

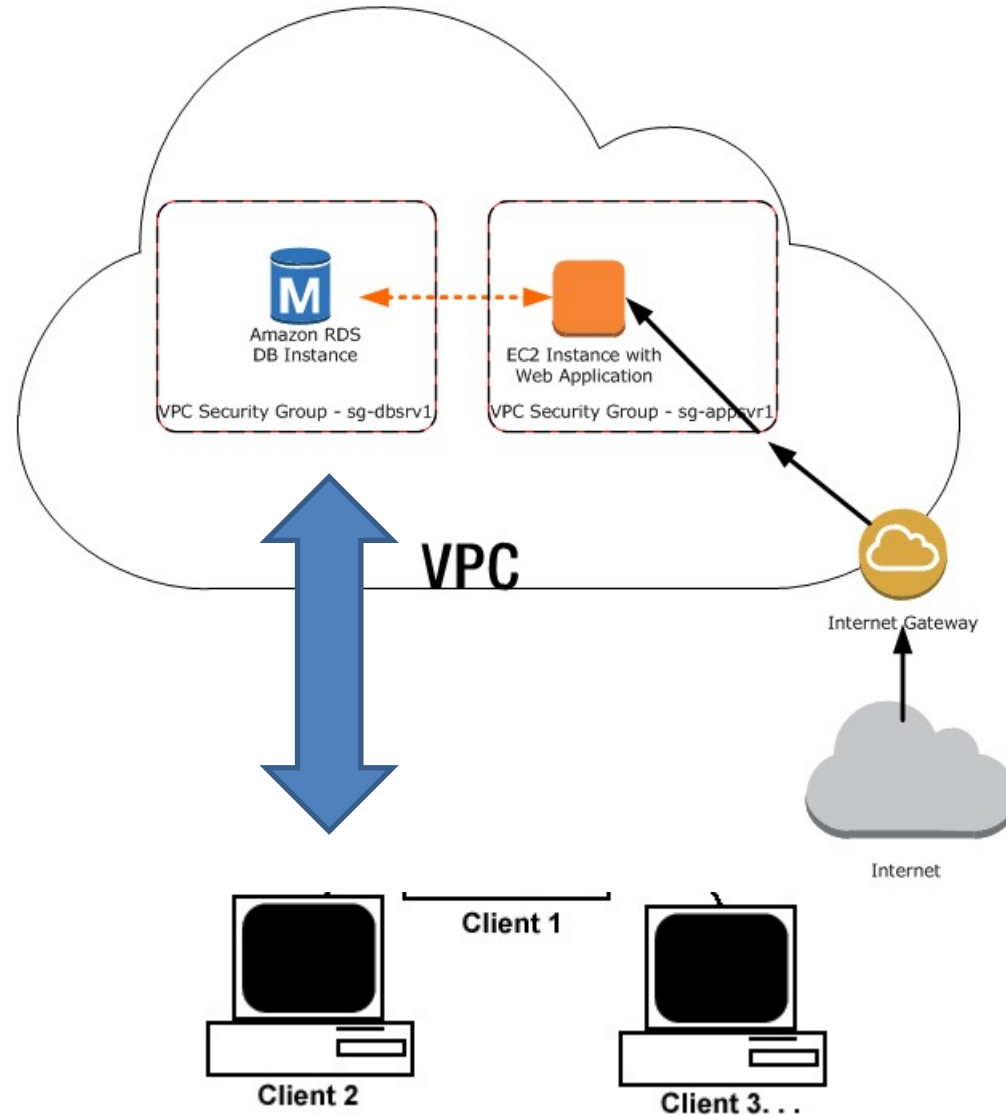


Introduction to Relational Databases

Software Installation and Database Access

Class Instructor: Bijoy Bora

The Way Things Work with AWS



Installing Microsoft SQL Management Studio

- Install SQL Server Management Studio ONLY
 - Recommended** version is SQL Server Management Studio version 2016 or later. Use the following link to download the latest General Availability (GA) version of SSMS 18.12.x
 - <https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-2017#download-ssms>
 - For the 18.3.1 release (also tested) use the following link
 - <https://docs.microsoft.com/en-us/sql/ssms/release-notes-ssms?view=sql-server-2017#1831>

Installing Microsoft SQL Management Studio

Click to download and install

The screenshot shows a web browser window displaying the Microsoft Docs page for downloading SQL Server Management Studio (SSMS). The browser's address bar shows the URL: <https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-2017>. The page title is "Download SSMS".

Version
SQL Server 2017

Download SSMS

Version information

- Release number: 18.3.1
- Build number: 15.0.18183.0
- Release date: October 02, 2019

Available languages (SSMS 18.3.1)

This release of SSMS can be installed in the following languages:

Is this page helpful?
Yes No

In this article

- Download SSMS
- Available languages (SSMS 18.3.1)
- New in this release (SSMS 18.3.1)
- Supported SQL offerings (SSMS 18.3.1)
- Supported operating systems (SSMS 18.3.1)
- Release notes (SSMS 18.3.1)
- Previous SSMS releases
- Get help for SQL tools
- See also
- Contribute to SQL documentation

The left navigation pane includes the following items:

- SSB Diagnose
- SQL Server Data Tools (SSDT)
- SQL Server Management Studio (SSMS)
 - Download SSMS
 - Release Notes
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 - Concepts
 - How-to
 - References
 - Resources
 - SqPackage.exe
 - SQL Server Profiler
 - Visual Studio native helpers
- Tutorials
- SQL Server on Linux
- SQL on Azure
- Resources
- Reference
- Download PDF

Installing Microsoft SQL Management Studio

Step 1 of 2 (2012 version)

- Install SQL Server Management Studio ONLY
 - *Alternatively you can use 2012 version but not recommended*
 - <http://www.microsoft.com/en-us/download/details.aspx?id=35579>

Choose the download you want

<input type="checkbox"/> File Name	Size
<input type="checkbox"/> SQLEXPADV_x64_ENU.exe	1.9 GB
<input type="checkbox"/> SQLEXPADV_x86_ENU.exe	1.8 GB
<input type="checkbox"/> SQLEXPRTW_x64_ENU.exe	1.0 GB
<input type="checkbox"/> SQLEXPRTW_x86_ENU.exe	1.0 GB
<input type="checkbox"/> SQLManagementStudio_x64_ENU.exe	921.6 MB
<input type="checkbox"/> SQLManagementStudio_x86_ENU.exe	939.8 MB

Select appropriate 32
or 64 bit version
based on your OS

Installing Microsoft SQL Management Studio

Step 2 of 2 (2012 version)

Microsoft® SQL Server® 2012 Service Pack 1 (SP1) Express

If your download does not start after 30 seconds, [Click here](#)

Install Instructions

Installation for the NEW users

Step 1: Enable [Microsoft .Net Framework 3.5 SP1](#), and Download and install [Microsoft .Net Framework 4.0](#).

Note: SQL Server Express (with database engine only) can work with either .NET 3.5 SP1 or .NET 4, there is no need to have both enabled.

Step 2: Download Microsoft® SQL Server® 2012 Express by clicking the appropriate link earlier, run it, and follow the instructions in the setup wizard to install.

Installation for the Existing Users

If you have an existing installation of Express with Tools, SQL Server Management Studio Express, or Express with Advanced Services, and want to add the complete SQL Server Management Studio feature to your Express instance, do the following:

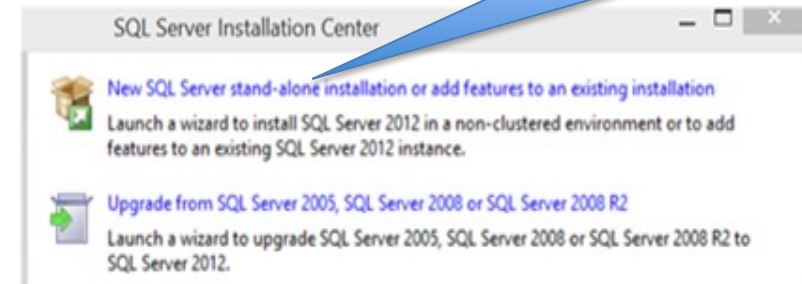
Step 1: Download the required Microsoft® SQL Server® 2012 Express SP1 file to update your current SQL Server 2012 Express installation by clicking the appropriate link earlier.

Step 2: Run the file, and follow the instructions in the setup wizard to install. On the Installation Type page, select Add features to an existing instance of SQL Server, and select the instance you would like to update.

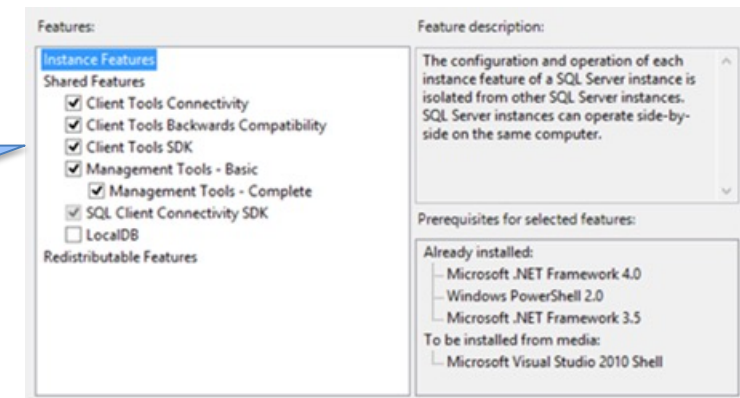
Step 3: On the Feature Selection page, select the Management Tools – Complete check box, and then proceed to complete the installation.

Once File Downloads, launch installer

Choose the New option



Default options should be OK



Logging into DB with Management Studio

Microsoft SQL Server 2012

Server type: Database Engine

Server name: ec2-54-188-36-172.us-west-2.compute.amazonaws

Authentication: SQL Server Authentication

Login: student01

Password: *****

Remember password

Connect Cancel Help Options >>

Server name =
ec2-54-148-238-113.us-west-2.compute.amazonaws, 1433

Recommended
AWS instance

User ID = studentxx
PW = uop123

Microsoft SQL Server 2012

Server type: Database Engine

Server name: ec2-54-188-36-172.us-west-2.compute.amazonaws,1

Authentication: SQL Server Authentication

Login: student01

Password: *****

Remember password

Connect Cancel Help Options >>

Visual Query Builder

FlySpeed SQL Query - <http://www.activebsoft.com/overview-querytool.html>

New Connection Wizard

Database Server
Select the database server to connect

Select your database server and its version from the list below. If your database server is not listed there, please select Generic ADO or ODBC connection option.

Connection Type: **MS SQL Server**

Server version: **Autodetect server version**

Information: To get connected to some databases you should have appropriate OLE DB provider or ODBC driver installed in your system. Drivers for many databases and file formats are already present in your Windows system. Drivers for other databases are usually installed with appropriate database client software. If you can't find one, you may ask your database administrator or contact your database vendor. Most of free and open-source databases let you to download them from their web sites. Also you may search the Internet for third-party drivers.

[See the FAQ section for details](#)

< Back Next >

New Connection Wizard

Connection properties
Define specific properties of the database connection

Server name: **ec2-54-188-36-172.us-west-2.compute.amazonaws.com, 1433**

Use integrated security

User name: **student01**

Password: **•••••** Save password

Default database: **RollingThunder**

Connection method: **Connect via SQL Native Client**

Encrypt connection

< Back Next > Cancel

Use native client option.
Use same server name
and login information

New Connection Wizard

Connection Name
Specify the Name to be shown in the Database Tree

Name: **TestStudent**

Open connection automatically on the application startup

Open the connection properties dialog to setup advanced options

Open connection after closing this wizard

< Back Finish Cancel

Name the
connection

Building a Query

Connections

- Intro SQL Class
- Rolling Thunder DB
- TestStudent
 - Queries
 - RollingThunder2013
 - dbo
 - Tables
 - Bicycle
 - BicycleTubeUsage
 - BikeParts
 - BikeTubes
 - CensusDivision
 - CensusRegion
 - City
 - CommonSizes
 - Component
 - ComponentName
 - Customer
 - CustomerTransaction
 - Employee
 - GroupComponents
 - Groupo
 - LetterStyle
 - Manufacturer
 - ManufacturerTransaction
 - ModelSize
 - ModelType
 - Paint
 - Preference
 - PurchaseItem
 - PurchaseOrder
 - RetailStore
 - RevisionHistory
 - SampleName
 - SampleStreet
 - States
 - StateTaxRate
 - TubeMaterial
 - WorkArea

Right Click on table. Add to New Query

SQL Text Query Builder Query Info History

Main

Bicycle

- * (selected)
- SerialNumber Int
- CustomerID Int
- ModelType Nvarchar
- PaintID Int
- FrameSize Real
- OrderDate SmallDateTime
- StartDate SmallDateTime
- ShipDate SmallDateTime
- ShipEmployee Int
- FrameAssembler Int
- Painter Int
- Construction Nvarchar
- WaterBottleBraze Int
- CustomName Nvarchar
- LetterStyleID Nvarchar
- StoreID Int
- EmployeeID Int
- TonTube Real

Click on query properties

Choose Top 100

Query Properties

SELECT

Default

DISTINCT

ALL

TOP 100 PERCENT WITH TIES

INTO

GROUP BY ALL (none)

OK Cancel

Press Execute

TestStudent

Execute Execute in new window

Other Software Options

for Mac, Linux, and Windows

- SQuirreL - <http://squirrel-sql.sourceforge.net/> (open source)
- DB Visualizer - <http://www.dbvis.com/> (freemium)
- Database Beaver - <http://dbeaver.jkiss.org/> - (Open source)
- Adminer - <http://www.adminer.org/> - (linux oriented)
- Valentina Studio - <https://valentina-db.com/en/studio/download> - Easy install on Mac

Valentina Studio Mac Install

- Download Mac version
- Double click on disk image
- Choose get a free serial and enter it. Provide a valid email account. The serial # will be sent to this email account
- Copy and paste the serial number
- Click on Connect To. Select MSSQL as the server type
- Specify
 - Hostname = ec2-54-148-238-113.us-west-2.compute.amazonaws.com
 - Port = 1433
 - UserID = studentxx (studentxx (xx = use any id from '01' to '60'))
 - Password = uop123
 - Database = PetStore