I understand your concern about the migration process taking too long if you manually script and generate snapshots for each publisher. You can automate the process of scripting out all the publishers and configuring replication using PowerShell and the SQL Server Management Objects (SMO) library.

First, make sure you have installed the SQL Server module for PowerShell by running the following command in an elevated PowerShell session:

Install-Module -Name SqlServer

Next, use the following script as a starting point to script out all the publishers and configure replication:

# Import the SQL Server module

Import-Module SqlServer

# Define your source and target SQL Server instances

$sourceInstance = "SourceServer\Instance"

$targetInstance = "TargetServer\Instance"

# Load the SMO assembly

[System.Reflection.Assembly]::LoadWithPartialName("Microsoft.SqlServer.Smo") | Out-Null

# Connect to the source and target SQL Server instances

$sourceServer = New-Object Microsoft.SqlServer.Management.Smo.Server($sourceInstance)

$targetServer = New-Object Microsoft.SqlServer.Management.Smo.Server($targetInstance)

# Get all the replication publishers on the source instance

$publishers = $sourceServer.Replication.Publishers

# Iterate through all the publishers

foreach ($publisher in $publishers) {

# Generate the script for the publisher

$scriptOptions = [Microsoft.SqlServer.Management.Smo.ScriptingOptions]::new()

$scriptOptions.ScriptDrops = $false

$scriptOptions.IncludeIfNotExists = $true

$publisherScript = $publisher.Script($scriptOptions)

# Execute the generated script on the target instance

$targetServer.ConnectionContext.ExecuteNonQuery($publisherScript)

# Configure the replication properties (if needed) and create the snapshot

$newPublisher = $targetServer.Replication.Publishers[$publisher.Name]

# Set any specific properties, such as the snapshot folder

# $newPublisher.SnapshotDirectory = "C:\NewSnapshotDirectory"

$newPublisher.GenerateSnapshot()

}

# Optionally, configure distribution and other replication components, such as subscribers and agents

This script connects to both the source and target SQL Server instances, retrieves all the publishers from the source instance, generates scripts for each publisher, creates them on the target instance, and generates snapshots. You can modify this script to include additional configuration if needed.

Keep in mind that this is just a starting point and you may need to adjust the script according to your environment and specific requirements. Always test the script in a non-production environment before running it in production.