application	Manages th		Manual
		🔐 Computer Browser	Maintains a		Disabled
		🔐 Credential Manager	Provides se		Manual
		Cryptographic Services	Provides thr	Running	Automatic
		🔍 DCOM Server Process Launcher	The DCOM	Running	Automatic
		Device Association Service	Enables pair		Manual (Tr
		Cevice Install Service	Enables a c		Manual (Tr
		<			>
	\ Extended \ Standard /				

Find the BiometricAccess service and lick Stop to stop the service. As an additional security measure, you could even set the startup type to Disabled rather than Automatic.



BiometricAccess Service Properties (Local Computer)
General Log On Recovery Dependencies
Service name: BiometricAccessService
Display name: BiometricAccess Service
Description:
Path to executable: "C:\Program Files (x86)\Digitus Biometrics\DAS Service\BiometricAccessCc
Startup type: Disabled V
Service status: Running
Start Stop Pause Resume
You can specify the start parameters that apply when you start the service from here.
Start parameters:
OK Cancel <u>Apply</u>



<u>File Action View</u>	<u>H</u> elp				
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Services (Local)	Services (Local)				
	BiometricAccess Service	Name	Description	Status	Startup Typ
		🔅 App Readiness	Gets apps re		Manual
		Application Experience	Processes a	Running	Manual (Tr
		Application Identity	Determines		Manual (Tr
		Application Information	Facilitates t	Running	Manual (Tr
		Application Layer Gateway Service	Provides su		Manual
		Application Management	Processes in		Manual
		AppX Deployment Service (AppXSVC)	Provides inf		Manual
		🔍 Background Intelligent Transfer Service	Transfers fil		Manual
		🖏 Background Tasks Infrastructure Servi	Windows in	Running	Automatic
		🤹 Base Filtering Engine	The Base Fil	Running	Automatic
		🤹 BiometricAccess Service			Disabled
		Certificate Propagation	Copies user	Running	Manual
		CNG Key Isolation	The CNG ke		Manual (Tr
		🖏 COM+ Event System	Supports Sy	Running	Automatic
		COM+ System Application	Manages th		Manual
		🔍 Computer Browser	Maintains a		Disabled
		🔐 Credential Manager	Provides se		Manual
		Cryptographic Services	Provides thr	Running	Automatic
		COM Server Process Launcher	The DCOM	Running	Automatic
		Device Association Service	Enables pair		Manual (Tr
		Device Install Service	Enables a c		Manual (Tr
		<			>

Confirmation that the BiometricAccess Service startup type is set to Disabled and the service is stopped.



Preparing to transfer your database files.

Open up SQL Server Management Studio (SSMS), open the Databases tree and right-click BiometricAccess -> Properties

Image: Microsoft SQL Server Management St File Edit View Debug Tools Window Image: Ima	Help	☆ ፇ・ぐ・ ፼		Quick Lau	unch (Ctrl+Q)	₽ = ¤ ×
Object Explorer		Database Prop	perties - E	BiometricAcce	ess	_ D X
Connect -	Select a page General Files Files Options Change Tracking Permissions Extended Properties Query Store	Script Help Database name: Owner: Use full-text indexing Database files:	E	iometricAccess	ator	
🗉 📠 Replication		Logical Name BiometricAccess	File Type ROWS	Filegroup PRIMARY	Initial Size (MB) 100	Autogrowth / Maxsize By 1 MB, Unlimited
🗉 📁 PolyBase 🐨 📹 Management		BiometricAccess log	LOG	Not Applicable	100	By 10 percent, Limited to
	Connection Server: DIGITUS-DASLAB\DIGITUS_LAB Connection: sa y View connection properties					
	Progress					17 A E
	O Ready	< III			Add	Remove
						OK Cancel
Ready	Îθ.					

In the Database Properties window, use the horizontal scroll bar to check the database path – this is where you are going to COPY your data from. Just double check the same path is set for the BiometricAccess-Logs database.

Once you have made a note of your data path, open Window Explorer and browse to the path noted above.

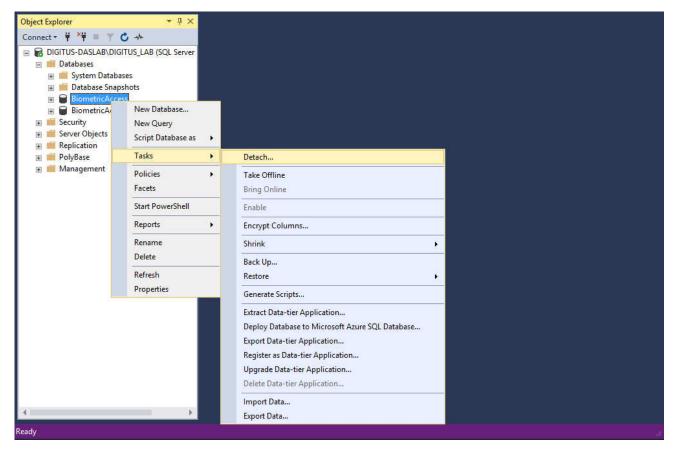
You should see 4 files as follows:

Name	Date modified	Туре	Size
📴 BiometricAccess	12/3/2018 3:09 PM	SQL Server Databa	102,400 KB
BiometricAccess_log	12/3/2018 3:09 PM	SQL Server Databa	102,400 KB
📴 BiometricAccess-Logs	12/3/2018 3:12 PM	SQL Server Databa	1,087,808 KB
📴 BiometricAccess-Logs_log	12/3/2018 3:12 PM	SQL Server Databa	1,475,904 KB



Detaching your database files

You now need to "detach" your BiometricAccess and BiometricAccess-Logs databases, so back in SQL Server Management Studio, browse to the BiometricAccess database, right click it, select Tasks, then Detach.



Detach Database, check both Drop Connections and Update Statistics before clicking OK



•	C	etach Databas	е		-	. 🗆	x
Select a page & General	🖵 Script 🔻 😯 Help						
	Databases to detach:						
	Database Name	Drop Connections	Update Statistics	Status	Message		
	BiometricAcc	✓	✓	Ready			
Connection							
Server: DIGITUS-DASLAB\DIGITUS_LAB							
Connection: sa							
v ₩ <u>View connection properties</u>							
Progress							
Ready	<	III					>
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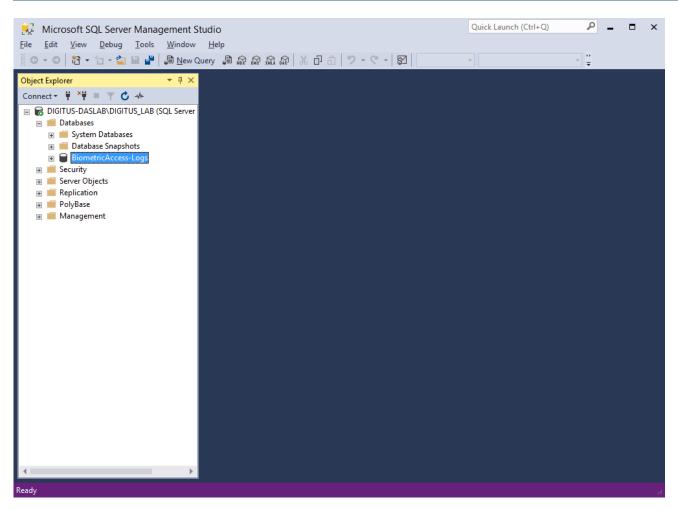
The Detach takes a few seconds to run



•	C	etach Database	e		_ 🗆 X
Select a page	🖵 Script 👻 😯 Help				
	Databases to detach:				
	Database Name	Drop Connections	Update Statistics	Status	Message
	BiometricAcc	\checkmark	\checkmark	Deta	
с <i>к</i>					
Connection					
Server: DIGITUS-DASLAB\DIGITUS_LAB					
Connection:					
sa					
View connection properties					
Progress					
Executing					
	<				>
		III			
					OK Cancel

Checking back in SQL Server Management Studio shows that the BiometricAccess database is longer connected

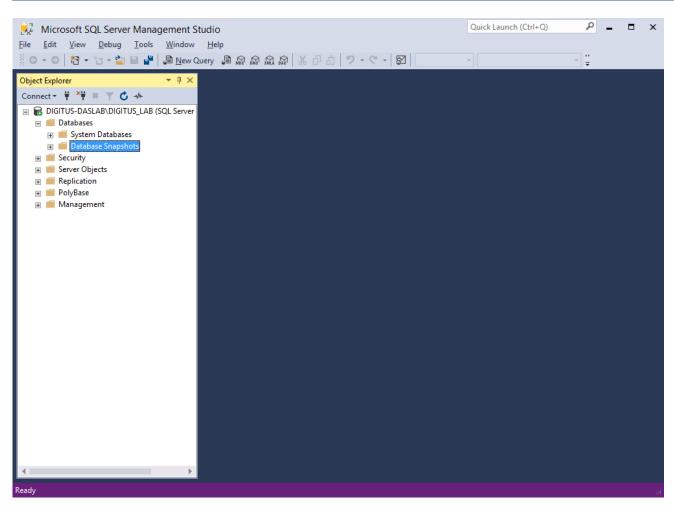




Now repeat the process to detach the BiometricAccess-Logs database.

Once completed, you should see that SQL Server Management Studio has updated and both databases have been detached.





You should also notice that the time stamps have been updated for your 4 files in Windows Explorer.

Name	Date modified	Туре	Size
📴 BiometricAccess	12/3/2018 3:56 PM	SQL Server Databa	102,400 KB
📴 BiometricAccess_log	12/3/2018 3:56 PM	SQL Server Databa	102,400 KB
📴 BiometricAccess-Logs	12/3/2018 3:58 PM	SQL Server Databa	1,087,808 KB
📴 BiometricAccess-Logs_log	12/3/2018 3:58 PM	SQL Server Databa	1,475,904 KB

Copying the data over

Select your 4 files and copy them to the clipboard. In the event of large file sizes, and depending on whether you are moving to a new physical / virtual server, it may be worth zipping / compressing your files prior to copying them, copying the compressed files and then uncompressing them in the destination folder.



Connect to the new SQL instance

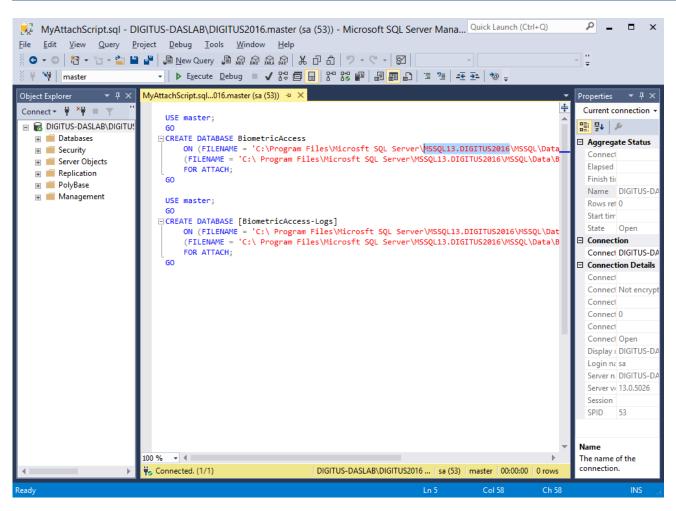
Connect SSMS to your new instance, using the 'sa' password you set when configuring your SQL Server 2016 Express instance.

Solution1 - Microsoft SQL Serv File Edit View Project Debug O - O 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	Tools Window Help	181 - ジ・ペ・1 181	Quick Launch (Ctrl+Q)	م ::	Ξ×
Connect - # *# = * C ++ DIGITUS-DASLAB\DIGITUS2016 (SQL # Databases # Security # Server Objects # Replication	₽ × Server		Properties		* # x
 ■ PolyBase ■ Management 	Server type: Server name: Authentication: Login: Password:	Connect to Server SQL Server Database Engine DIGITUS-DASLAB\DIGITUS2016 SQL Server Authentication Sa	v v v v v v		
Ready					ŧ.

Attaching the database files

Load the MyAttachScript SQL script (provided separately), and be sure to change the data paths for the 4 files to match where you copied your SQL data

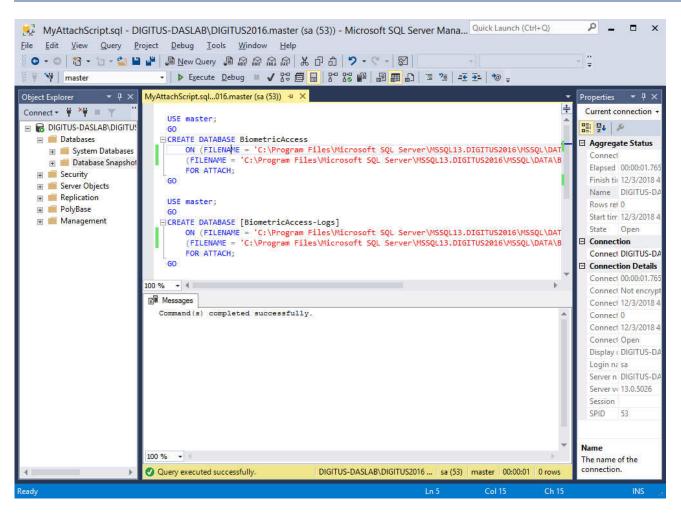




Notice the Instance path highlighted above.

Once you have modified the files paths, execute / run the script to attach your databases.





Once you see the "Command(s) completed successfully" message in the Messages window, click on your instance name in the top left of the SQL Server Management Studio window followed by Refresh in order to see the newly attached databases.



oject Explorer	🗙 MyAttachScript.sql016.master (sa (53)) 🗢 🗙	
 DiGITUS-DASLAB/DIGITUS/2016 (SQL Server Databases System Databases Database Snapshots BiometricAccess BiometricAccess-Logs Server Objects Replication PolyBase Management 	USE master;	
	100 % -	Name The name of the



Connect DAS SQL to the new databases

Connect your new SQL Server 2016 Express instance and newly copied / attached databases to DAS SQL.

Favorites Date modified Type Size Desktop Downloads Date modified Type Size Downloads 3PLicenseManager.DLL 11/28/2018 2:45 PM File folder ActivityLog_DelStateEvents 6/31/2017 2:20 PM Microsoft SQL Ser 2 KB ActivityLog_SP_Script 8/31/2017 2:20 PM Microsoft SQL Ser 2 KB Documents ActivityLog_whotes_SP_Script 8/31/2017 2:20 PM Microsoft SQL Ser 2 KB Documents BiometricAccess Server Configuration 8/31/2017 2:20 PM Microsoft SQL Ser 2 KB Documents BiometricAccess Server Configuration 8/31/2017 2:20 PM Application 1,046 KB Music BiometricAccess Server Configuration 8/31/2017 2:20 PM Application 1,046 KB Music BiometricAccessDatabaseRestoreUtility 8/31/2017 2:20 PM Application 1,046 KB Music BiometricAccessDatabaseRestoreUtility 8/31/2017 2:20 PM Application 43 KB Dol DVD Drive(D) IR Dat SimpticAccessDatabaseRestoreUtility 8/31/2017 2:20 PM Application 54 KB Metwork BiometricAccessDatabaseRestoreUtility	1 🕞 🔢 = 1	Application Tools	DAS Servi	се		
Favorites Name Date modified Type Size Desktop Downloads SplicenseManager.DLL 11/28/2018 2:45 PM File folder ActivityLog_DelStateEvents 8/31/2017 2:20 PM Microsoft SQL Ser 2 KB ActivityLog_SP_Script 8/31/2017 2:20 PM Microsoft SQL Ser 2 KB ActivityLog_wNotes_SP_Script 8/31/2017 2:20 PM Microsoft SQL Ser 2 KB Documents BiometricAccess Server Configuration 8/31/2017 2:20 PM Application 1,138 KB BiometricAccess Server Configuration 8/31/2017 2:20 PM Application 1,046 KB BiometricAccessCommService 9/14/2018 10:13 AM Application 1,046 KB BiometricAccessCommService.exe 9/14/2018 10:13 AM Application 1,046 KB BiometricAccessDatabaseRestoreUtility 8/31/2017 2:20 PM Application 4/31/2017 2:20 PM Application extens BiometricAccessPreveSetup 8/31/2017 2:20 PM Application extens BiometricAccessServerSetup 8/31/2017 2:20 PM Application extens BiometricAccessServerSetup 8/31/2017 2:20 PM	File Home Share	View Manage				~
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Right click and run BiometricAccessServer Configuration as admin.



BiometricAccess Server Configuration
BiometricAccess Base Directory C:\Program Files (x86)\Digitus Biometrics\DAS Service\\
Database Functions
SQL Authentication User Name: sa
Windows Authentication Password:
⊖ Use Database 🛛 👻 Scan
Enter Manually localhost\D/GITUS2016
Reset Existing Database Server\Instancename Check Entry
Save Changes Apply Updates
Current Database
Current Database: localhost\DIGITUS2012
Set License
Set License
Enable Server Logging Include Polls?
Optimize ActivityLog
Service is stopped. Close

Enter your SQL Server instance name, then click the Check Entry button.

If DAS SQL can successfully connect to your instance, the Save Changes button will enable. Click the Save Changes button, then save operation should only take a second or 2. Then click Apply Updates to apply any schema changes to the DAS SQL databases. Again this should only take a matter of a couple of seconds.

Once finished, click Close. You will be asked if "you wish to start the service at this time" – as we disabled the service earlier in the process, click No.



Biomet	tricAcce	ess Servic	e Properties	(Local C	omputer)	x
General	Log On	Recovery	Dependencies]		
Service	name:	BiometricA	ccessService			
Display	name:	BiometricA	ccess Service			
Descript	tion:				~	
	executabl gram Files	•••	s Biometrics\DA	S Service\Bi	ometricAccess	Ca
Startup	typ <u>e</u> :	Automatic	(Delayed Start)			-
Service	status:	Stopped				-
S	tart	Stop) <u>P</u> a	use	<u>R</u> esume	
You car from her		he start para	meters that apply	v when you s	tart the service	
Start pa	ra <u>m</u> eters:					
			ОК	Cancel	Appl	у

Go back to Windows Service and select / double click the BiometricAccess Service and set the startup type to "Automatic (Delayed Start), before clicking OK.



	Services		Į.	- 0 X
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BiometricAccess Service	Name	Description	Status	Startup Typ
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Start the service	Application Experience	Processes a	Running	Manual (Tr
	Application Identity	Determines	And the party of	Manual (Tr
	Application Information	Facilitates t	Running	Manual (Tr
	Application Layer Gateway Service	Provides su	870	Manual
	Application Management	Processes in		Manual
	AppX Deployment Service (AppXSVC)	Provides inf		Manual
	Background Intelligent Transfer Service	Transfers fil		Manual
	Background Tasks Infrastructure Servi	Windows in	Running	Automatic
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	Certificate Propagation	Copies user	Running	Manual
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	Computer Browser	Maintains a		Disabled
	Credential Manager	Provides se		Manual
	Cryptographic Services	Provides thr	Running	Automatic
	COM Server Process Launcher	The DCOM	Running	Automatic
	Device Association Service	Enables pair	-	Manual (Tr
	Device Install Service	Enables a c		Manual (Tr
	<	an na Alaman Alamada Ala		>
Extended / Standard /				

Now click Start to start the BiometricAccess Service, making sure that the service enters the "Running" state.

The final thing is to test you can access your DAS SQL by logging in to the client.