Permission Syntax

<u>AUTHORIZATION PERMISSION ON SECURABLE::NAME TO PRINCIPAL</u>

 AUTHORIZATION must be GRANT, REVOKE or DENY. PERMISSION is listed in the charts below.

Most permission statements have the format :

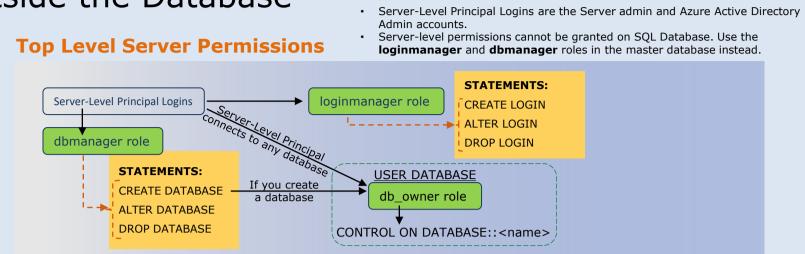
- ON SECURABLE::NAME is the server, server object, database, or database object and its name. (ON SECURABLE::NAME is omitted
- for server-wide and database-wide permissions.) PRINCIPAL is the login, user, or role which receives or loses the permission. Grant permissions to roles whenever possible. Sample grant statement: GRANT UPDATE ON OBJECT::Production.Parts TO PartsTeam

Denying a permission at any level, overrides a related grant. To remove a previously granted permission, use REVOKE, not DENY

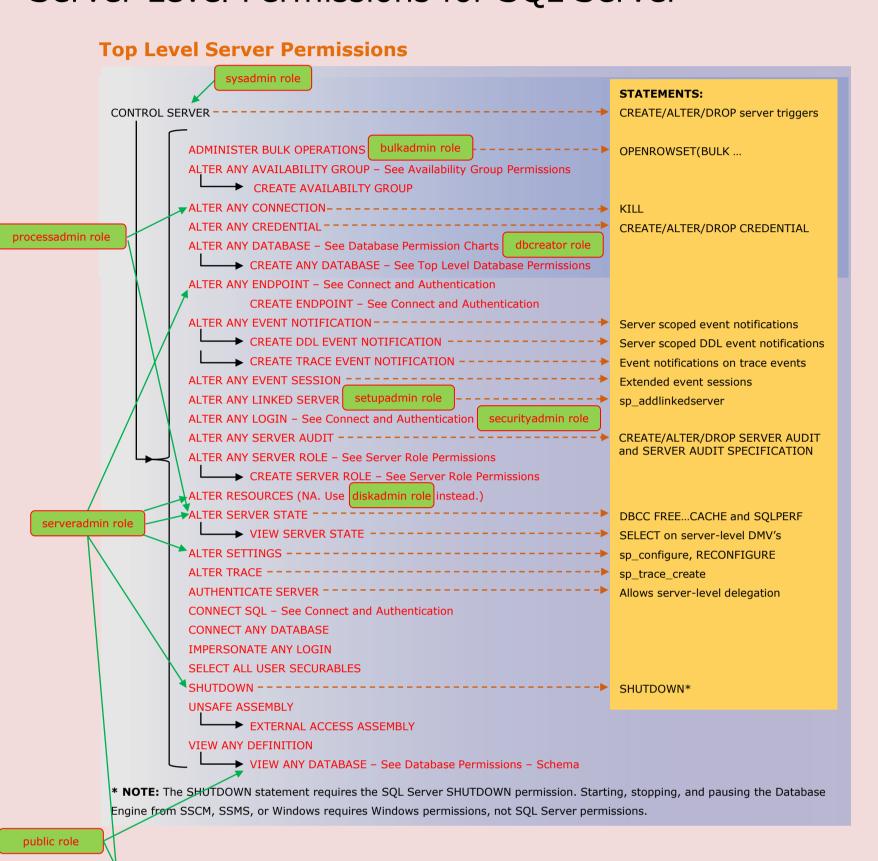
Most of the more granular permissions are included in more than one higher level scope permission. So permissions can be inherited

- from more than one type of higher scope. Black, green, and purple arrows and boxes point to subordinate permissions that are included in the scope of higher a level permission.
- Brown arrows and boxes indicate some of the statements that can use the permission. Permissions in black apply to both SQL Server 2016 and Azure SQL Database
- Permissions in red apply only to SQL Server 2016
- Permissions marked with # apply to SQL Server vNext and Azure SQL Database
- Permissions in blue apply only to Azure SQL Database The newest permissions are underlined

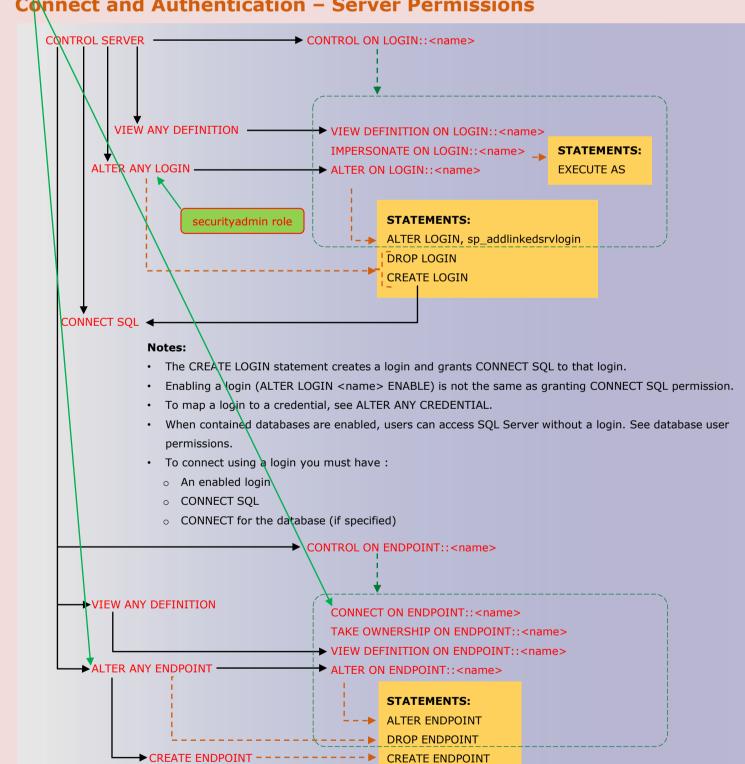
Azure SQL Database Permissions Outside the Database



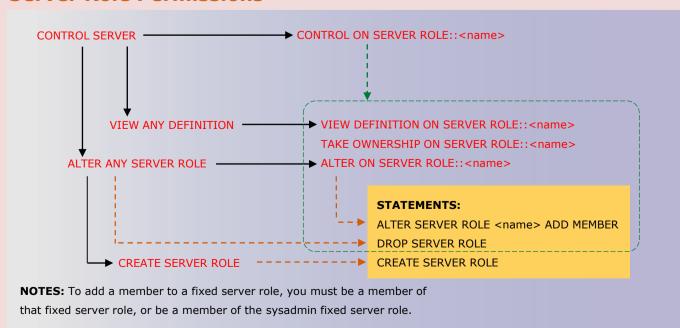
Server Level Permissions for SQL Server



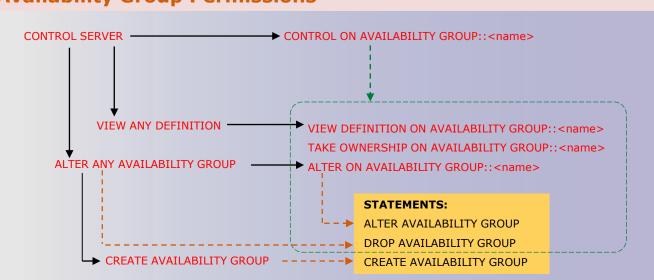
Connect and Authentication – Server Permissions



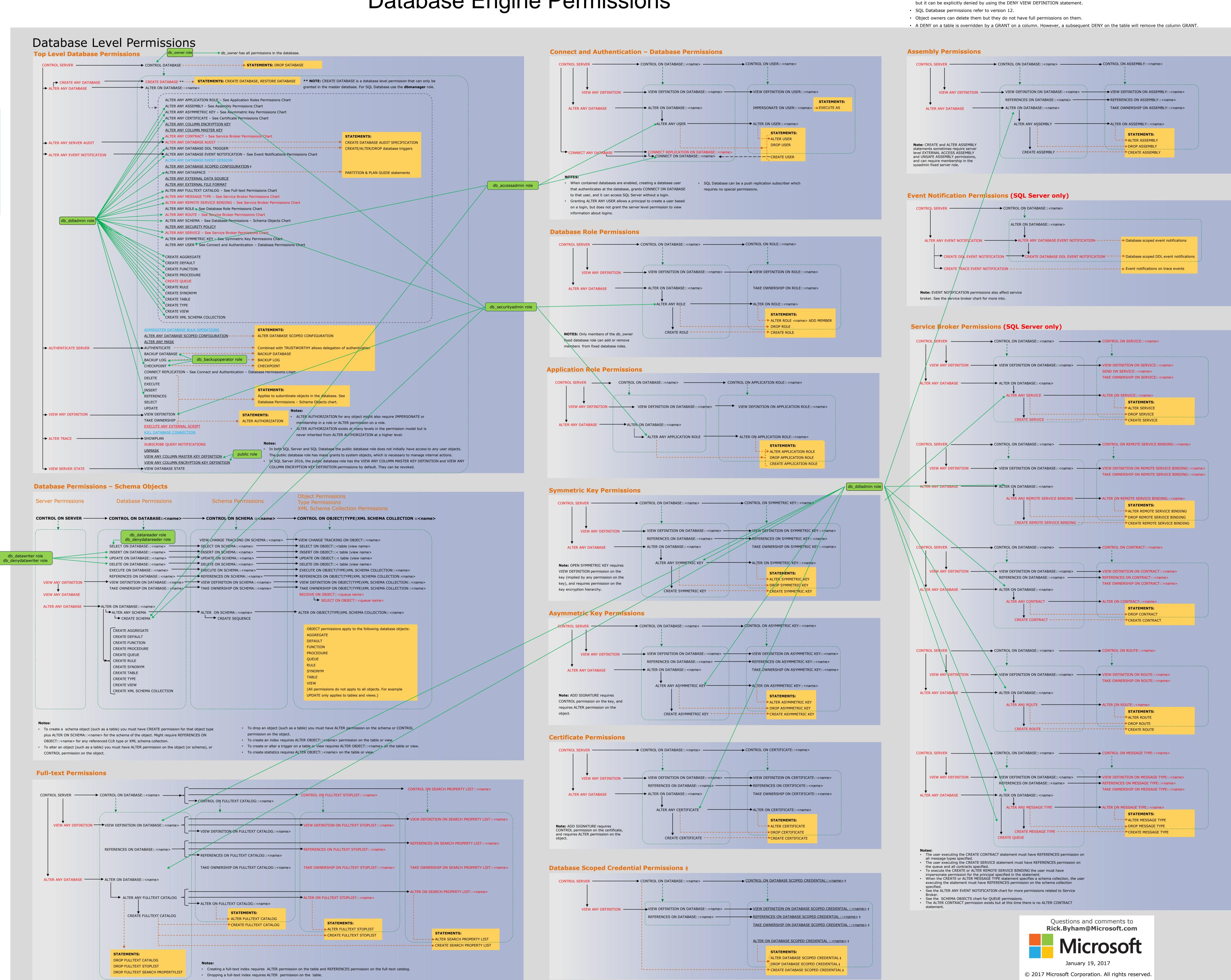
Server Role Permissions



Availability Group Permissions



Microsoft SQL Server vNext and Azure SQL Database Database Engine Permissions



NOTES: • The CONTROL SERVER permission has all permissions on the instance of SQL Server or SQL Database. The CONTROL DATABASE permission has all permissions on the database.

• Permissions do not imply role memberships and role memberships do not grant permissions. (E.g. CONTROL SERVER does not imply membership in the sysadmin fixed server role. Membership in the db_owner role does not grant the CONTROL DATABASE permission.)

However, it is sometimes possible to impersonate between roles and equivalent permissions. Granting any permission on a securable allows VIEW DEFINITION on that securable. It is an implied permissions and it cannot be revoked,