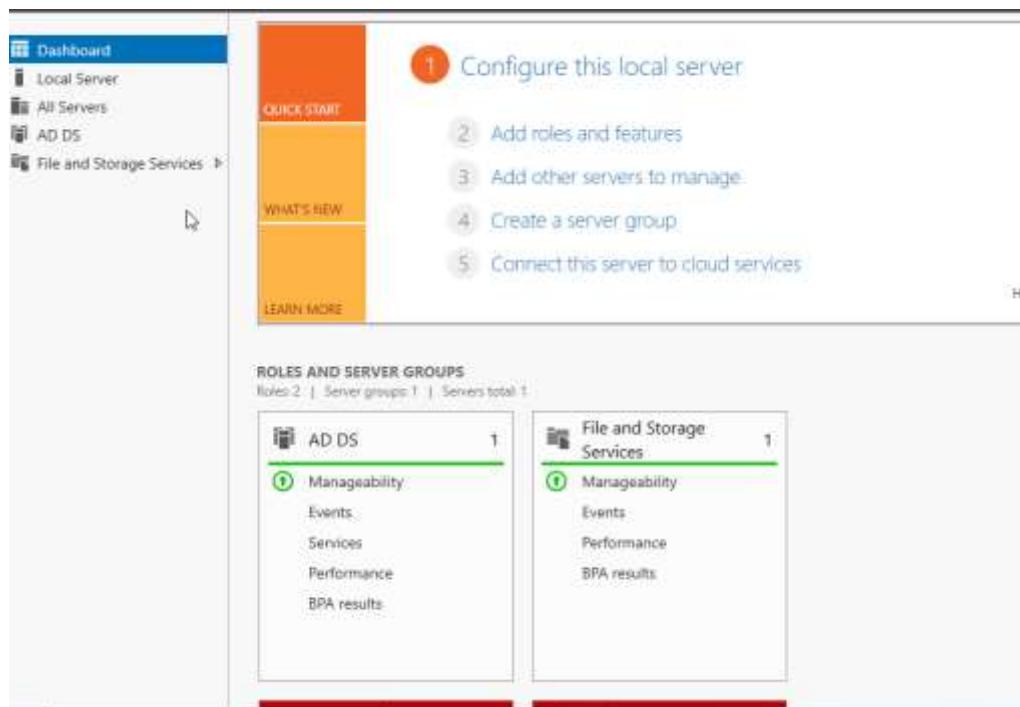


## PARTIE II : INFRASTRUCTURE VIRTUELLE – WINDOWS server

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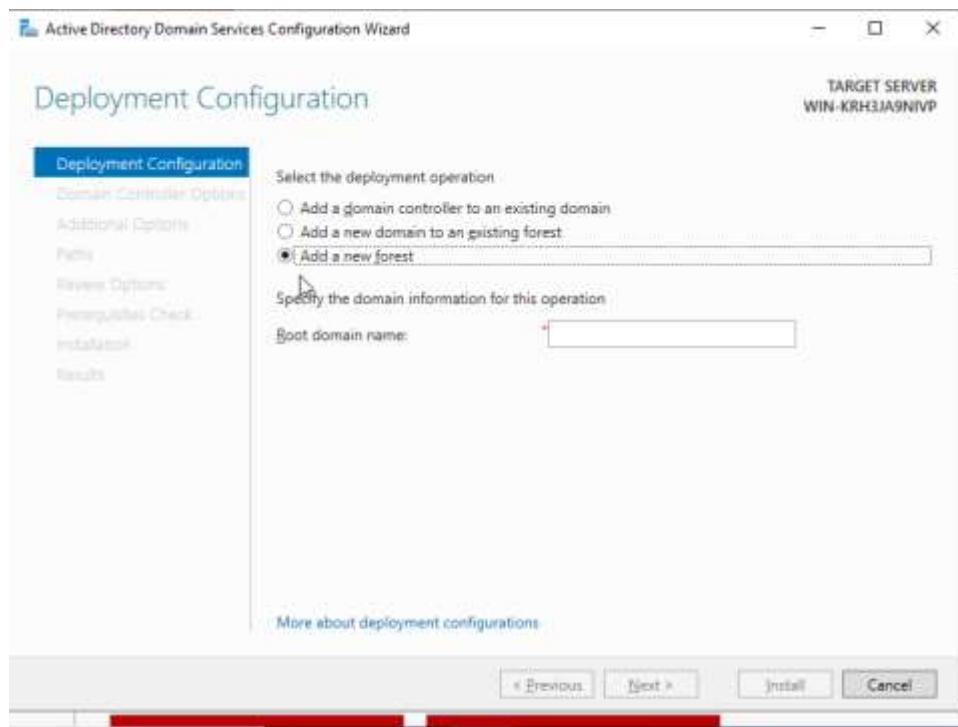
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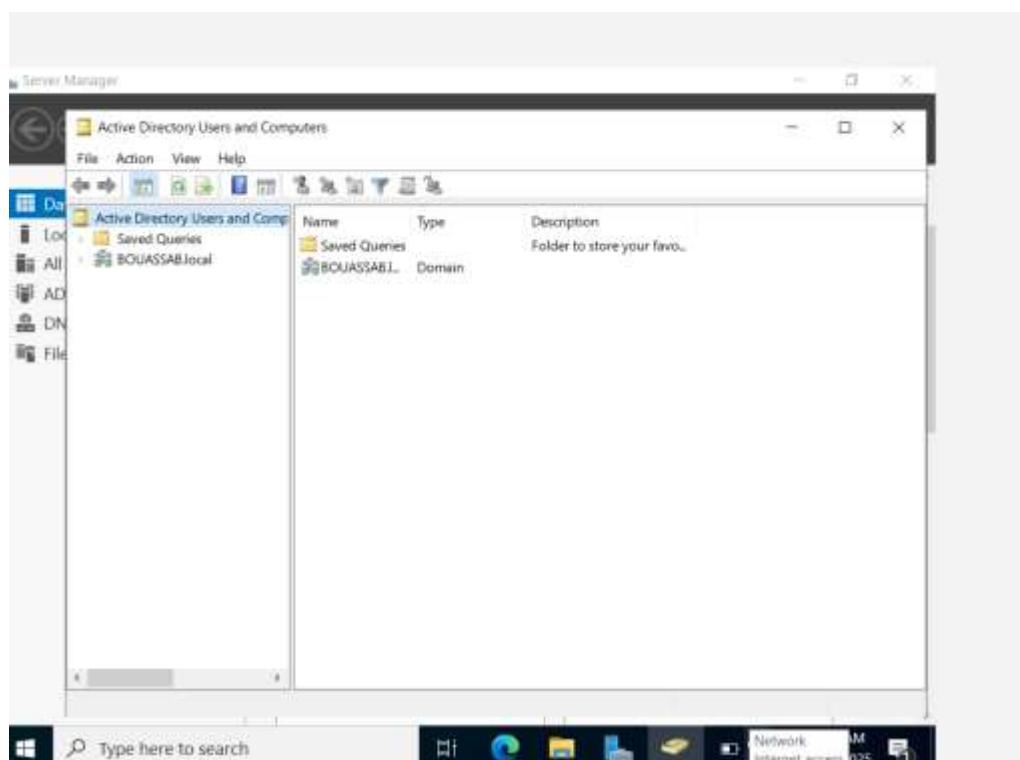
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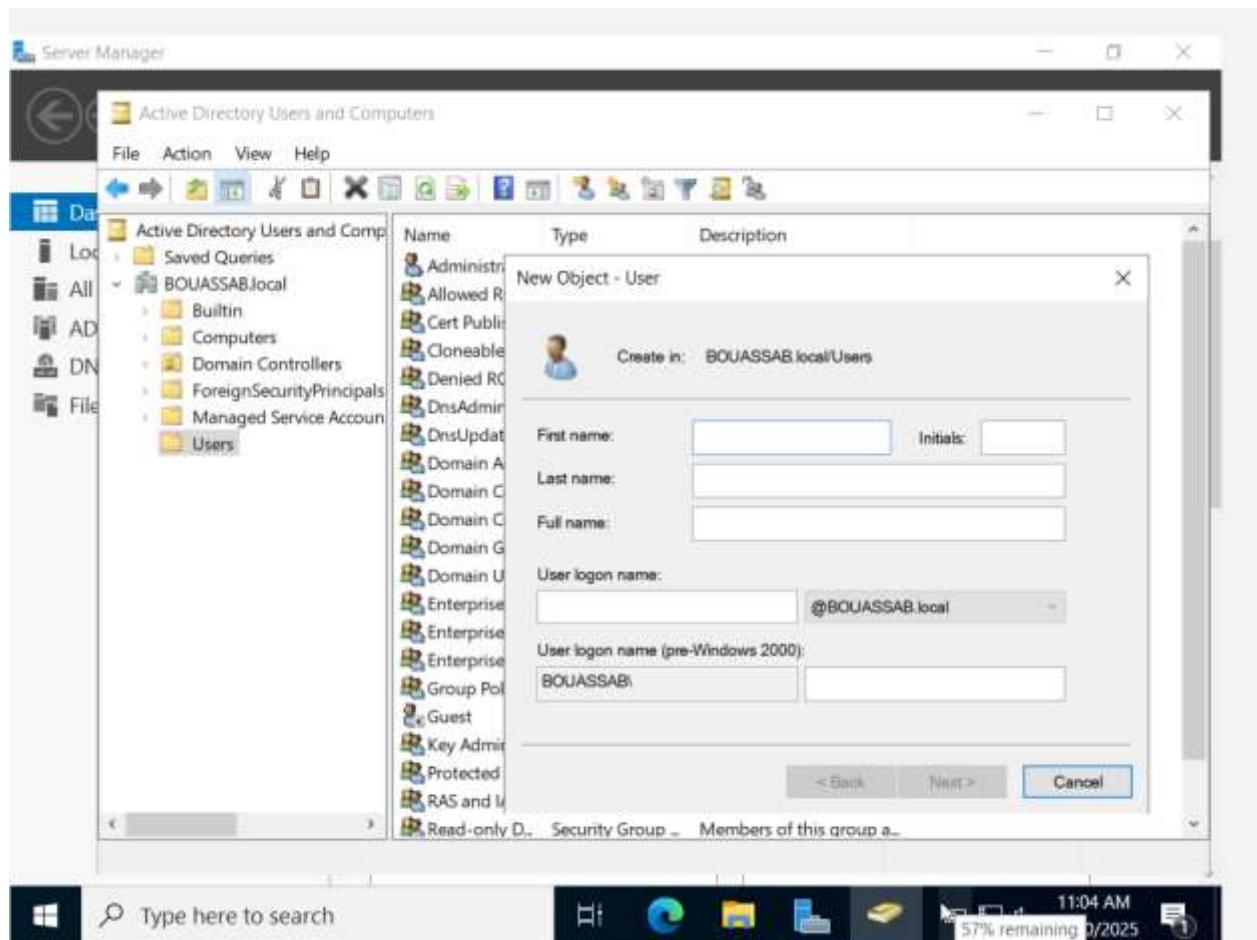


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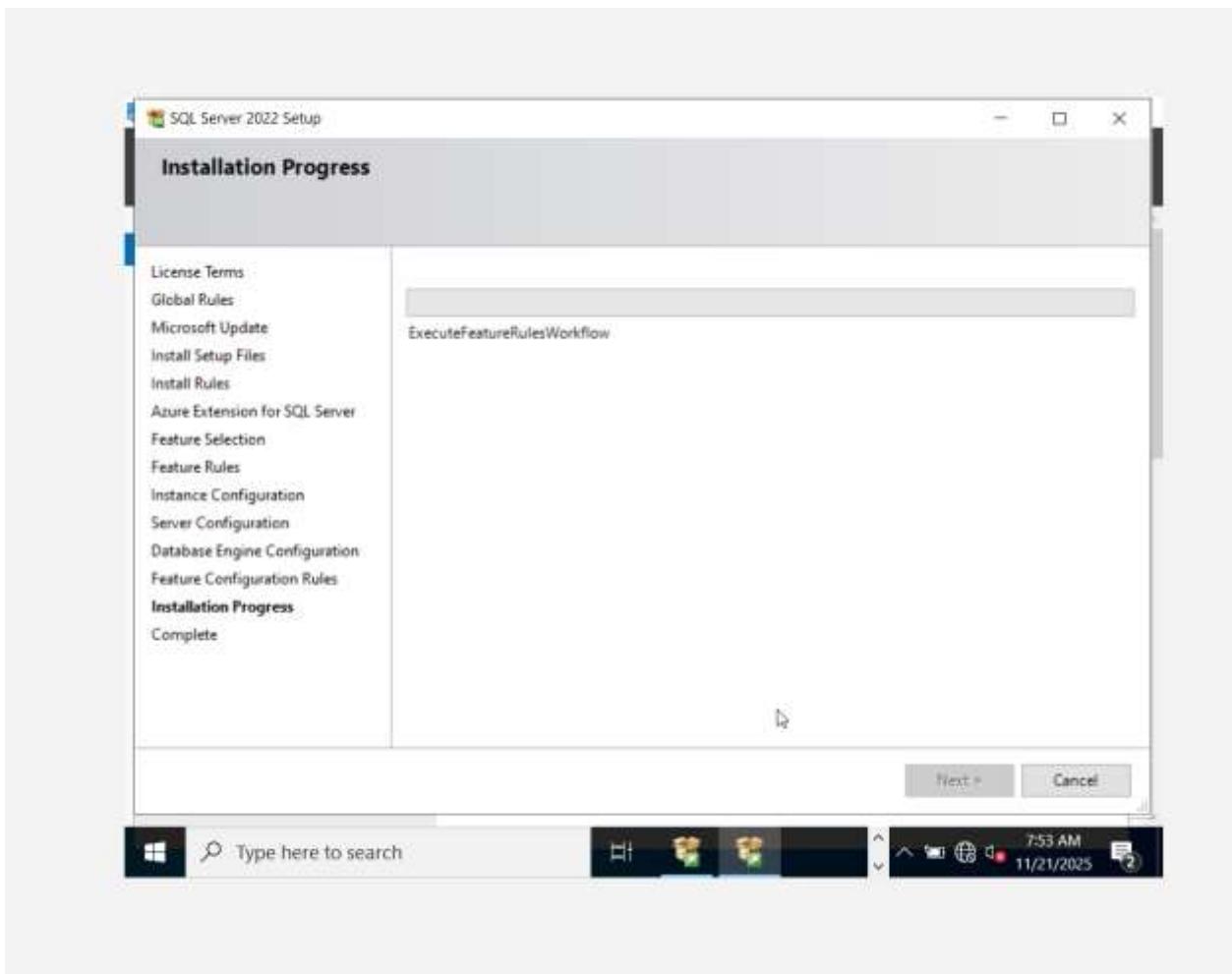


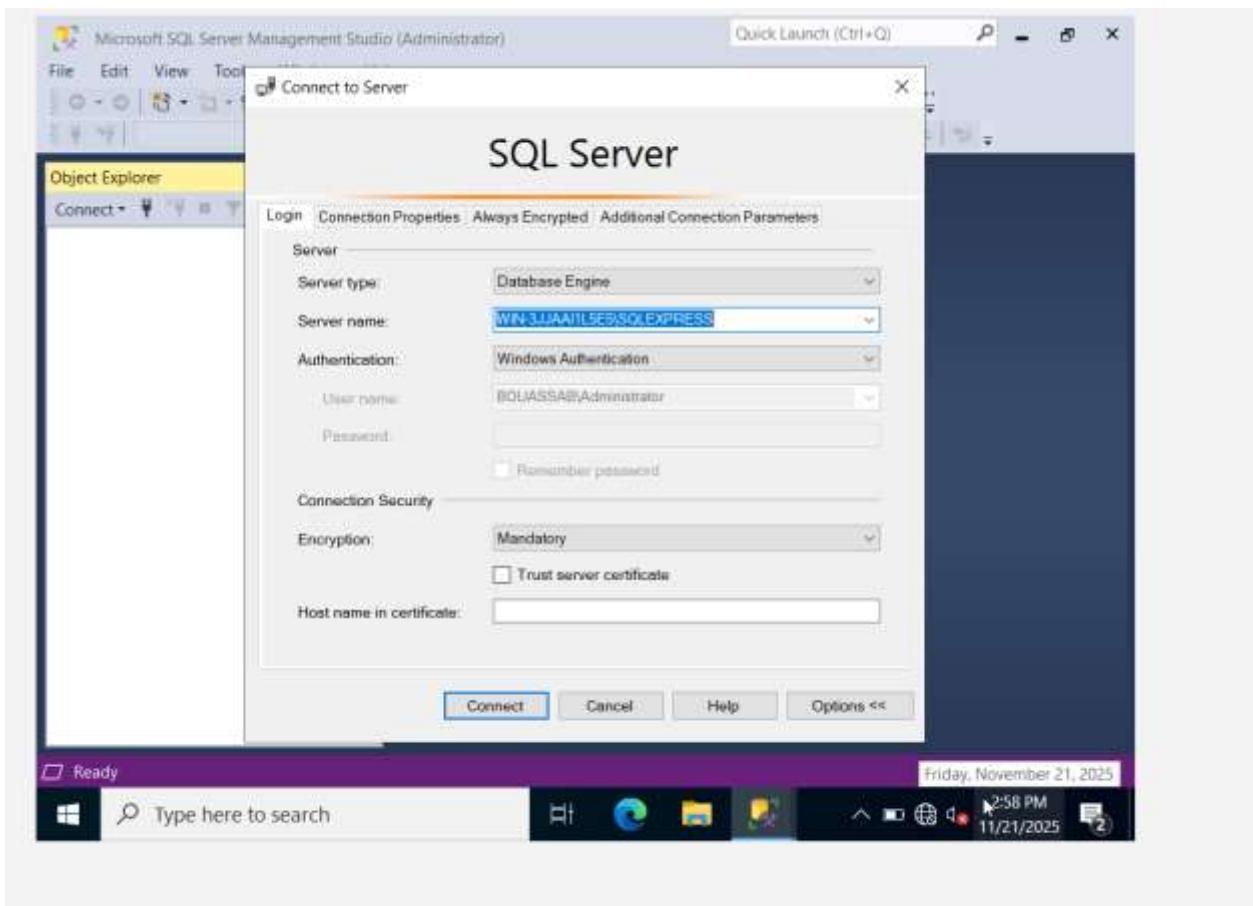


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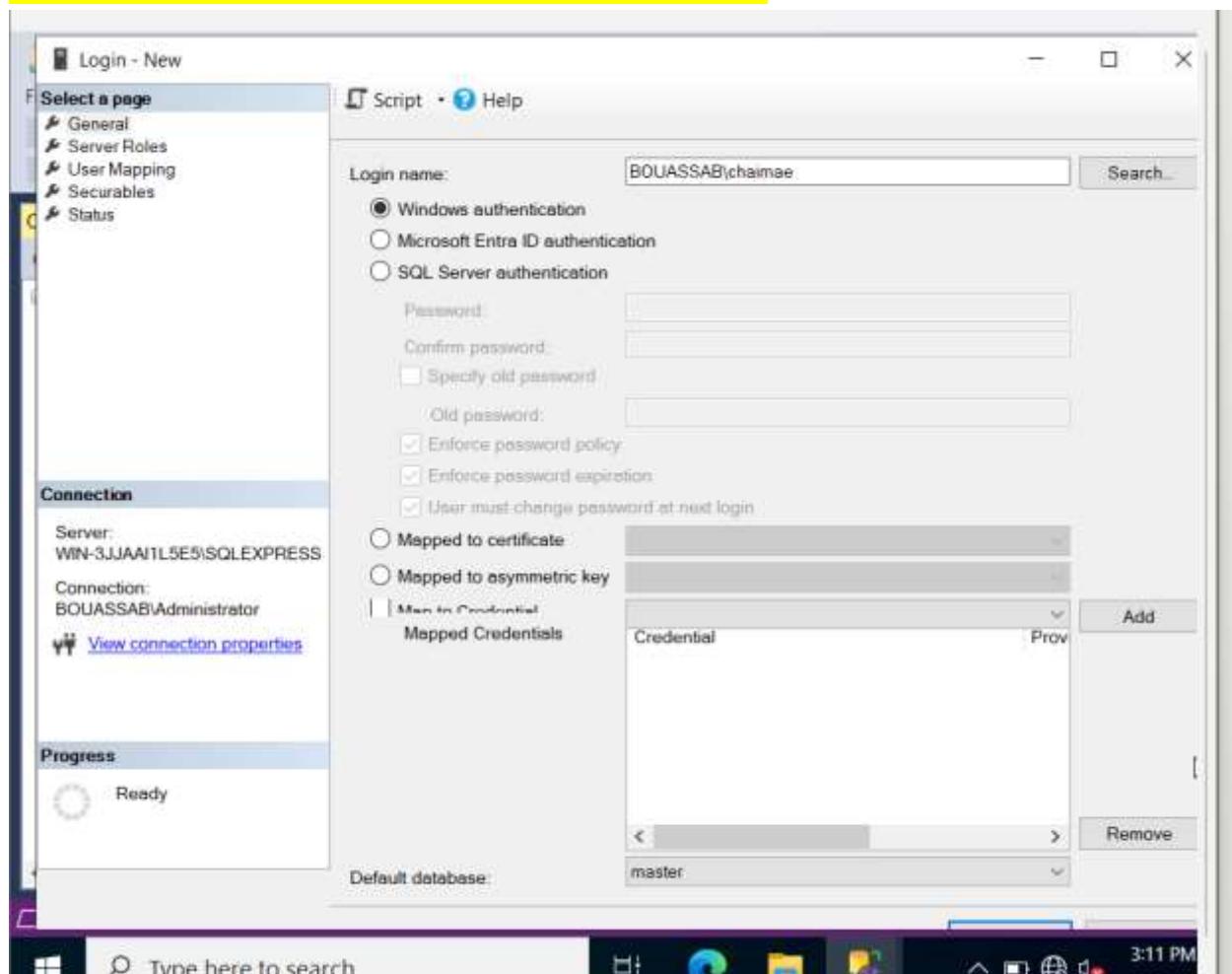
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#### . Installation de SQL Server Management Studio (SSMS).....





## Donner au nom de connexion l'accès à SQL Server



Login - New

Select a page

- General
- Server Roles
- User Mapping
- Securables
- Status

Script Help

Server role is used to grant server-wide security privileges to a user.

Server roles:

- ##MS DatabaseConnector##
- ##MS DatabaseManager##
- ##MS DefinitionReader##
- ##MS LoginManager##
- ##MS PerformanceDefinitionReader##
- ##MS SecurityDefinitionReader##
- ##MS ServerPerformanceStateReader##
- ##MS ServerSecurityStateReader##
- ##MS ServerStateManager##
- ##MS ServerStateReader##
- bulkadmin
- dbcreator
- diskadmin
- processadmin
- public
- securityadmin
- serveradmin
- setupadmin
- sysadmin

Connection

Server: WIN-3JJAAI1L5E5\SQLEXPRESS

Connection: BOUASSAB\Administrator

[View connection properties](#)

Progress

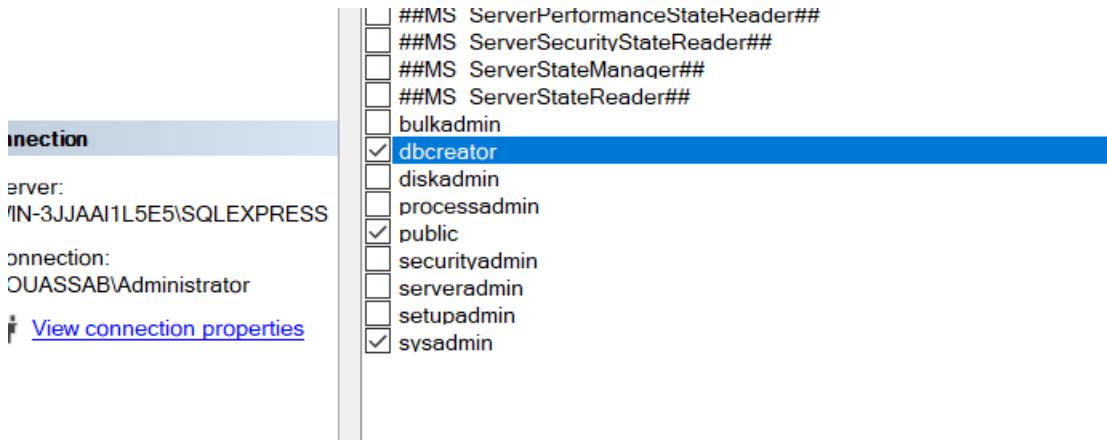
Ready

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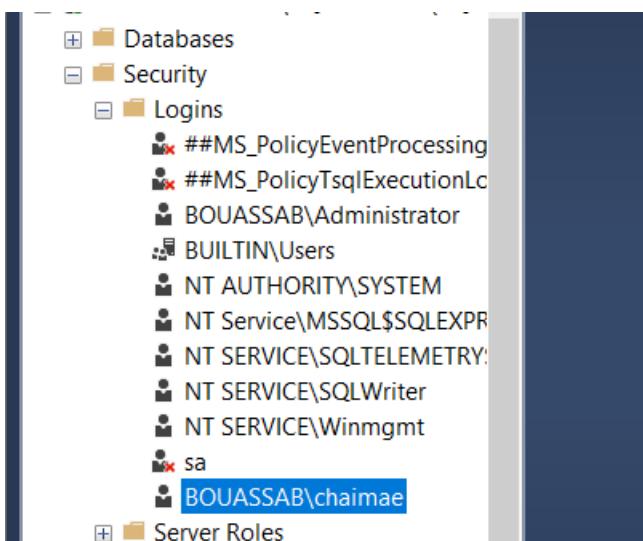
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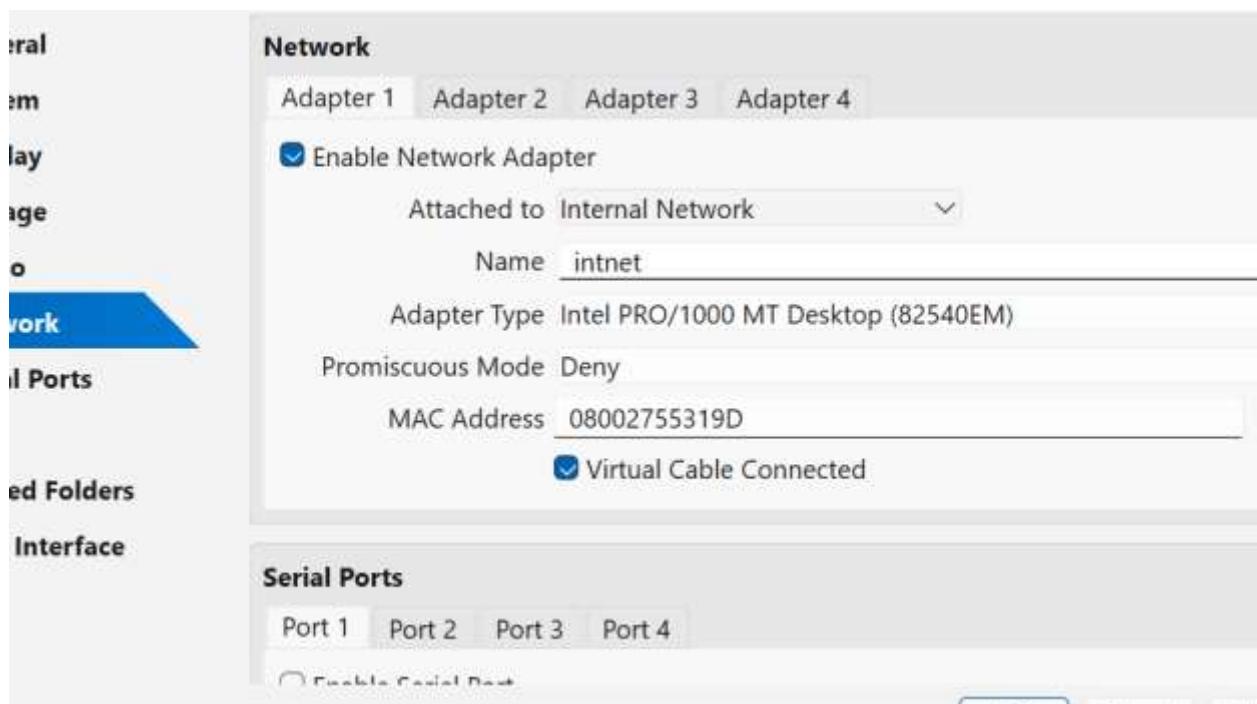
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**Ce mode permet à 2 VMs (Windows Server et Windows 10/11) de communiquer entre elles uniquement, sans accès à Internet. C'est parfait pour :**

- Créer un domaine local**
- Se connecter à SQL Server d'une VM à l'autre**



### **6.3.1. Configuration de l'adresse IP statique.....26**

### **6.3.2. Configuration du serveur DNS.....27**

### **6.3.3. Test de connectivité.....28**

## Windows IP Configuration

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix . : 
Link-local IPv6 Address . . . . . : fe80::4d6a:89ab:f144:8c06%14
Autoconfiguration IPv4 Address. . . : 169.254.140.6
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . :
```

C:\Users\Administrator>

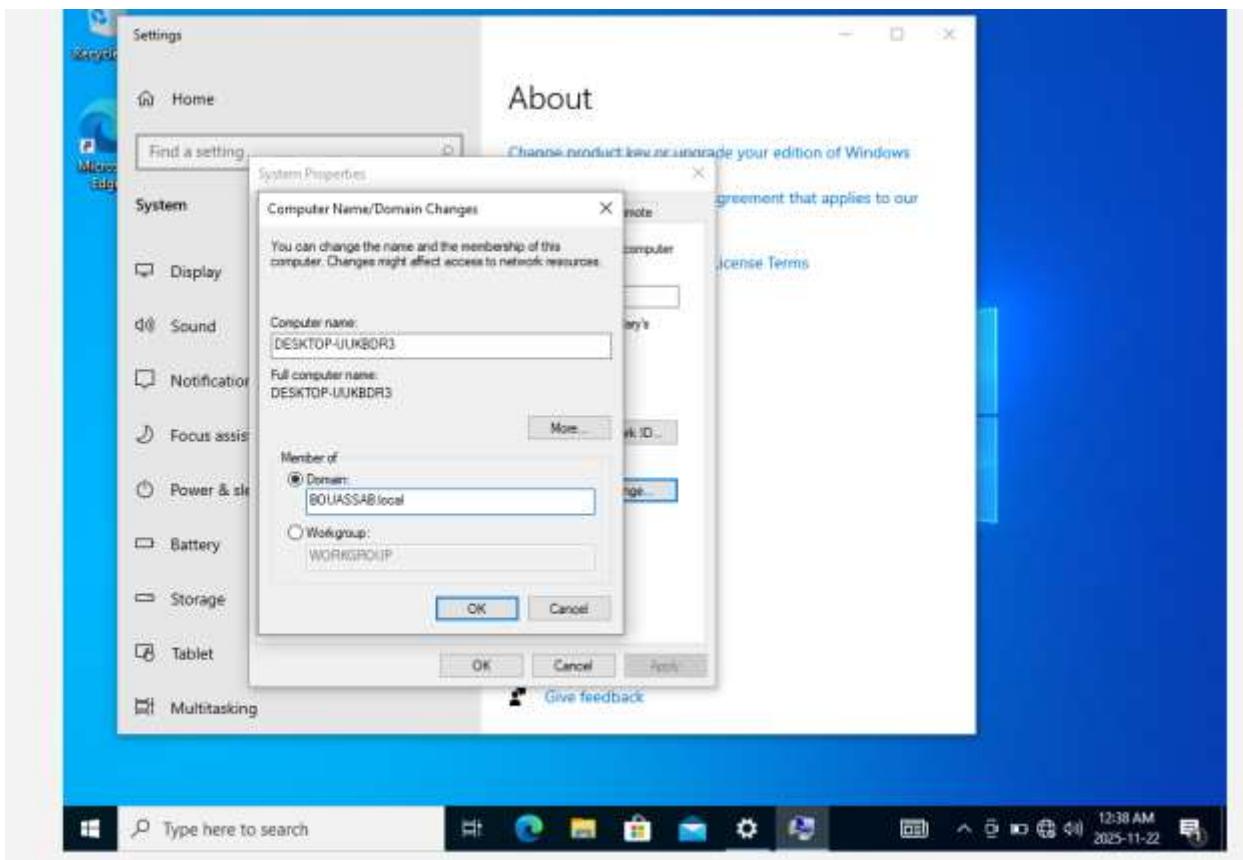
```
MICROSOFT Windows [Version 10.0.19045.3803]
(c) Microsoft Corporation. All rights reserved.
```

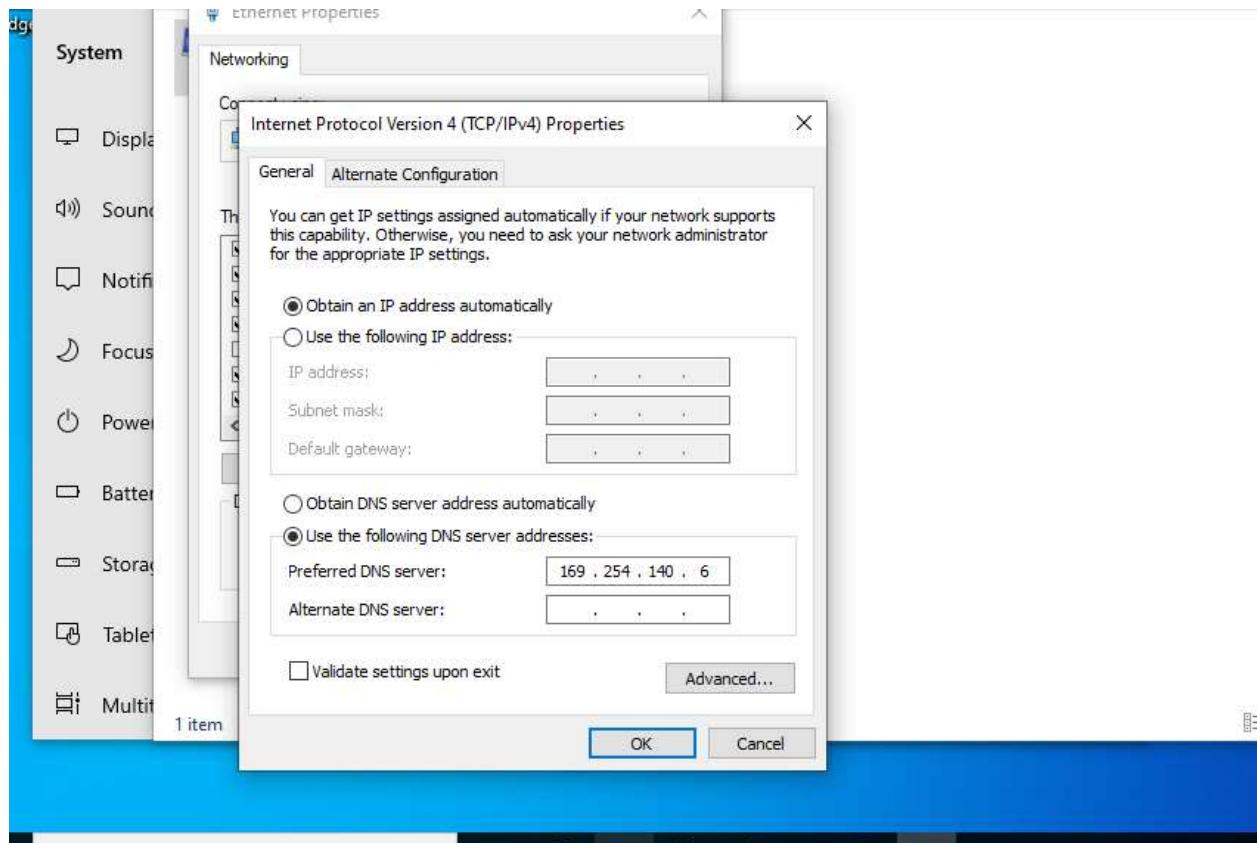
C:\Users\shaim>ping 169.254.140.6

```
Pinging 169.254.140.6 with 32 bytes of data:
Reply from 169.254.140.6: bytes=32 time=2ms TTL=128
Reply from 169.254.140.6: bytes=32 time=1ms TTL=128
Reply from 169.254.140.6: bytes=32 time=3ms TTL=128
Reply from 169.254.140.6: bytes=32 time=2ms TTL=128

Ping statistics for 169.254.140.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 2ms
```

C:\Users\shaim>



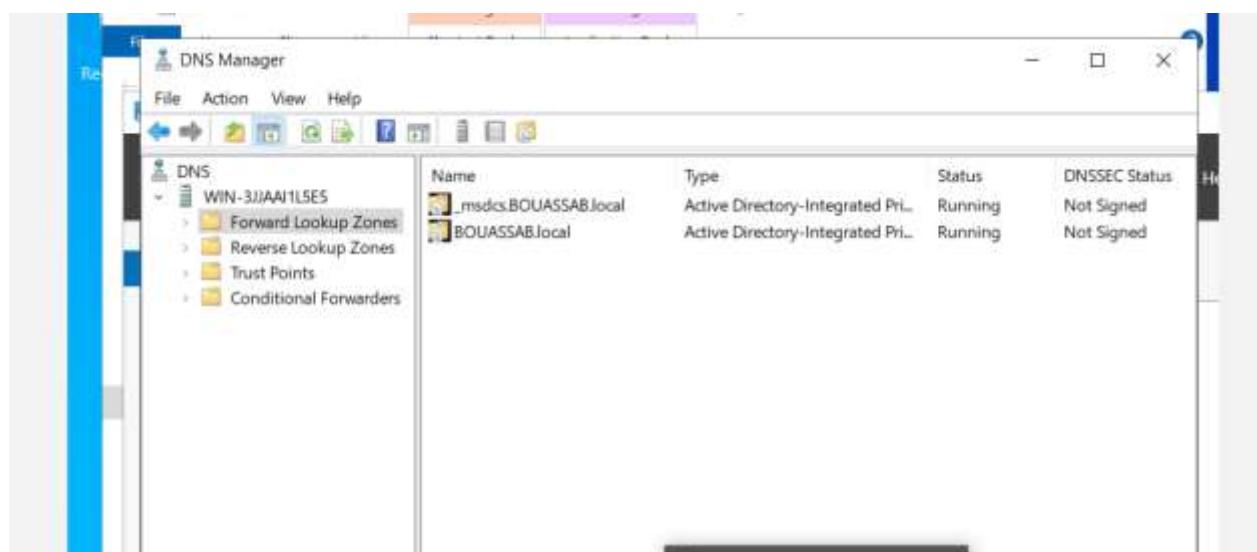
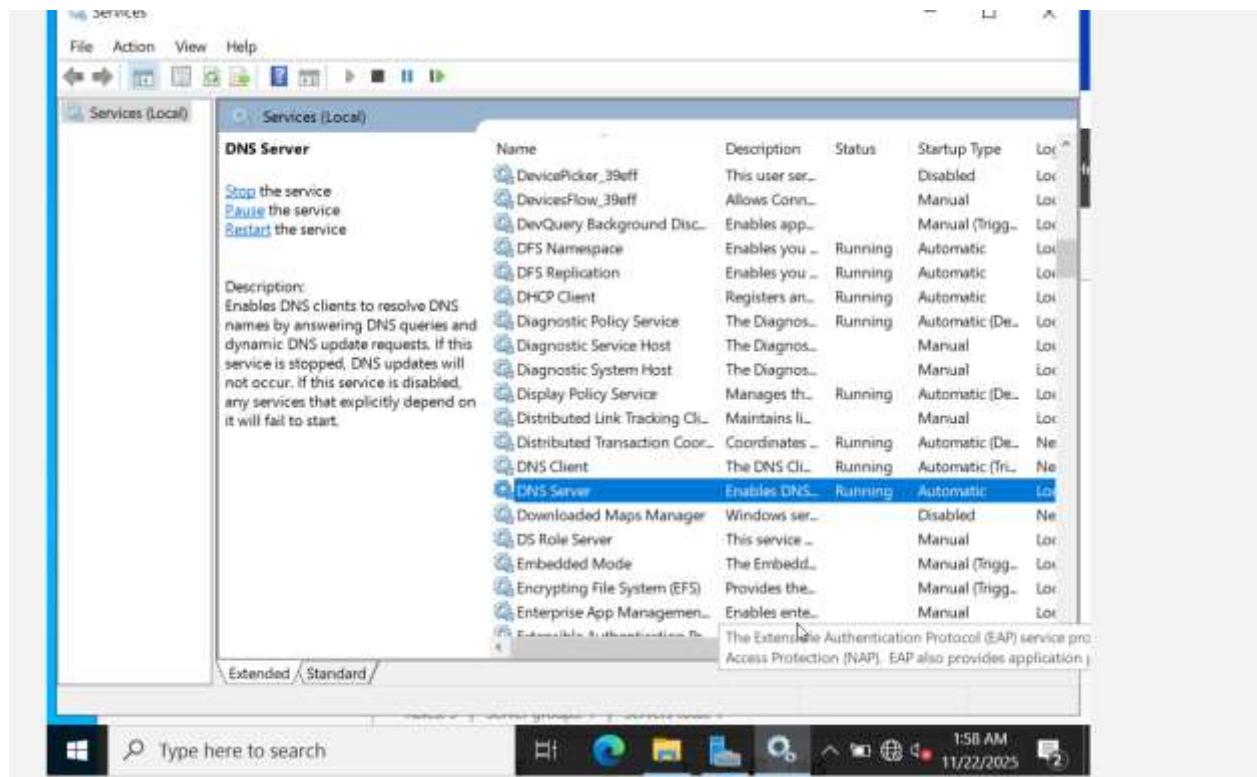


```
Microsoft Windows [Version 10.0.19041.1013]
[Administrator]
C:\> ipconfig /all
Description . . . . . : Intel(R) PRO/1000 MT Desktop Adapter
Physical Address . . . . . : 08-00-27-55-31-90
DHCP Enabled . . . . . : Yes
Autoconfiguration Enabled . . . . . : Yes
Link-Local IPv6 Address . . . . . : fe80::1142:dcce:787f:6bcex5(Preferred)
Autoconfiguration IPv4 Address . . . . . : 169.254.195.165(Preferred)
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . :
DHCPv6 IAID . . . . . : 101187623
DHCPv6 Client DUID . . . . . : 00-01-00-01-38-A5-56-98-08-00-27-55-31-00
DNS Servers . . . . . : 169.254.140.6
NetBIOS over Tcpip. . . . . : Enabled

C:\> nslookup BOUASSAB.local
DNS request timed out.
    timeout was 2 seconds.
Server: Unknown
Address: 169.254.140.6

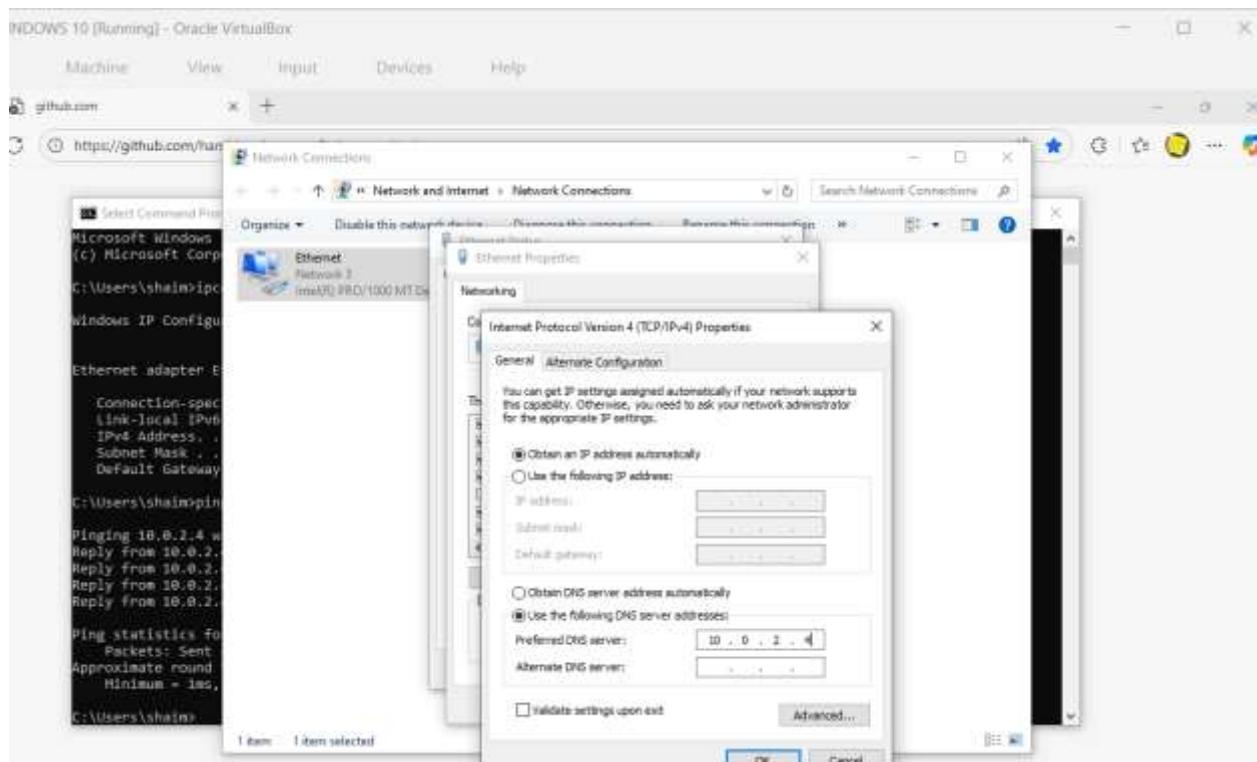
DNS request timed out.
    timeout was 2 seconds.
*** Request to Unknown timed-out

C:\>
```

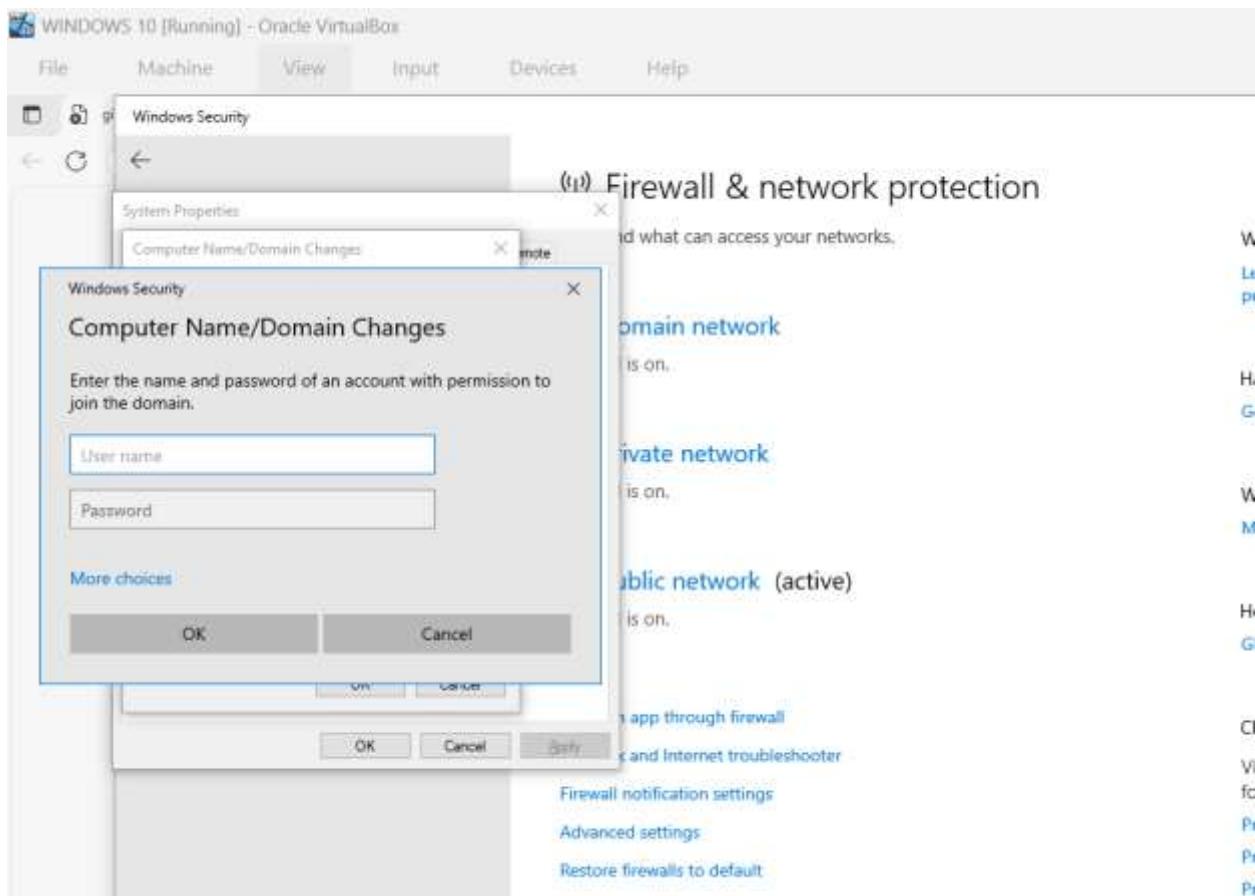


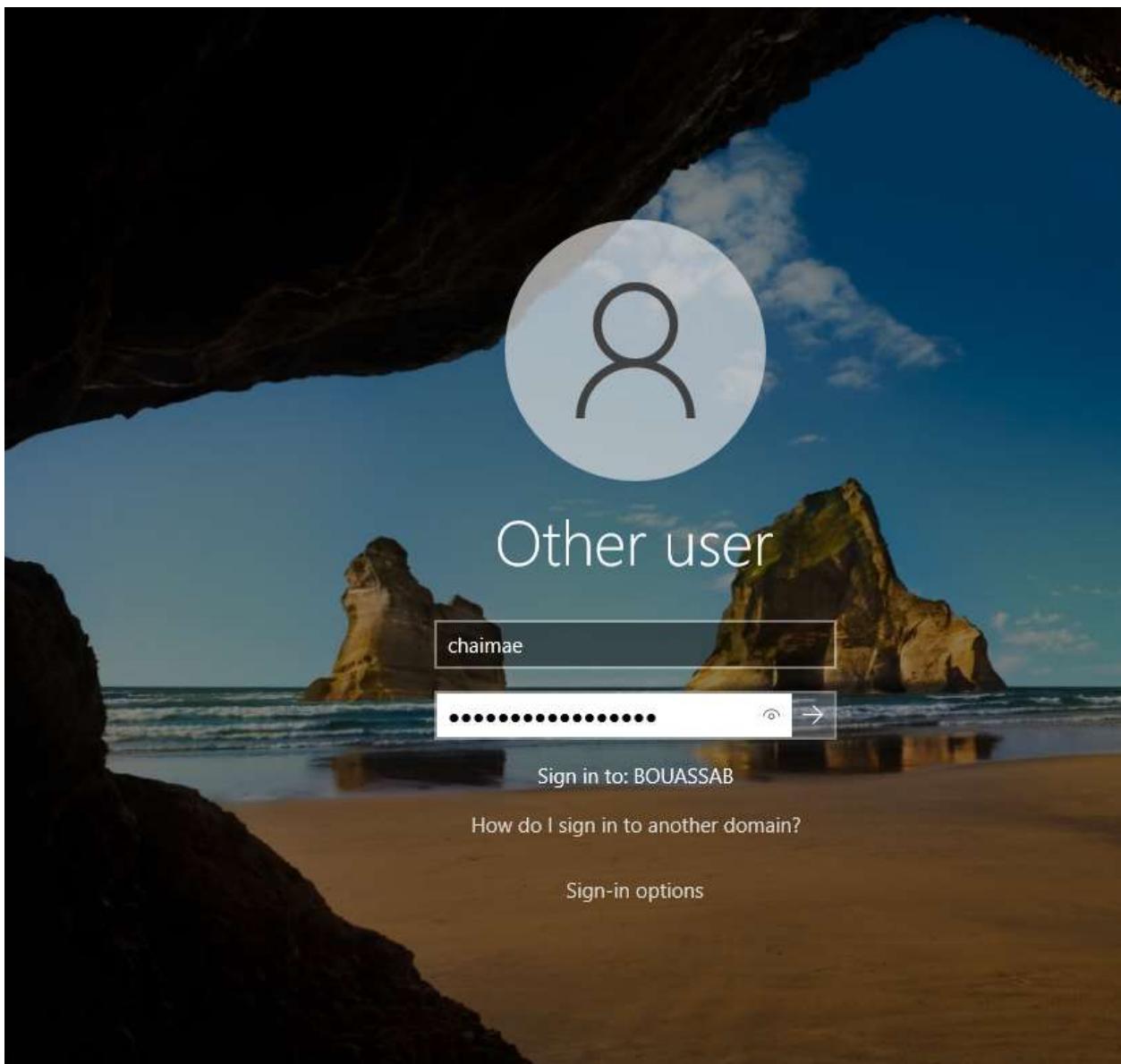
Cela signifie que Active Directory et DNS fonctionnent correctement.

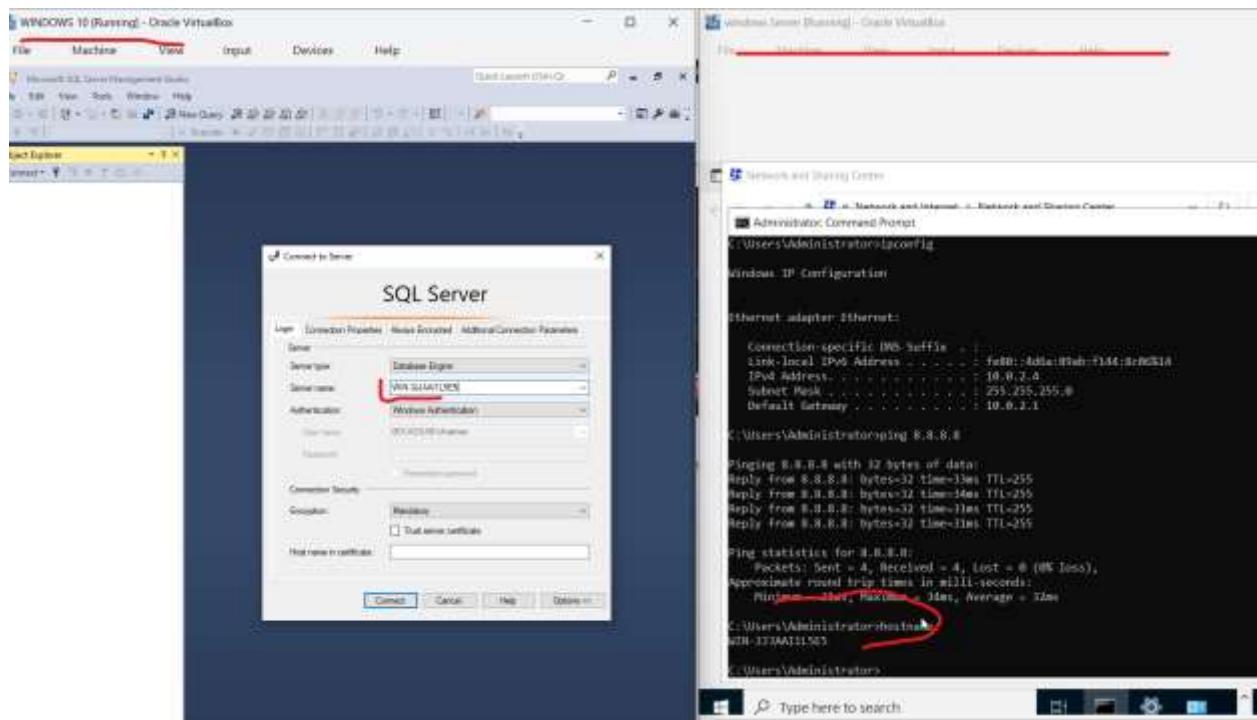
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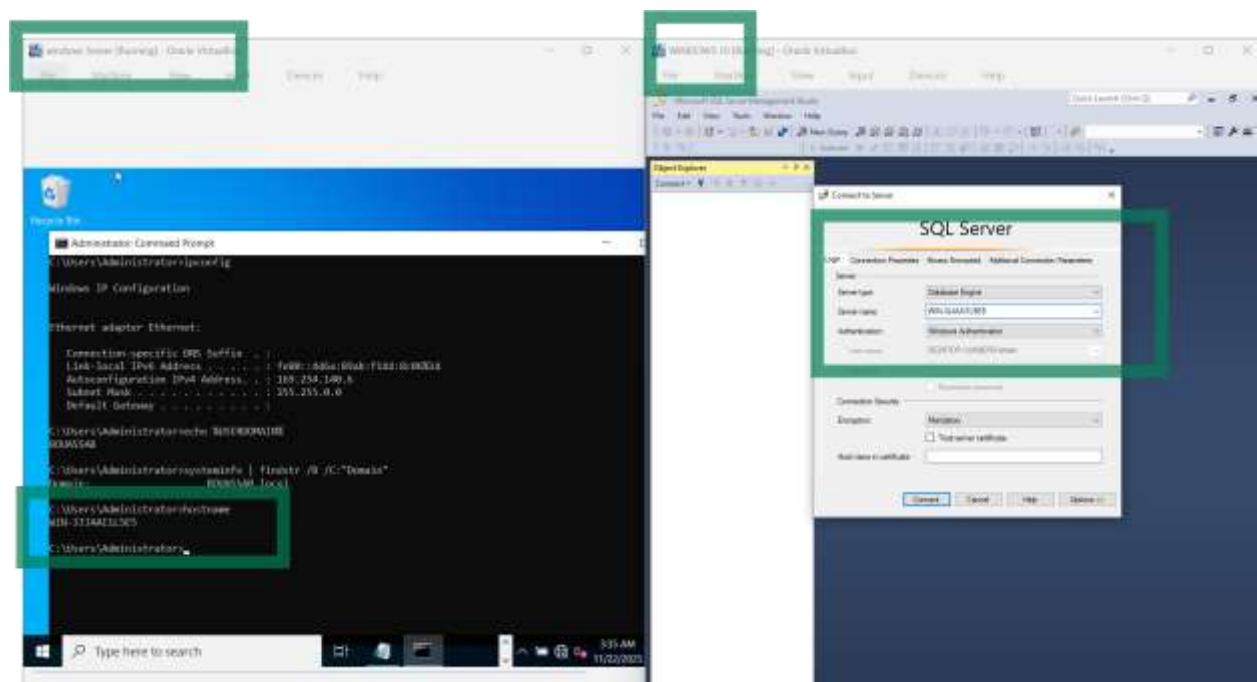




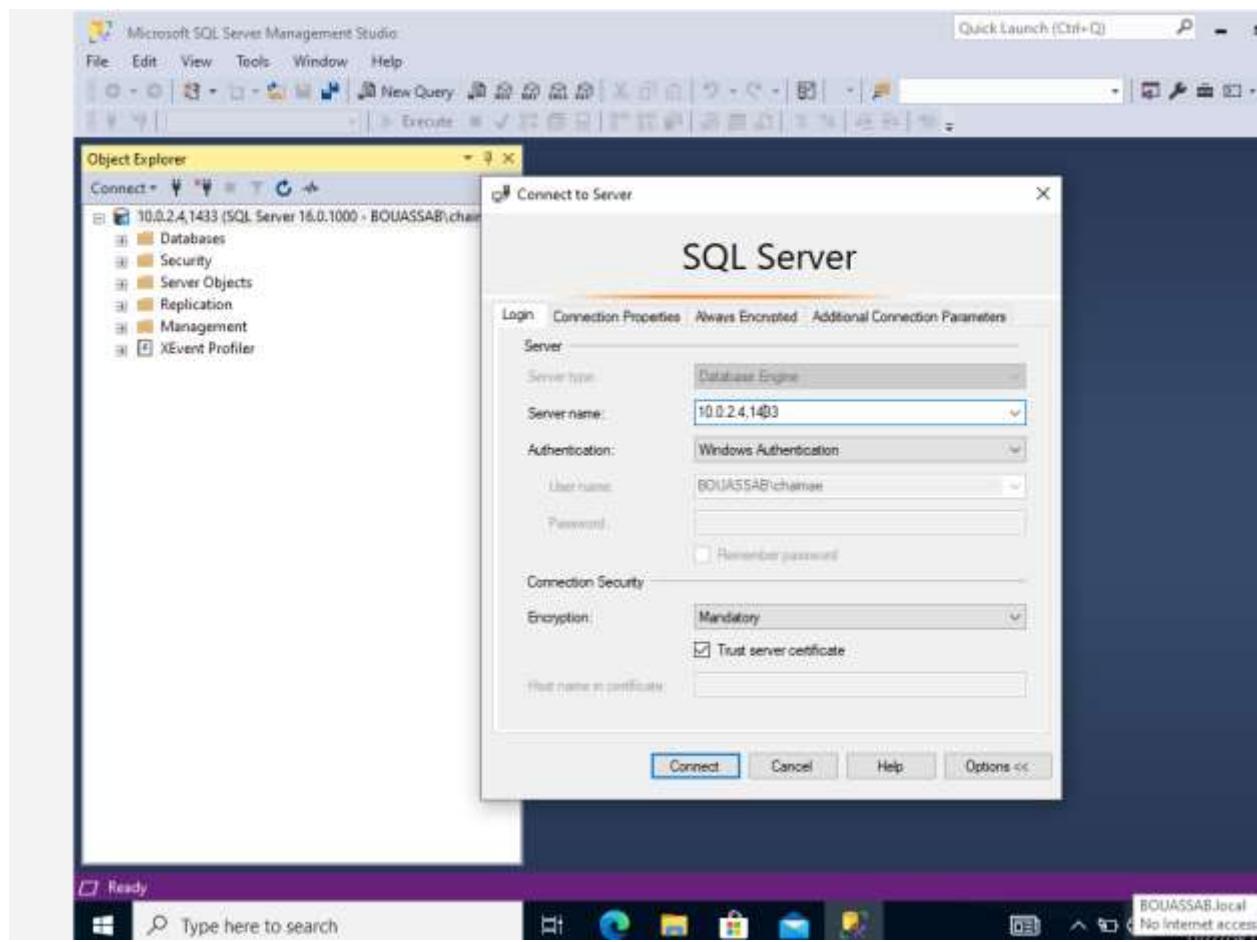


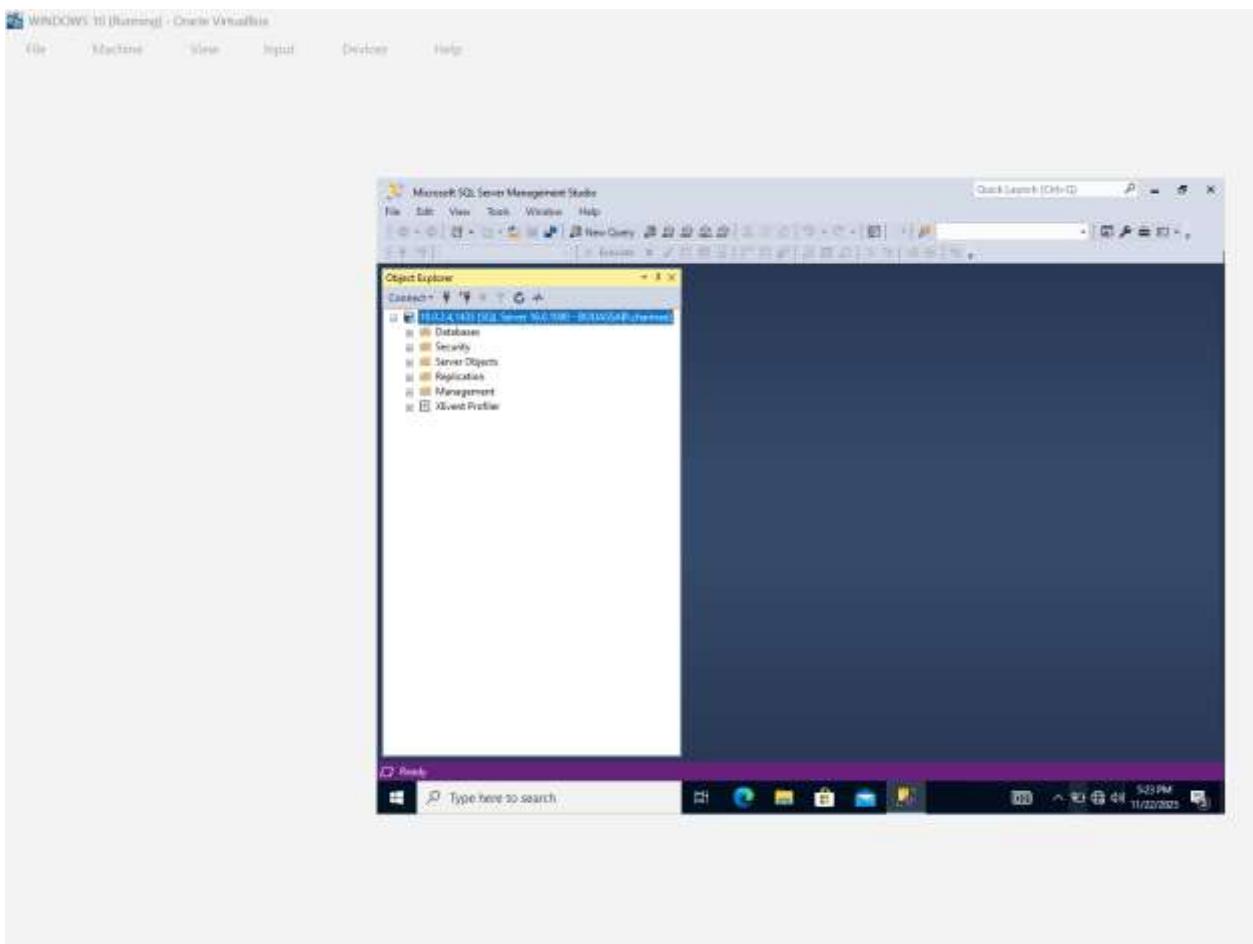
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### 7.3. Création de la base de données BD1.....32





**7.3.1. Connexion à SQL Server.....32**

**7.3.2. Crédation de la base BD1.....33**

**7.3.3. Crédation de la table Table1.....34**

The screenshot shows the Microsoft SQL Server Management Studio interface running on a Windows 10 machine within an Oracle VirtualBox. The Object Explorer on the left shows the database structure, including the BD1 database and its tables. The central pane displays a SQL query window titled 'SQLQuery1.sql' containing the following script:

```

create table Table1(
    id int primary key,
    nom varchar(20)
);
go

use BD1;
go

exec sp_help 'Table1' ;
go

insert into Table1 (id,nom) values (1,'chaimaaaaaaaaaae');
insert into Table1 (id,nom) values (2,'ayaaaaaaa');
insert into Table1 (id,nom) values (3,'safaaaaaaaaee');
insert into Table1 (id,nom) values (4,'ahmedddd');

select *from Table1 ;
go

```

The 'Results' tab at the bottom shows the output of the 'select \*from Table1' command, displaying the following data:

	id	nom
1	1	chaimaaaaaaaaaae
2	2	ayaaaaaaa
3	3	safaaaaaaaaee
4	4	ahmedddd

**7.3.4. Insertion de données dans Table1.....35**

**7.3.5. Vérification des données.....36**

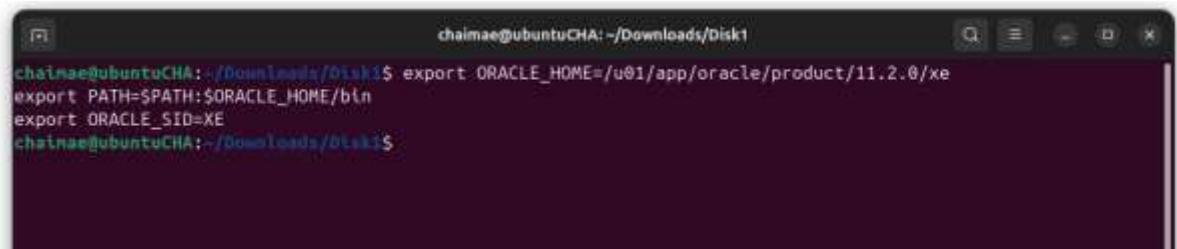
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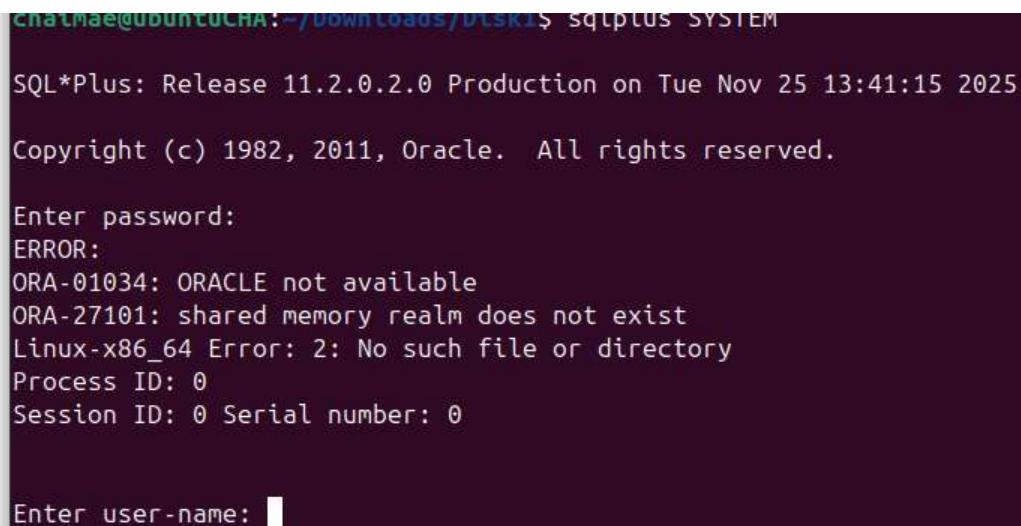
### **8.4.2. Installation d'Oracle Database XE.....42**



```
chainae@ubuntuCHA:~/Downloads/Disk1$ export ORACLE_HOME=/u01/app/oracle/product/11.2.0/xe
export PATH=$PATH:$ORACLE_HOME/bin
export ORACLE_SID=XE
chainae@ubuntuCHA:~/Downloads/Disk1$
```

**C'est toujours le même problème : le service a l'air de démarrer (ou ne dit rien), mais le moteur de la base de données (l'instance) ne monte pas en mémoire.**

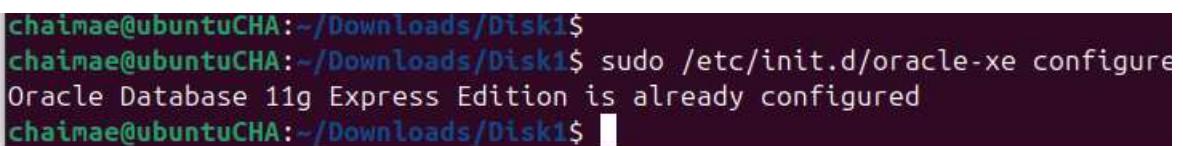
**L'erreur ORA-27101: shared memory realm does not exist est la preuve que la base n'a pas réussi à allouer sa mémoire vive (RAM) au démarrage.**



```
chainae@ubuntuCHA:~/Downloads/Disk1$ sqlplus SYSTEM
SQL*Plus: Release 11.2.0.2.0 Production on Tue Nov 25 13:41:15 2025
Copyright (c) 1982, 2011, Oracle. All rights reserved.

Enter password:
ERROR:
ORA-01034: ORACLE not available
ORA-27101: shared memory realm does not exist
Linux-x86_64 Error: 2: No such file or directory
Process ID: 0
Session ID: 0 Serial number: 0

Enter user-name: 
```



```
chainae@ubuntuCHA:~/Downloads/Disk1$ sudo /etc/init.d/oracle-xe configure
Oracle Database 11g Express Edition is already configured
chainae@ubuntuCHA:~/Downloads/Disk1$ 
```

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<b>9.2.2. Configuration de l'installation.....</b>	<b>53</b>
<b>9.2.3. Crédit de l'utilisateur db2admin.....</b>	<b>54</b>

```
PS C:\Users\YOGA> net localgroup DB2ADMNS
Alias name      DB2ADMNS
Comment        DB2 Administrators Group
```

#### Members

```
instance
The command completed successfully.
```

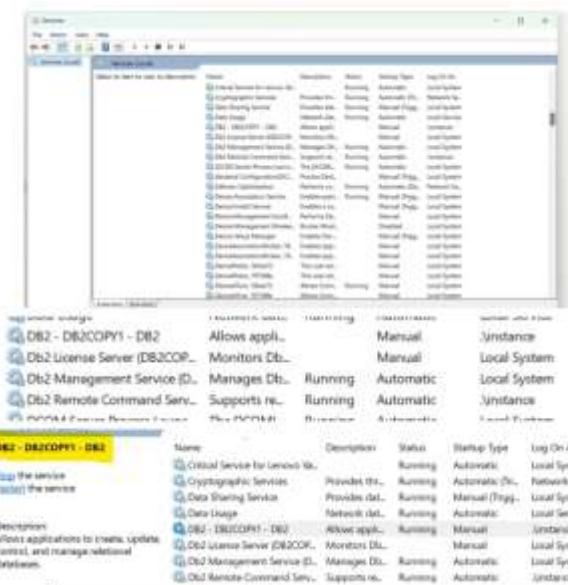
```
PS C:\Users\YOGA> net localgroup DB2USERS
Alias name      DB2USERS
Comment        DB2 Users Group
```

#### Members

```
The command completed successfully.
```

## 9.3. Création de la base de données BD2.....55

### 9.3.1. Ouverture de l'IBM Command Window.....55



```
PS C:\Windows\system32> db2icrt /u:instance,instance123 DB2
DBI1950W The instance DB2 is already in the instance
list.

Explanation:
;The instance that is being created or upgraded is already in the
instance list.

User response:
or
Verify that the list of instances as reported by the db2ilist command is
correct.
```

```
PS C:\Windows\system32> db2level
DB21085I This instance or install (instance name, where applicable: "DB2")
uses "64" bits and DB2 code release "SQL12013" with level identifier
"02040110".
Informational tokens are "DB2 v12.1.3000.329", "s2510091412",
"DYN2510091412WIN64", and Fix Pack "0".
Product is installed at "C:\PROGRA~1\IBM\SQLLIB" with DB2 Copy Name "DB2COPY1".
```

```
PS C:\> Set-Location "C:\Program Files\IBM\SQLLIB\BIN"
>>
PS C:\Program Files\IBM\SQLLIB\BIN> db2cmd
>>
PS C:\Program Files\IBM\SQLLIB\BIN>
```

```
Administrator: DB2 CLP - DB2COPY1
C:\Program Files\IBM\SQLLIB\BIN>
```

### 9.3.2. Création de BD2.....56

```
C:\Program Files\IBM\SQLLIB\BIN>db2 CREATE DATABASE BD2
DB20000I The CREATE DATABASE command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>
```

```
C:\Program Files\IBM\SQLLIB\BIN>db2 LIST DATABASE DIRECTORY
```

System Database Directory

Number of entries in the directory = 2

Database 1 entry:

Database alias	= BD2
Database name	= BD2
Local database directory	= C:
Database release level	= 16.00
Comment	=
Directory entry type	= Indirect
Catalog database partition number	= 0
Alternate server hostname	=
Alternate server port number	=

### 9.3.3. Connexion à BD2.....57

```
C:\Program Files\IBM\SQLLIB\BIN>db2 CONNECT TO BD2
```

Database Connection Information

Database server	= DB2/NT64 12.1.3.0
SQL authorization ID	= YOGA
Local database alias	= BD2

```
C:\Program Files\IBM\SQLLIB\BIN>db2 GET CONNECTION STATE
```

Database Connection State

Connection state	= Connectable and Connected
Connection mode	= SHARE
Local database alias	= BD2
Database name	= BD2
Hostname	=
Service name	=

## 9.4. Création de la table Table3.....58

```
C:\Program Files\IBM\SQLLIB\BIN>db2 "CREATE TABLE Table3 (num INT NOT NULL PRIMARY KEY, lib VARCHAR(50))"  
DB20000I The SQL command completed successfully.
```

### 9.4.1. Définition de la structure.....58

### **# Description de la structure de la table**

```
C:\Program Files\IBM\SQLLIB\BIN>db2 "DESCRIBE TABLE Table3"

          Data type           Column
Column name    schema   Data type name   Length   Scale Nulls
-----+-----+-----+-----+-----+-----+-----+
NUM          SYSIBM  INTEGER            4        0 No
LIB          SYSIBM  VARCHAR           50        0 Yes

2 record(s) selected.
```

#### **9.4.2. Insertion de données.....59**

```
C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (201, 'Produit Alpha')"
DB20000I  The SQL command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (202, 'Produit Beta')"
DB20000I  The SQL command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (203, 'Produit Gamma')"
DB20000I  The SQL command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (204, 'Produit Delta')"
DB20000I  The SQL command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (205, 'Produit Epsilon')"
DB20000I  The SQL command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (206, 'Produit Zeta')"
DB20000I  The SQL command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (207, 'Produit Eta')"
DB20000I  The SQL command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (208, 'Produit Theta')"
DB20000I  The SQL command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (209, 'Produit Iota')"
DB20000I  The SQL command completed successfully.

C:\Program Files\IBM\SQLLIB\BIN>db2 "INSERT INTO Table3 (num, lib) VALUES (210, 'Produit Kappa')"
DB20000I  The SQL command completed successfully.
```

#### **9.4.3. Vérification des données.....60**

```
C:\Program Files\IBM\SQLLIB\BIN>db2 "SELECT * FROM Table3"

NUM      LIB
-----
 201  Produit Alpha
 202  Produit Beta
 203  Produit Gamma
 204  Produit Delta
 205  Produit Epsilon
 206  Produit Zeta
 207  Produit Eta
 208  Produit Theta
 209  Produit Iota
 210  Produit Kappa

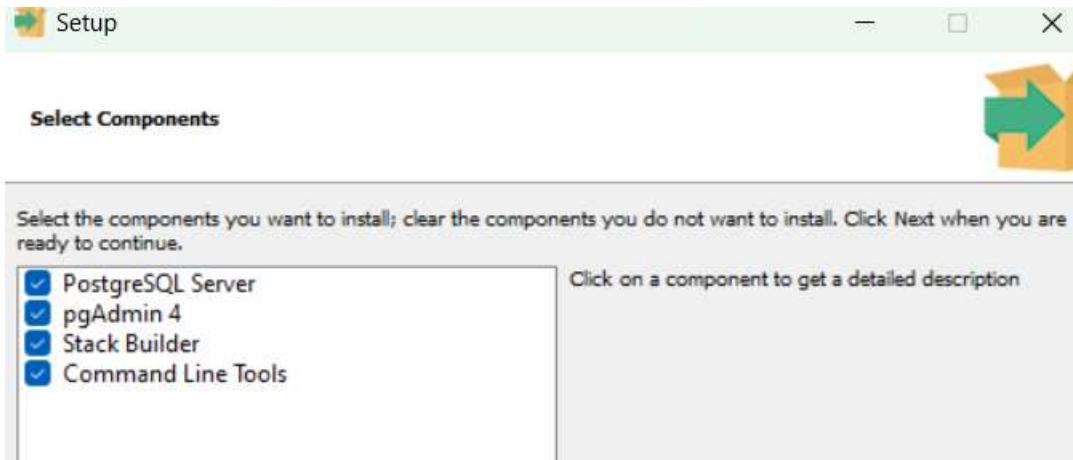
10 record(s) selected.
```

**>User ID : instance**

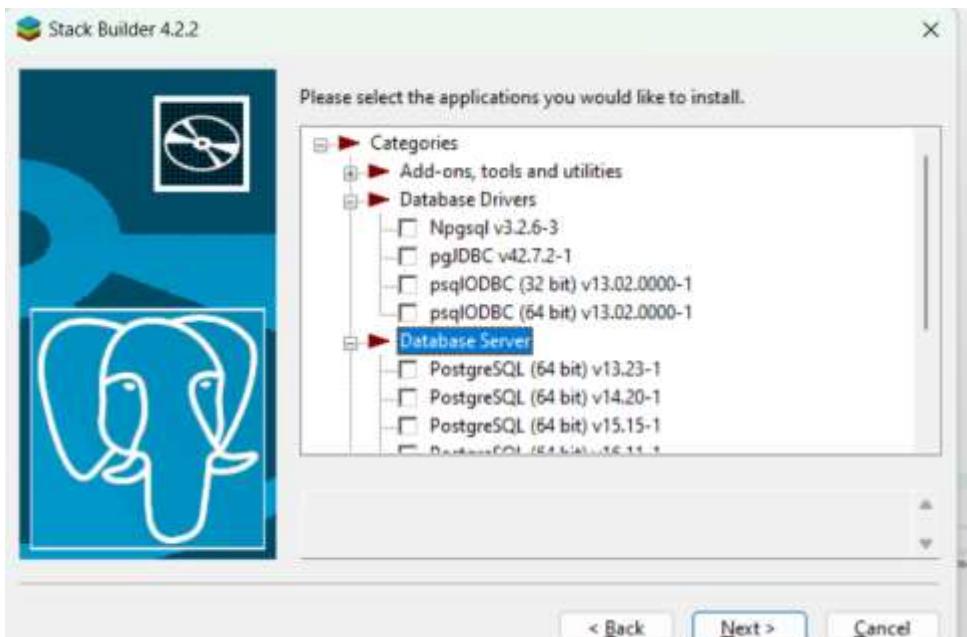
**Password : instance123**

## PARTIE VII : MACHINE PHYSIQUE - POSTGRESQL ET SQL SERVER.....61

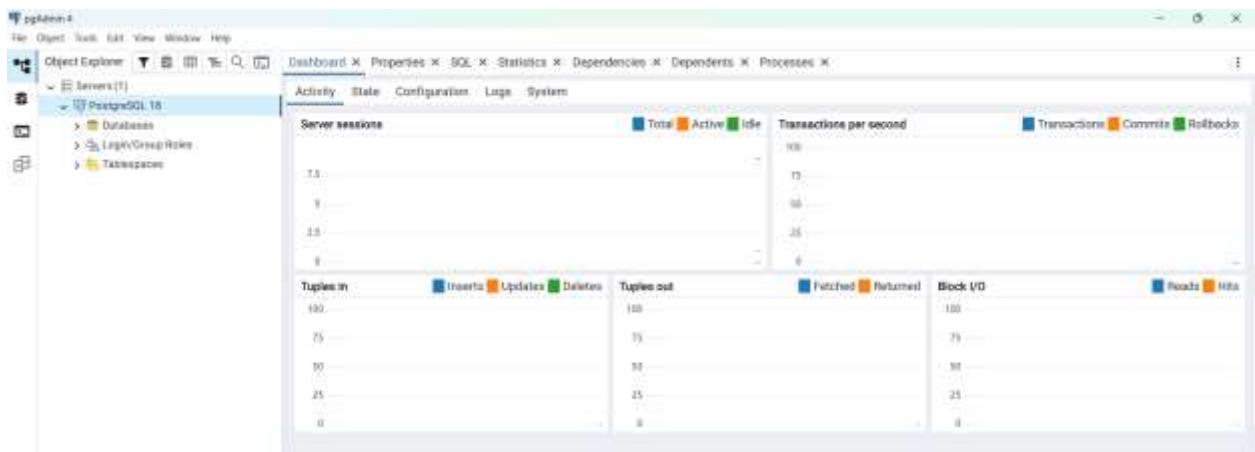
### 7.1. Installation de PostgreSQL.....61



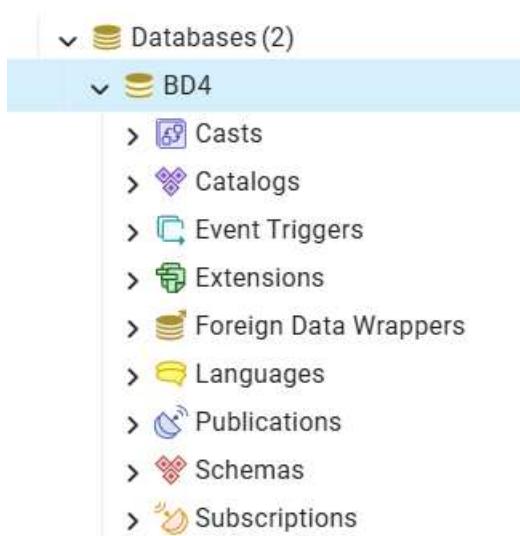
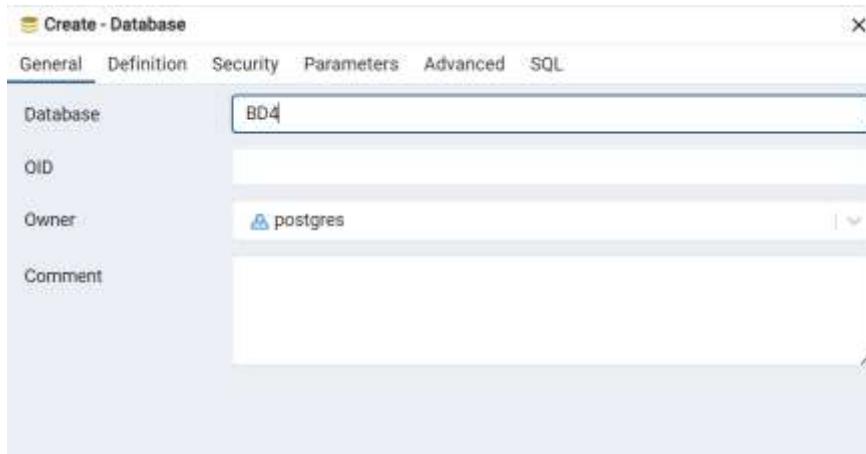
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#### 7.1.2. Installation de pgAdmin 4.....62



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### 7.1.4. Création des tables de destination.....64

**-CRÉATION DES TABLES DE DESTINATION DANS BD4 -**

**- Ces tables recevront les données de SSIS**

**7.2. Installation de SQL Server sur machine physique.....65**

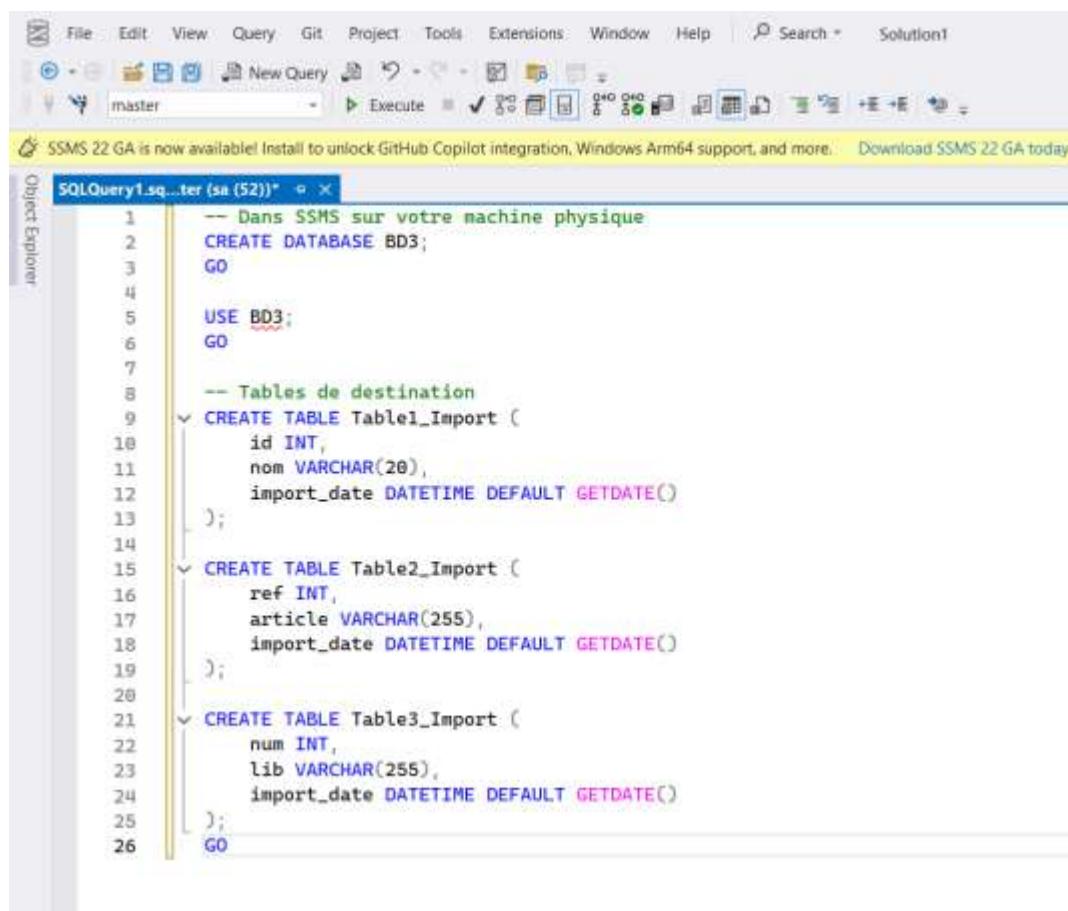
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**7.3. Crédation de la base de données BD3.....69**



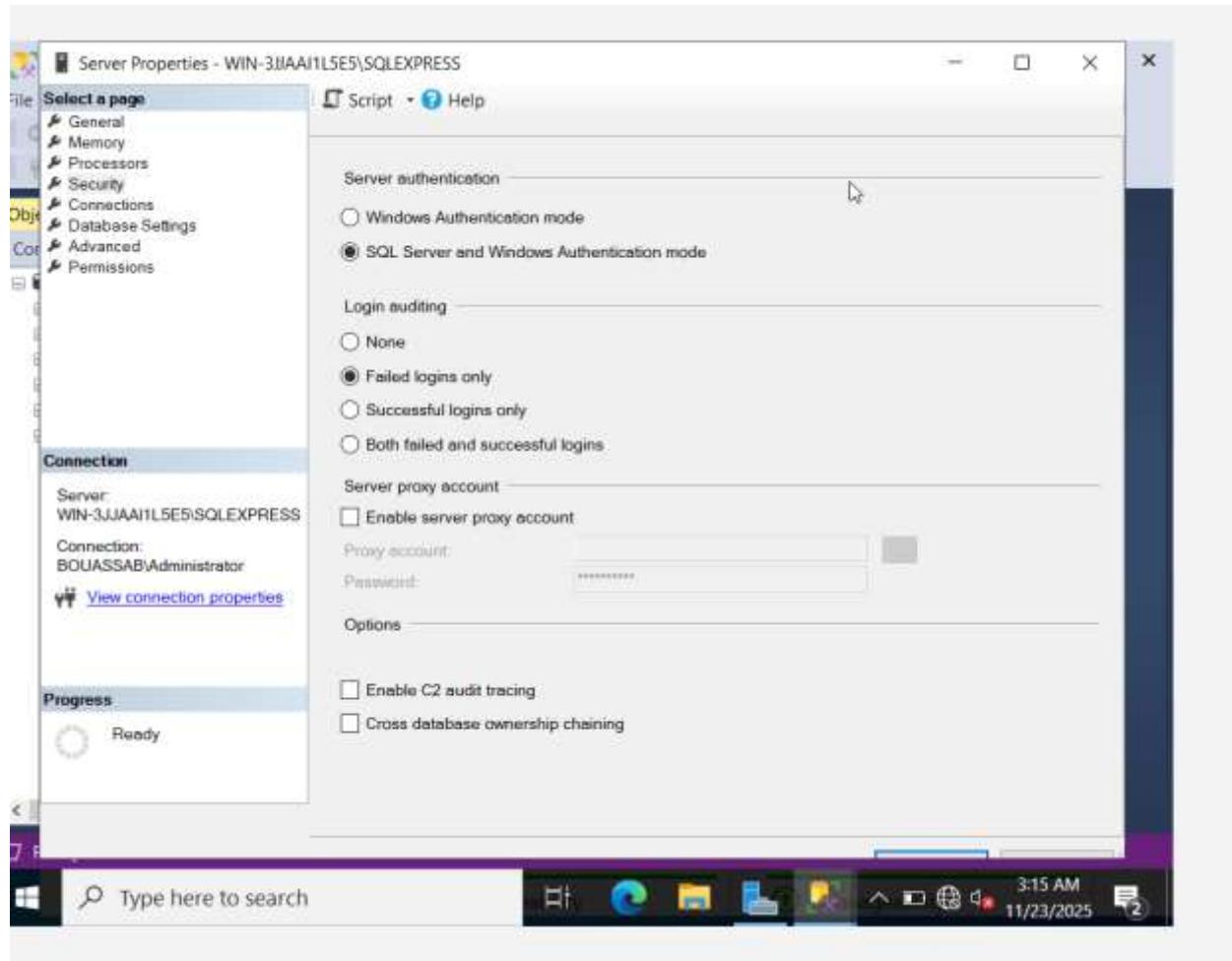
The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "File Edit View Query Git Project Tools Extensions Window Help". The toolbar includes icons for New Query, Execute, Save, and others. The status bar at the bottom says "SSMS 22 GA is now available! Install to unlock GitHub Copilot integration, Windows Arm64 support, and more. Download SSMS 22 GA today". The main area is a query editor window titled "SQLQuery1.sql...ter (sa (52))". The code in the editor is:

```
1 -- Dans SSMS sur votre machine physique
2 CREATE DATABASE BD3;
3 GO
4
5 USE BD3;
6 GO
7
8 -- Tables de destination
9 CREATE TABLE Table1_Import (
10     id INT,
11     nom VARCHAR(20),
12     import_date DATETIME DEFAULT GETDATE()
13 );
14
15 CREATE TABLE Table2_Import (
16     ref INT,
17     article VARCHAR(255),
18     import_date DATETIME DEFAULT GETDATE()
19 );
20
21 CREATE TABLE Table3_Import (
22     num INT,
23     lib VARCHAR(255),
24     import_date DATETIME DEFAULT GETDATE()
25 );
26 GO
```

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#### **Activation de mode mixte pour accepter les comptes windows**



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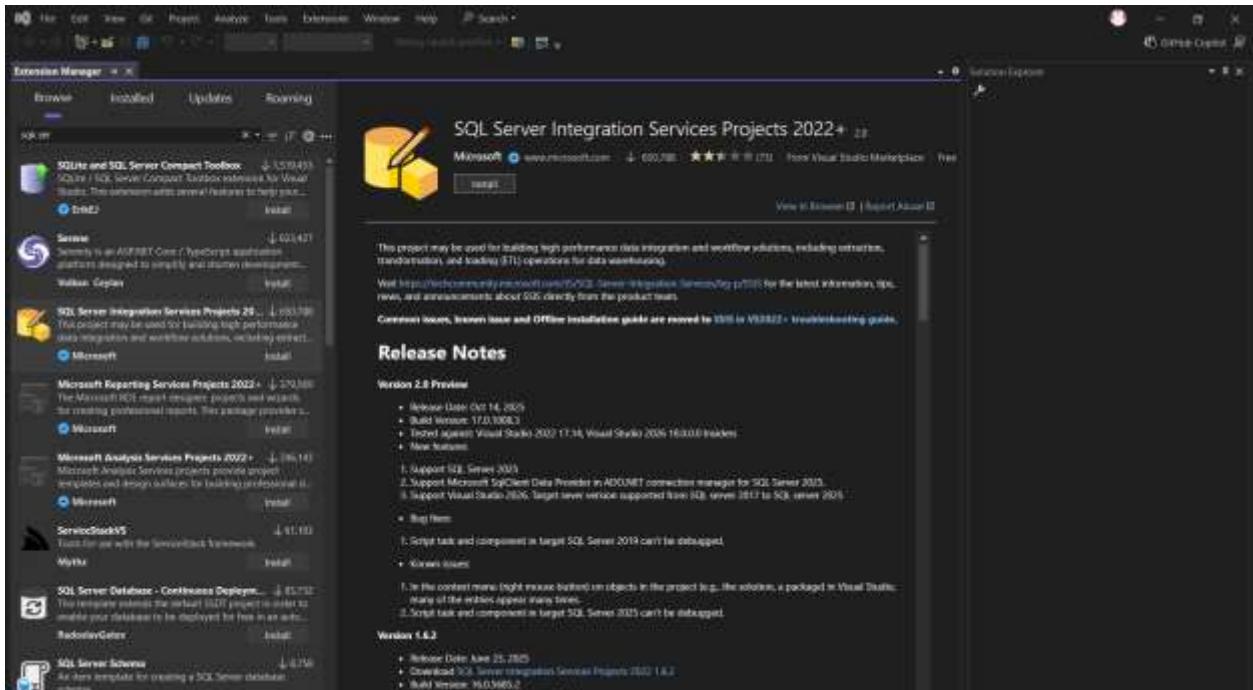
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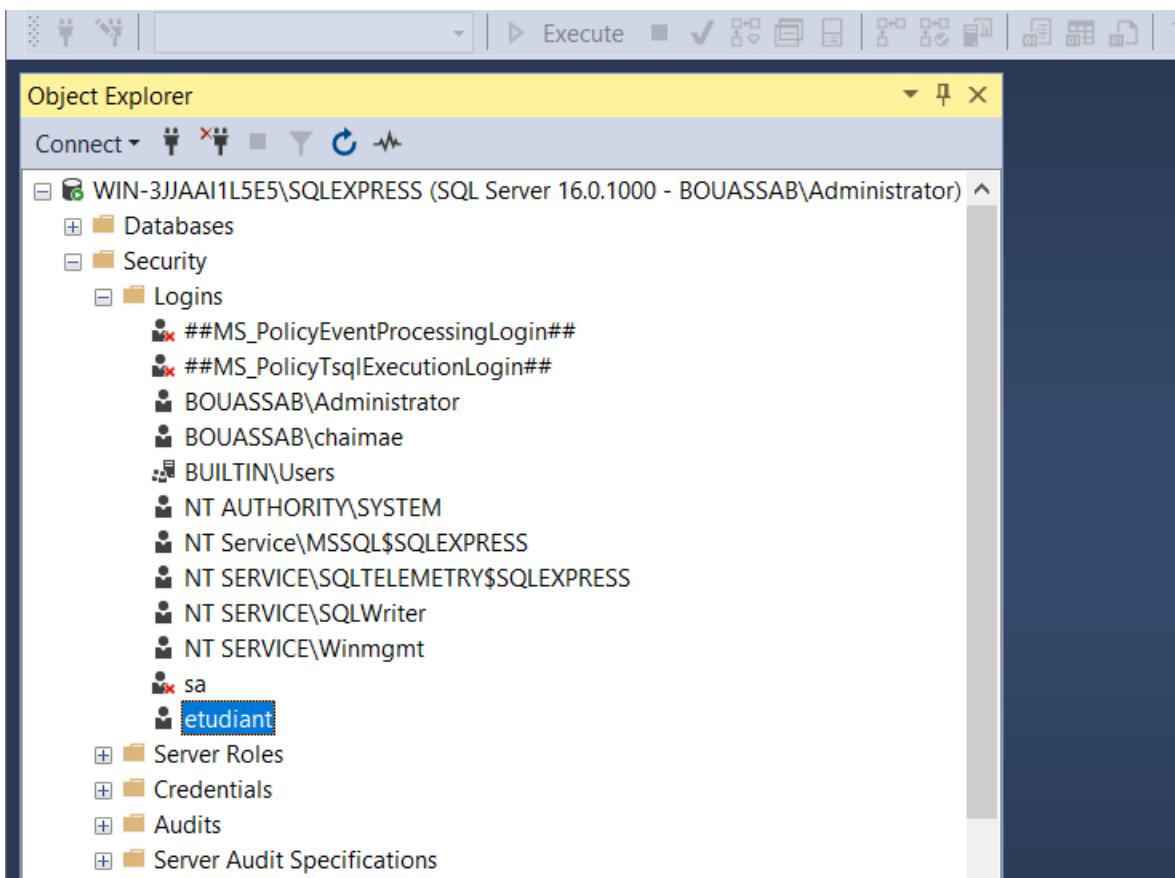
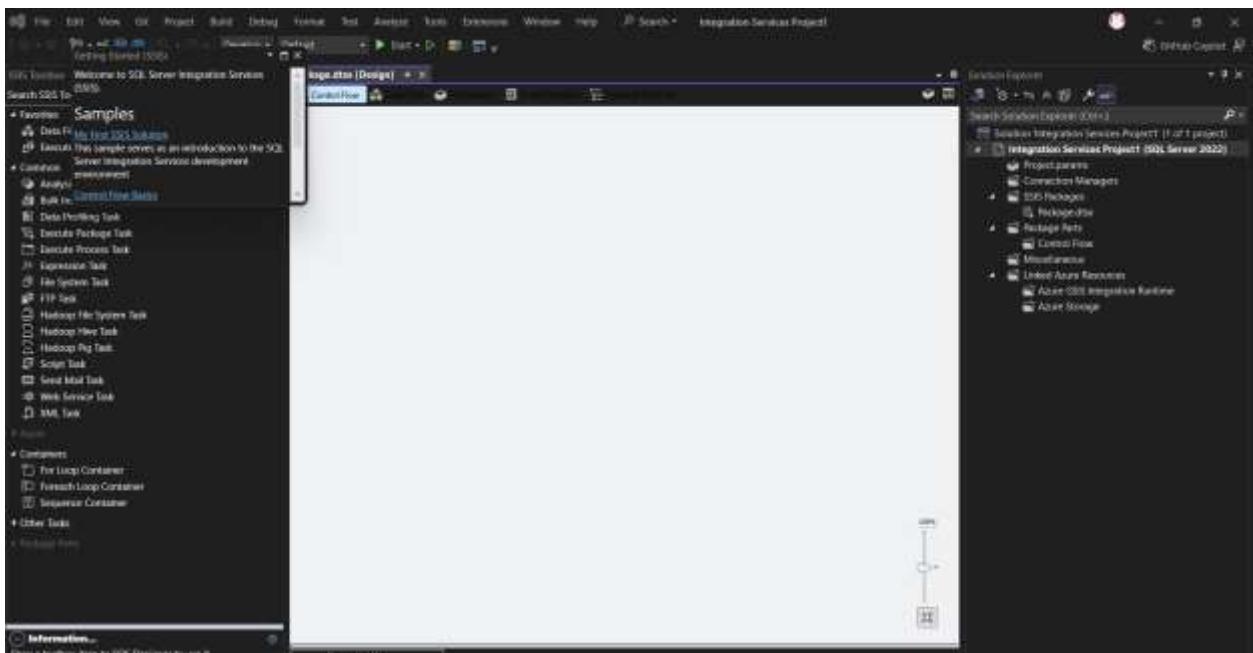
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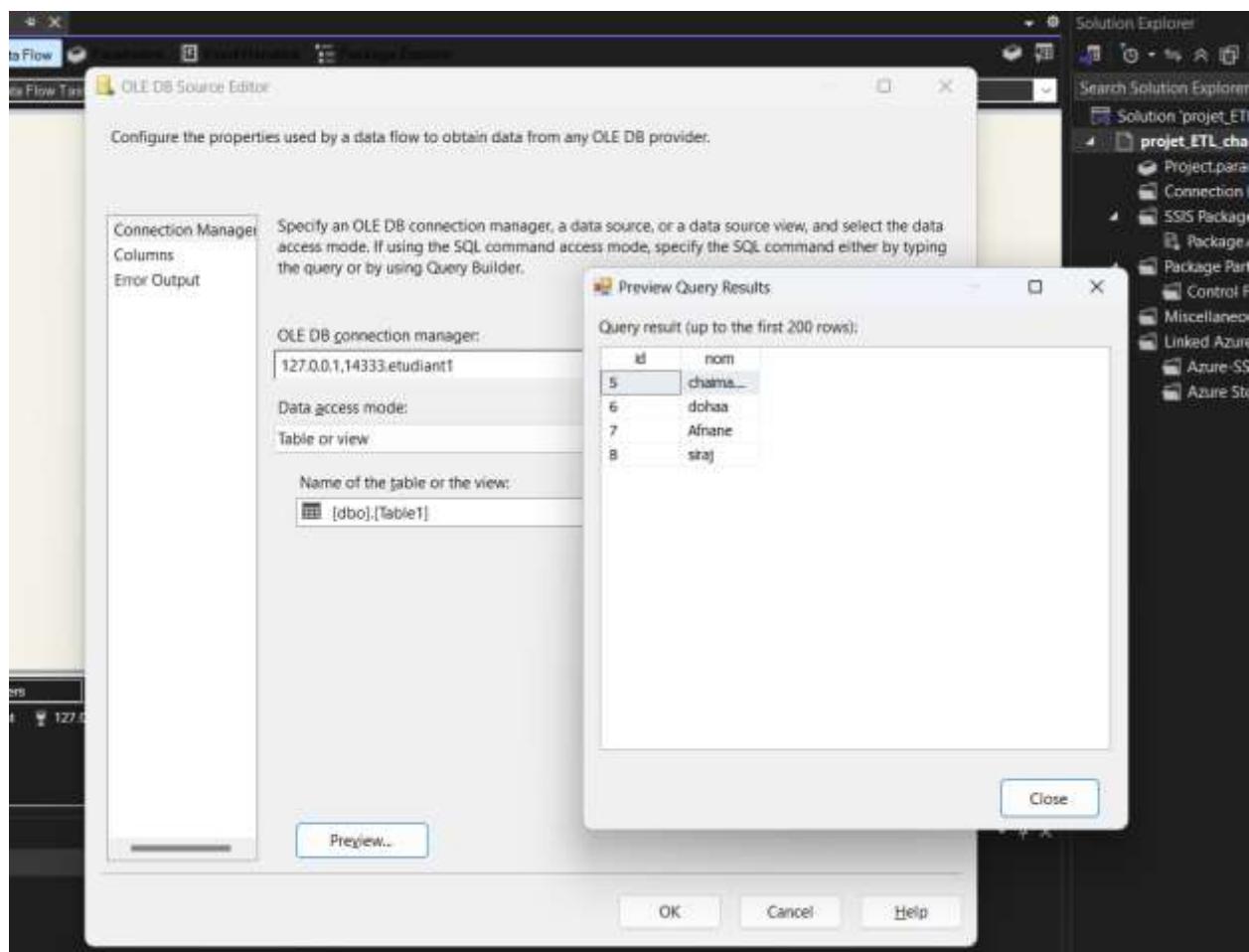
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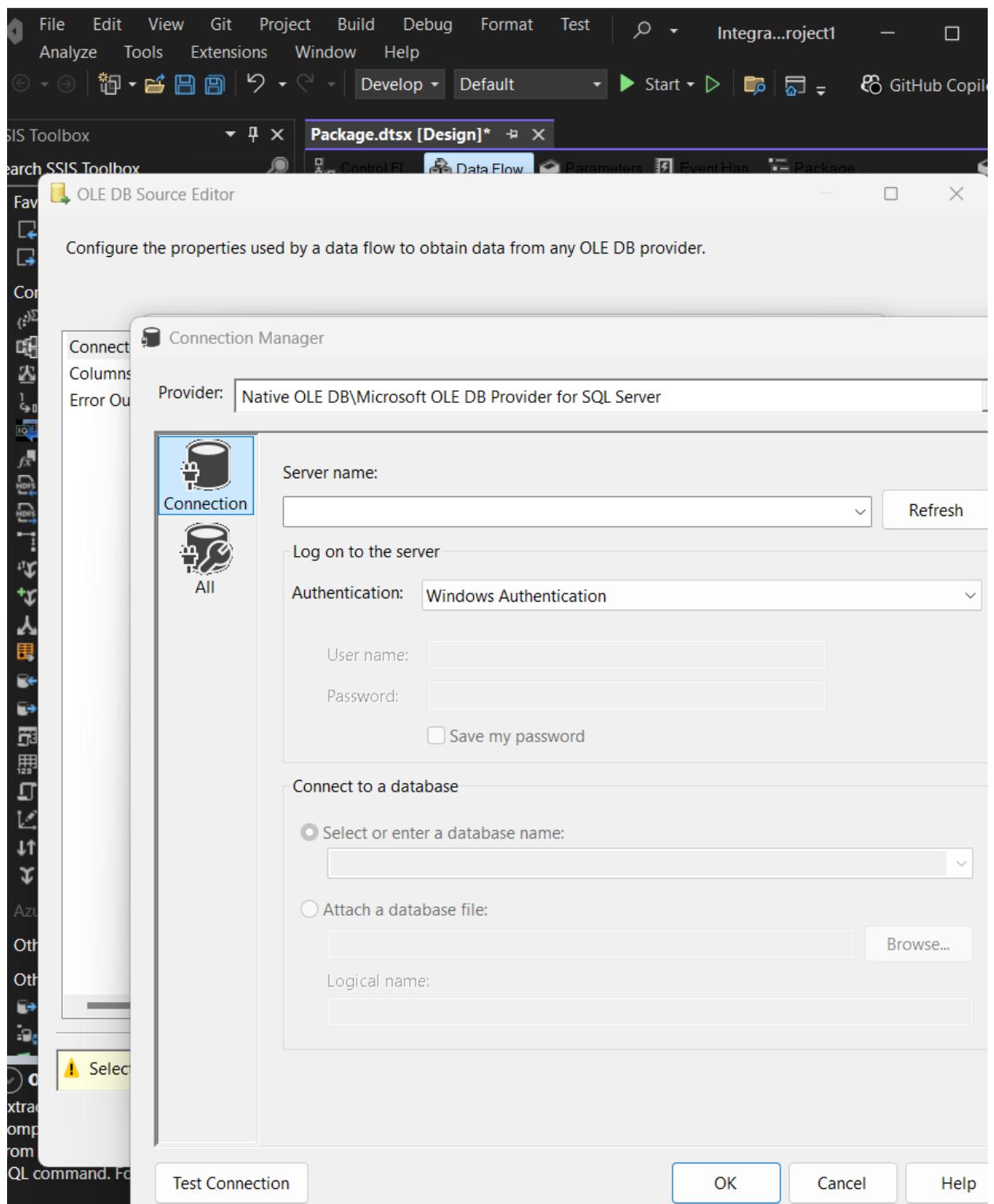
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Provider: Native OLE DB\Microsoft OLE DB Provider for SQL Server

**Connection**

Server name:  Refresh

**All**

Log on to the server

Authentication: SQL Server Authentication

User name: etudiant

Password:

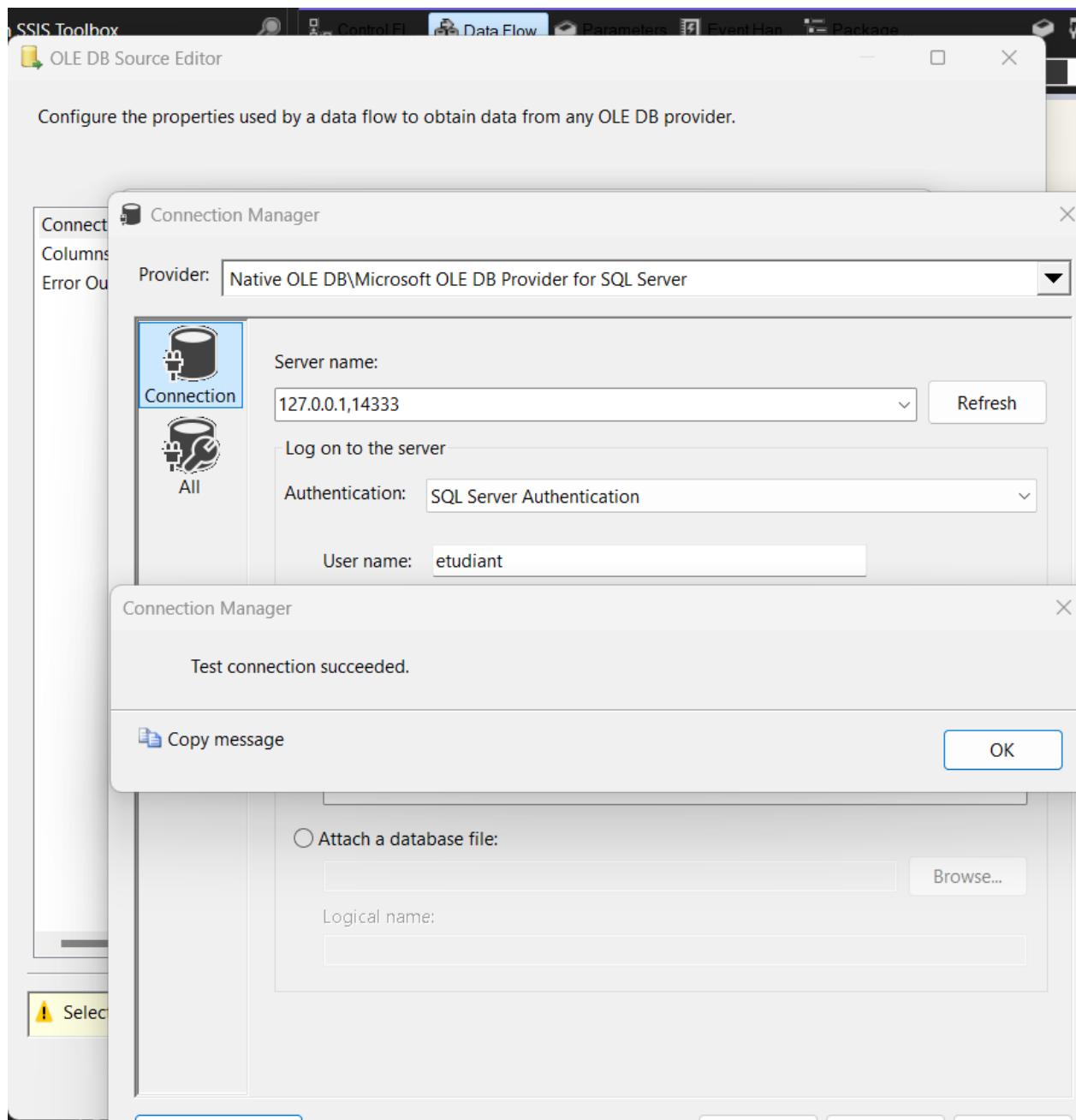
Save my password

Connect to a database

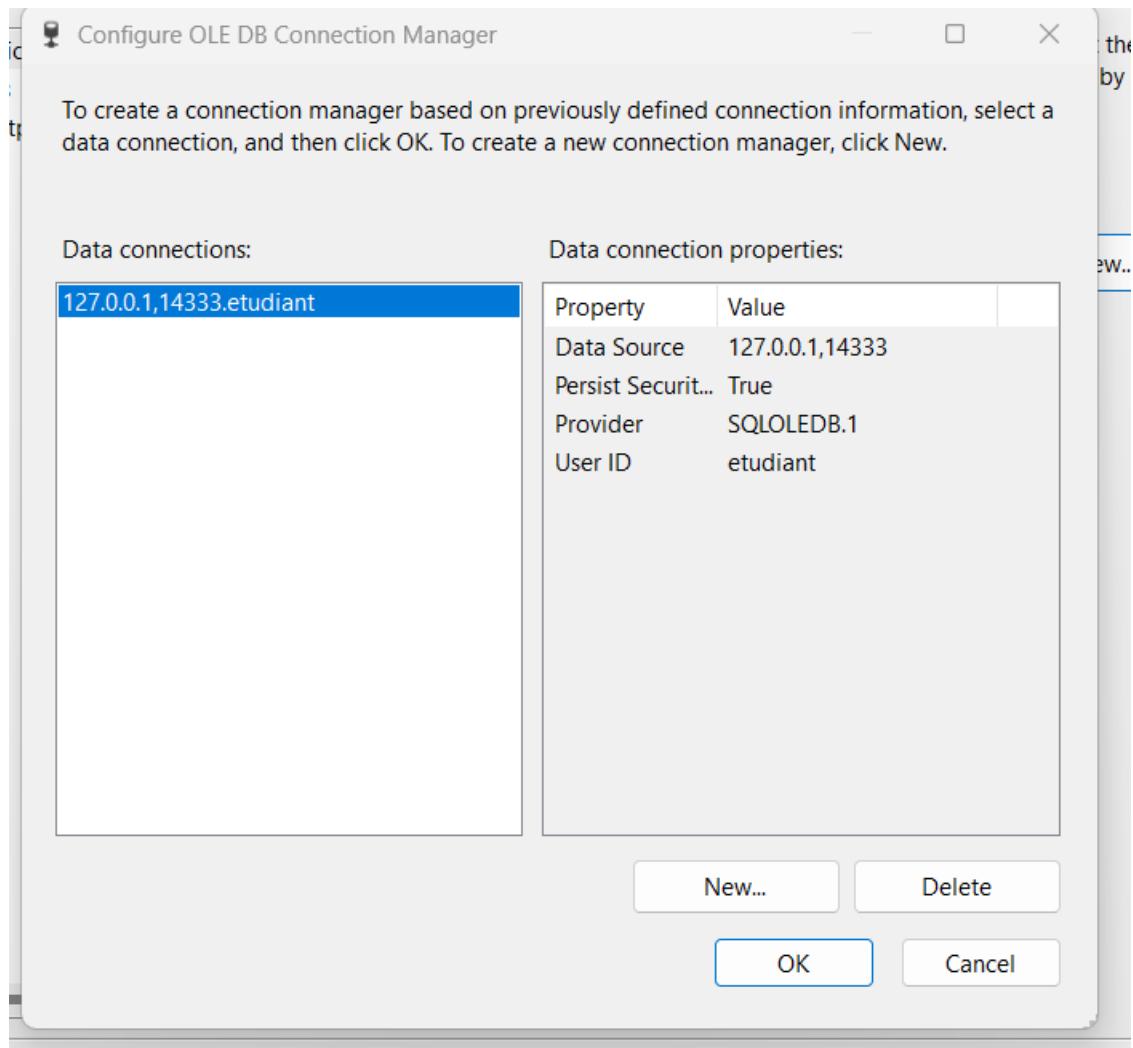
Select or enter a database name:

Attach a database file:  Browse...

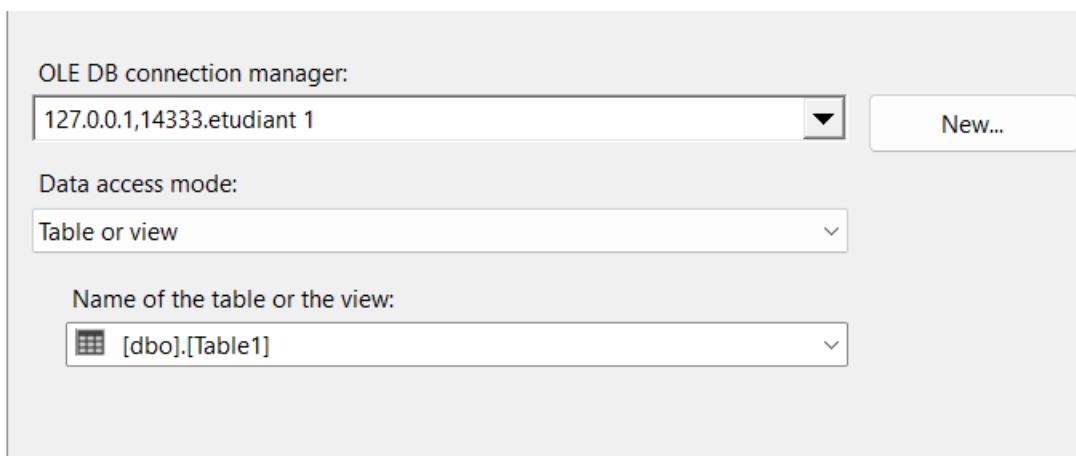
Logical name:

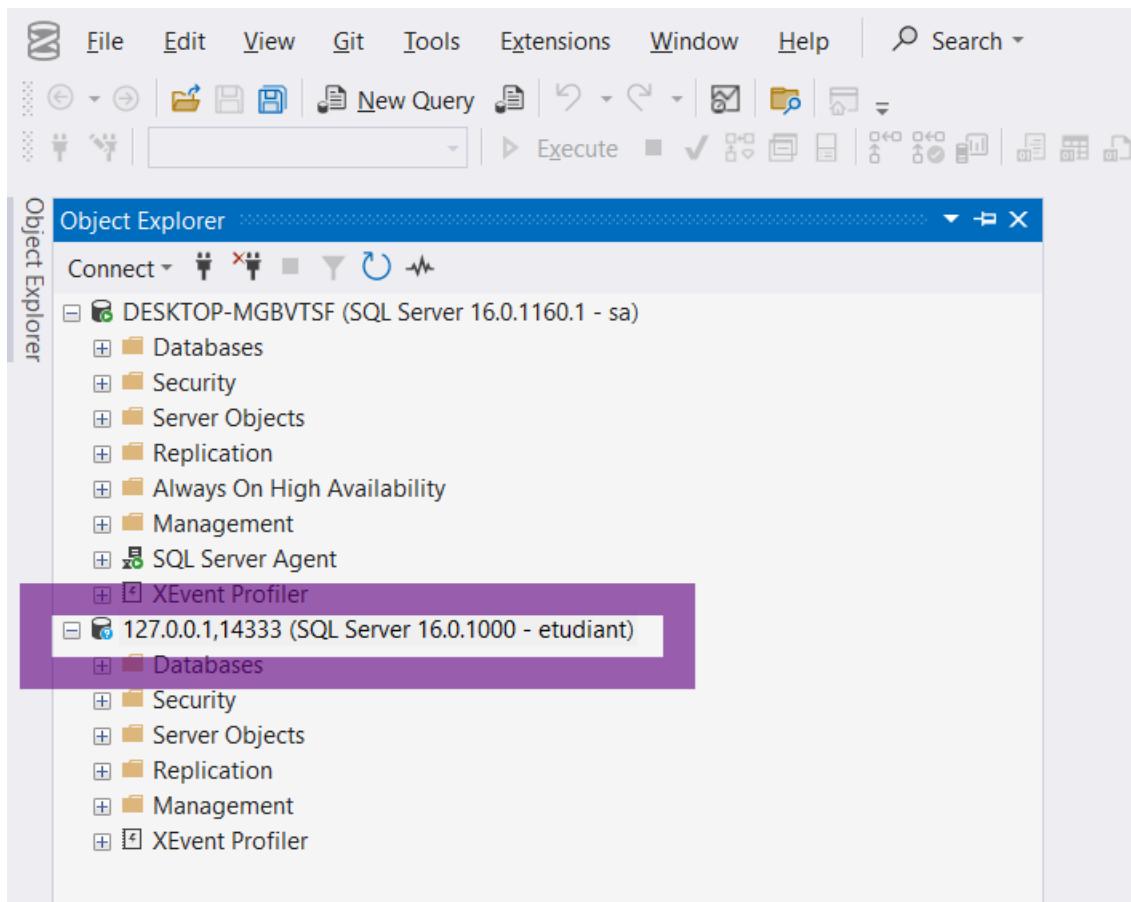


**127.0.0.1,14333**



## Sélectionner la table à copier





Connection Manager  
Columns  
Error Output

Specify an OLE DB connection manager, a data source, or a data source view, and select the data access mode. If using the SQL command access mode, specify the SQL command either by typing the query or by using Query Builder.

OLE DB connection manager:  
127.0.0.1,14333.etudiant 1 New...

Data access mode:  
SQL command

SQL command text:  
SELECT \* FROM [BD1].[dbo].[Table1] Parameters...

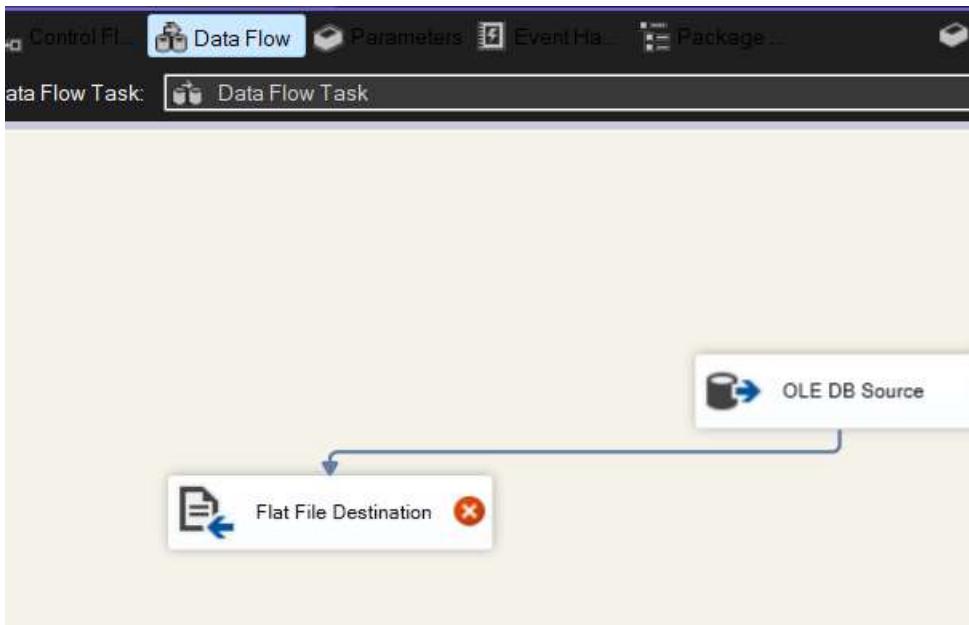
Preview Query Results

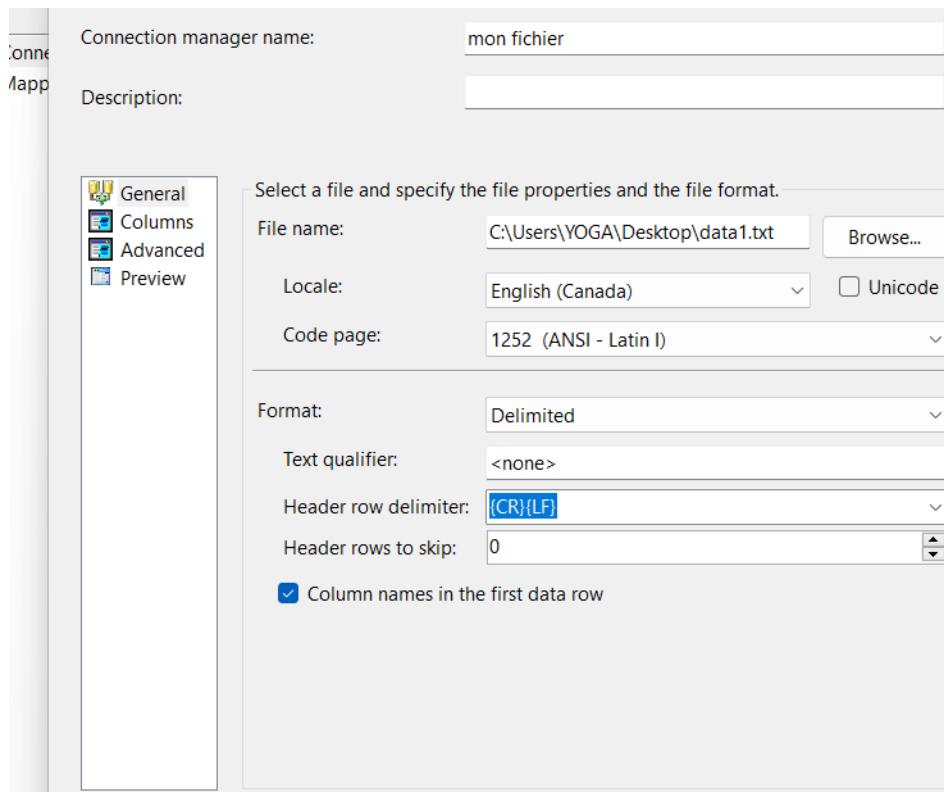
id	nom
100	Donnee...
200	Donnee...

Query result (up to the first 200 rows):

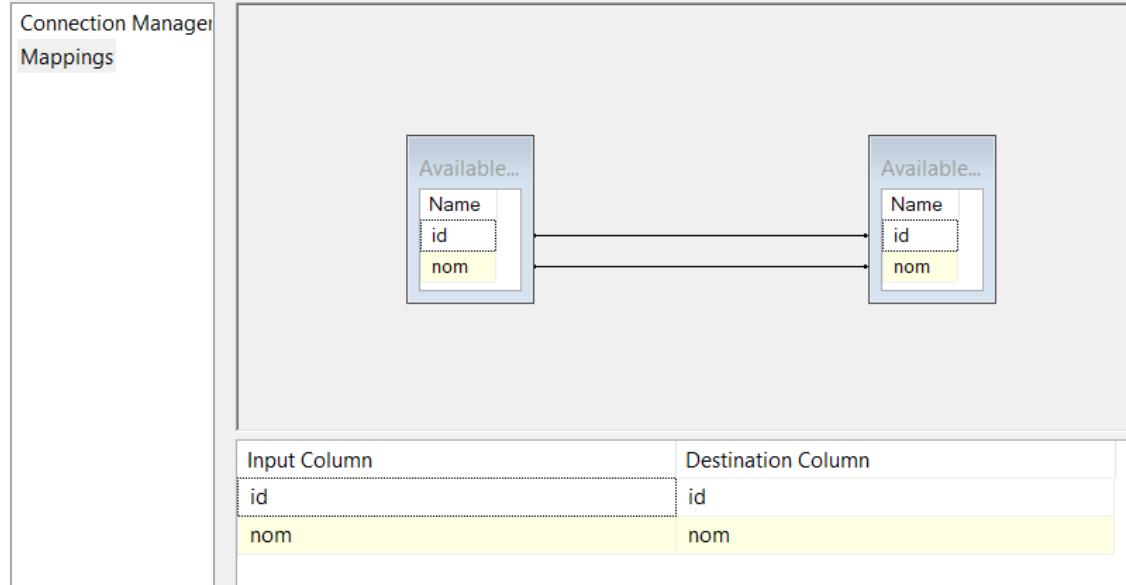
Query...  
View...  
Save...  
Query

**Le trait bleu matérialise le pipeline d'ETL. Il connecte la sortie du composant d'extraction (OLE DB Source) à l'entrée du composant de chargement (Flat File Destination).**

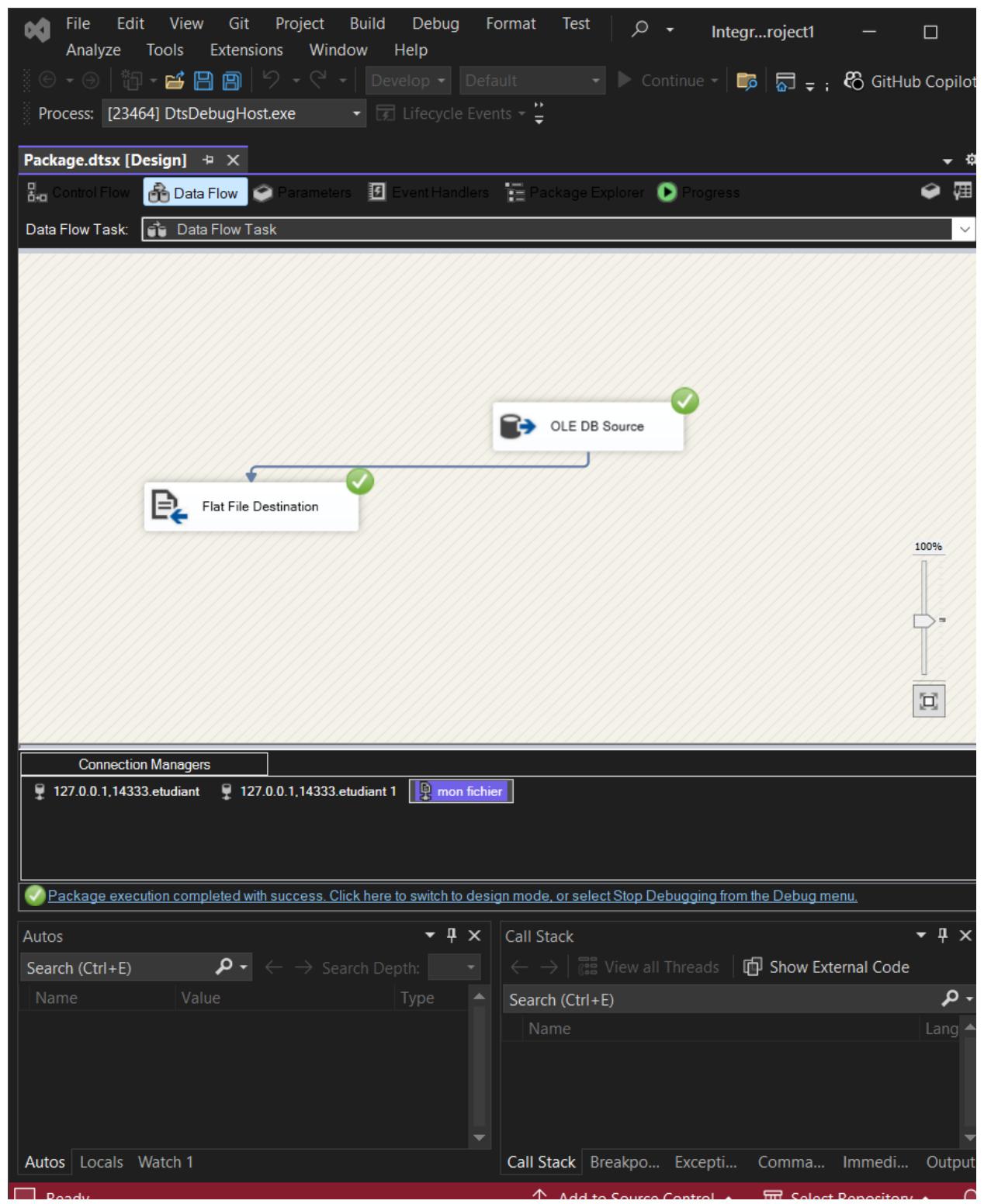


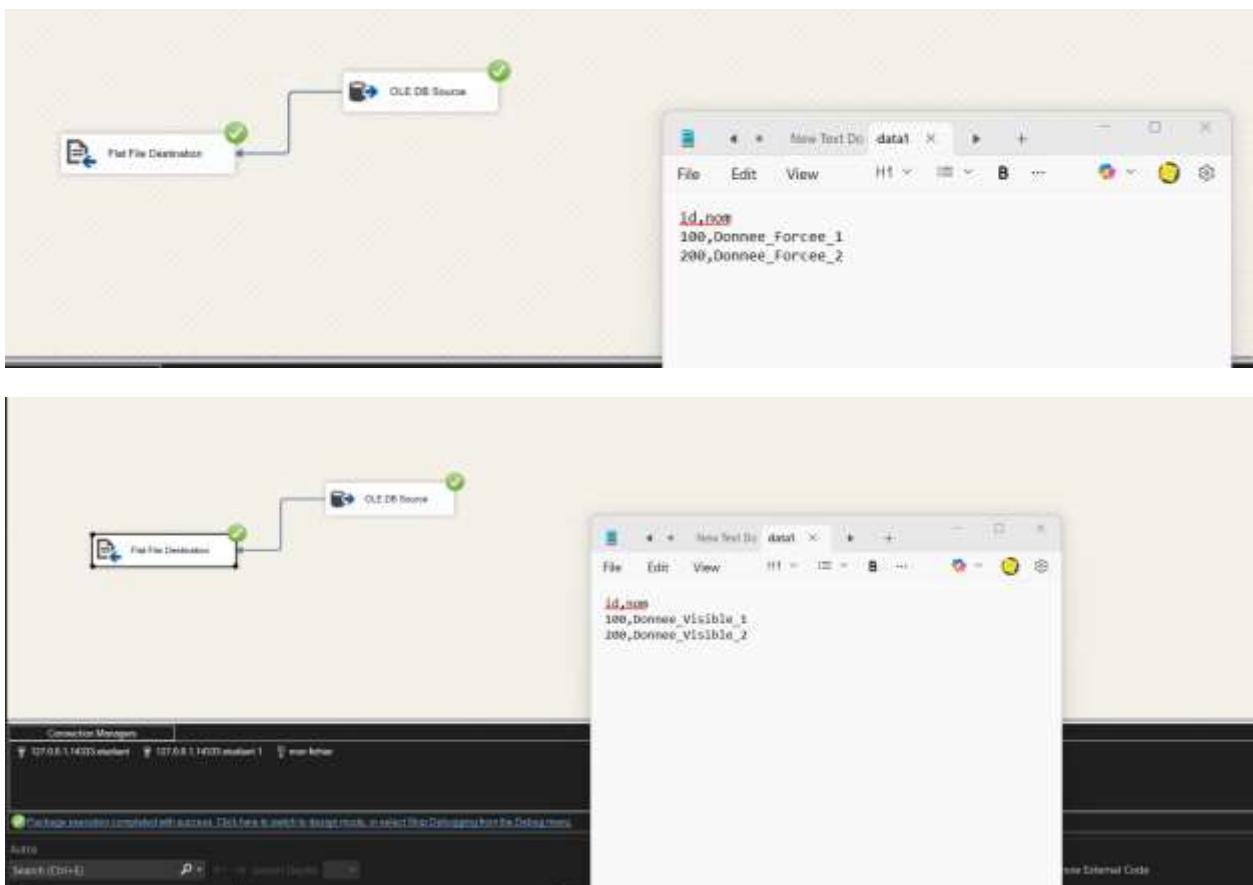


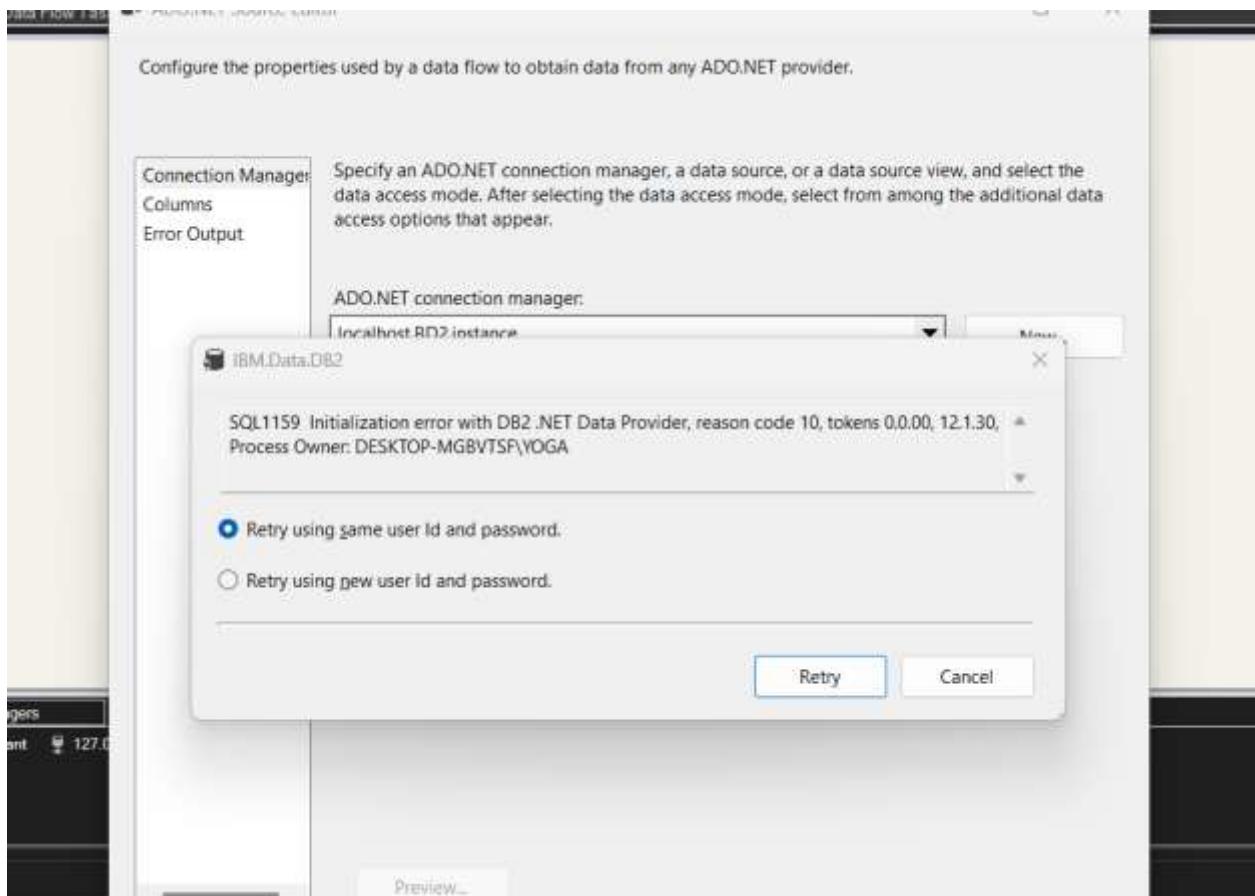
Configure the properties used to connect to and insert data into a text file.



## Lancement de transfert

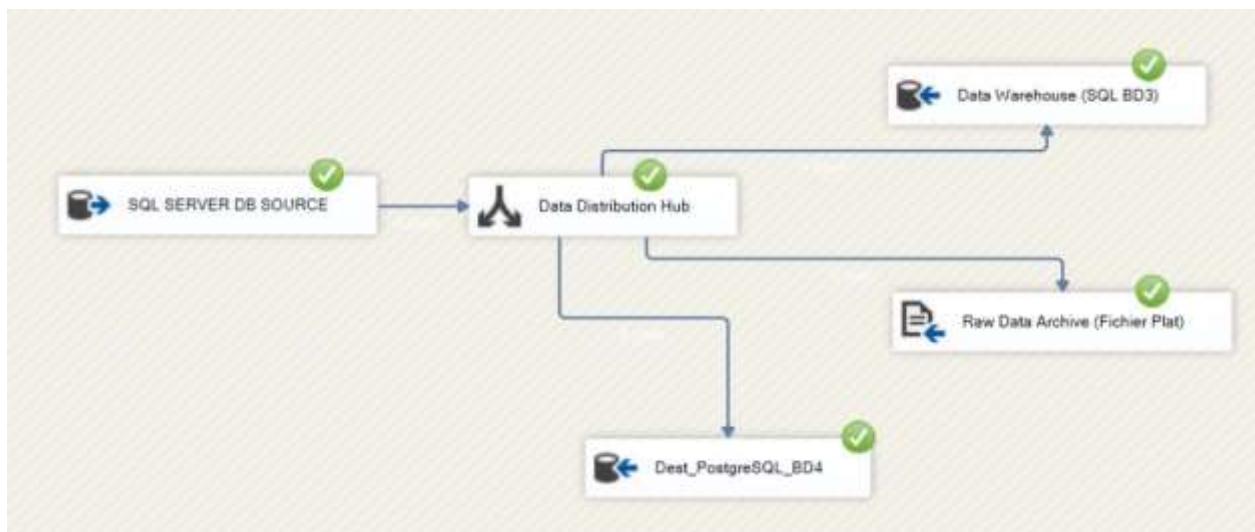






**Table3 db2 error**

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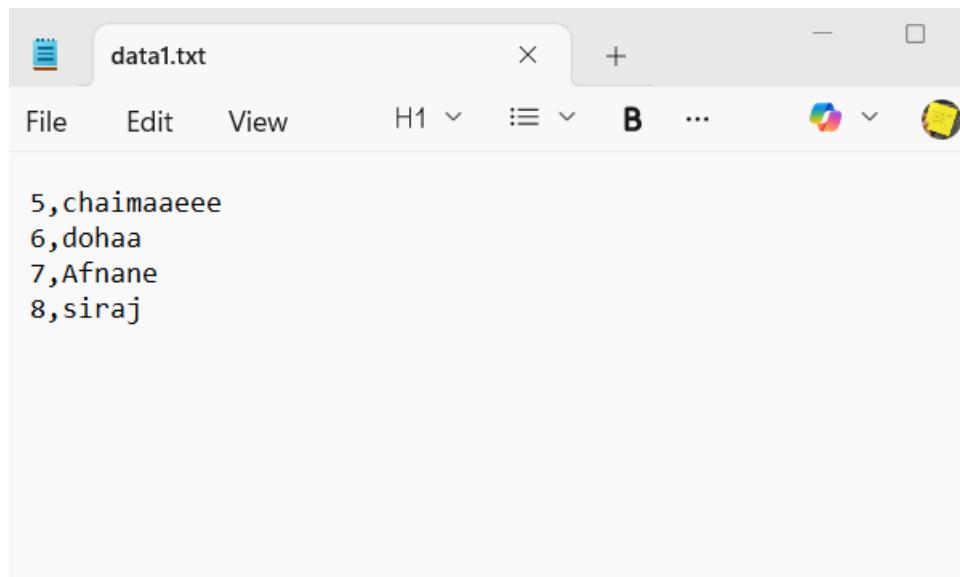


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The screenshot shows a Microsoft SQL Server Management Studio (SSMS) interface. The title bar says "ssssssssssss...ster (sa (61))\*". The toolbar includes "New Query", "Execute", and other standard SSMS icons. The Object Explorer sidebar is visible on the left. The main query window contains the following SQL code:

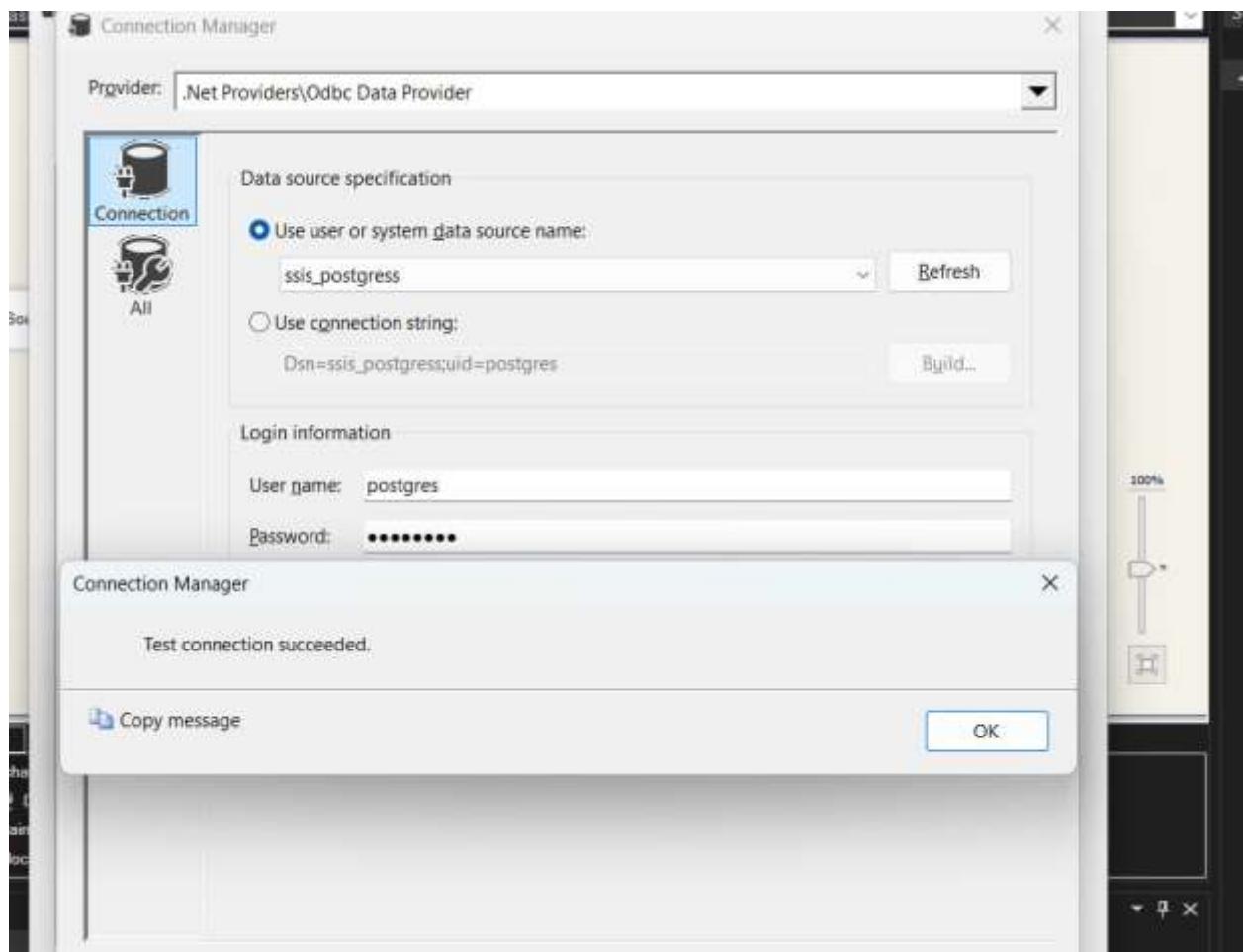
```
1 CREATE DATABASE BD3;
2 GO
3
4 USE BD3;
5 GO
6
7 -- Tables de destination
8 CREATE TABLE Table1_Import (
9     id INT,
10    nom VARCHAR(20),
11    import_date DATETIME DEFAULT GETDATE()
12 );
13
14 CREATE TABLE Table2_Import (
15     ref INT,
16    article VARCHAR(255),
17    import_date DATETIME DEFAULT GETDATE()
18 );
19
20 CREATE TABLE Table3_Import (
21     num INT,
22    lib VARCHAR(255),
23    import_date DATETIME DEFAULT GETDATE()
24 );
25 GO
```

### **10.4.1.4. Destination 2 : Data1.txt.....86**



5, chaimaaeee  
6, dohaa  
7, Afnane  
8, siraj

#### 10.4.1.5. Destination 3 : BD4 (PostgreSQL).....87



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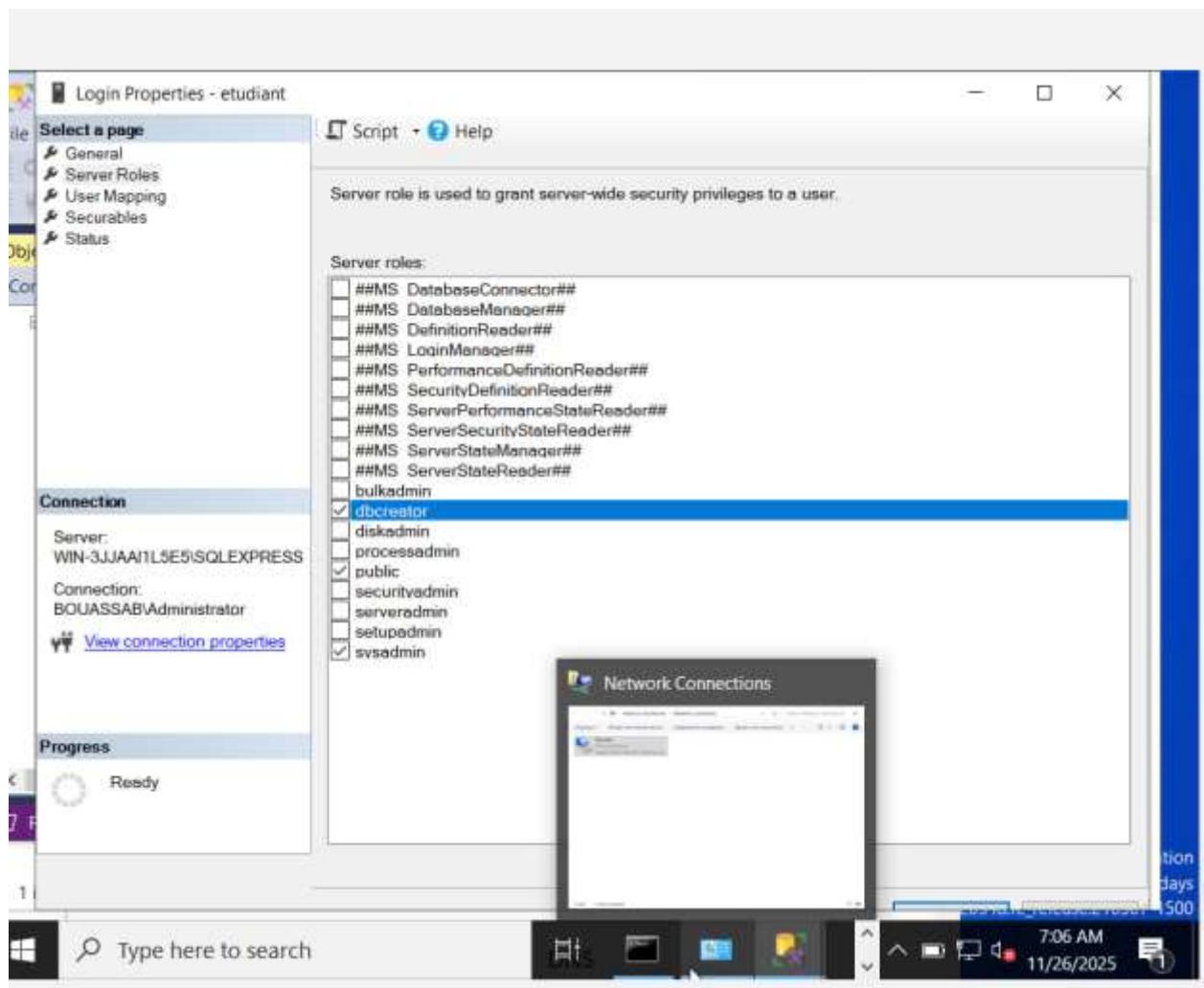
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Object Explorer

SQLQuery1.sqld...udiant (66)\* sssssssssssss... (etudiant (58))

```
1 USE BD1;
2 GO
3
4 -- Vérifier si Table1 existe
5 SELECT * FROM Table1;
6 GO
7
8
9 CREATE DATABASE BD3;
10 GO
11
12 USE BD3;
13 GO
14
15 CREATE TABLE Table1_Import (
16     id INT,
17     nom VARCHAR(20)
18 );
19 GO
```

110 % No issues found

Results Messages

	id	nom
1	1	chaimaaaaaaaaaae
2	2	ayaaaaaaa
3	3	safaaeeeeeee
4	4	ahmedddd
5	5	chaimaaeee
6	6	dohaa
7	7	Afnane
8	8	siraj
9	100	Donnee_Visible_1
10	200	Donnee_Visible_2

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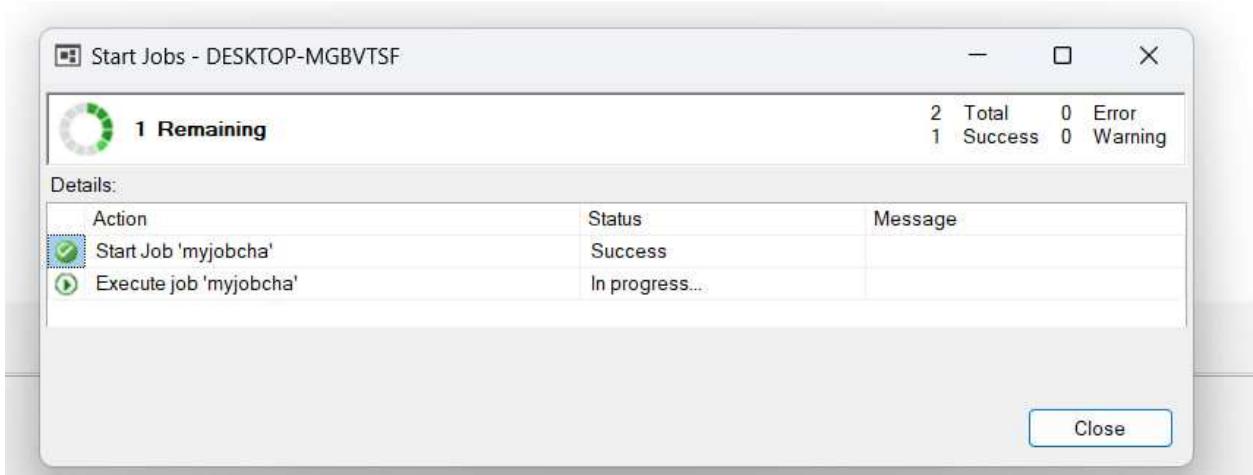
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