

SAMLite Prerequisites: Installation and Configuration

Build 2.2

2020-08-04

1 of 44

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1 Configuring Windows Server 2012 R2 for SAMLite

B	Server Manager	_ 🗆 X
Server M	anager • Dashboard • 🕄 🚩 Manage Iools	<u>V</u> iew <u>H</u> elp
Dashboard	WELCOME TO SERVER MANAGER	^
■ Local Server	QUICK START 2 Add roles and features	
	3 Add other servers to manage 4 Create a server group	=
	LEARN MORE	Hide
	ROLES AND SERVER GROUPS Roles: 1 Server groups: 1 Servers total: 1	
	File and Storage 1 Services 1 Manageability Manageability	
	Events Events Performance Services BPA results Performance	
	BPA results	v

Select Add roles and features

Add Roles and Features Wizard		
Before you begin	DESTINATION SERVER WIN-DB0QQ0EANN8	
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website. To remove roles, role services, or features: Start the Remove Roles and Features Wizard Before you continue, verify that the following tasks have been completed: • The Administrator account has a strong password • Network settings, such as static IP addresses, are configured • The most current security updates from Windows Update are installed If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again. To continue, click Next.	
	Skip this page by default	
< Previous Next > Install Cancel		

Select Next.



Select Next

B	Add Roles and Features Wizard	_ D X
Select destinatio	n server	DESTINATION SERVER SAMWin2012R2
Before You Begin Installation Type Server Selection	Select a server or a virtual hard disk on which to install roles and features. Select a server from the server pool Select a virtual hard disk	
Server Roles Features Confirmation	Server Pool Filter:	
Results	Name IP Address Operating System SAMWin2012R2 10.243.70.20 Microsoft Windows Server 201	2 R2 Standard
	1 Computer(s) found This page shows servers that are running Windows Server 2012, and that have I Add Servers command in Server Manager. Offline servers and newly-added serv collection is still incomplete are not shown.	been added by using the vers from which data
	< <u>P</u> revious <u>N</u> ext >	nstall Cancel

Select Next

Ē.	Add Roles and Features Wizard	_ D X
Select server roles		DESTINATION SERVER SAMWin2012R2
Before You Begin	Select one or more roles to install on the selected server.	
Installation Type	Roles	Description
Server Selection Server Roles Features Confirmation Results	 Application Server DHCP Server DNS Server Fax Server File and Storage Services (1 of 12 installed) Hyper-V Network Policy and Access Services Print and Document Services Remote Access Remote Desktop Services Volume Activation Services Wieb Server (IIS) Windows Deployment Services Windows Server Essentials Experience Windows Server Update Services 	Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.
	< <u>P</u> revious <u>N</u> ext	t >Install Cancel

Select Web Server (IIS)

b	Add Roles and Features Wizard	x
Add features that are required for Web Server (IIS)? The following tools are required to manage this feature, but do not have to be installed on the same server.		
	 ▲ Web Server (IIS) ▲ Management Tools [Tools] IIS Management Console 	
[Include management tools (if applicable) Add Features Cancel 	

Select Add Features

a	Add Roles and Features Wizard	_ D X
E Select server roles Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Add Roles and Features Wizard Select one or more roles to install on the selected server. Roles Application Server DHCP Server DNS Server Fax Server Fax Server Fax Server File and Storage Services (1 of 12 installed) Hyper-V Network Policy and Access Services Print and Document Services Remote Access Remote Access Remote Desktop Services Volume Activation Services	Description Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.
	Web Server (IIS) Windows Deployment Services Windows Server Essentials Experience Windows Server Update Services	
	< <u>P</u> revious <u>N</u> ex	xt > Install Cancel

Select Next

P	Add Roles and Features Wizard	_ D X
ES Select features Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Add Roles and Features Wizard Select one or more features to install on the selected server. Features Image: Select one or more features to install on the selected server. Features Image: Select one or more features to install on the selected server. Image: Select one or more features to install on the selected server. Features Image: Select one or more features to install on the selected server. Features Image: Select one or more features to install on the selected server. Image: Select one or more features (3.5 Features) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0 and 3.0) Image: Select one or more features (3.5 (includes .NET 2.0	Description .NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.
	< III > Next	> Install Cancel



h	Add Roles and Features Wizard	
Web Server Role (IIS) Destination server SAMWin2012R2		
Before You Begin Installation Type Server Selection	Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 8.5 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 8.5, ASP.NET, and Windows Communication Foundation.	
Server Roles	Things to note:	
Features Web Server Role (IIS)	 Using Windows System Resource Manager (WSRM) can help ensure equitable servicing of Web server traffic, especially when there are multiple roles on this computer. 	
Role Services Confirmation Results	 server traffic, especially when there are multiple roles on this computer. The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression. 	
	More information about Web Server IIS	
	< Previous Next > Install Cancel	

L	Add Roles and Features Wizard	_ D X
Select role service Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Add Roles and Features Wizard Select the role services to install for Web Server (IIS) Role services Image: Common HTTP Features Image: Common HTTP Features	DESTINATION SERVER SAMWin2012R2 Description Web Server provides support for HTML Web sites and optional support for ASP.NET, ASP, and Web server extensions. You can use the Web Server to host an internal or external Web site or to provide an environment for developers to create Web-based applications.
	Custom Logging Logging Tools ODBC Logging Request Monitor < </ </ </ </	> Install Cancel



B	Add Roles and Features Wizard	_ D X
E Select role service Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Add Roles and Features Wizard S Select the role services to install for Web Server (IIS) Role services Application Development Application Development Application Initialization ASP ASP.NET 3.5 ASP.NET 4.5 CGI ISAPI Filters Server Side Includes	Description ASP.NET provides a server side object oriented programming environment for building Web sites and Web applications using managed code. ASP.NET is not simply a new version of ASP. Having been entirely re-architected to provide a highly productive programming experience based on the .NET Framework, ASP.NET provides a robust infrastructure for building web applications.
	WebSocket Protocol ▲ FTP Server □ FTP Service ✓	
	< <u>P</u> revious <u>N</u> ex	t > Install Cancel

Select ASP.NET 3.5

Add Roles and Features Wizard	
Add features that are required for ASP.NET 3.5?	
You cannot install ASP.NET 3.5 unless the following role services or features are also installed.	
▲ .NET Framework 4.5 Features	
ASP.NET 4.5	
▲ Web Server (IIS)	
⊿ Web Server	
 Application Development 	
ISAPI Extensions	
ISAPI Filters	
.NET Extensibility 3.5	
✓ Include management tools (if applicable)	
Add Features Cancel	

Select Add Features

Ē.	Add Roles and Features Wizard	_ D X
Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Add Roles and Features Wizard Select the role services to install for Web Server (IIS) Role services A M Application Development NET Extensibility 3.5 NET Extensibility 4.5 Asp. Asp. Asp. Asp. Asp. Asp. Asp. Asp	DESTINATION SERVER SAMWin2012R2
HESUNS	CGI ISAPI Extensions ISAPI Filters Server Side Includes WebSocket Protocol FTP Server FTP Service FTP Fytensibility < III >	> Install Cancel

Select Application Initialization (optional but recommended for performance)

Select Next

A	Add Roles and Features Wizard	x
Confirm installati	ON Selections Destination server samwin201282 n alternate source path? One or more installation selections are missing source files on the destinati	R 2
Before You Begin	To install the following roles, role services, or features on selected server, click Install.	_
Installation Type	Restart the destination server automatically if required	
Server Selection	Optional features (such as administration tools) might be displayed on this page because they have	
Server Roles	been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.	ar
Features		_
Web Server Role (IIS)	.NET Framework 3.5 Features	<u>^</u>
Role Services	.NET Framework 3.5 (includes .NET 2.0 and 3.0)	
Confirmation	ASP.NET 4.5	4
Results	Telnet Client	
	Web Server (IIS)	
	Management Tools	
	IIS Management Console	
	Web Server	-
	Export configuration settings Specify an alternate source path	
	< Previous Next > Install Cancel	

Select Install.

a	Add Roles and Features Wizard	x		
Installation progr	CSS DESTINATION SAMWin2	ERVER 012R2		
Before You Begin	View installation progress			
Installation Type Server Selection	i Starting installation			
Server Roles Features Web Server Role (IIS)	.NET Framework 3.5 Features .NET Framework 3.5 (includes .NET 2.0 and 3.0)	^		
Role Services Confirmation	.NET Framework 4.5 Features ASP.NET 4.5	=		
Results	Telnet Client Web Server (IIS) Management Tools IIS Management Console Web Server			
	Application Development Application Initialization	~		
You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details. Export configuration settings				
	< <u>P</u> revious <u>N</u> ext > <u>I</u> nstall Ca	ncel		

	Add Roles and Features Wizard	_ D X
Installation progre	ess	DESTINATION SERVER SAMWin2012R2
Before You Begin	View installation progress	
Installation Type	i Feature installation	
Server Selection		
Server Roles	Installation succeeded on SAMWin2012R2.	
Features	.NET Framework 3.5 Features	^
Web Server Role (IIS)	.NET Framework 3.5 (includes .NET 2.0 and 3.0)	
Role Services	.NET Framework 4.5 Features	=
Confirmation	ASP.NET 4.5	
Results	Veb Server (IIS) Management Tools IIS Management Console Web Server Application Development Application Initialization You can close this wizard without interrupting running tasks. View task propage again by clicking Notifications in the command bar, and then Task D	ogress or open this
	page again by clicking Notifications in the command bar, and then Task D Export configuration settings <	etalis. Dse Cancel

Click close

2 SQL Server 2016 Express Installation

2.1 Downloading the SQL Server Express Setup files

Download (<u>https://www.microsoft.com/en-us/download/details.aspx?id=52679</u>) and run the installer

Open File - Security Warning			
Do you want to run this file?			
	Name:dministrator\Downloads\SQLServer2016-SSEI-Expr.exe		
	Publisher: Microsoft Corporation		
	Type: Application		
	From: C:\Users\Administrator\Downloads\SQLServer2016-SSE		
	Run Cancel		
✓ Al <u>w</u> ays ask before opening this file			
While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. What's the risk?			

Click on Microsoft Corporation to check the Publisher and Certification Path.

C	igital Signature	e Details ? X
General Advanced		
Digital Sig This digital s	nature Information ignature is OK.	n
Signer information		
Name:	Microsoft Corporatio	n
E-mail:	Not available	
Signing time:	Wednesday, June 1	1, 2016 5:45:58 AM
		<u>V</u> iew Certificate
- Countersignatures -		
Name of signer:	E-mail address:	Timestamp
Microsoft Time-S.	Not available	Wednesday, June 1,
		Details
		OK

Select View Certificate

Certificate X				
General Details Certification Path				
Certificate Information				
Ensures software came from software publisher Protects software from alteration after publication				
Issued to: Microsoft Corporation				
Issued by: Microsoft Code Signing PCA				
Valid from 6/5/2015 to 9/5/2016				
Issuer Statement				
ОК				

Select Certification Path

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	Certi	ficate		x
General Details	; Certification Path			
Certification	oath ft Root Certificate Aut osoft Code Signing PC Microsoft Corporation	thority CA		
Certificate <u>s</u> tat This certificate	us: is OK.		<u>V</u> iew Certificate	
			O	<

If the Certification Path looks reasonable and the certificates are OK, select OK to close all the dialogs and then select Run.



Select Download Media so that you can re-use the setup files without downloading them all over again.

SQL Server 2016			-
Evorace Edit	ion		
express eau	lion		
Spacify SOL Sonyor inst	aller download		
specify SQL Server inst	aller download		
SELECT LANGUAGE			
English			
WHICH PACKAGE WOULD YOU LIKE TO DO	WNLOAD?		
Express Core SQL Server Engine only			
Express Advanced SQL Server Engine, Full Text Services, and F	leporting Services		
 LocalDB Lightweight version of Express Edition with 	all of its programmability features, but runs	s in user mode	
SELECT DOWNLOAD LOCATION			
C:\Users\Administrator\Downloads	P Brows	se	
			No. 4

Select Express Advanced if you want the Advanced features (these features are not required by SAMLite).

Then select Next



Wait for the download to complete.



Select Open Folder

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😺 l 💽 🚺 = l	Application Tools	Downloads	_ D X
File Home Share	View Manage		^ 🕐
Navigation pane •	Extra large icons Large icons Medium icons List List Lavout	Sort by • Hidden items Surrent view Surrent view Show/bide	de selected items
(€) (€) ▼ ↑ (IL ► Thi	s PC Downloads	v C Search Downlo	ads Q
★ Favorites	Name	Date modified Type	Size
Desktop	🔁 ASPAJAXExtSetup.msi	7/1/2016 2:07 PM Windows Installer . 6/29/2016 6:53 PM Application	1,395 KB 46.095 KB
🖳 Recent places	👸 SQLServer2016-SSEI-Expr.exe	6/29/2016 6:55 PM Application	3,089 KB
퉲 V5	SSMS-Setup-ENU.exe	7/1/2016 12:42 PM Application	845,302 KB
	SQLEXPR_x64_ENU.exe	7/1/2016 2:34 PM Application	308,184 KB
19 This PC			
🙀 Network			
5 items 1 item selected 3	00 MB		

Run SQLEXPR_x64_ENU.exe or SQLEXPRADV_x64_ENU.exe (if you downloaded the Express Advanced version).

Choose Directory For Extracted Files
Choose Directory For Extracted Files Users\Administrator\Downloads\SQLEXPR_x64_ENU\ Ok Cancel Browse

Click OK.



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🏭 l ⊋ 🕼 = l	Application Tools	SQLEXPR_x64_ENU	_ D X
File Home Share	View Manage		^ 🔞
Navigation pane – Panes	Extra large icons Large icons	Sort by • Hidden items Current view Show/hide	ide selected items
⋲ 💿 👻 🕇 퉬 🕨 Thi	is PC ► Downloads ► SQLEXPR_x64_ENU ►	✓ 🖒 Search SQLEX	PR_x64_ENU 🔎
🔆 Favorites	Name	Date modified Type	Size
Desktop	1033_ENU_LP	7/1/2016 2:39 PM File folder	
Recent places		7/1/2016 2:39 PM File folder	
🎍 V5	₩ x64	7/1/2016 2:39 PM File folder	
	autorun.inf	2/9/2016 8:38 PM Setup Information	1 KB
👰 This PC	MEDIAINFO.XML	4/30/2016 9:13 PM XML File	1 KB
	Packageld.dat	7/1/2016 2:39 PM DAT File	1 KB
🗣 Network	SETUP.EXE	4/30/2016 9:11 AM Application	118 KB
	SETUP.EXE.CONFIG	2/9/2016 8:34 PM XML Configuratio	1 KB
	SQLSETUPBOOTSTRAPPER.DLL	4/30/2016 9:11 AM Application extens	5 266 KB
	SQMAPI.DLL	4/30/2016 9:11 AM Application extens	5 180 KB
11 items 1 item selected	117 KB		III 🖬

Open the folder and run SETUP.EXE

2.2 SQL Server 2016 Express Setup

1	SQL Server Installation Center		x
Planning Installation Maintenance Tools Resources Options	Image: Second		o, er, to
	Install SQL Server Data Tools Launch a download page that provides a link to install SQL Server Data Tools (S SSDT provides Visual Studio integration including project system support for A: Database, the SQL Server Database Engine, Reporting Services, Analysis Services Integration Services. An internet connection is required to install SSDT.	SDT). ture SC and	ΩL
	Upgrade from a previous version of SQL Server Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2016	i.	
Microsoft SQL Server 2016			
Microsoft" SQL Server 2016			

Select "New SQL Server stand-alone installation or add features to an existing installation"

1	SQL Server 2016 Setup
License Terms To install SQL Server 2016, yo License Terms Global Rules	MICROSOFT SOFTWARE LICENSE TERMS
Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules 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. ✓ I accept the license terms. SQL Server 2016 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 SQL Server 2016 data processing and privacy controls, please see the Privacy Statement.
	< <u>B</u> ack <u>N</u> ext > Cancel

If you agree with the license terms select the checkbox and click Next.

1	SQL Server 2016 Setup
 Microsoft Update Use Microsoft Update to check License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Feature Configuration Rules Installation Progress Complete 	SQL Server 2016 Setup for important updates Microsoft Update offers security and other important updates for Windows and other Microsoft software, including SQL Server 2016. Updates are delivered using Automatic Updates, or you can visit the Microsoft Update website. Use Microsoft Update to check for updates (recommended) Microsoft Update Privacy Statement
	< <u>B</u> ack <u>N</u> ext > Cancel

Set the option as desired then select Next.

1	SQL Server 2016	i Setup	– – X
Install Setup Files If an update for SQL Server Setu	up is found and specified to be included, th	e update will be installed.	
License Terms			
Global Rules			
Microsoft Update	Task	Status	
Product Updates	Scan for product updates	Completed	
Install Setup Files	Download Setup files	Skipped	
Install Rules	Extract Setup files	Skipped	
Feature Selection	Install Setup files	Skipped	
Feature Rules			
Feature Configuration Rules			
Installation Progress			
Complete			
		< <u>B</u> ack <u>N</u> ext >	Cancel

1	_ D X	
Install Rules Setup rules identify potential pr	oblems that might occur while running Setup. Failures must be cor	rected before Setup
can continue.		
License Terms Global Rules	Operation completed. Passed: 4. Failed 0. Warning 1. Skipped (o.
Microsoft Update Product Updates Install Setup Files	Hide details << View detailed report	<u>R</u> e-run
Install Rules		
Feature Selection	Rule	Status
Feature Rules	Fusion Active Template Library (ATL)	Passed
Instance Configuration	Consistency validation for SQL Server registry keys	Passed
Server Configuration	Computer domain controller	Passed
Database Engine Configuration	Microsoft .NET Application Security	Passed
Feature Configuration Rules	🔥 Windows Firewall	Warning
Installation Progress Complete		
	< <u>B</u> .	ack <u>N</u> ext > Cancel

Select Next.

1	SQL Serve	er 2016 Setup	_ _ X
Feature Selection Select the Express features to in	istall.		
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Eeatures: Instance Features ✓ Database Engine Services ✓ SQL Server Replication Shared Features ✓ SQL Client Connectivity S Redistributable Features	res: Feature description: nce Features Database Engine Services SQL Server Replication ed Features SQL Client Connectivity SDK stributable Features Already installed: 	
	Select All Unselect All Instance root directory: Shared feature directory: Shared feature directory (<u>x</u> 86):	C:\Program Files\Mi C:\Program Files\Mi C:\Program Files (x84	crosoft SQL Server\ crosoft SQL Server\ 6)\Microsoft SQL Server\
			Cancer Mexico Cancer

Set the directory paths as desired then select Next.

If you see the following error you will have to install the KB2919355 update.

1	SQL Server 2016 Setup		_ 🗆 X
Feature Rules Setup is running rules to deter	nine if the installation process will be blocked. For more information, clic	k Help.	
License Terms Global Rules Microsoft Update Product Updates Install Setup Files	Operation completed. Passed: 0. Failed 1. Warning 0. Skipped 0. Hide details View detailed report		<u>R</u> e-run
Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Rule KB2919355 Installation	Status Failed	
	< <u>B</u> ack	<u>N</u> ext >	Activate Go to System

Ensure that your Windows installation is updated appropriately then try again (if you are using Windows Update you may have to run the update a number of times before Windows is updated enough).

Otherwise if the Feature Selection step goes fine you should see the following:

1	:	SQL Server 2016 S	Setup		_ 🗆 X
Instance Configuration Specify the name and instance	ID for the instance of S	QL Server. Instance ID	becomes part of th	e installation path.	
License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	 <u>D</u>efault instance N<u>a</u>med instance: 	SQLExpress			
	Instance <u>I</u> D:	SQLEXPRESS			
	SQL Server directory: Installed instances:	C:\Program Files\Mi	crosoft SQL Server\N	MSSQL13.SQLEXPRESS	
	Instance Name	Instance ID	Features	Edition	Version
				< <u>B</u> ack <u>N</u> ext >	Cancel

Select Next unless you need to change things.

1	SQL Server 2	2016 Setup		_ 0	x
Server Configuration Specify the service accounts and	collation configuration.				
License Terms Global Rules Product Updates	Service Accounts Collation <u>Microsoft recommends that you</u>	use a separate account for each	SQL Server servic	:e.	
Install Setup Files	Service	Account Name	Password	Startup Type	_
Install Rules	SQL Server Database Engine	NT Service\MSSQL\$SQL		Automatic	×
Feature Selection	SQL Server Browser	NT AUTHORITY\LOCAL		Disabled	
Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Grant Perform Volume Mainte This privilege enables instant to information disclosure by a <u>Click here for details</u>	nance Task privilege to SQL Ser file initialization by avoiding zer llowing deleted content to be ac	ver Database Eng oing of data page cessed.	ine Service es. This may lead	
		< <u>B</u> ac	k <u>N</u> ext	> Canc	el

Select Next

1	SQL Server 2016 Setup				
Database Engine Config	guration				
Specify Database Engine auther	tication security mode, administrators, data directories and TempDB settings.				
License Terms	Server Configuration Data Directories TempDB User Instances FILESTREAM				
Global Rules Product Updates	Specify the authentication mode and administrators for the Database Engine.				
Install Setup Files	Authentication Mode				
Feature Selection	Windows authentication mode ONE LMA L (200 Communication in 1947)				
Feature Rules	O Mixed Mode (SQL Server authentication and Windows authentication) Service the server authentication and windows authentication				
Server Configuration	Enter password:				
Database Engine Configuration	Confirm password:				
Installation Progress	Specify SQL Server administrators				
Complete	SAMWIN2012R2\Administrator (Administrator) SQL Server administrators				
	to the Database Engine.				
	Add Current User Add Remove				
	< <u>B</u> ack <u>N</u> ext > Cancel				
	h.				

Select Next

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1	SQL Server 2016 Setup	_		x
Installation Progress				
License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Setting multi-instance transform.			
	Next >	Ca	ancel	

After this the Installation should proceed.

1	SQL Server 2016 Setup	_ □	x
Installation Progress			
License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Install_DotNet46_Cpu64_Action		
	Next >	Cance	eli

Wait till the Installation is complete.

Complete Vour SQL Server 2016 installation completed successfully with product updates. License Terms Global Rules Information about the Setup operation or possible next steps: Product Updates Feature Install Setup Files SQL Server Replication SQL Server Replication Succeeded Patabase Engine Computer restart required Feature Rules One or more affected files have operations pending. You must restart your computer after the setup Installation Progress Onc Summary log file has been saved to the following location: Cyperan Files/Microsoft SQL Server130/Setup Bootstrap/Log/20160701 120227 Summary SAMWin2012R2 20160701 120227.tbt Summary SAMWin2012R2 20160701 120227.tbt	1	SQL Server 2016	Setup	_ D X
License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selecti Feature Selecti Feature Selecti Feature Configu Database Engine Server Configu Database Engine Feature Configu Database Engine Server Configu Database Engine Feature Configu Computer restart required Mission Progressi Complete Summary log file has been saved to the following location: Ci\Program Files\Microsoft SQL Server\130\Setup Bootstrap\Log\20160701 120227. \Summary SAMWin2012R2 20160701 120227.txt	Complete Your SQL Server 2016 instal	lation completed successfully with product upo	lates.	
Feature Config Installation Progress Complete Summary log file has been saved to the following location: C:\Program Files\Microsoft SQL Server\130\Setup Bootstrap\Log\20160701 120227. \Summary SAMWin2012R2 20160701 120227.txt	License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selectiv Feature Rules Instance Config Server Configu Database Engir	Information about the Setup operation of Feature Solution Services Solution Solution Solution Computer restart for more affected files have operations pending. Y ess is completed.	r possible next steps: Status Succeeded Succeeded Succeeded required Tou must restart your computer after the setup	x
	Feature Config Installation Progress Complete	Summary log file has been saved to the for <u>C:\Program Files\Microsoft SQL Server\13</u> \Summary SAMWin2012R2 20160701	ollowing location: 30\Setup Bootstrap\Log\20160701_120227_ 120227.txt	



1	SQL Server 201	6 Setup	_ □	x
Complete Your SQL Server 2016 installat	ion completed successfully with product up	dates.		
License Terms Global Rules Product Updates Install Setup Files	Information about the Setup operation of Feature Database Engine Services	or possible next steps: Status Succeeded Succeeded		^
Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration	SQL Browser SQL Writer SQL Client Connectivity SQL Client Connectivity SDK	Succeeded Succeeded Succeeded Succeeded Succeeded		= >
Database Engine Configuration Feature Configuration Rules Installation Progress Complete	<u>D</u> etails:			
	I Summary log file has been saved to the t <u>C:\Program Files\Microsoft SQL Server\1</u> \Summary_SAMWin2012R2_20160701	iollowing location: <u>30\Setup Bootstrap\Log\20160701_120227</u> <u>120227.txt</u>		
			Close	

Select Close

2.3 Installing SQL Server Management Tools

1	SQL Server Installation Center
Planning Installation Maintenance Tools Resources Options	 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. 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. 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	

Select Install SQL Management Tools, download the installer and run it

		Open File - Security Warning
Do you	want to run th	nis file?
	Name: Publisher: Type: From:	<u>Users\Administrator\Downloads\SSMS-Setup-ENU.exe</u> <u>Microsoft Corporation</u> Application C:\Users\Administrator\Downloads\SSMS-Setup-ENU
✓ Al <u>w</u> a	ys ask before o	<u>R</u> un Cancel
¢	While files fro harm your co <u>What's the ri</u>	om the Internet can be useful, this file type can potentially omputer. Only run software from publishers you trust. <u>sk?</u>

Click on "Microsoft Corporation" to verify the Certificates,

D	igital Signature	Details ? X
General Advanced		
Digital Sigr This digital si	nature Information gnature is OK.	1
Signer information		
Name:	Microsoft Corporatio	n
E-mail:	Not available	
Signing time:	Saturday, May 21,	2016 4:07:52 PM
		<u>V</u> iew Certificate
- Co <u>u</u> ntersignatures -		
Name of signer:	E-mail address:	Timestamp
Microsoft Time-S	. Not available	Saturday, May 21, 2
		Details
		ОК

Click View Certificate and Certification Path.

SAMLite Prerequisites: Installation and Configuration

Certificate ×
General Details Certification Path
Certification gath
<u>V</u> iew Certificate
Certificate <u>s</u> tatus: This certificate is OK.
ОК

If the Publisher is Microsoft Corporation and the Certification Path looks reasonable and the certificates are OK then select OK to close all the dialogs, and select Run.



Select Install if you accept the conditions.



Wait until the installation is complete.



Select Close. SQL Server and Management Tools have now been installed.