Data Development	Data Quality Services	OLTP	Integration Services	Data Security & Storage	Data in the Cloud

SSIS Blog

Helpful information and examples on how to use SQL Server Integration Services.

SSIS Catalog Access Control Tips

Ke Yang   19 Mar 2012 11:02 PM   4

SSIS 2012 introduces significant improvements in how SSIS packages are deployed, configured and managed in a centralized SSIS catalog. The SSIS catalog corresponds to a user database, called SSISDB. You can secure the SSIS objects in the SSIS catalog (folders, projects, environments, operations/executions) using a combination of SQL security and security capabilities provided by SSIS. Months back, a friend asked on how to set SSIS catalog access control in a real world scenario. I'd like to share our thoughts here, see if it helps!

Briefly, consider below cases:

1. To allow a login to be able to read/execute only one project, but not able to access other objects (projects or environments) in a folder where the project is in:
    a. Map it to a member of the SSISDB database role -- **public**. (This leverages SQL security mechanism.)
    b. Grant it **Read** to the folder, and grant it **Read/Execute** to the project. (This uses SSIS Catalog security mechanism.)
2. To allow a login (user or group) to be able to read/execute all projects in a folder:
    a. Map it to a member of the SSISDB database role -- **public**.
    b. Grant it **Read/Execute/Read Objects** to the folder.
3. To allow a login to be able to do anything on SSISDB:
    a. make it a member of the SSISDB database role -- **ssis_admin**.

If you already get it, you can stop the reading here :-) Otherwise, let us take a real world scenario for example. Consider below requirements:

1. Two groups of developers (Group *DevA* and *DevB*) and they must not be able to see each other deployed projects; *DevA* can only run packages in *ProjectA*, *DevB* can only run packages in *ProjectB*.
2. One group of SSIS operators (Group *SSISOps*) that can run packages in projects deployed by developers in both group *DevA* and *DevB*.
3. One group of SSIS administrators (Group *SSISAdmins*) that can do anything.

Below, we'll take steps to apply Case 1 to *DevA* and *DevB*, apply Case 2 to *SSISOps*, and apply Case 3 to *SSISAdmins*.

1. Create SQL Server Logins for the groups *DevA*, *DevB*, *SSISOps* (**Note**: make sure when you add the group, under **Object Types** – **Groups** is checked). See below for *SSISOps'* example.
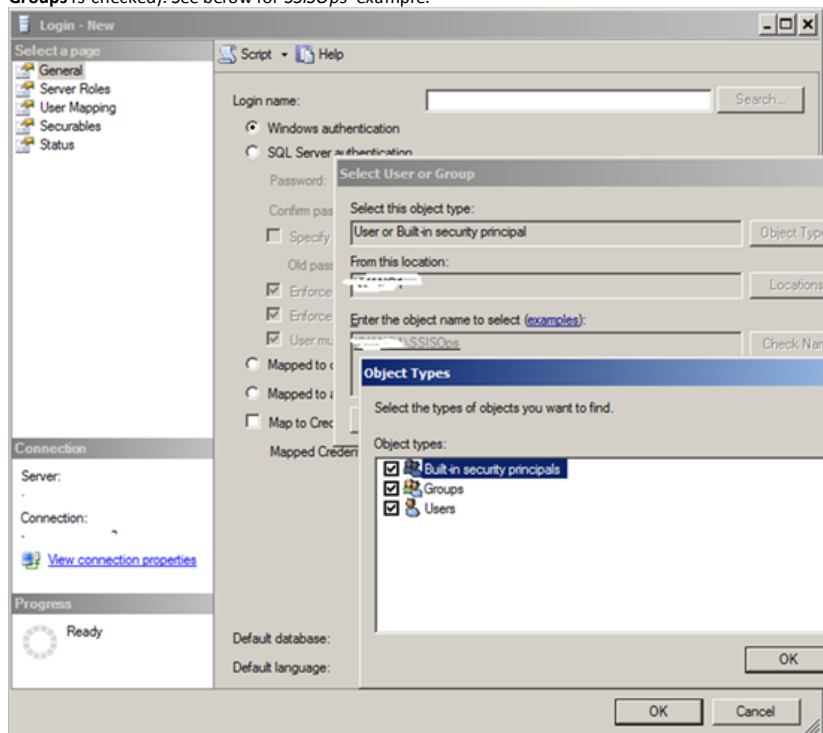
    a. Under **User Mapping**, click the checkbox for SSISDB.
    b. Map the login to be a member of **public** role.
2. Right-click on each folder where the projects are in.
    a. Choose **Permissions.**
    b. Add *DevA*, *DevB*, grant **Read** permission. (**Note**: if you grant **Read Objects** permissions, then *DevA* and *DevB* would be able to read all projects/environments under this folder, which is not desired in this scenario.)
    c. Add *SSISOps*, grant **Read** and **Execute** and **Read Objects** permissions. See below for *SSISOps'* example.
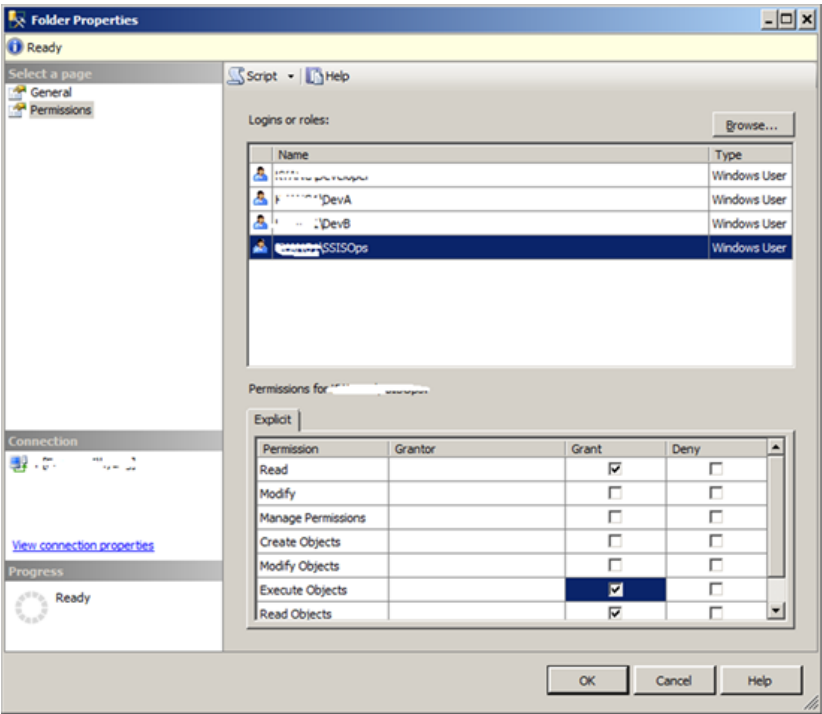
3. Right-click on each project.
    a. Choose **Permissions.**
    b. Click **Browse**, select *DevA* for *ProjectA*, select *DevB* for *ProjectB.*
    c. Grant **Read** and **Execute** to the login.
4. Create a SQL Server Login for Group *SSISAdmin.*
    a. Under **User Mapping**, click the checkbox for SSISDB.
    b. Make sure this login is a member of the SSISDB database role – **ssis_admin**, see below:
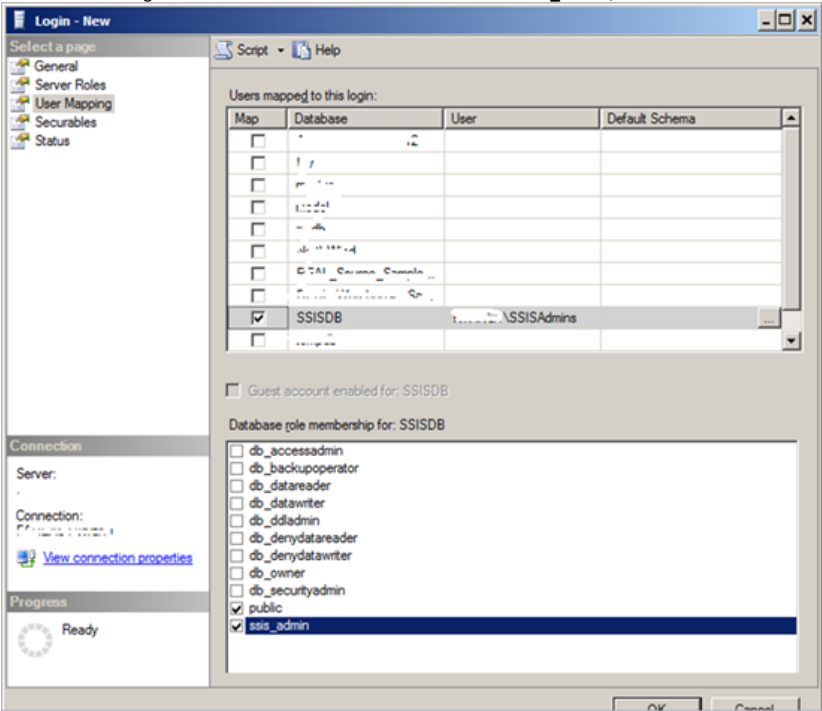
That's it!

Comments

19 Mar 2012 11:30 PM

Koen Verbeeck

Great blog post, thanks.

7 May 2012 6:50 PM

catalog

Your blog is great, SSIS when did it start? Is this the best way to start making different catalogs?

8 May 2012 8:56 AM

Ke Yang

What do you mean by "SSIS when did it start?"?

We support an in-stock catalog, SSISDB. To have different catalogs you may want to (and mean to) have different instances.

1 Jul 2013 4:11 AM

Jack

I have followed step 2 to allow a login (user or group) to be able to read/execute all projects in a folder (although I have only allowed Read and ReadObjects permissions as I just want the user to be able to view).

The problem is I cannot view anything in [catalog].[executions] or [catalog].[operations].

I can see rows from packages, folders etc. but not executions or operations

Any clues how I can view [catalog].[executions] etc?