Basic Analysis Services Security

Granting user permissions to access Analysis Services

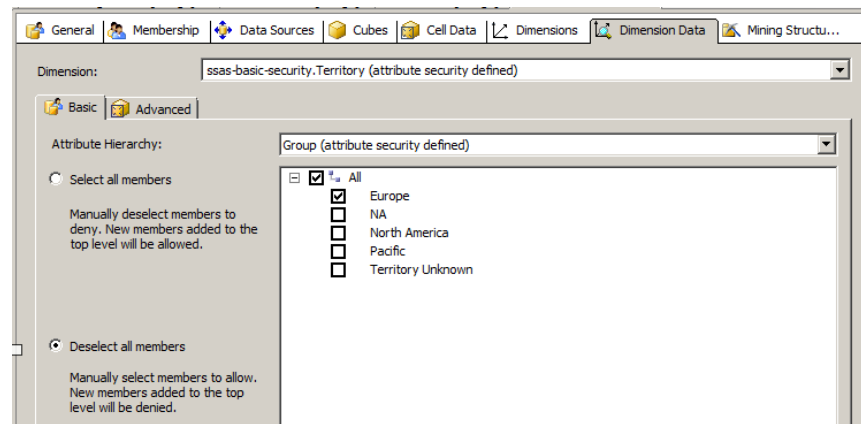Stacia Misner

www.pluralsight.com
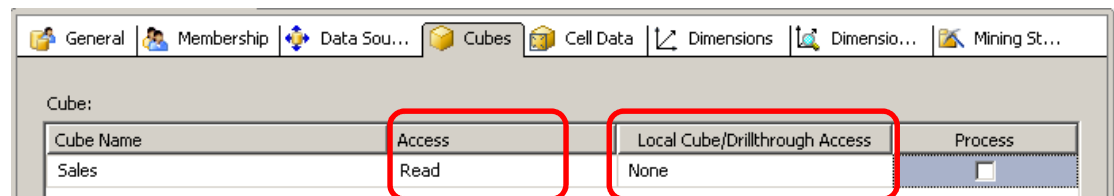
Overview

- User Security
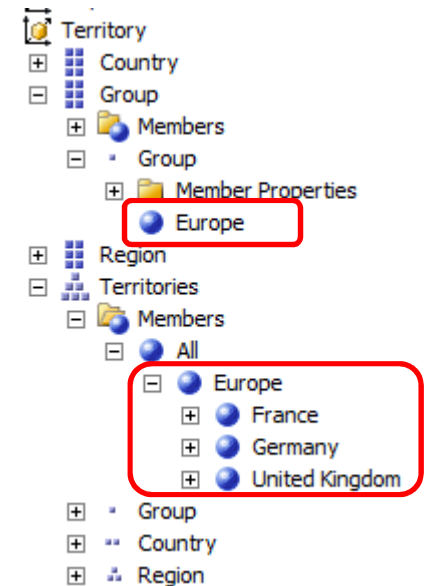- Administrator Security
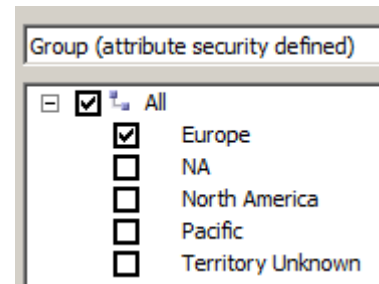- Service Account Configuration

User Security

- **Add security roles to cube using Windows groups**
- **Grant permissions**
  - Cube
  - Drill-through
  - Creation of local cube
- **Apply granular security, if necessary**
  - Dimension level
  - Cell level

Dimension Security

- **Allowed set or denied set**
  - Restricts access to members

- **Default member**
  - Automatic filter

- **Visual totals**
  - Filters grand total when enabled

Cell Security

Boolean expression

Administrator Security

Server-wide administration permissions
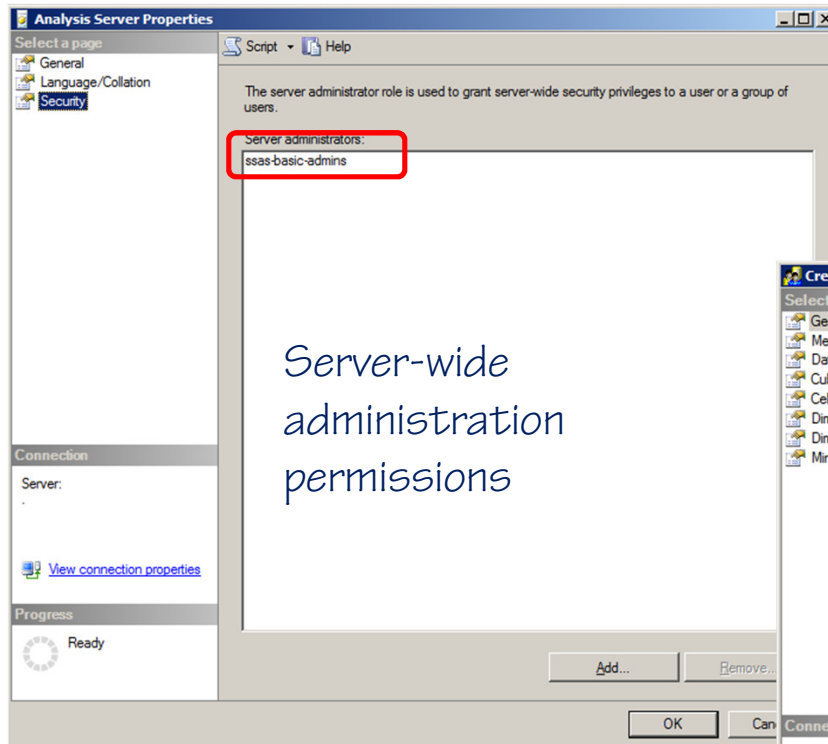
Built-in admins automatically have server administration permissions

Database-level administration permissions
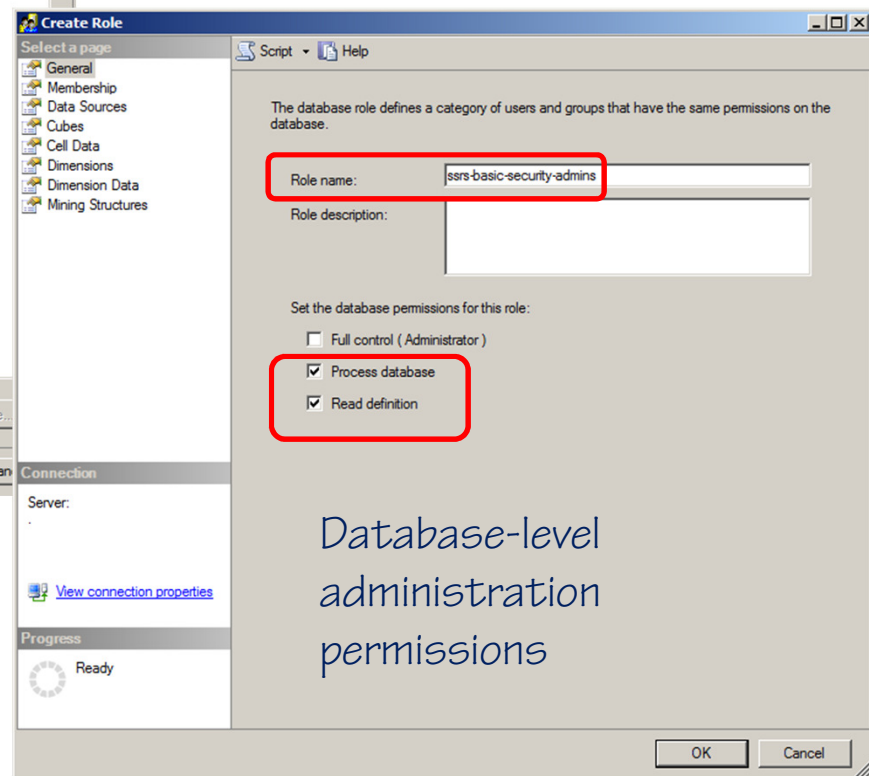
Service Account Configuration

- **Account**
    - Local user account
    - Domain user account
    - System account
- **Data Source Permissions**
    - MOLAP, HOLAP – Read
    - ROLAP – Read and Write
- **File System Permissions**
    - Backup files
- **Database Permissions**
    - Query log tables
    - Writeback tables

Use
SQL Server
Configuration Manager
to change service account
or passwords

Summary

- **User Security**
  - Cube security at minimum, dimension security, visual totals, cell security

- **Administrator Security**
  - Server-wide, database-level

- **Service Account Configuration**
  - Dedicated low-privilege account, read permissions except ROLAP, writeback, or query log require write permissions

References

- **User Access Security Architecture**
  - http://msdn.microsoft.com/en-us/library/ms174927.aspx
- **Granting Administrative Access**
  - http://msdn.microsoft.com/en-us/library/ms174862.aspx