

Database Management System

Course Instructor: Dr. Syed Khaldoon Khurshid Lab Instructor: Ghulam Murtaza

Department of Computer Science University of Engineering and Technology Lahore

Download MS SQL Server 2019 Developer Edition from the following link https://www.microsoft.com/en-us/sql-server/sql-server-downloads

Download MS SQL Server Management Studio 18.4 from the following link https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?redirectedfrom=MSDN&view=sql-server-ver15

System Requirements for SQL Server 2019

Operating system

Windows 10 TH1 1507 or greater Windows Server 2016 or greater

.NET Framework

SQL Server 2016 (13.x) RC1 and later require .NET Framework 4.6 for the Database Engine, Master Data Services, or Replication. SQL Server setup automatically installs .NET Framework. You can also manually install .NET Framework from Microsoft .NET Framework 4.6 (Web Installer) for Windows.

Disc Space

SQL Server requires a minimum of 6 GB of available hard-disk space.

Memory

At least 4 GB and should be increased as database size increases to ensure optimal performance.

Processor

- o Minimum: x64 Processor: 1.4 GHz, Recommended: 2.0 GHz or faster
- x64 Processor: AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support,
 Intel Pentium IV with EM64T support

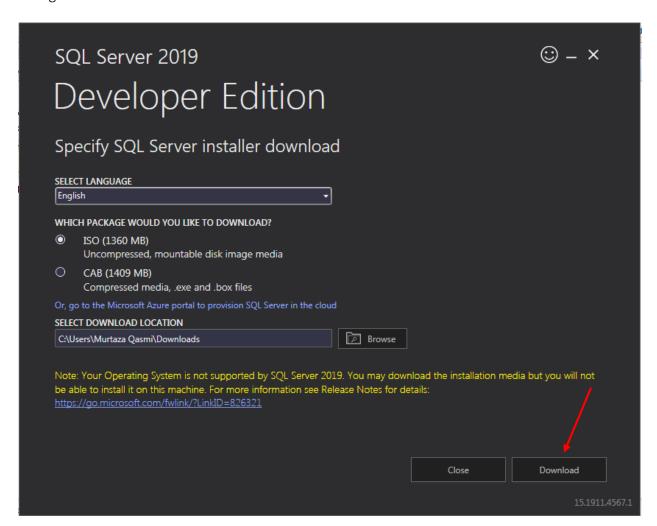
Monitor

SQL Server requires Super-VGA (800x600) or higher resolution monitor.

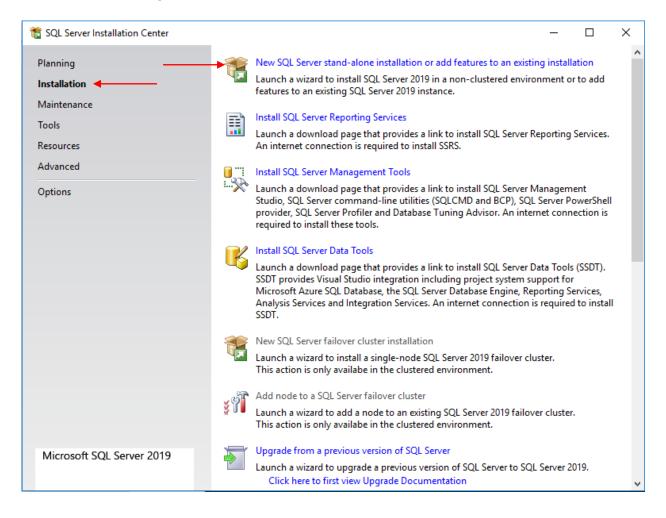
Installation guide

Important Note:

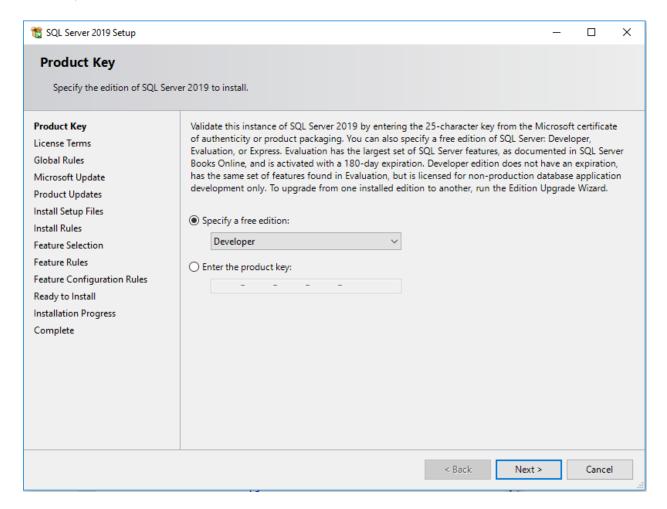
- 1. connect your system with internet and download the developer edition
- 2. Login on window with as Administrator



Click on the Installation page and then on 'New SQL Server stand-alone installation or add features to an existing installation



Since we are installation Developer edition of SQL Server, we will move will default option "Developer" and click Next

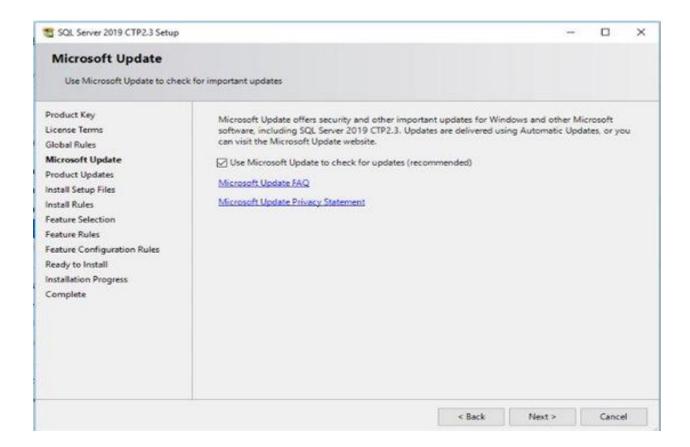


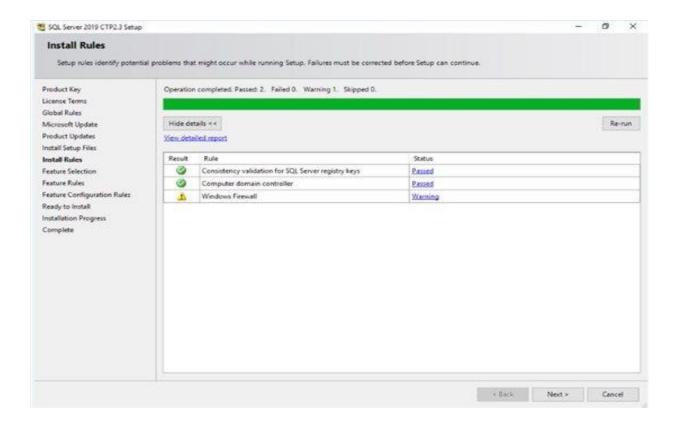
Accept the license terms and conditions. Please note the message written here that SQL Server

Transmits information about installation experience in performance data to Microsoft to help improve the product.

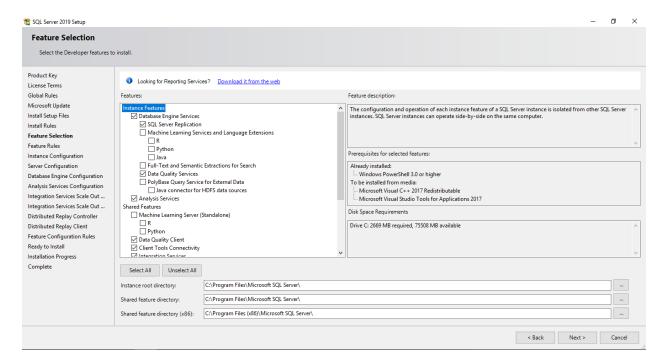
Click on Next. In the next page, it checks for the Global rules and give status information about successful, failed rules. If there are any failed rules, we need to fix those before proceeding with the installation.

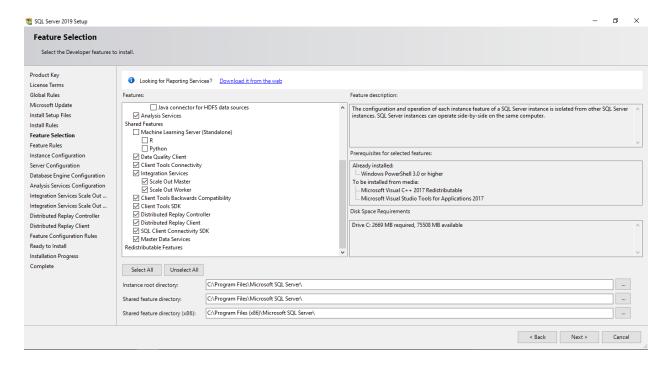
Next Check checkbox "use Microsoft update to check for updates"





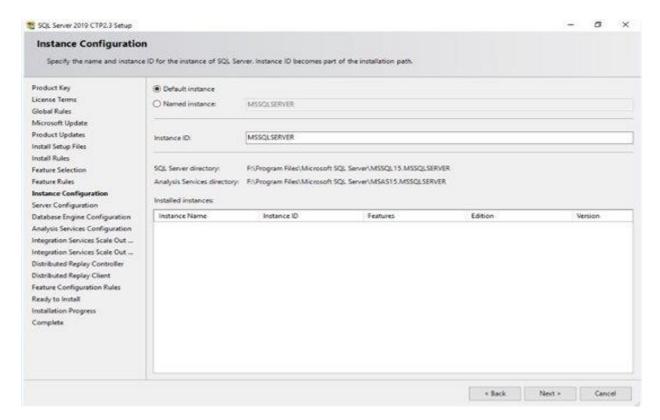
Now we need to select the features, we need to install with this installation.

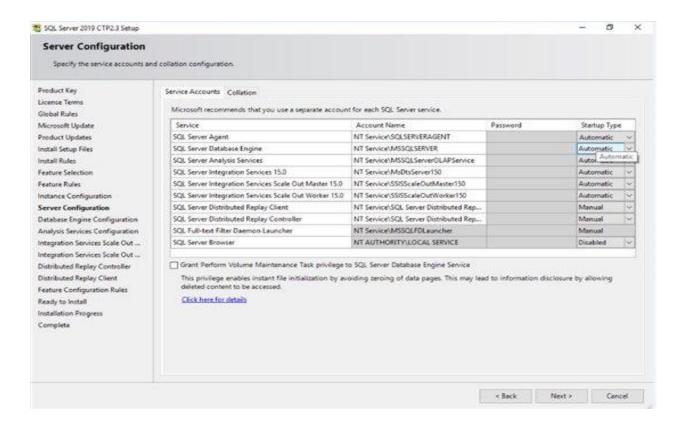




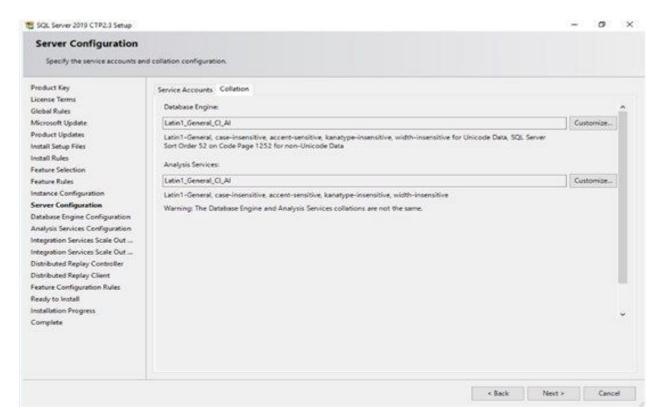
You can choose to install a default or named instance name.

I have selected default instance. If you want can only install named instance, Provide an appropriate name for the named instance.

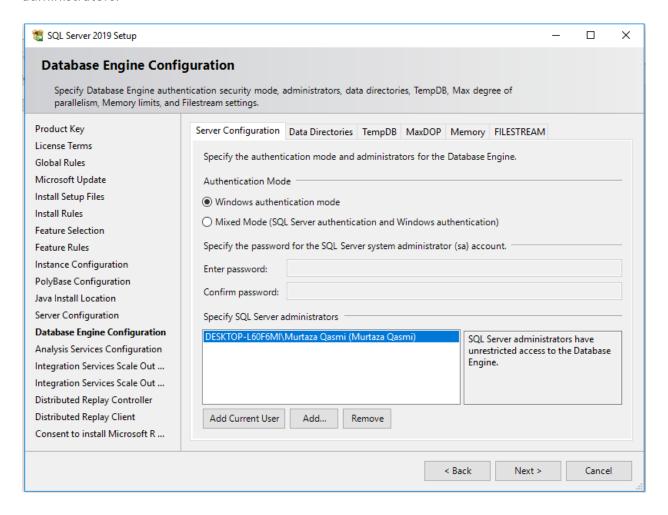




Check properly about Collation.

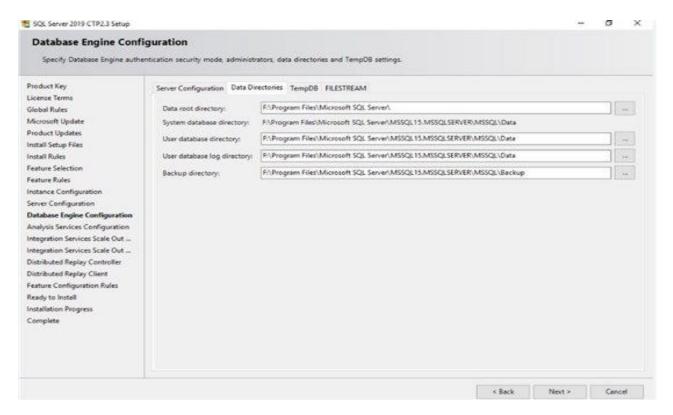


Specify Authentication modes (Windows or Mixed mode) and add users to have SQL Server administrators.



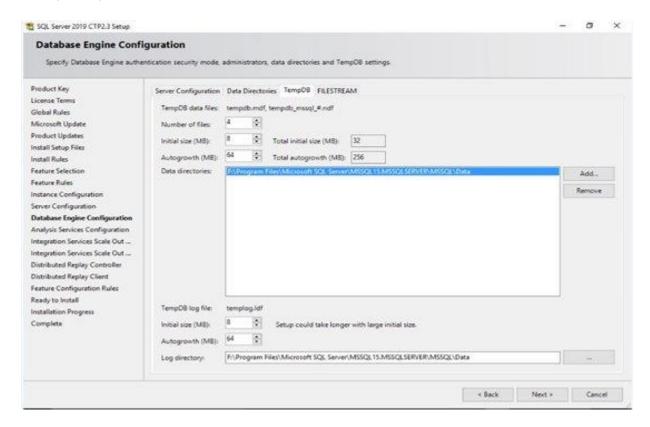
Click on Data Directories and we can specify the data, log files, backup directories here.

You can mention their directories in a different drive. We have local drive one drive so selected only one drive.

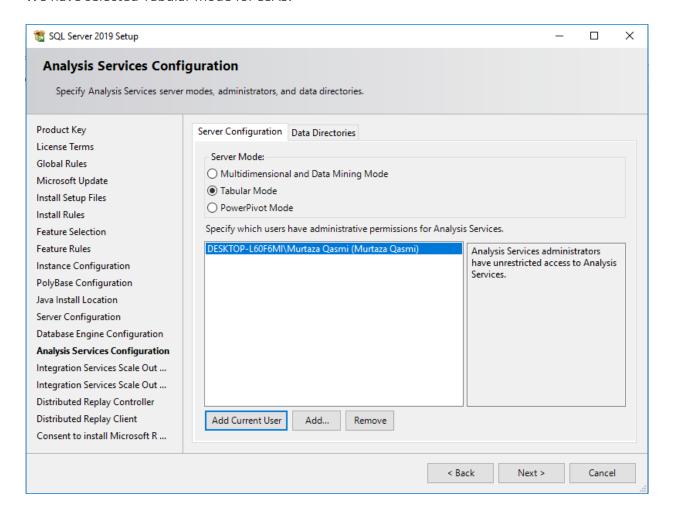


Click on TempDB to configure the TempDB configurations.

Ideally, Tempdb should in a different drive.

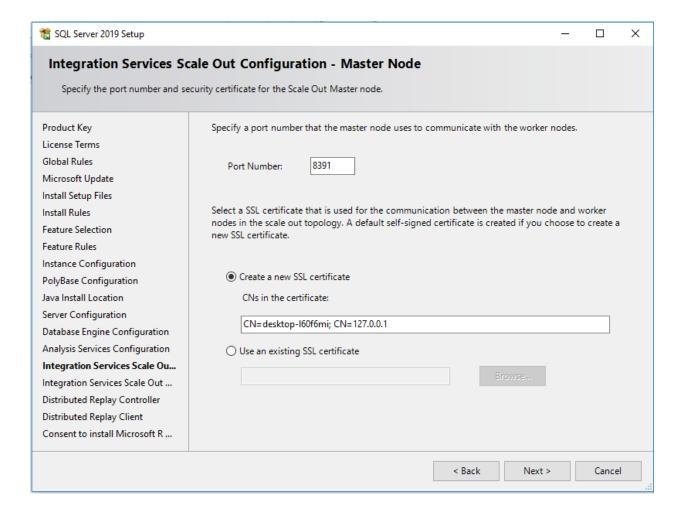


We have selected Tabular mode for SSAS.

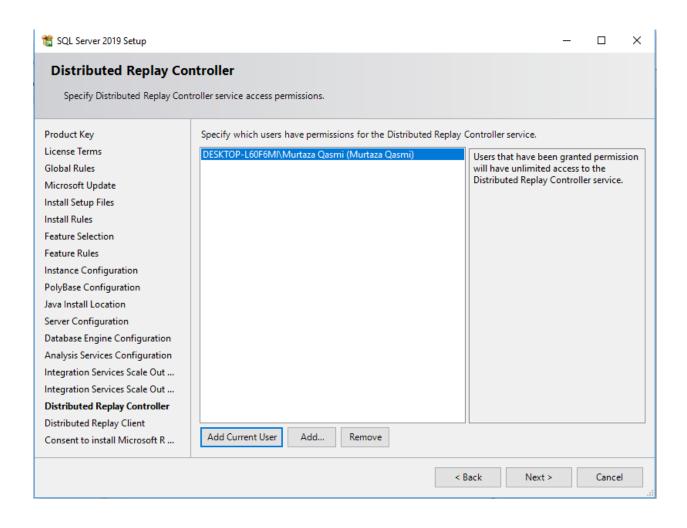


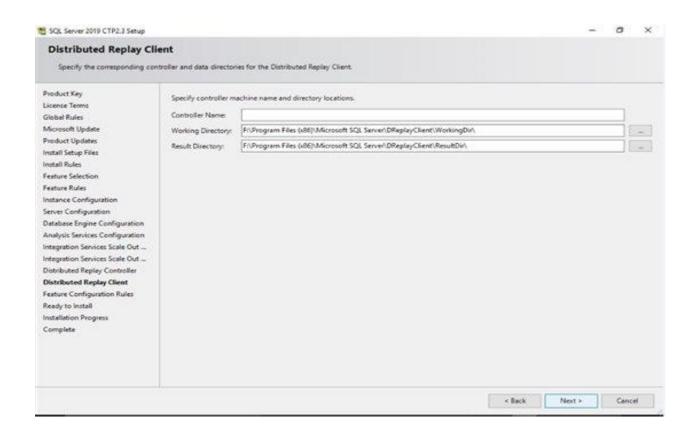
Product Key	Server Configuration	Data Directories	
icense Terms			
Slobal Rules	Specify the data dir	irectories for SQL Server Analysis Services.	
Microsoft Update	Data directory:	FriProgram Files\Microsoft SQL Server\MSAS15.MSSQLSERVER\OLAP\Data	
roduct Updates	Log file directory:	F/Program Files/Microsoft SQL Server/MSAS15.MSSQLSERVER/OLAP\Log	
nstall Setup Files	Log tile directory:	FIGURE PRESIMEDISTE S.A. SENTENISAS SUMS SALISENTENIO CAPYLOG	
nstall Rules	Temp directory:	F!/Program Files\Microsoft SQL Server\MSAS15.MSSQLSERVER\OLAP\Temp	
eature Selection	Backup directory:	F/Program Files\Microsoft SQL Server\MSAS15.MSSQLSERVER\OLAP\Backup	
Feature Rules	100000000000000000000000000000000000000		1000
Natabase Engine Configuration Unalysis Services Configuration Integration Services Scale Out			
nalysis Services Configuration			

Make sure that 8391 port should open or you can give a different port

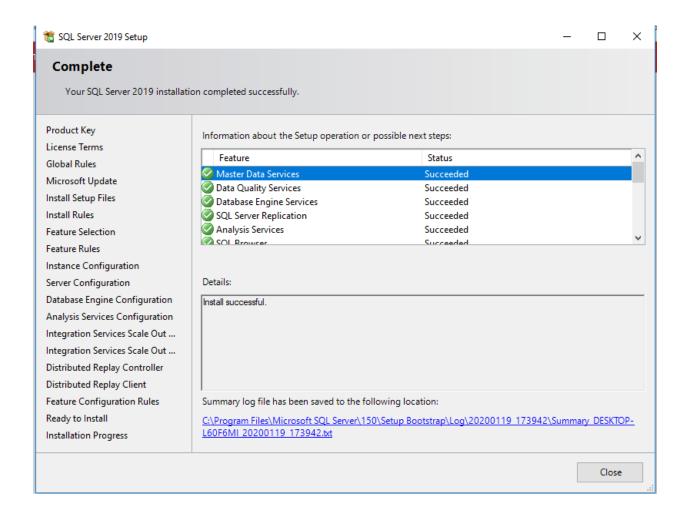


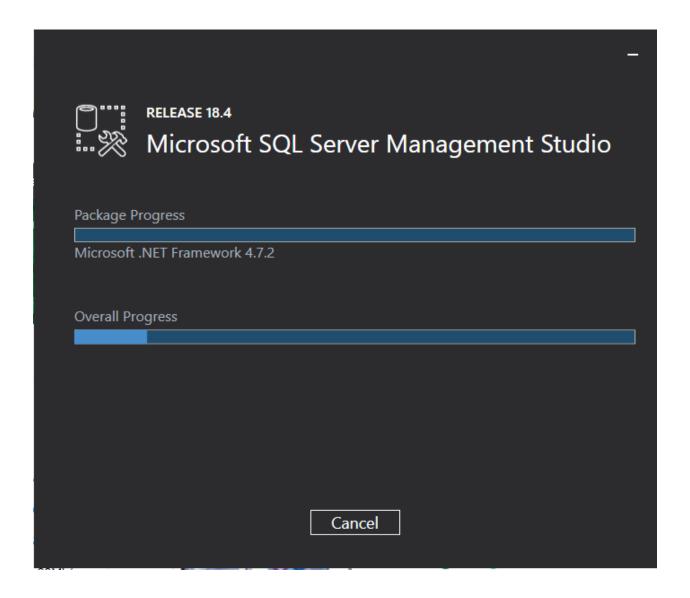
Integration Services Sc	ale Out Configuration - Worker Node					
Specify the master node endpo	int and security certificate used by the Scale Out Worker node.					
Product Key License Terms Global Rules	Provide the master node endpoint which the worker node needs to connect to (e.g. https:// [MasterNodeMachineName]:[Port]):					
Microsoft Update	https://desktop-l60f6mi:8391					
nstall Setup Files nstall Rules eature Selection eature Rules nstance Configuration olyBase Configuration	Configure the SSL certificate of master node to trust in this machine. The master's SSL certificate needs to be trusted on this worker node for establishing the connection between worker and master. This is optional if your master certificate has already been trusted, i.e. it's issued by a trusted CA (Certification Authority) on this machine, or the master is installed on the same machine. Otherwise, please provide the master's client SSL certificate, i.e. the certificate is created and self-signed by yourself and the master is not on the same machine.					
Instance Configuration PolyBase Configuration Java Install Location	(Certification Authority) on this machine, or the master is installed on the please provide the master's client SSL certificate, i.e. the certificate is cr	he same mach	ine. Ot	herwise,		
Instance Configuration PolyBase Configuration Java Install Location Server Configuration	(Certification Authority) on this machine, or the master is installed on the please provide the master's client SSL certificate, i.e. the certificate is cr	he same mach reated and self	ine. Ot	herwise,		
Instance Configuration PolyBase Configuration Java Install Location Server Configuration Database Engine Configuration	(Certification Authority) on this machine, or the master is installed on the please provide the master's client SSL certificate, i.e. the certificate is cr	he same mach reated and self	iine. Ot f-signed	herwise,		
Instance Configuration PolyBase Configuration Java Install Location Server Configuration Database Engine Configuration Analysis Services Configuration	(Certification Authority) on this machine, or the master is installed on the please provide the master's client SSL certificate, i.e. the certificate is cr	he same mach reated and self	iine. Ot f-signed	herwise,		
Instance Configuration PolyBase Configuration Java Install Location Server Configuration Database Engine Configuration Analysis Services Configuration Integration Services Scale Out	(Certification Authority) on this machine, or the master is installed on the please provide the master's client SSL certificate, i.e. the certificate is cr	he same mach reated and self	iine. Ot f-signed	herwise,		
PolyBase Configuration Java Install Location Server Configuration Database Engine Configuration Analysis Services Configuration Integration Services Scale Out Integration Services Scale Ou	(Certification Authority) on this machine, or the master is installed on the please provide the master's client SSL certificate, i.e. the certificate is cr	he same mach reated and self	iine. Ot f-signed	herwise,		
Instance Configuration PolyBase Configuration Java Install Location Server Configuration Database Engine Configuration Analysis Services Configuration Integration Services Scale Ou Integration Services Scale Ou Distributed Replay Controller	(Certification Authority) on this machine, or the master is installed on the please provide the master's client SSL certificate, i.e. the certificate is cr	he same mach reated and self	iine. Ot f-signed	herwise,		
Instance Configuration PolyBase Configuration	(Certification Authority) on this machine, or the master is installed on the please provide the master's client SSL certificate, i.e. the certificate is cr	he same mach reated and self	iine. Ot f-signed	herwise,		





The complete installation will require reboot server.







RELEASE 18.4

Microsoft SQL Server Management Studio

Restart required in order to complete setup.

All specified components have been installed successfully.

The computer needs to be restarted before setup can continue.

Restart

Close