

School

Staff

Kehibde

Kola

Ade  
20  
primary 3

Ade  
20  
primary 3

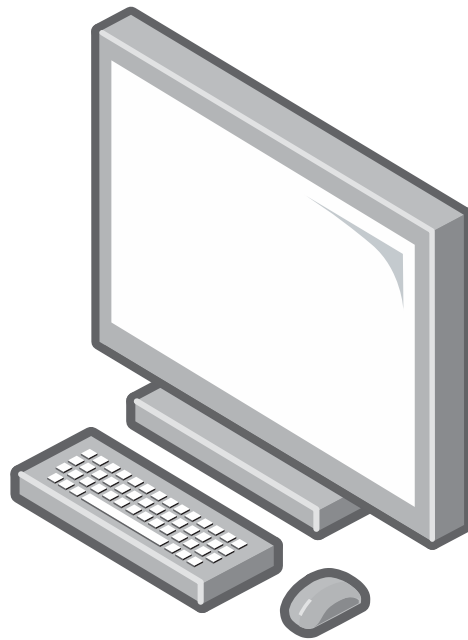
Taiwo  
19  
primary 4

Ade  
20  
primary 3

Student name

Taiwo  
19  
primary 4

Taiwo  
19  
primary 4



Staff name

std_name		
name_std	Class	age
Ade	2	23
Taiwo	4	21

std_name		
name_std	Class	age
Ade	2	23
Taiwo	4	21

Staff_name		

std_name		



name	class_teach	time
kola	4	2pm
kemi	2	4pm

name_std	Class	age
Ade	2	23
Taiwo	4	21

login detail			std_name		
			name_std	Class	age
			Ade	2	23
			Taiwo	4	21

Database

# How to delect distribution

. Chect the active replication

```
select is_distributor, name  
from sys.databases  
where name = 'distributiondb'
```

Distribution name

```
alter database distributiondb set single_user with rollback immediate
```

```
exec sp_detach_db 'distributiondb'
```

## Complete SQL Server Replication Guide -- Local SSMS Setup

### Understanding SQL Server Replication

is a technology that allow to copy and distribute  
data and database objects from one database to  
another to maintain consistency

Why Use Replication

Load Distribution  
Data Availability  
Geographic Distribution  
Reporting

Types of Replication

#### 1. Snapshot Replication

See this as a picture take from camera.  
it takes a complete snapshot of the data at a specific  
point in time



When to use it

when data changes  
infrequently

cons

can be resource  
intensive for large  
dataset

#### 2. Transactional Replication

see this as a mirror in your home, any time there is passing object  
it reflect.



captures and replicate individual data transactions  
as they occurs

When to use it

when need near  
real time data  
synchronization

Cons

. More complex  
. requires stable  
network connection

3. Merge Replication

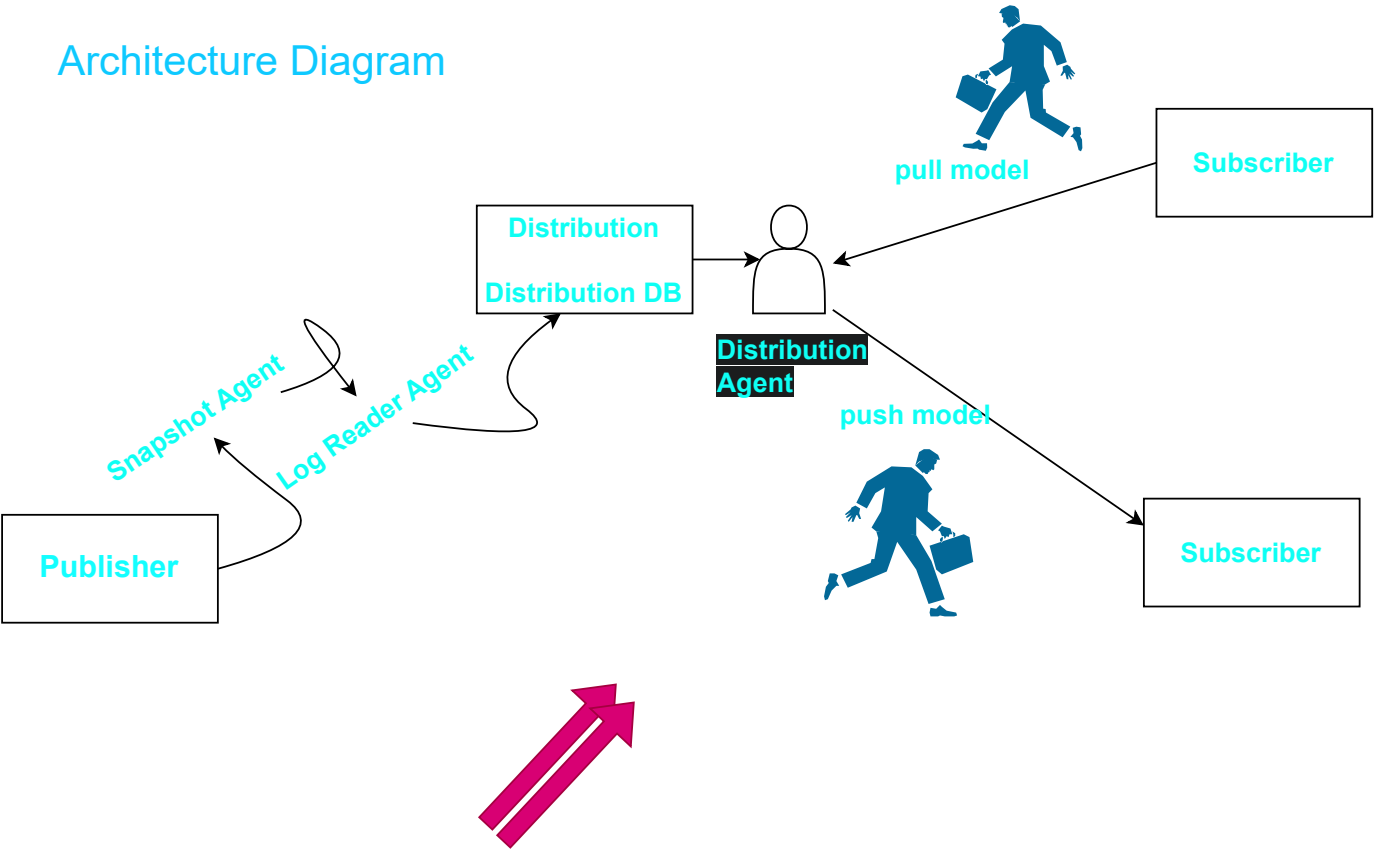
This allows changes at both publisher and subscriber, then merges changes

When to use it

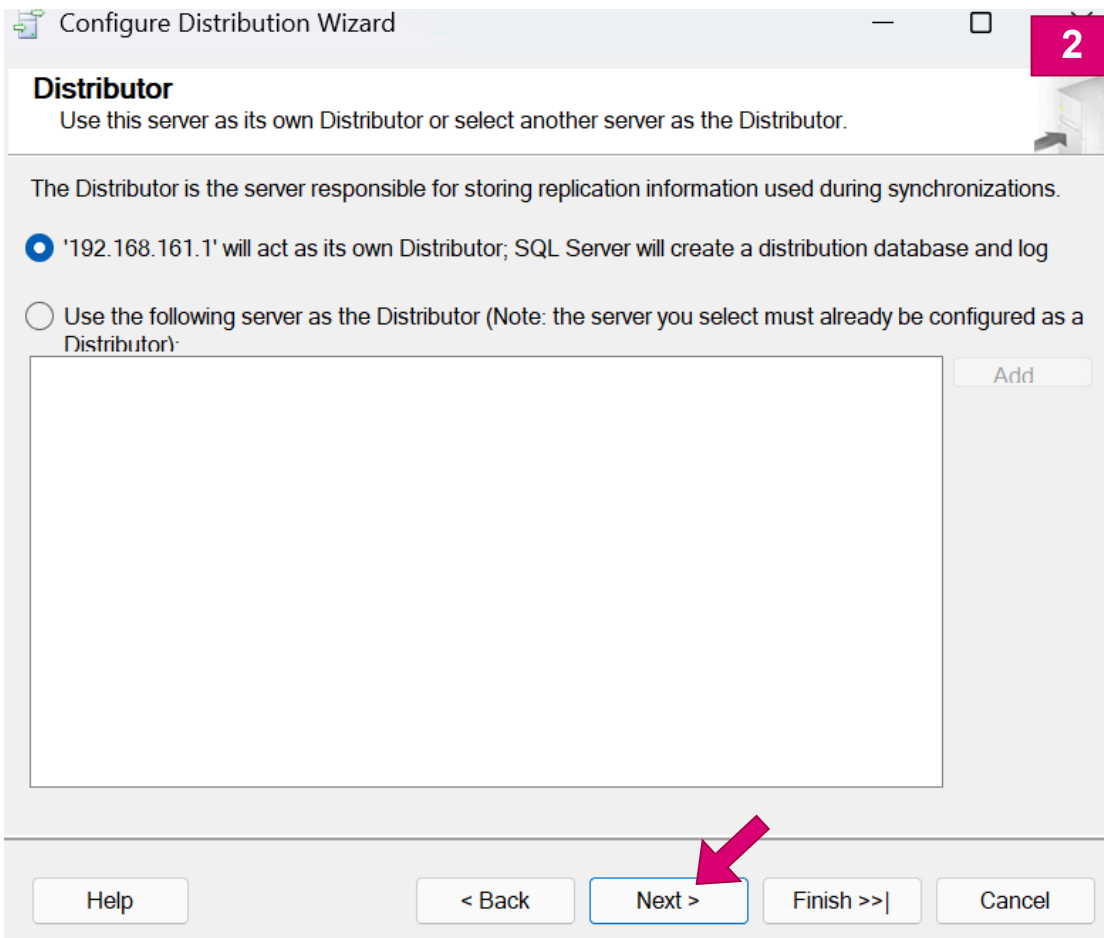
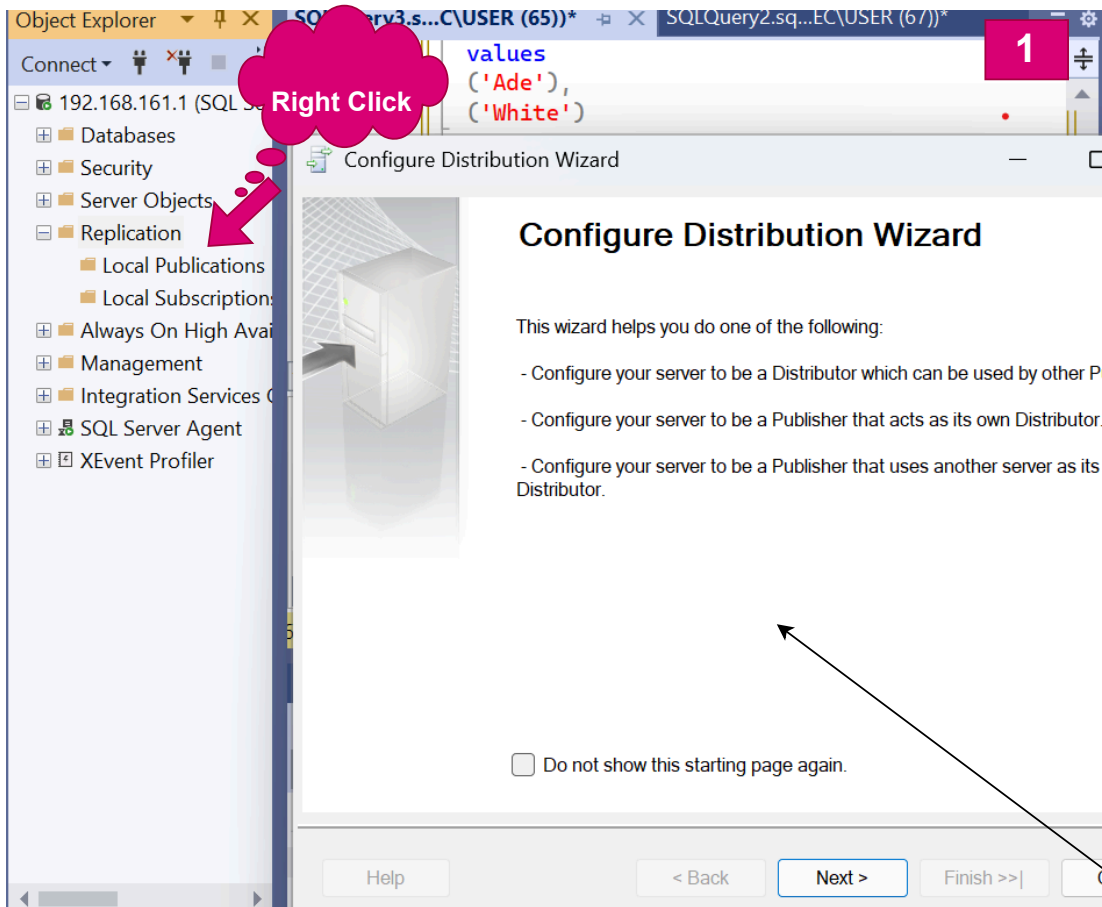
supports bidirectional changes,  
good for  
mobiles scenerios

. Most complex to manage

Architecture Diagram



Right Click







Configure Distribution Wizard

### Publishers

Enable servers to use this Distributor when they become Publishers.

Publishers:

Publisher ▲	Distribution Database
<input checked="" type="checkbox"/> 192.168.161.1	distribution_for_DoMoreWithDataDB

Add ▼

Help < Back Next > Finish >>| Cancel

Choose the  
server name

Mark this

Configure Distribution Wizard

### Wizard Actions

Choose what happens when you click Finish

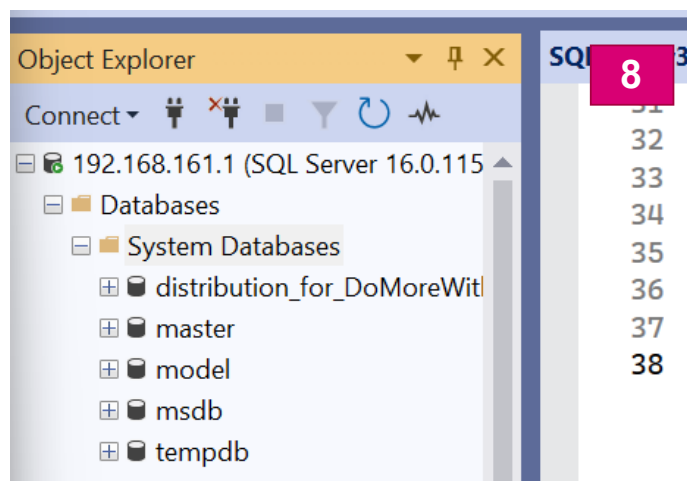
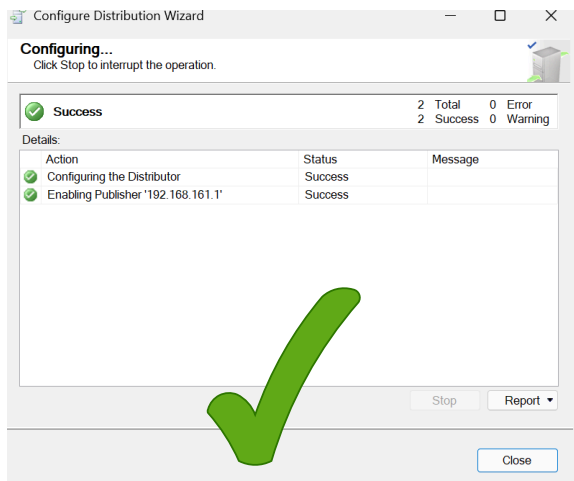
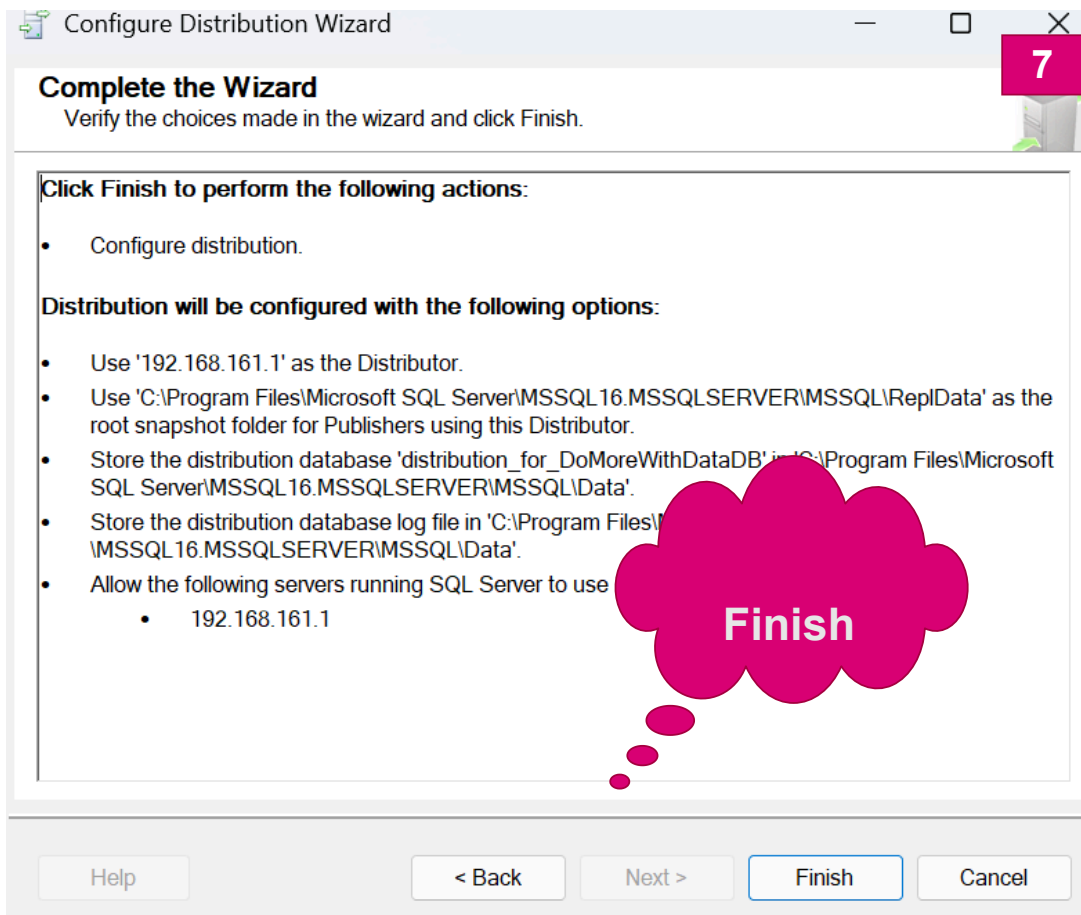
At the end of the wizard:

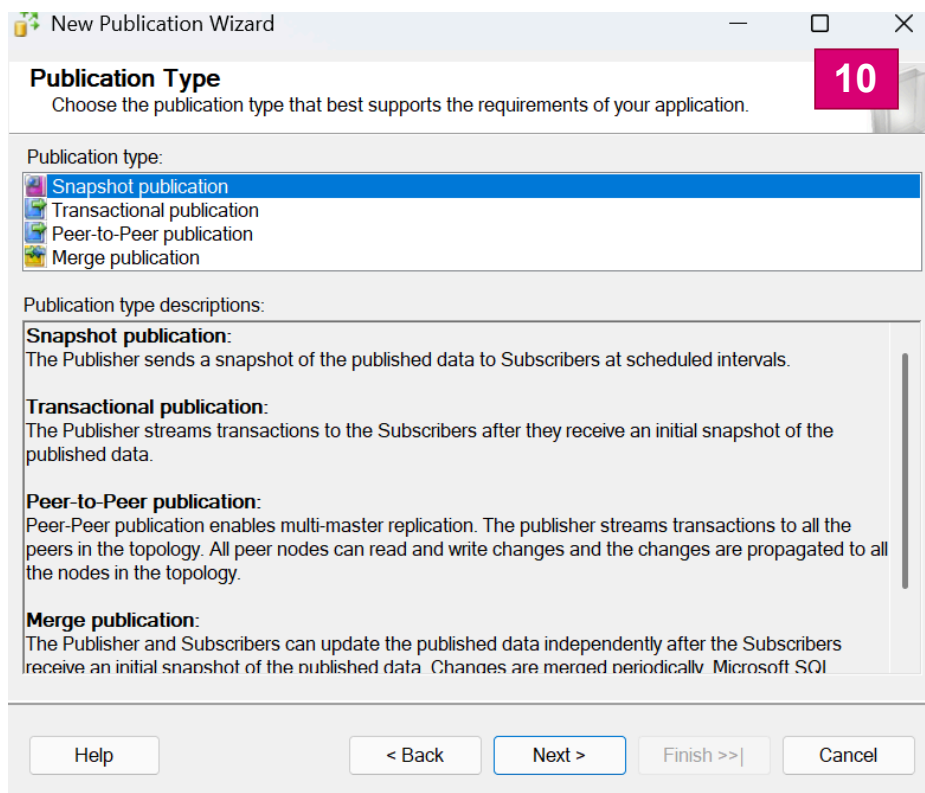
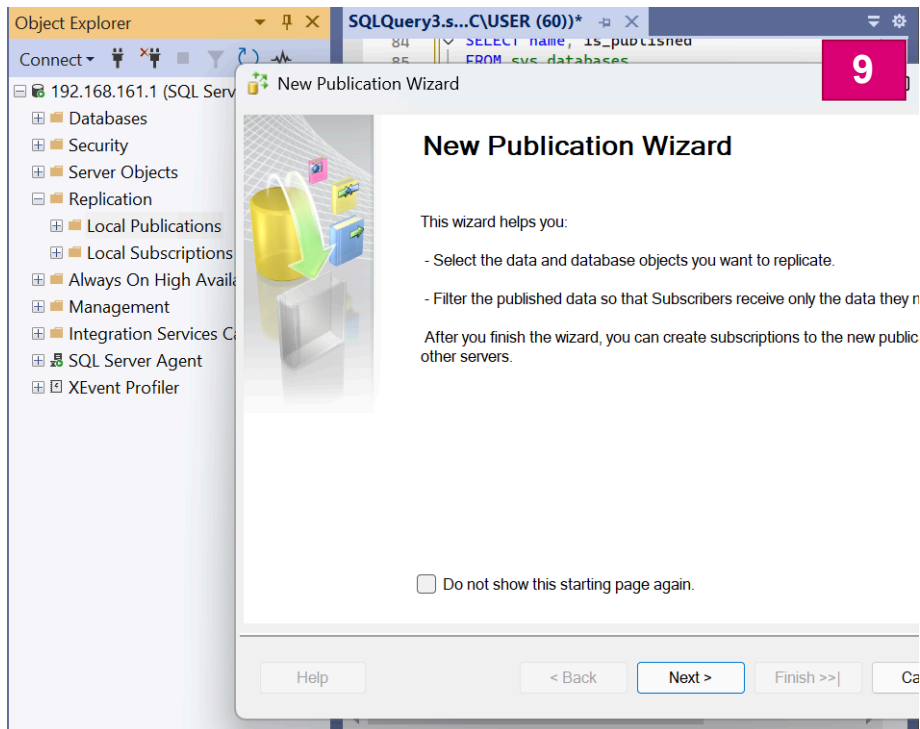
☒ Configure distribution

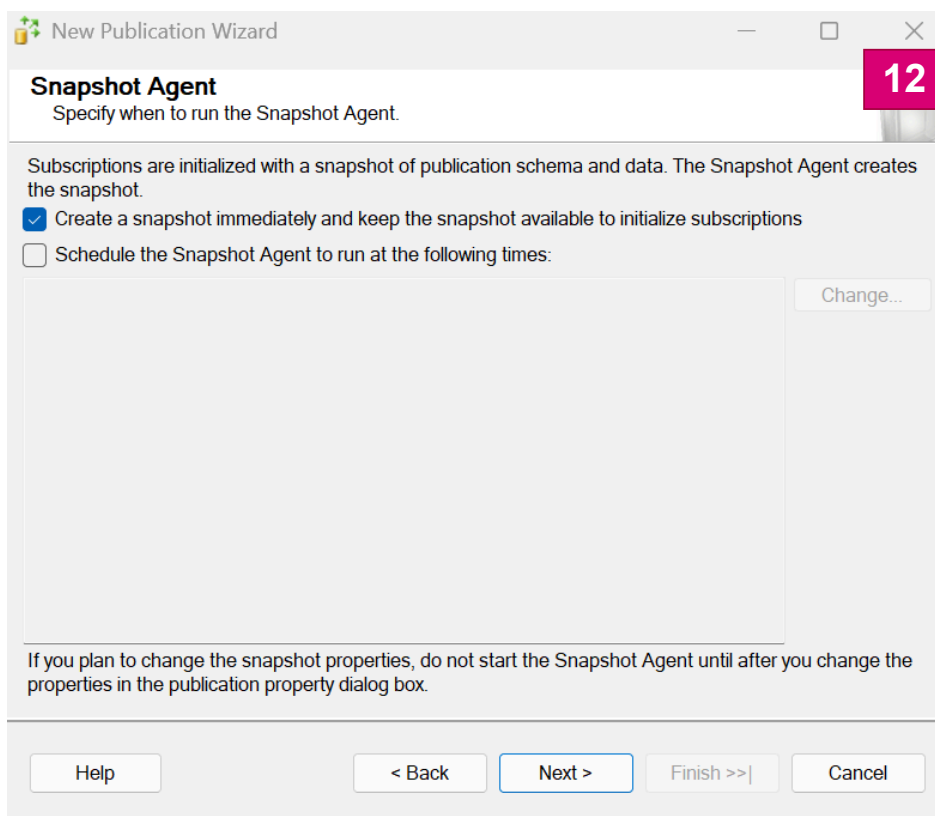
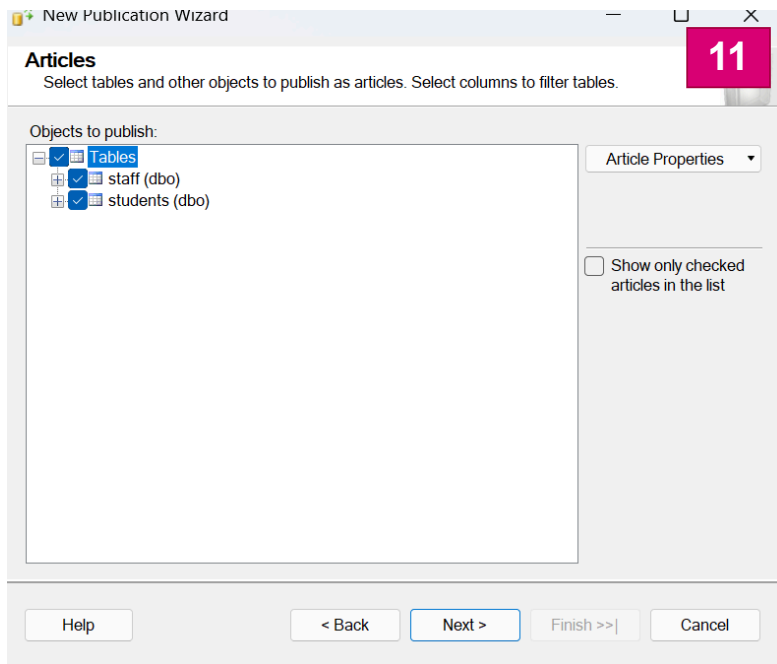
☐ Generate a script file with steps to configure distribution

Help < Back Next > Finish >>| Cancel

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## New Publication Wizard



### Agent Security

For each agent, specify the account under which it will run and its connection settings.

Snapshot Agent:

Security Settings



## New Publication Wizard



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### Complete the Wizard

Verify the choices made in the wizard and click Finish.

Publication name: DoMoreWithDataDB

Click Finish to perform the following actions:

- Create the publication.

#### A publication will be created with the following options:

- Create a snapshot publication from database 'DoMoreWithDataDB'.
- The Snapshot Agent process will run under the 'SQL Server Agent service' account.
- The publication compatibility level will support Subscribers that are servers running SQL Server 2008 or later.
- Publish the following tables as articles:
  - 'staff'
  - 'students'
- Create a snapshot of this publication immediately after the publication is created.

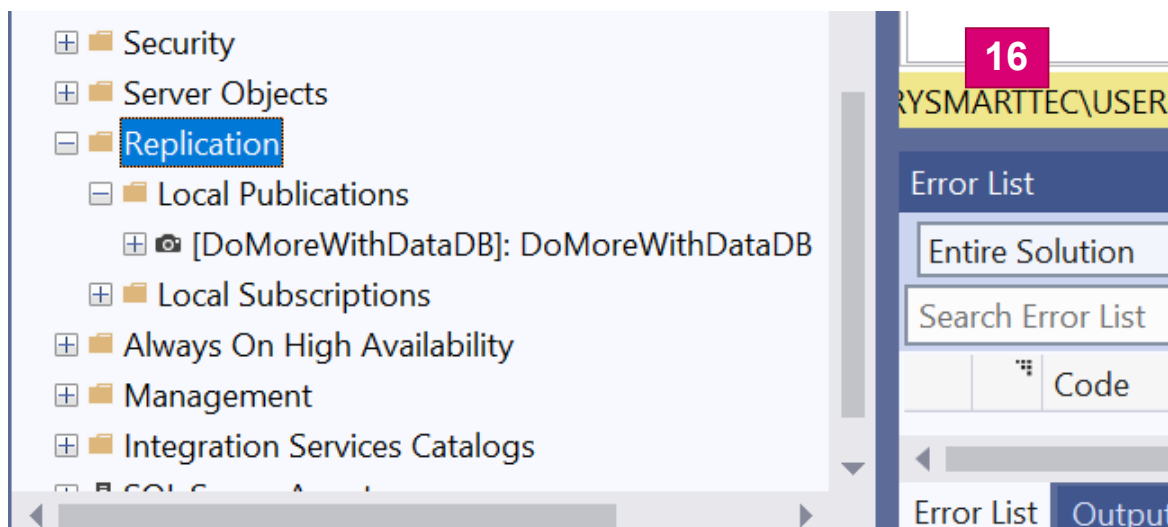
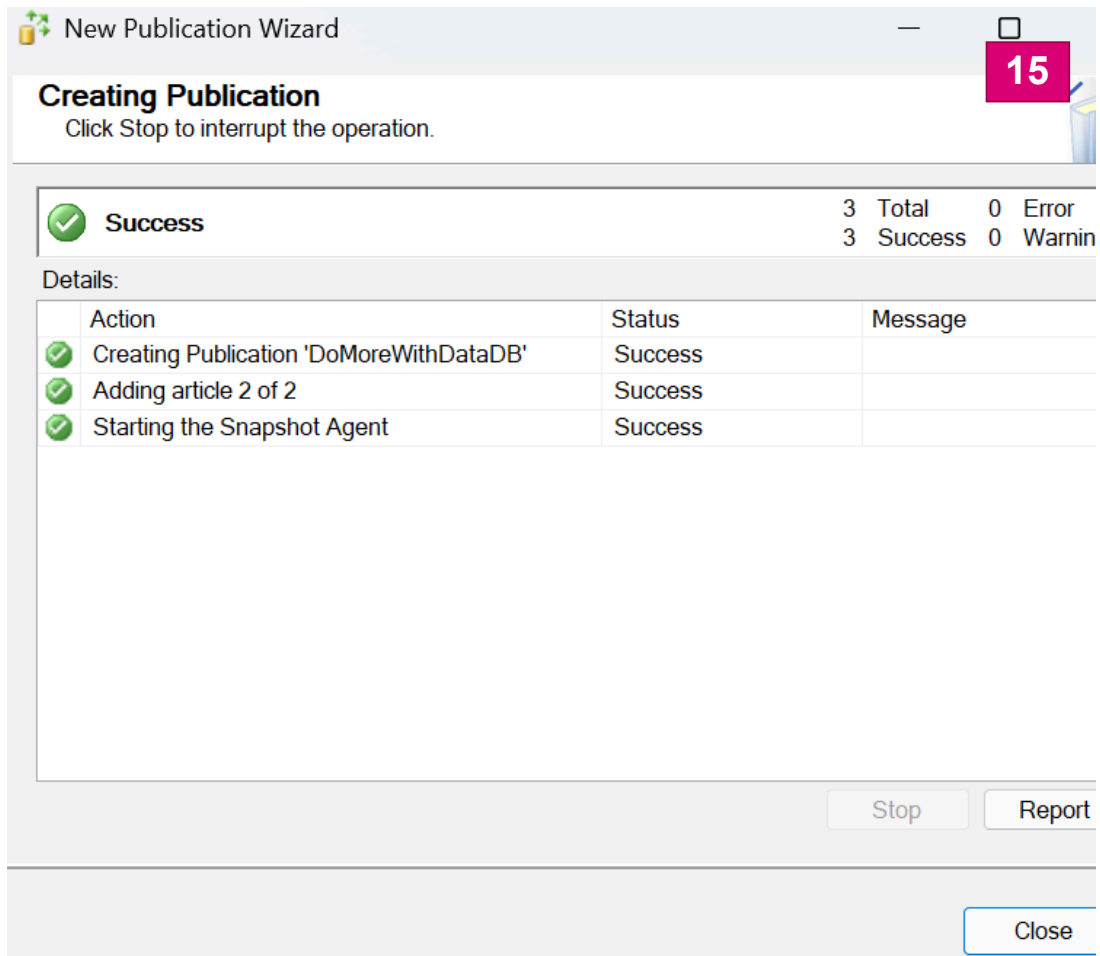
Help

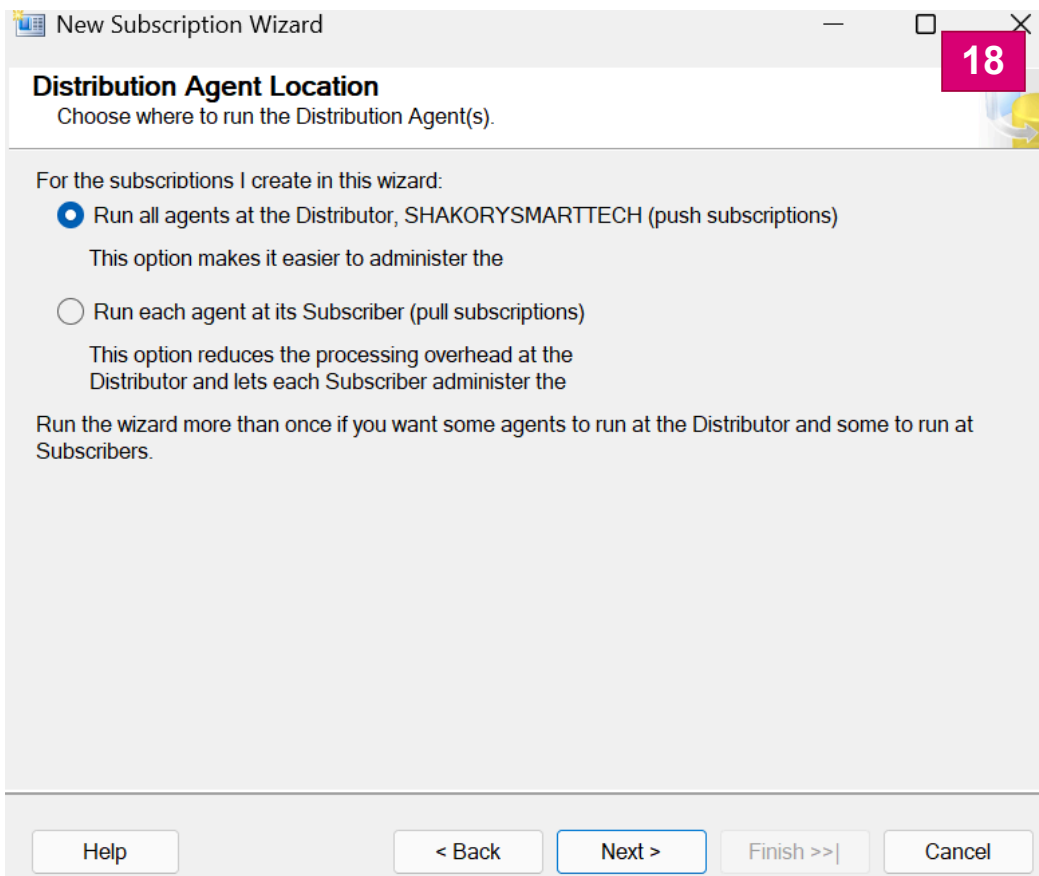
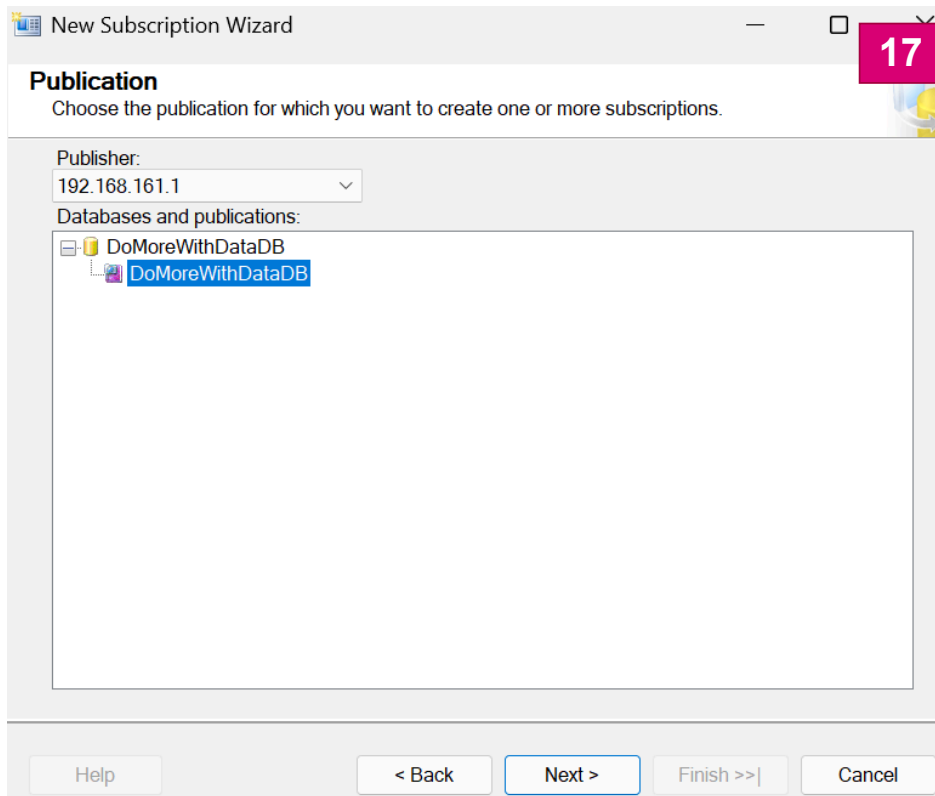
< Back

Next >

Finish

Cancel





New Subscription Wizard

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Subscribers

Choose one or more Subscribers and specify each subscription database.

Subscribers and subscription databases:

Subscriber ▲	Subscription Database
<input type="checkbox"/> 192.168.161.1	
<input checked="" type="checkbox"/> SHAKORYSMARTTEC	DomoreWithDataDB_Replica

Add Subscriber ▼

Help

< Back

Next >

Finish >>

Cancel

New Subscription Wizard

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Creating Subscription(s)...

Click Stop to interrupt the operation.

✓ Success

2 Total 0 Error  
2 Success 0 Warning

Details:

Action	Status	Message
✓ Creating subscription for 'SHAKORYSMARTT...	Success	
✓ Starting the Snapshot Agent	Success	

Stop

Report ▼

Close

Integration Services Catalogs



View Snapshot Agent Status - DoMoreWithDataDB

Agent type:Snapshot Agent

Publication:DoMoreWithDataDB

Publication database:[DoMoreWithDataDB]

Duration:00:01:02

Status:

✓

[100%] A snapshot of 2 article(s) was generated.

The agent is not running.

Start

Stop

Monitor

Close

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192.168.161.1 (16.0 RTM)

SHAKORYSMARTTEC\USER (69)

mac