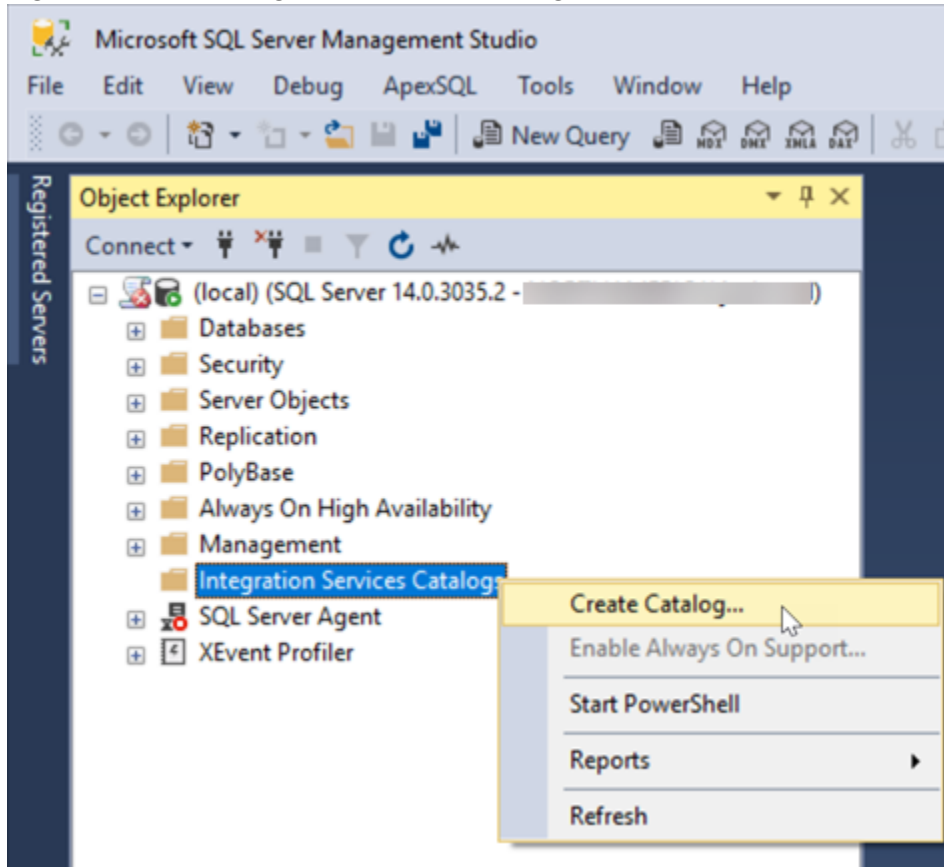


# SQL SERVER INTEGRATION SERVICES

## MODULE 01 – LAB 01: CREATING SSSIS CATALOG DB

1. Launch SQL Server Management Studio (SSMS).
2. Right-click on the Integration Services Catalogs folder and select **Create Catalog**.



*Note: Must have SQL Server Integration Services installed before creating SSISDB Catalog.*

3. In Create Catalog dialog box select "Enable automatic execution of Integration Services stored procedure at SQL Server Startup" and enter the Password to protect the encryption key and click OK.

**Create Catalog**

Ready

Select a page

General

Script | Help

To create and use the catalog, CLR integration must be enabled on the current SQL Server instance.

☒ Enable CLR Integration

**1** ☒ Enable automatic execution of Integration Services stored procedure at SQL Server startup.

Name of the catalog database:

SSISDB

The catalog protects data using encryption. A key is needed for this encryption. Enter a password to protect the encryption key, and save the password in a secure location.

Password:

**2** .....

Retype Password:

**3** .....

You can manage the encryption key by creating a backup. If you migrate or move the Integration Services catalog to another SQL Server instance, you can restore the key to regain access to encrypted content.

☐ Enable this server as SSIS scale out master

Cannot enable Scale Out in this server, please check whether Scale Out Master is installed or you have enough permission.

Connection

(local)  
[NORTHAMERICA\jaahmed]

[View connection properties](#)

Progress

Ready

**4** OK Cancel Help

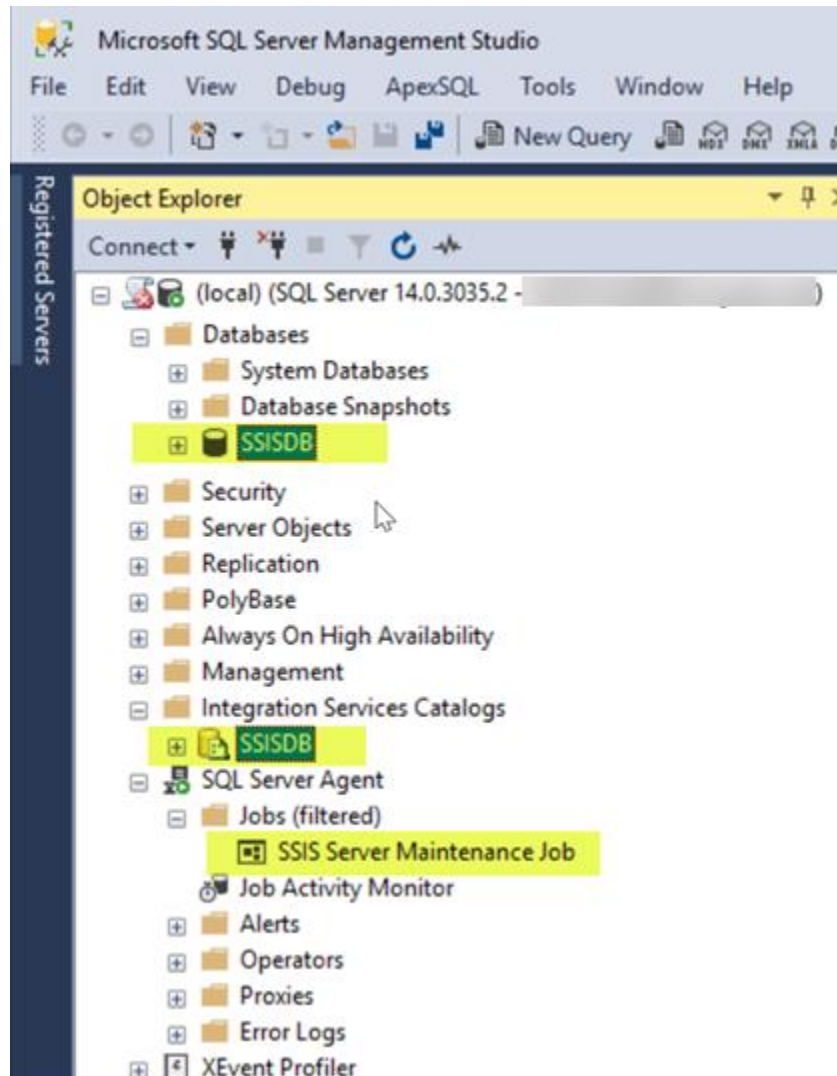
**Note:**

Enable automatic execution of Integration Services stored procedure at SQL Server Startup Setting will create [master].[dbo].[sp\_ssis\_startup] procedure with ExecIsStartup property set to true. This procedure will in turn call [SSISDB].[catalog].[startup] procedure.

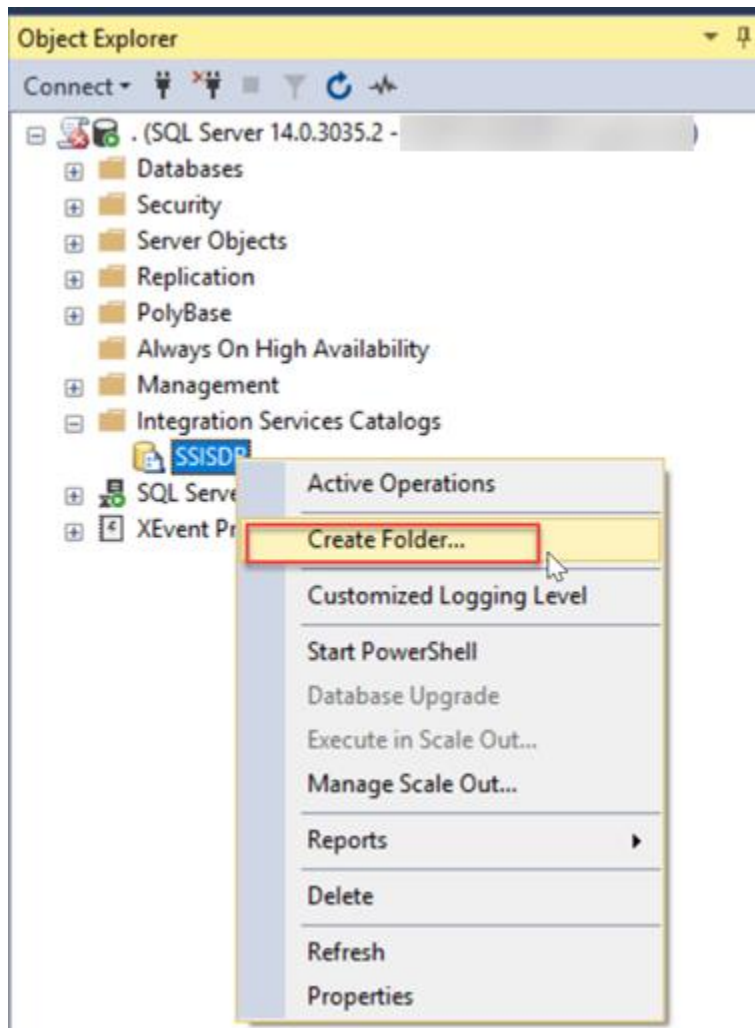
```
USE master;  
SELECT name, create_date, modify_date  
FROM sys.procedures  
WHERE OBJECTPROPERTY(OBJECT_ID, 'ExecIsStartup') = 1  
  
exec sp_helptext 'dbo.sp_ssis_startup';
```

4. After successful creation of the catalog. You will see a new database SSISDB created, a new SQL Job "SSIS Server Maintenance Job" created.

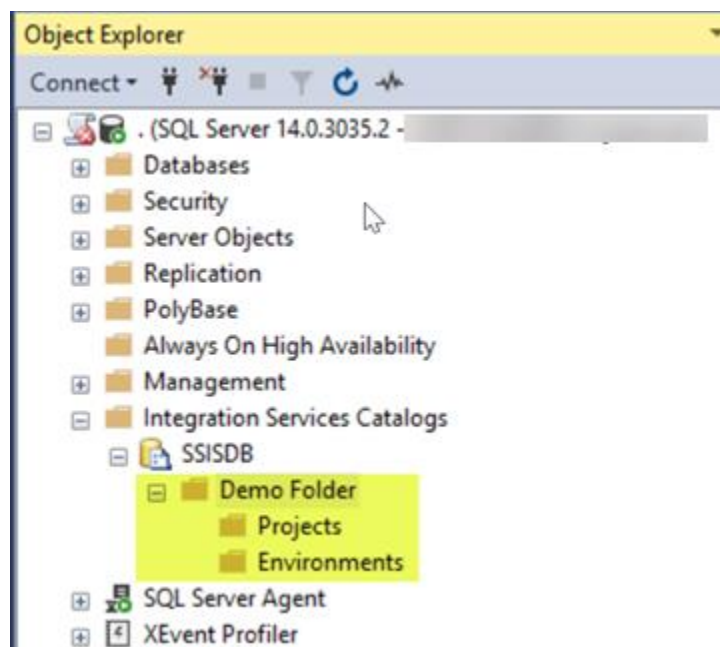
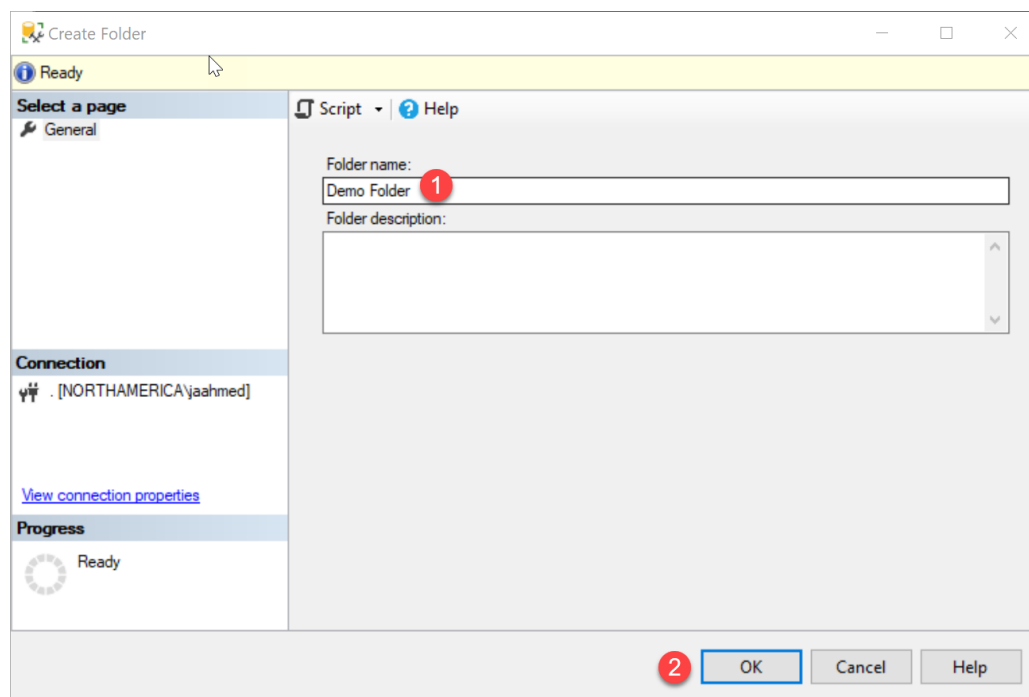
You will also see a new SSISDB item in the Integration Services Catalogs folder. This is simply an SSMS interface to create records in the SSISDB database.



5. Create your first SSIS Catalog folder. Integration Services Catalogs → SSISDB → right-click and select create folder.



6. On the Create Folder dialog, enter the name "Demo Folder" of the folder and click OK.



7. Backup the SSISDB Master key, for future Restore purposes. And note down the password used to protect the key. Run the Following Query in SSMS , and store the exported Key in a secure place.

```
use SSISDB;  
  
backup master key to file = 'c:\temp\SSISDBKey'  
encryption by password = 'LS2Setup!'  
  
/*  
Restore master key from file = 'c:\temp\SSISDBKey'  
    Decryption by password = 'LS2Setup!' -- 'Password used to encrypt the master key  
during SSISDB backup'  
    Encryption by password = 'LS3Setup!' -- 'New Password'  
    Force  
*/
```

**Reference:** <https://docs.microsoft.com/en-us/sql/integration-services/backup-restore-and-move-the-ssis-catalog?view=sql-server-2014>