

TP5 - Business Intelligence SSIS - Gestionnaires d'événements/ Déploiement des Packages SSIS

Master: Traitement intelligent des systèmes

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Les gestionnaires d'événements peuvent réaliser des tâches comme les suivantes :

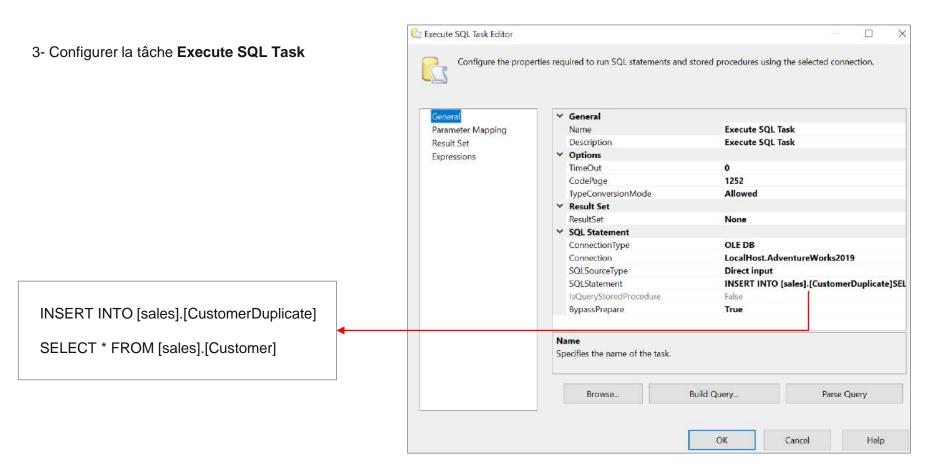
- nettoyer l'emplacement de stockage des données temporaires une fois l'exécution d'un package ou d'une tâche terminée ;
- récupérer les informations système de manière à évaluer la disponibilité des ressources avant exécution d'un package ;
- actualiser les données d'une table en cas d'échec d'une recherche dans une table de référence ;
- envoyer un message électronique lorsqu'une erreur ou un avertissement se produit ou lorsqu'une tâche échoue.

1- Créer la table Customer Duplicate :

CREATE TABLE [Sales].[CustomerDuplicate](
 [CustomerID] [int] NOT NULL,
 [PersonID] [int],
 [StoreID] [int],
 [TerritoryID] [int],
 [AccountNumber] [VARCHAR],
 [rowguid] [uniqueidentifier] ,
 [ModifiedDate] [datetime]);

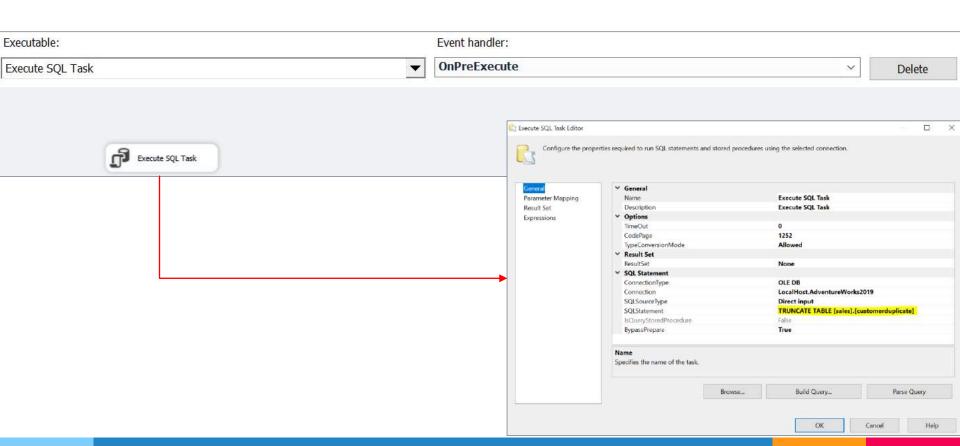
2- Créer un nouveau package **EventHandler** et définir le control flow comme suit:





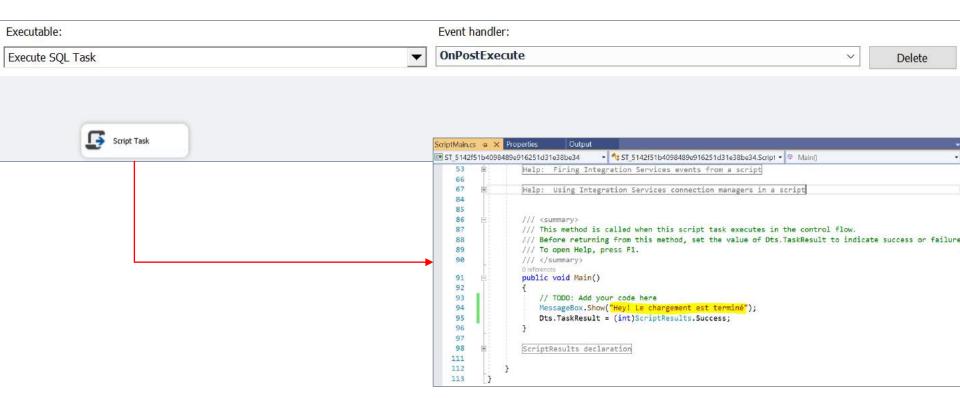
1. OnPreExecute

4- Supprimer toutes les données de la table customer Duplicate avant l'exécution de la tâche



2. OnPostExecute

5- Afficher un message une fois le chargement de données dans la table customerDuplicate est terminé



2. OnPostExecute

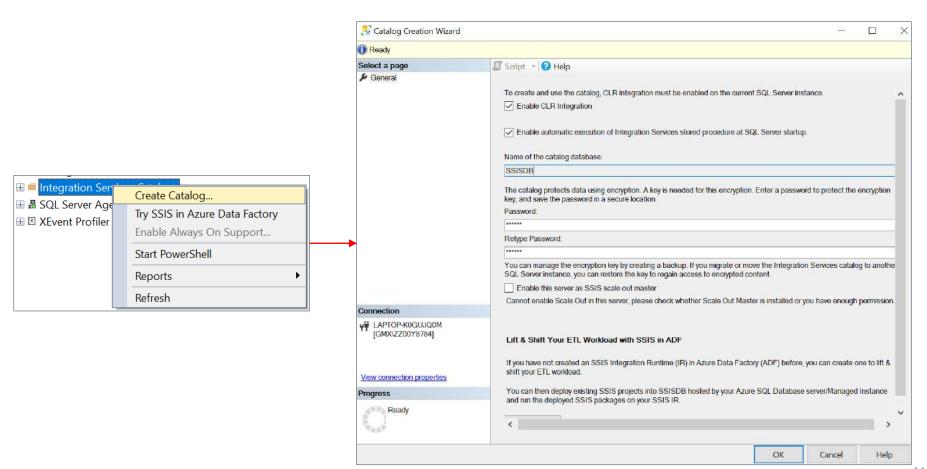


Déploiement des packages SSIS

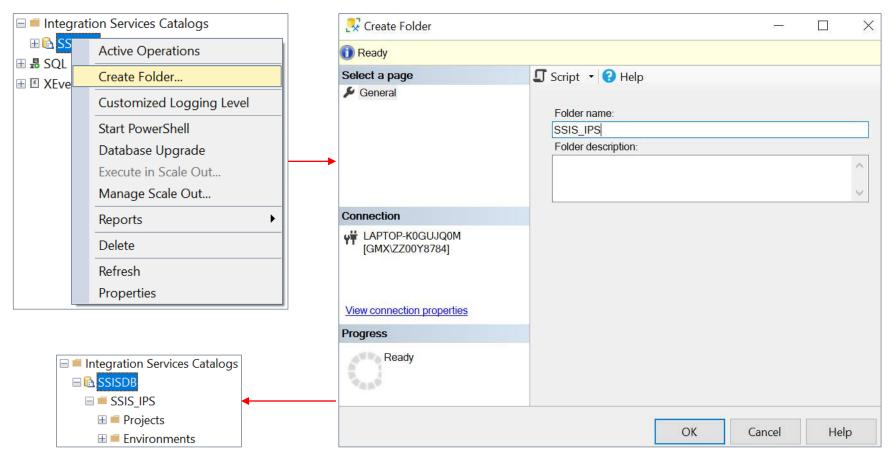
1. Déployer un Projet/ Package SSIS

• L'exécution du package SSIS est possible via Visual Studio. Cependant, un déploiement du package sur le serveur est plus avantageux, en particulier pour automatiser l'exécution.

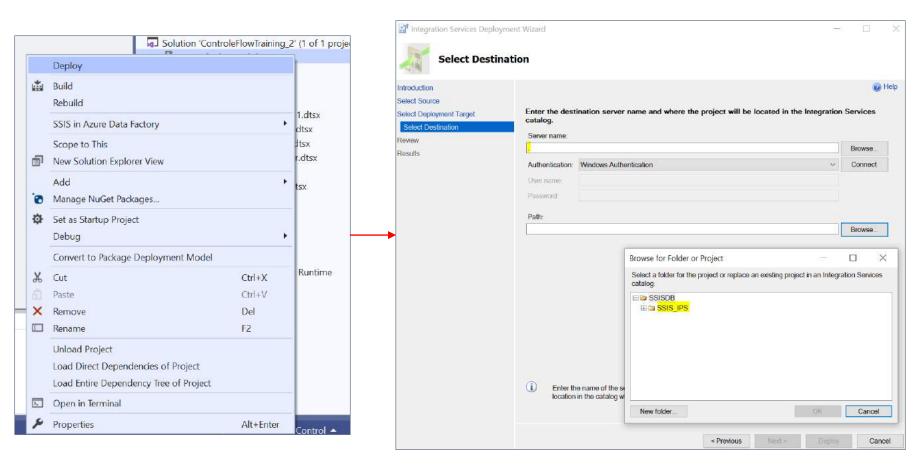
1.1 Créer un Catalogue Integration Services

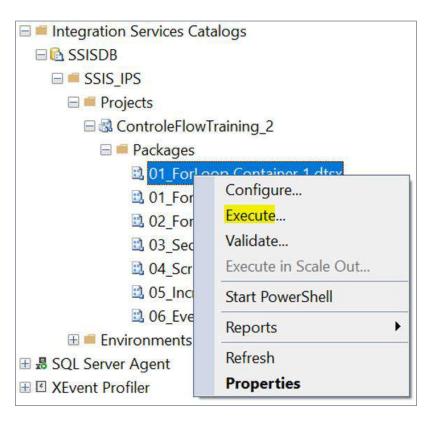


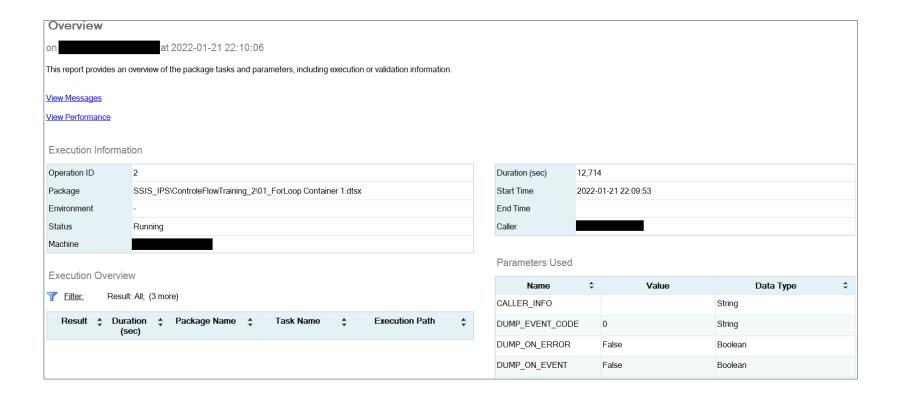
1.2 Créer un Dossier dans le catalogue

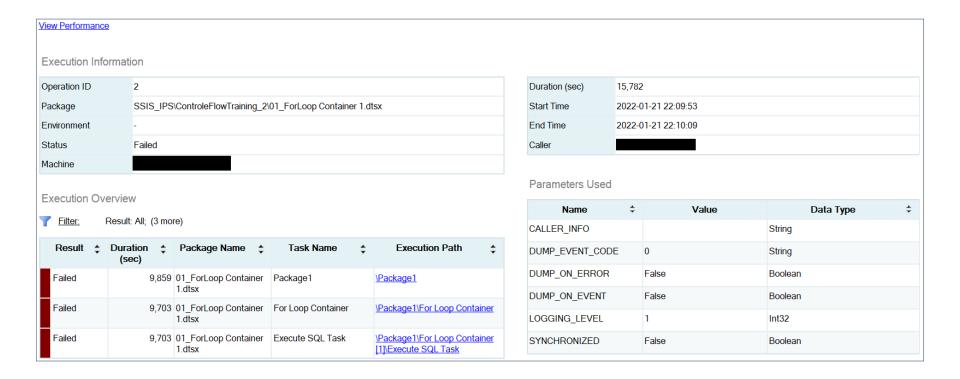


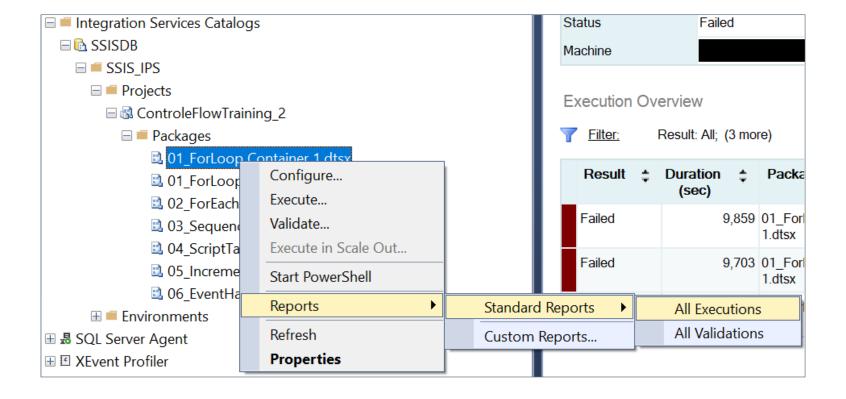
1.3 Déployer le projet

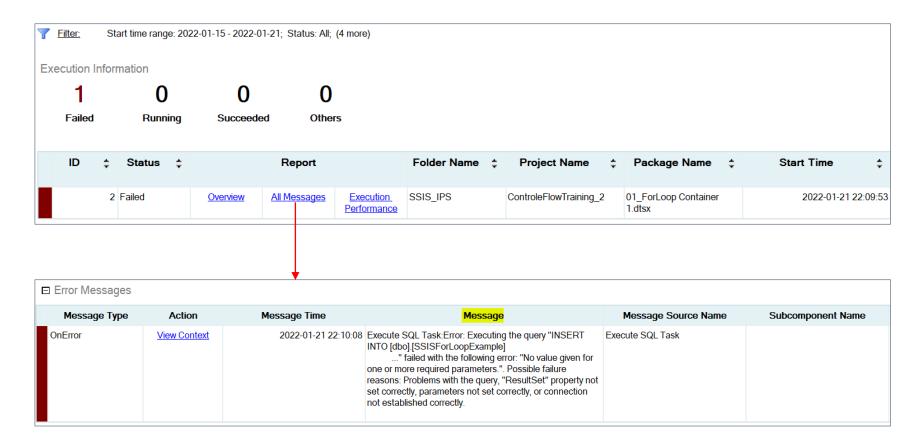


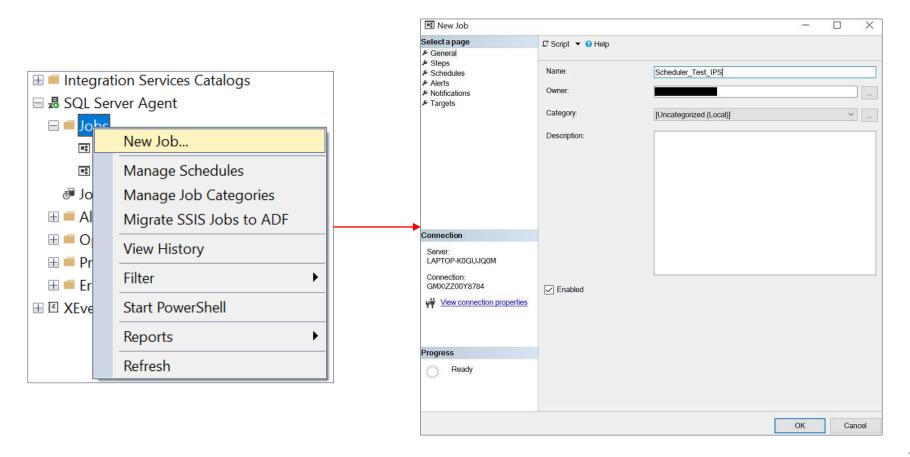


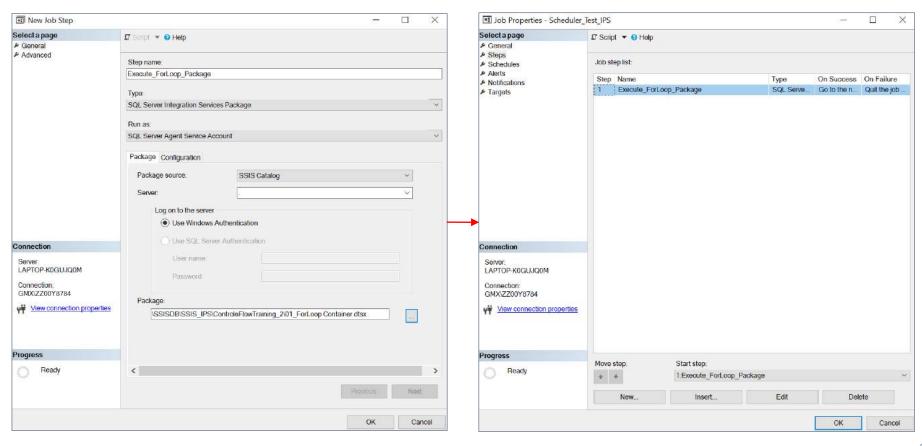


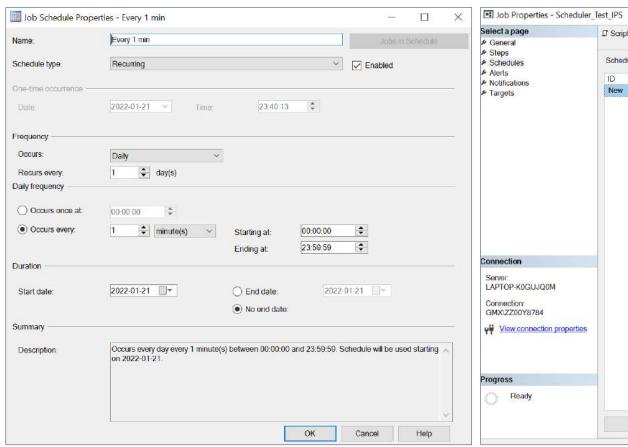


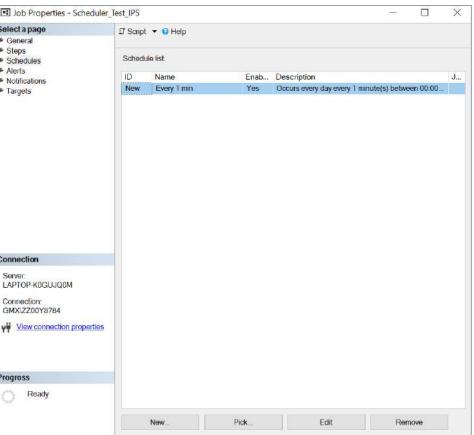






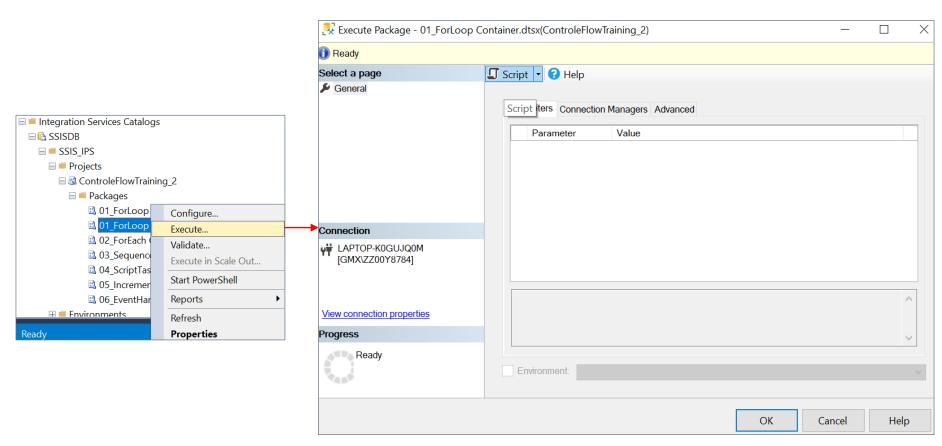






Selectlogs	🗁 Load Log 👸 Export 🛂 Refresh 🍸 Filter 🗣 Search 🔲 Stop 🗡 Delete 盾 Help							
	Log file summary: No filter applied							
	Date ▼		Step ID	Server	Job Name	Step Name	Notifications	Message
	# 🗸	2022-01-21 <mark>23:44:</mark> 00			Scheduler Test IPS			The job succeeded. The Job wa
	± 🗸	2022-01-21 <mark>23:43:</mark> 00			Scheduler Test IPS			The job succeeded. The Job wa
	± 🗸	2022-01-21 <mark>23:42</mark> :00			Scheduler Test IPS			The job succeeded. The Job wa
⊞ Database Mail	# 🗸	2022-01-21 23:37:10			Scheduler Test IPS			The job succeeded. The Job wa

4. Exécuter un package SSIS utilisant le T-SQL



4. Exécuter un package SSIS utilisant le T-SQL

GO

```
Declare @execution_id bigint

EXEC [SSISDB].[catalog].[create_execution] @package_name=N'01_ForLoop Container.dtsx', @execution_id=@execution_id OUTPUT,

[@folder_name=N'SSIS_IPS', @project_name=N'ControleFlowTraining_2', @use32bitruntime=False, @reference_id=Null, @runinscaleout=False

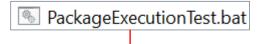
Select @execution_id

DECLARE @var0 smallint = 1

EXEC [SSISDB].[catalog].[set_execution_parameter_value] @execution_id, @object_type=50, @parameter_name=N'LOGGING_LEVEL', @parameter_value=@var0

EXEC [SSISDB].[catalog].[start execution] @execution id
```

5. Planifier des packages SSIS avec le planificateur de tâches



@ECHO OFF

CLS

ECHO My Test Package executing from batch file

PAUSE

"C:\Program Files\Microsoft SQL Server\150\DTS\Binn\DTEXEC.exe"

/File

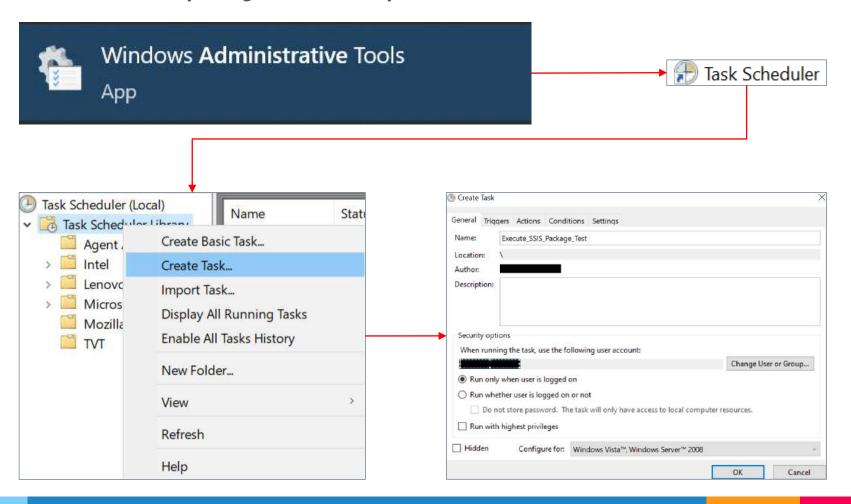
"C:\Users\KhawlaElansari\source\repos\ControleFlowTraining_2\ControleFlowTraining_2\ControleFlowTraining_2\O1_ForLoop Container.dtsx"

PAUSE

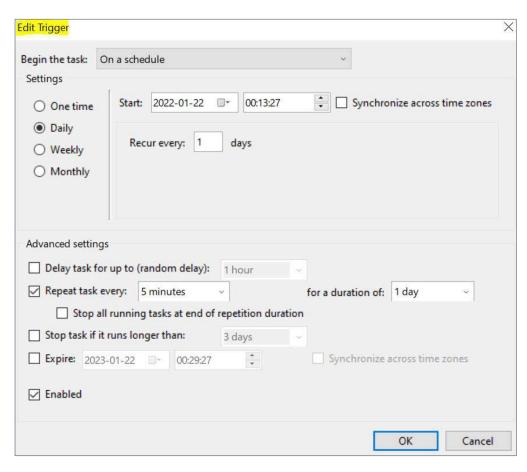
```
My Test Package executing from batch file
Press any key to continue . . .
Microsoft (R) SQL Server Execute Package Utility
Version 15.0.2000.5 for 64-bit
Copyright (C) 2019 Microsoft. All rights reserved.
Started: 00:22:18
 rogress: 2022-01-22 00:22:19.49
  Source: Execute SQL Task
  Executing query "INSERT INTO [dbo].[SSISForLoopExample]
          ...".: 100% complete
End Progress
Progress: 2022-01-22 00:22:19.49
  Source: Execute SQL Task
  Executing query "INSERT INTO [dbo].[SSISForLoopExample]
          ...".: 100% complete
End Progress
Progress: 2022-01-22 00:22:19.50
  Source: Execute SQL Task
  Executing query "INSERT INTO [dbo].[SSISForLoopExample]
          ...".: 100% complete
End Progress
Progress: 2022-01-22 00:22:19.50
  Source: Execute SQL Task
  Executing query "INSERT INTO [dbo].[SSISForLoopExample]
          ...".: 100% complete
End Progress
Progress: 2022-01-22 00:22:19.51
  Source: Execute SQL Task
  Executing query "INSERT INTO [dbo].[SSISForLoopExample]
          ...".: 100% complete
End Progress
Progress: 2022-01-22 00:22:19.52
  Source: Execute SQL Task
  Executing query "INSERT INTO [dbo].[SSISForLoopExample]
          ...".: 100% complete
End Progress
DTExec: The package execution returned DTSER SUCCESS (0).
```

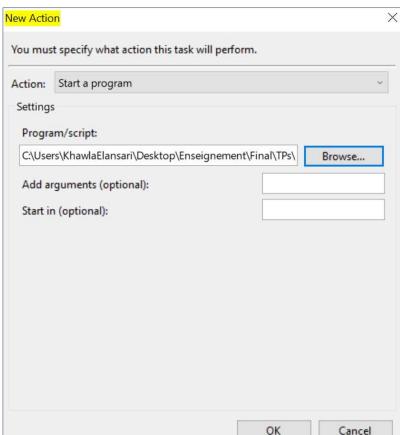
C:\WINDOWS\svstem32\cmd.exe

5. Planifier des packages SSIS avec le planificateur de tâches



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Questions?