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

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

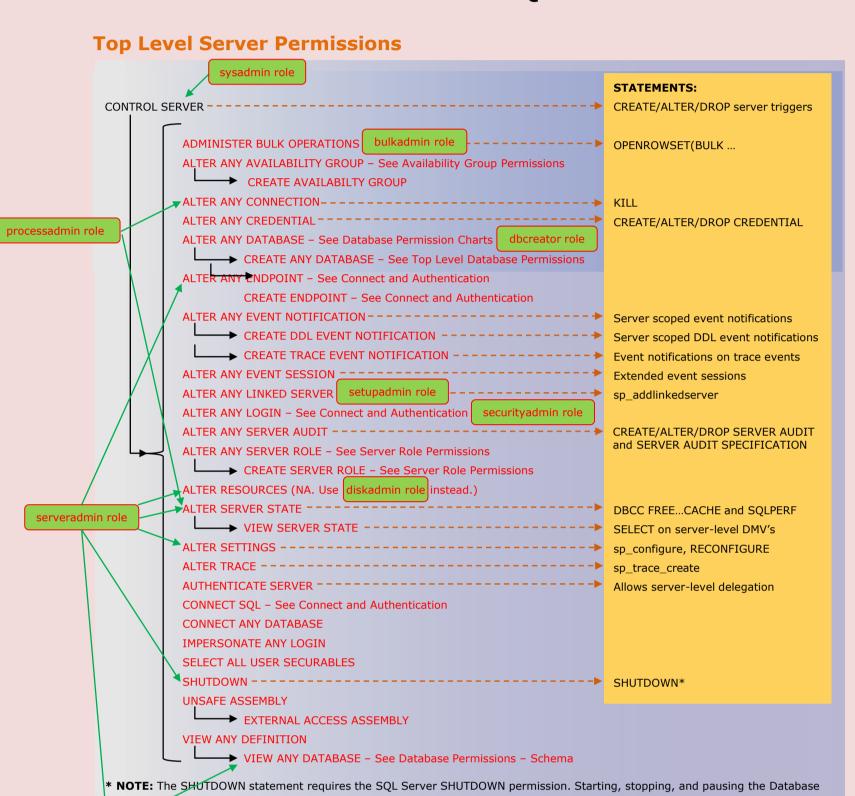
 Permissions in red apply only to SQL Server 2016 Permissions marked with ‡ apply to SQL Server 2017 and Azure SQL Database

 Permissions in blue apply only to Azure SQL Database The newest permissions are underlined

Azure SQL Database Permissions Outside the Database

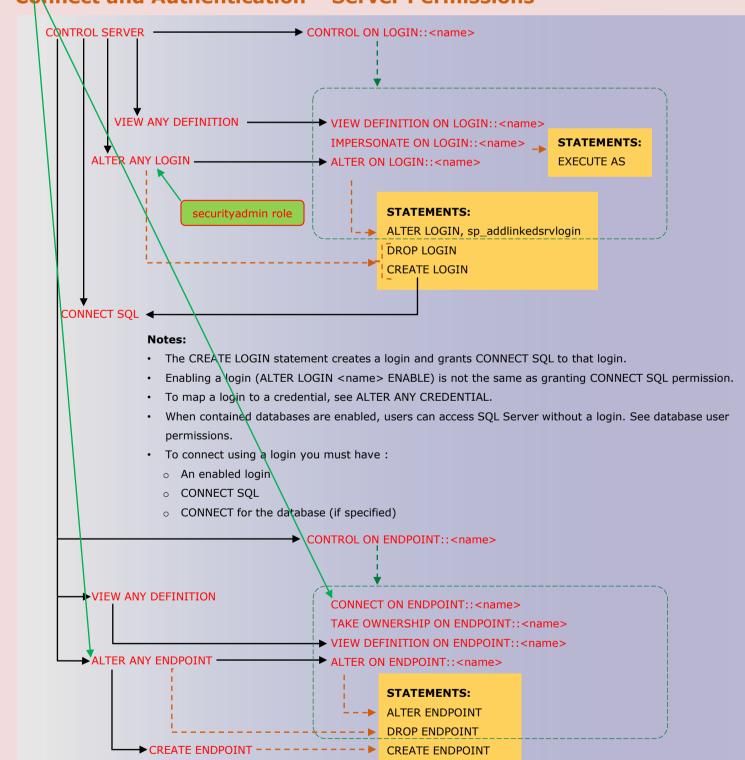
Server-Level Principal Logins are the Server admin and Azure Active Directory Server-level permissions cannot be granted on SQL Database. Use the **Top Level Server Permissions** loginmanager and dbmanager roles in the master database instead. CONTROL ON DATABASE::<name>

Server Level Permissions for SQL Server

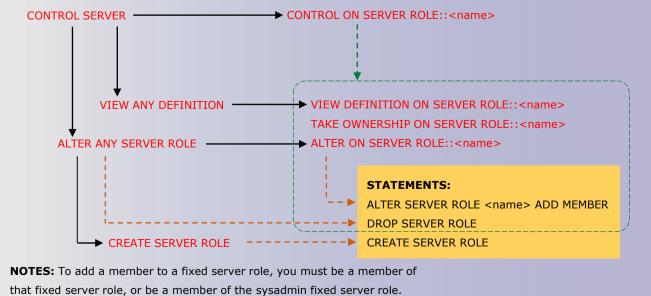


Connect and Authentication – Server Permissions

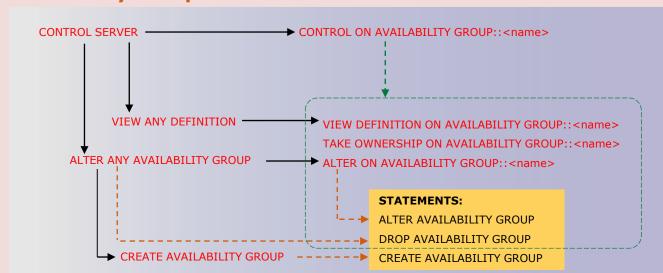
Engine from SSCM, SSMS, or Windows requires Windows permissions, not SQL Server permissions.



Server Role Permissions



Availability Group Permissions



Microsoft SQL Server 2017 and Azure SQL Database Database Engine Permissions

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

• Permissions do not imply role memberships and role memberships do not grant permissions. (E.g. CONTROL SERVER does not imply

The CONTROL DATABASE permission has all permissions on the database.

