



INSTITUTO POLITÉCNICO NACIONAL



**UNIDAD PROFESIONAL INTERDISCIPLINARIA EN
INGENIERÍA Y TECNOLOGÍAS AVANZADAS**

UPIITA

PROFESOR: Carlos De La Cruz Sosa

ASIGNATURA: Bases de Datos Distribuidas

GRUPO: 3TM3

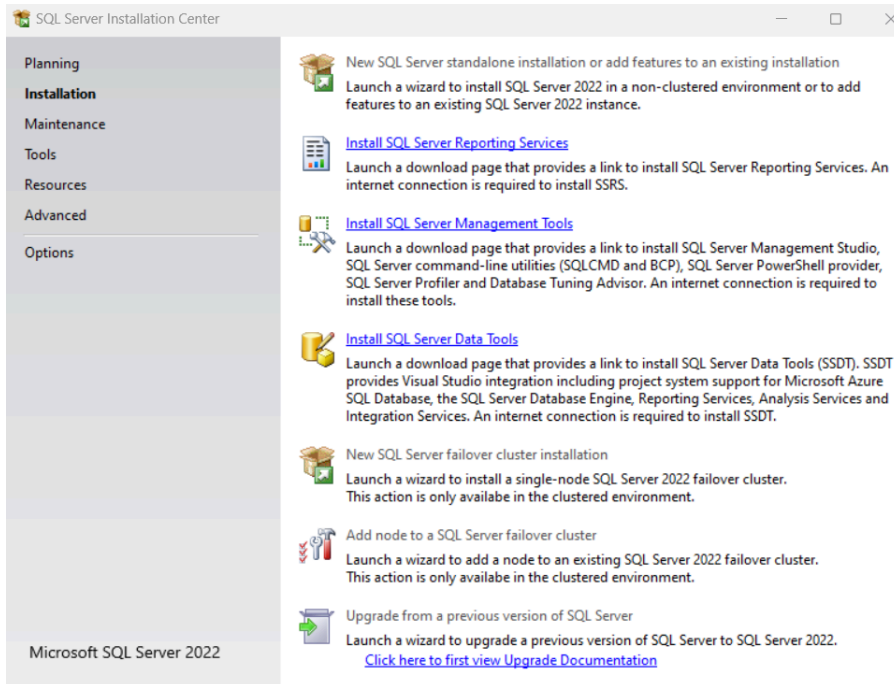
Practica 4

EQUIPO 5:

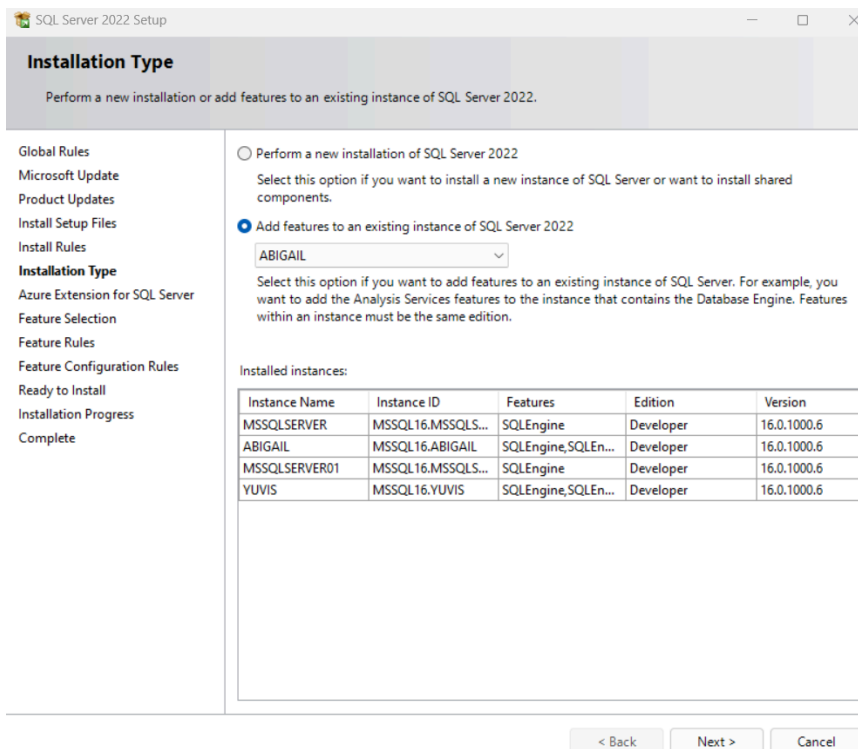
- Bernal Aguilar Yuvia Abigail
- Contreras Jimenez Mariana Montserrat
- Medina Gómez Jimena Zarahí

Pasos a seguir para la creacion de la replicacion

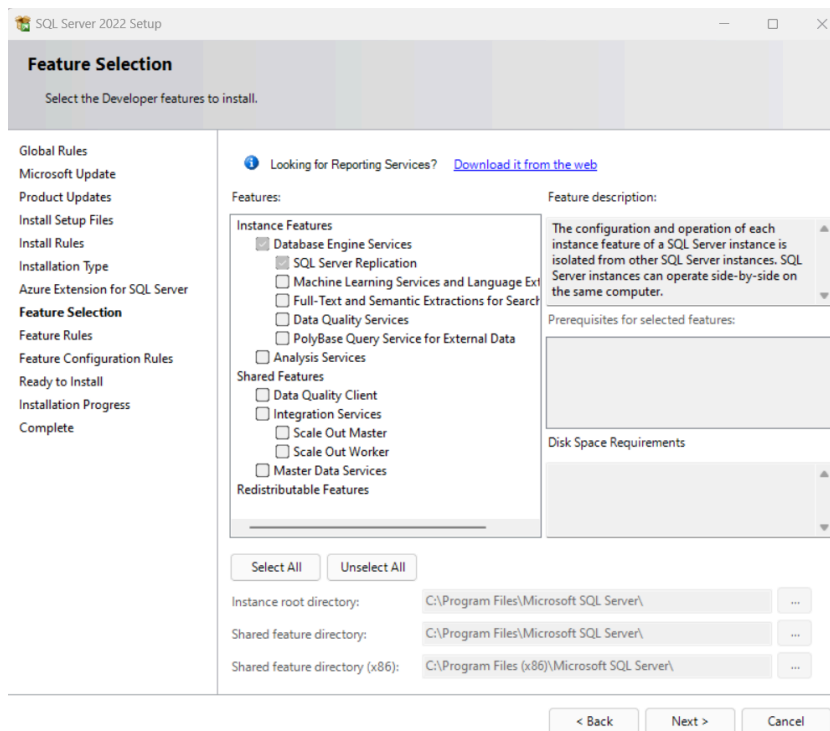
- Despues de haber instalado SQL Server Developer, entraemos a esta pestaña llamada **SQL Server Installation Center**. Damos click a la primera opcion.



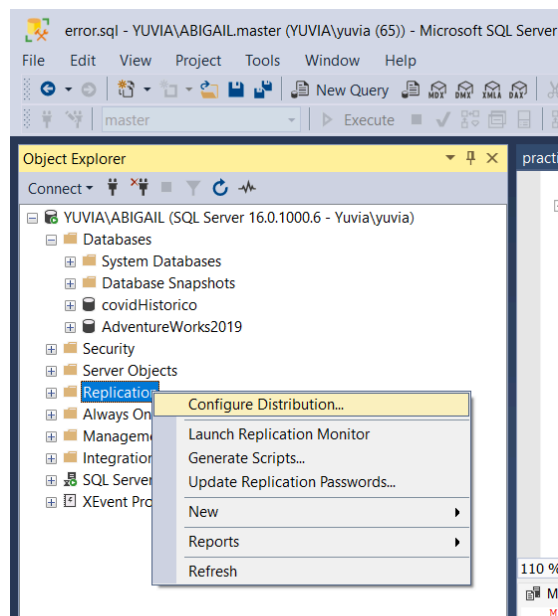
- En la siguiente pestaña, elegimos la instancia en la que queremos instalar la replicacion o en caso de no tener alguna, crearla. En este caso, se escogio la instancia **“ABIGAIL”**.



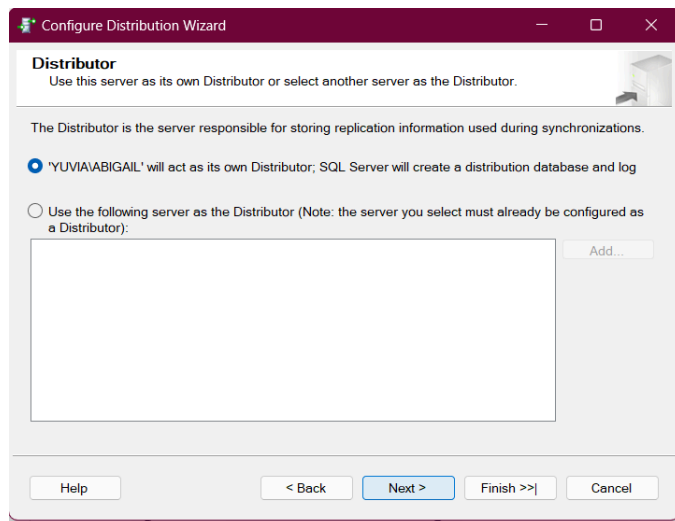
- Seleccionamos unicamente **Database Engine Services** y la opcion de **SQL Server Replication** (muy importante).



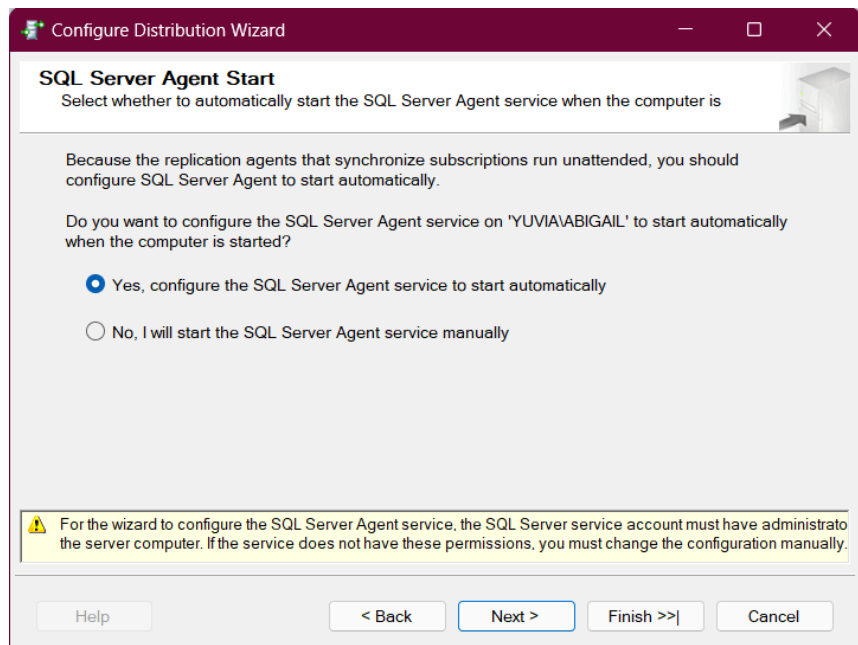
- Despues de haber realizado la instalacion correctamente, entramos a SQL Server Management, donde entraremos a nuestra instancia y daremos click derecho en **Replication.** para consiguientem, elegir la opcion de Configure Distribution.



- Elegimos la primera opcion.



- Elegimos la primera opcion



- Elegimos donde se guardara la instantanea.

Configure Distribution Wizard

Snapshot Folder
Specify the root location where snapshots will be stored.

To allow Distribution and Merge Agents that run at Subscribers to access the snapshots of their publications, you must use a network path to refer to the snapshot folder.

Snapshot folder:
D:\INSTANCIA_ABIGAIL\MSSQL16.ABIGAIL\MSSQL\RepData

⚠ This snapshot folder does not support pull subscriptions created at the Subscriber. It is not a network path or it is a local path. To support both push and pull subscriptions, use a network path to refer to this folder.

Help < Back Next > Finish >>| Cancel

- Le damos un nombre a nuestro **Distribution database**.

Configure Distribution Wizard

Distribution Database
Select the name and location of the distribution database and log files.

The distribution database stores changes to transactional publications until Subscribers can be updated. It also stores historical information for snapshot and merge publications.

Distribution database name:
distribution

Folder for the distribution database file:
D:\INSTANCIA_ABIGAIL\MSSQL16.ABIGAIL\MSSQL\Data

Folder for the distribution database log file:
D:\INSTANCIA_ABIGAIL\MSSQL16.ABIGAIL\MSSQL\Data

The paths must refer to disks that are local to the Distributor and begin with a local drive letter and colon (for example, C:). Mapped drive letters and network paths are invalid.

Help < Back Next > Finish >>| Cancel

- Ya que nos conectaremos a otros equipos, llenamos los campos de **Login y Password**

Publisher Properties - YUVIA\ABIGAIL

Name: YUVIA\ABIGAIL

Properties:

▼ **Agent Connection to the Publisher**

Agent Connection Mode	SQL Server Authentication
Login	aguilar
Password	*****

▼ **Miscellaneous**

Publisher Type	Microsoft SQL Server
Distribution Database Name	distribution
Default Snapshot Folder	D:\INSTANCIA_ABIGAIL\MSSQL16.ABIGAIL\

Password
Password used for SQL Server Authentication.

OK Cancel Help

Configure Distribution Wizard

Publishers
Enable servers to use this Distributor when they become Publishers.

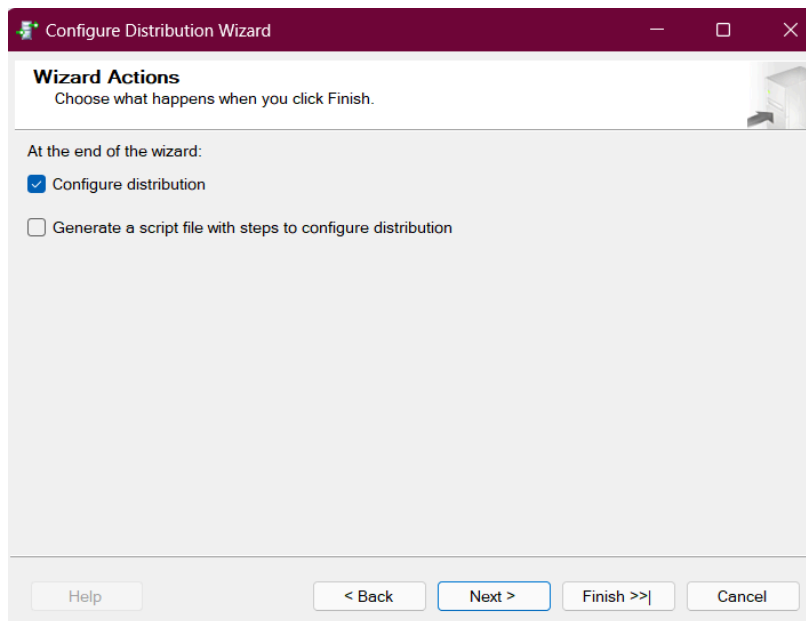
Publishers:

Publisher	Distribution Database
<input checked="" type="checkbox"/> YUVIA\ABIGAIL	distribution

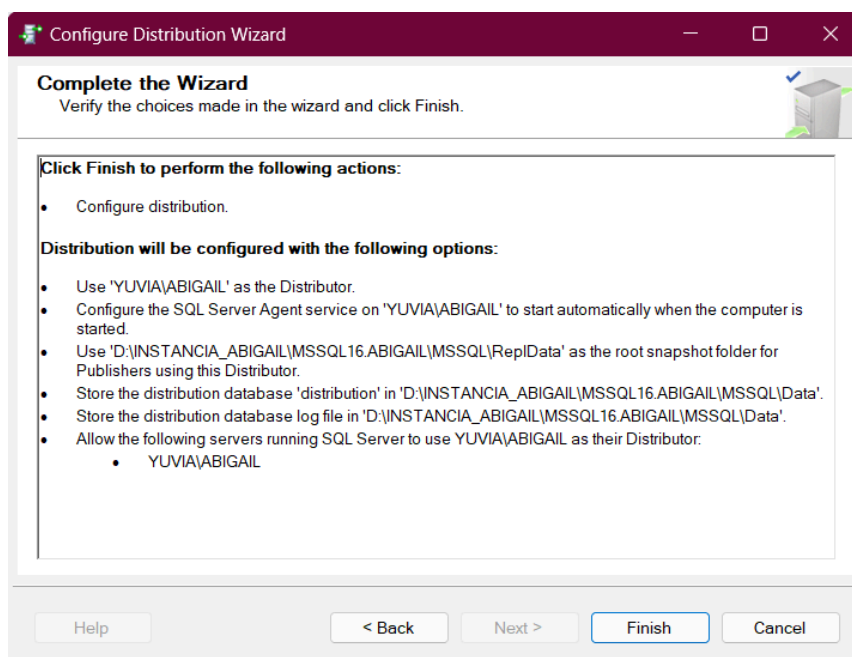
Add ▼

Help < Back Next > Finish >>| Cancel

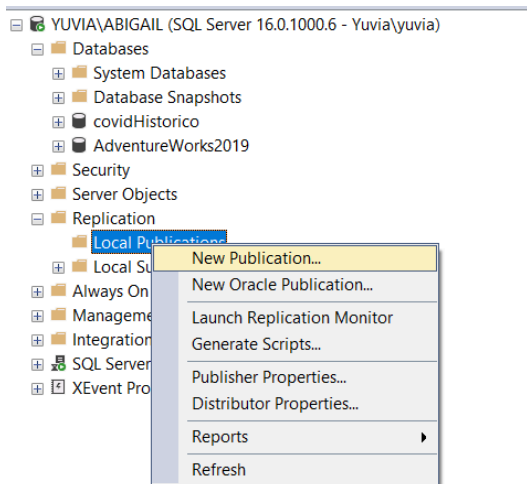
- Elegimos la primera opcion.



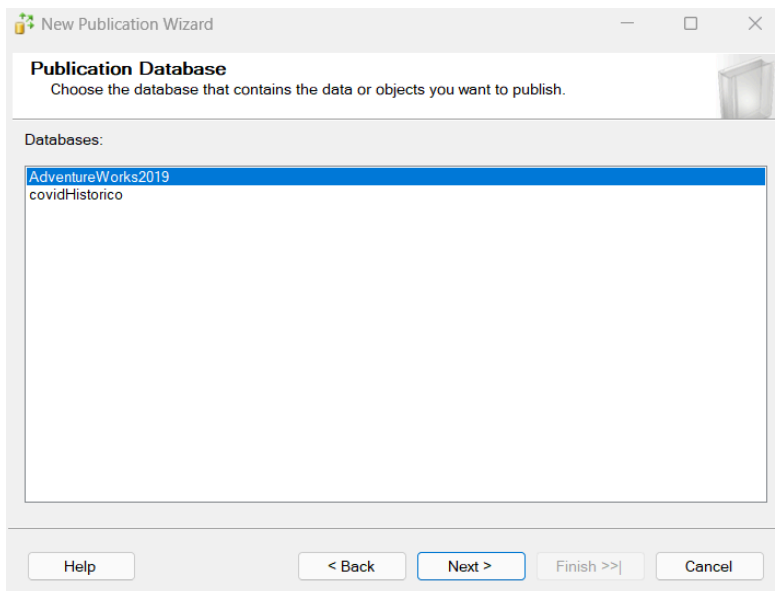
- Y a continuacion vemos un resumen de nuestra configuracion.



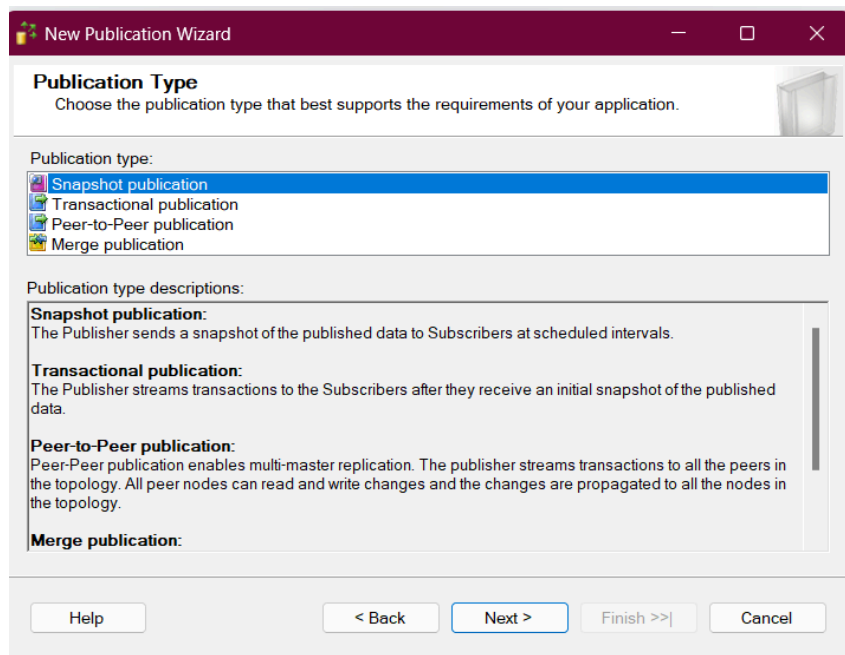
- Ya que se haya creado correctamente, vamos nuevamente a la pestaña de Replication y damos click en **New Publication.**



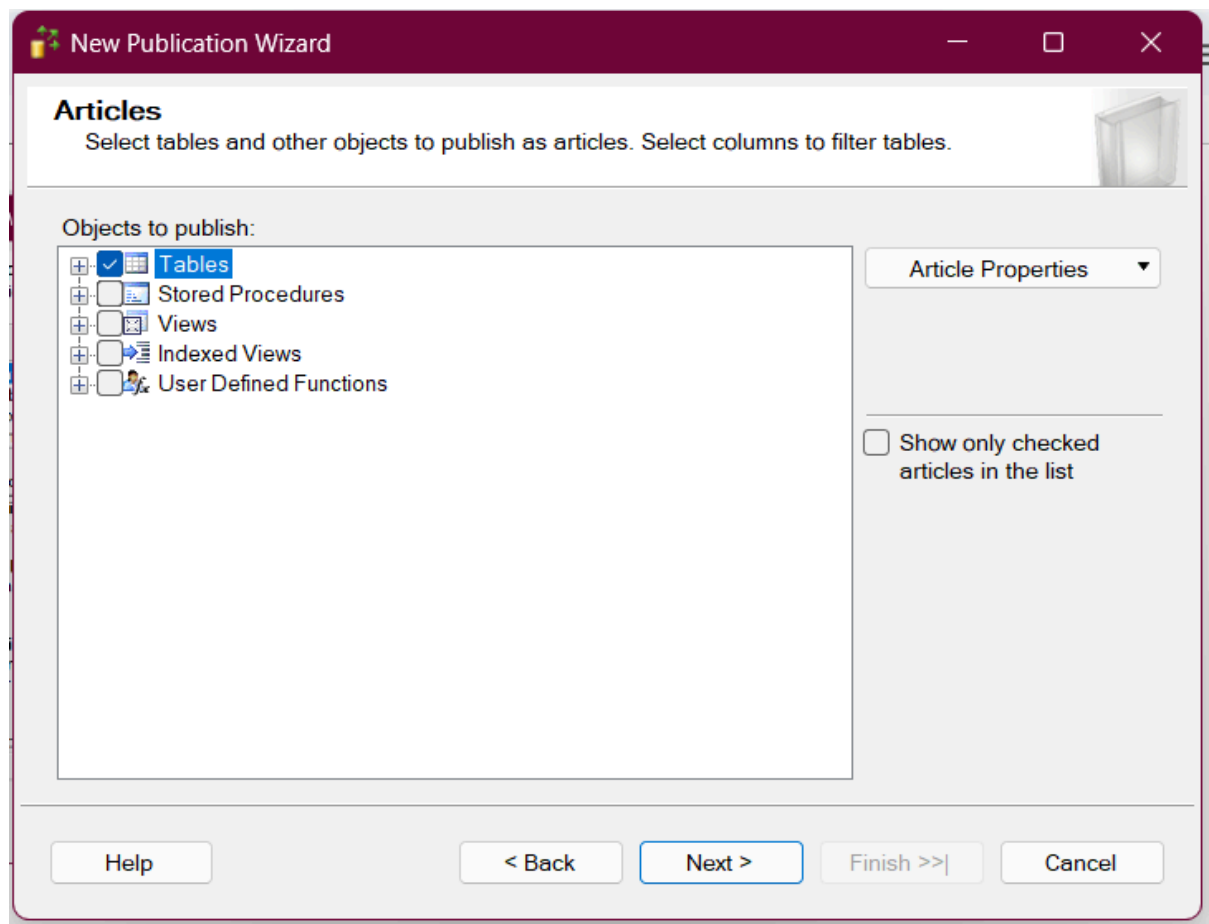
- Elegimos la base de datos que queremos repartir.

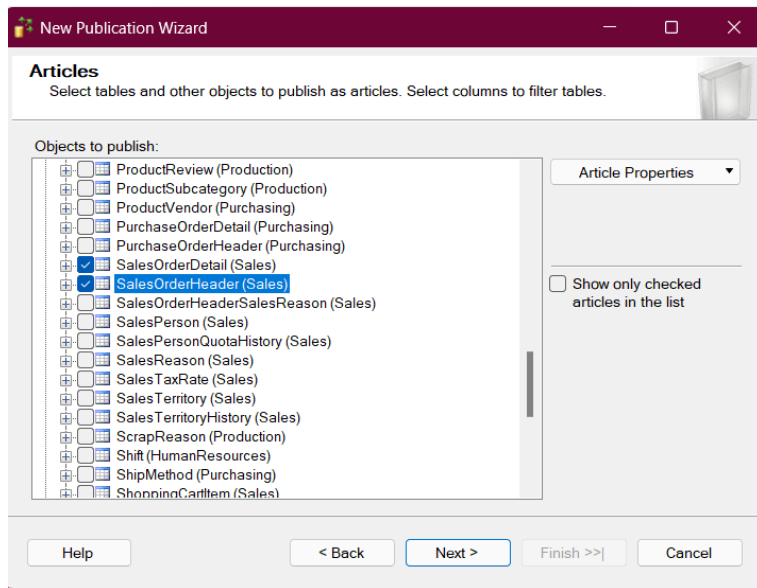


- Elegimos la opcion de **Snapshot Publication**.

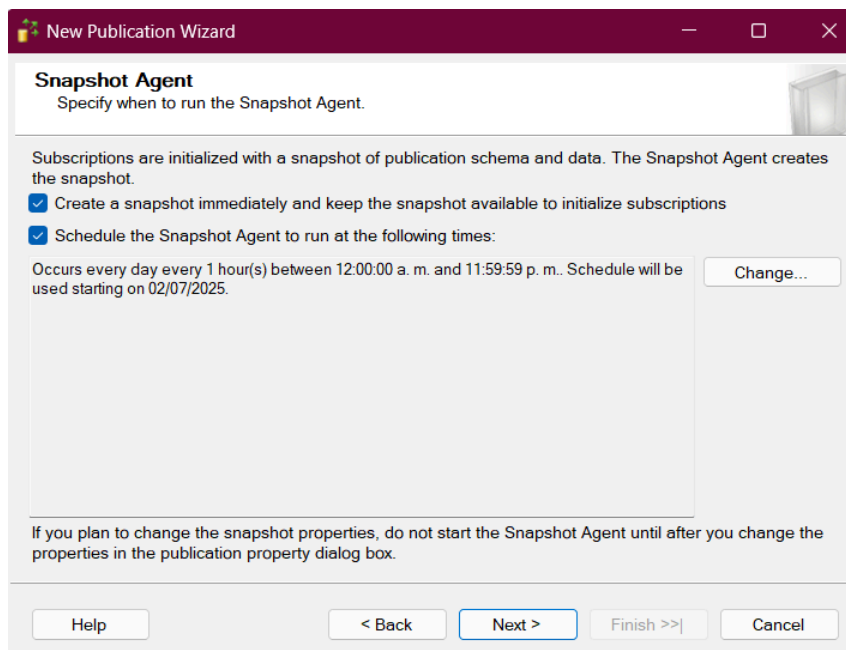


- En esta seccion, elegimos lo que queremos que contenga nuestra instantanea, en este caso elegi únicamente dos tablas, **SalesOrderDetail** y **SalesOrderHeader**





- Seleccionamos ambas opciones.



- Acontinuacion, podemos escribir un usuario y su contraseña o seleccionar la opcion de **By impersonating the process account.**

Snapshot Agent Security

Specify the domain or machine account under which the Snapshot Agent process will run.

☐ Run under the following Windows or Azure Active Directory account:

Process account:

Example: domain\account or account@domain.com

Password:

Confirm Password:

☒ Run under the SQL Server Agent service account (This is not a recommended security best practice.)

Connect to the Publisher

☐ By impersonating the process account

☒ Using the following SQL Server login:

☐ Using the following Azure Active Directory login:

☐ Using the following Azure Active Directory service principal:

Login:

Password:

Confirm Password:

OK Cancel Help

- Seleccionamos la opción de **Create the publication.**

New Publication Wizard

Wizard Actions
Choose what happens when you click Finish.

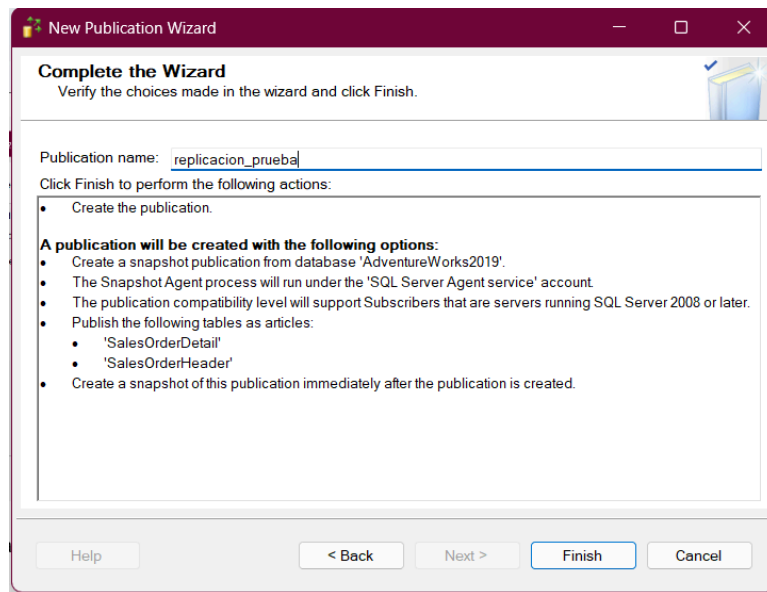
At the end of the wizard:

☒ Create the publication

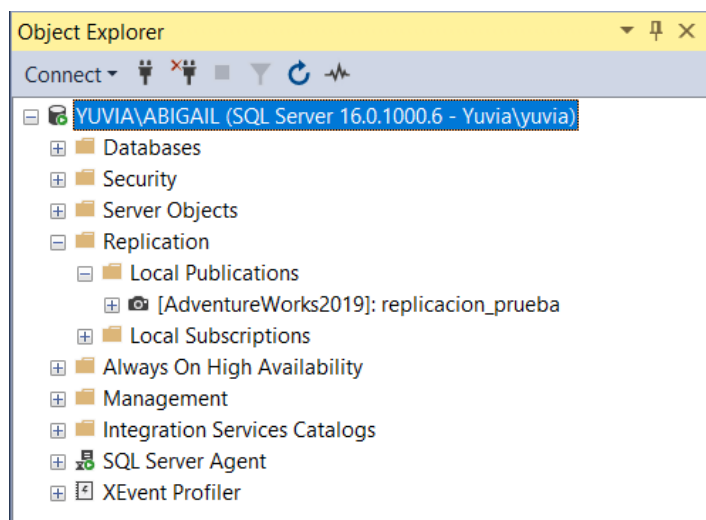
☐ Generate a script file with steps to create the publication

Help < Back Next > Finish >> Cancel

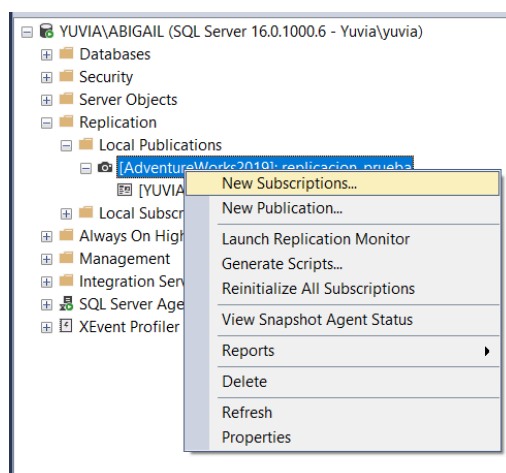
- Escribimos el nombre que le queramos dar, en este caso es **replicacion_prueba**



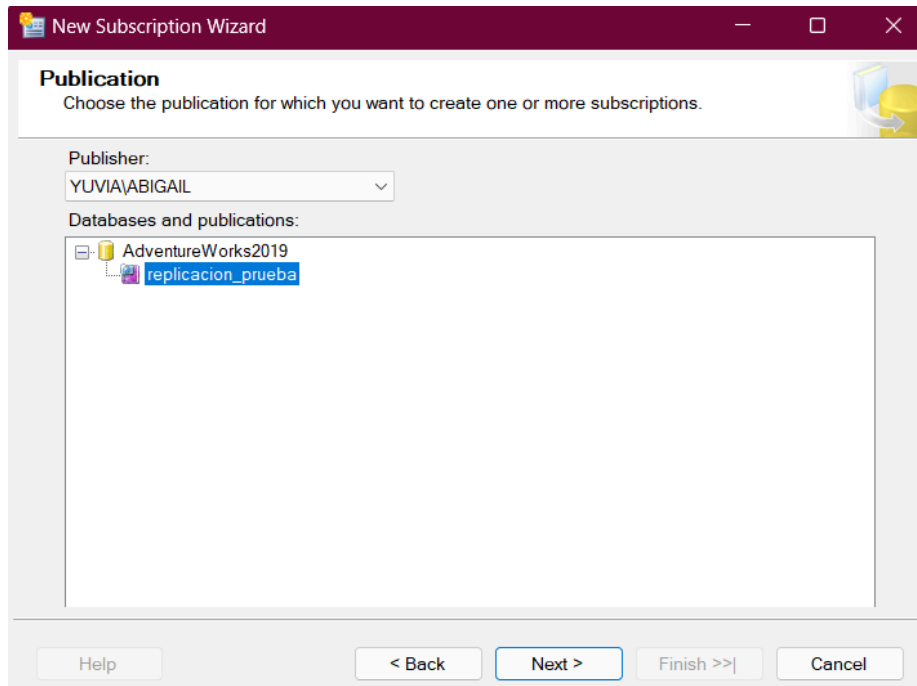
- Como podemos observar, la publicacion fue creada correctamente.



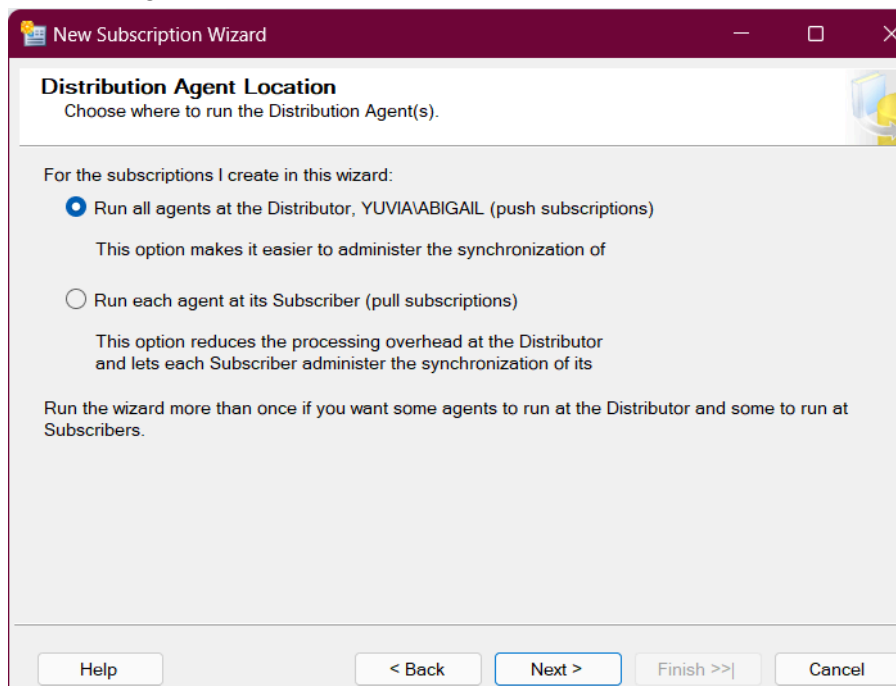
- Ahora damos click derecho a la camara, y seleccionamos New Suscriptions



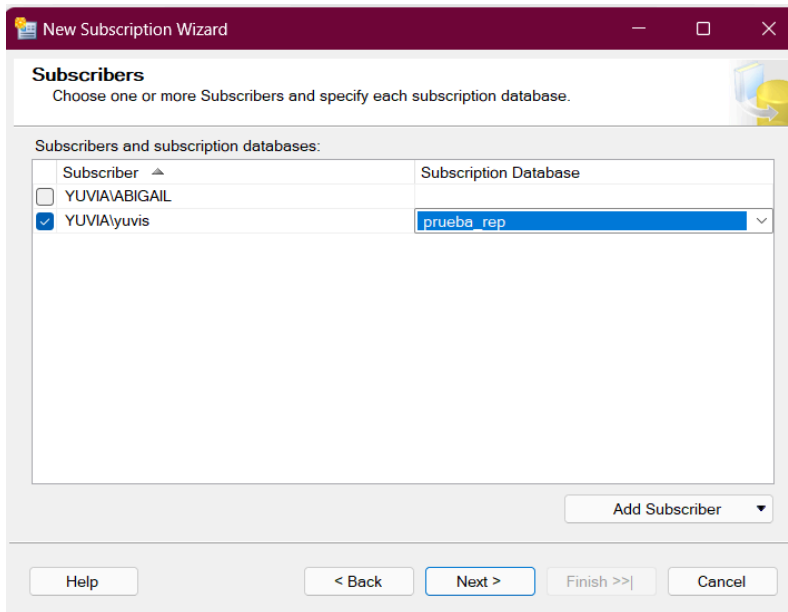
- Seleccionamos la publicación anteriormente creada.



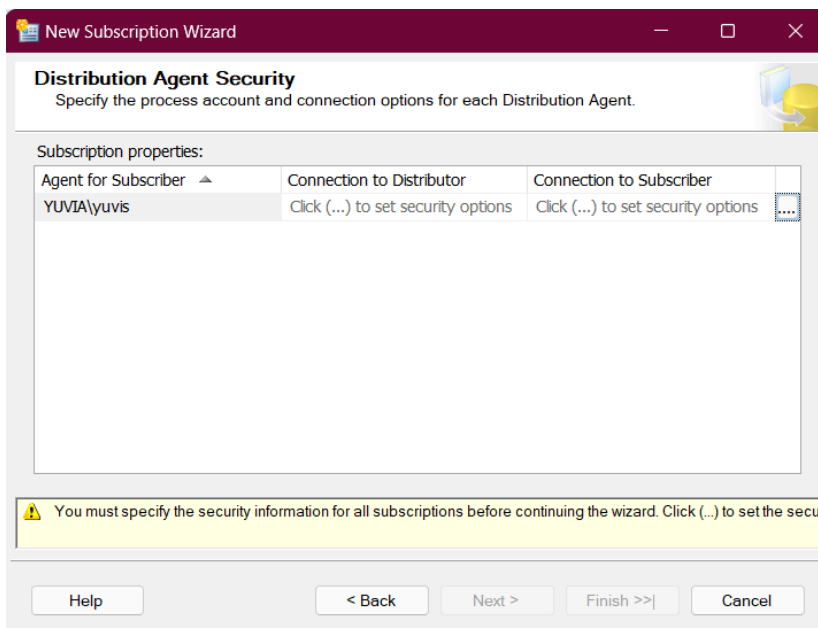
- Elegimos la primera opción.



- Elegimos al suscriptor seguro de su database, en ese caso, escogimos al suscriptor "Yuvis" y su base de datos llamada "Prueba_rep".



- Damos click en los tres puntos que se encuentra al lado del suscriptor y nos aparecera la siguiente ventana.



- Al ser un usuario remoto al que queremos conectarnos, ponemos el correspondiente nombre y su contraseña

Distribution Agent Security



Specify the domain or machine account under which the Distribution Agent process will run when synchronizing this subscription.

☐ Run under the following Windows or Azure Active Directory account:

Process account:

Example: domain\account or account@domain.com

Password:

Confirm Password:

☒ Run under the SQL Server Agent service account (This is not a recommended security best practice.)

Connect to the Distributor

☒ By impersonating the process account

☐ Using a SQL Server login

The connection to the server on which the agent runs must impersonate the process account. The process account must be a member of the Publication Access List.

Connect to the Subscriber

☐ By impersonating the process account

☒ Using the following SQL Server login:

☒ Using the following Azure Active Directory login:

☒ Using the following Azure Active Directory service principal:

Login:

yuvis

Password:

Confirm password:

The login used to connect to the Subscriber must be a database owner of the subscription database.

OK

Cancel

Help

New Subscription Wizard

Distribution Agent Security

Specify the process account and connection options for each Distribution Agent.

Subscription properties:

Agent for Subscriber ▲	Connection to Distributor	Connection to Subscriber
YUVIA\yuvis	Impersonate process account	Use login 'yuvis'

Help < Back Next > Finish >>| Cancel

- Dejamos las siguientes opciones

New Subscription Wizard

Synchronization Schedule

Specify the synchronization schedule for each agent.

Agent schedule:

Subscriber ▲	Agent Location	Agent Schedule
YUVIA\yuvis	Distributor	Run continuously

Help < Back Next > Finish >>| Cancel

New Subscription Wizard


Initialize Subscriptions

Specify whether to initialize each subscription with a snapshot of the publication data and

Subscription properties:

Subscriber	Memory Optimized	Initialize	Initialize When
YUVIAlyuvis	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Immediately

A subscription database needs to be initialized with a snapshot of the publication data and schema unless it has already been specially prepared for the subscription.

 The Snapshot Agent must run and generate a snapshot of the publication before the subscriptions can be initialize

Help < Back Next > Finish >>| Cancel

- Y creamos el suscriptor.

New Subscription Wizard

Wizard Actions

Choose what happens when you click Finish.















At the end of the wizard:

☒ Create the subscription(s)

☐ Generate a script file with steps to create the subscription(s)

Help < Back Next > Finish >>| Cancel

- Finalmente, podemos ver al suscriptor

- [-]  YUVIA\ABIGAIL (SQL Server 16.0.1000.6 - Yuvia\yuvia)
 - [+]  Databases
 - [+]  Security
 - [+]  Server Objects
 - [-]  Replication
 - [-]  Local Publications
 - [-]  [AdventureWorks2019]: replicacion_prueba
 -  [YUVIA\YUVIS].[prueba_rep]
 - [+]  Local Subscriptions
 - [+]  Always On High Availability
 - [+]  Management
 - [+]  Integration Services Catalogs
 - [+]  SQL Server Agent
 - [+]  XEvent Profiler