V1 Connection to SSMS

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1. SSMS is a client tool and not the server itself.
2. Developer machines (clients) connects to SQL server using SSMS.
3. Database server can be on one centralized machine. The developers/Clients connects to this server using SSMS.
4. Server type is always DATABASE ENGINE for database server.

5. If Database is on same local machine as SSMS, then local IP address of local machine can be given in as the server name(127.0.0.1 called loopback IP address.) or simply use '.' (single dot) it specifies we want to connect to local server or give *(local)* keyword.

6. Authentication depends on the configuration of SQL server during its installation , if *Mixed mode* is used than both windows and SQL authentication can be used, if *SQL server authentication* is used, then windows authentication option will not be available.

7. For windows authentication-ssms logins using the user through which we have logged in to windows.Using sql server authentication we login using the sql user specified during the sql server installation.

8. SA = system administrator user.

9. Database is collection of all the tables and database objects.

10. System databases gets installed when sql server is installed.

Auth modes
① Mixed mode = SQL Server Auth + windows Auth → login wing windows creds
② SQL Server Auth = password / creds to be created for sql login or with user specified during configuration