How to Setup SQL Server Replication

Introduction

This document describes a scenario how to setup the Transactional SQL Server Replication. Before we proceed for Replication setup you can read brief note about “Understanding of Replication”

http://www.varindersandhu.in/2011/05/14/understanding-of-replication/

Here we will setup the Transactional SQL Server Replication between SQL Server 2000 and SQL Server 2008R2.

Pre-requisite

- SQL Server 2000
- SQL Server 2008R2

This document describes below points

- Configure the SQL Server Agent
- Setup and configure a SQL Server 2000 as a main Publisher/Distributor
- Setup and configure the Publication on SQL Server 2000
- Setup and configure Subscription on SQL 2008R2

Configure the SQL Server Agent

Make Sure SQL Server Agent is running
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Right click My Computer -> Manage... -> Choose from the tree at the left: “Services and Applications” -> “Services”

By default the SQL Server Agent runs under the local System account, but for SQL Server Replication to work this must be changed to a specific created user account that has all the necessary rights to run as a service.

Preferably, the user that is assigned to the Agent is a domain user that is known both at the client systems and the publishing database server.

By default the main registration within SQL Server enterprise manager is called “local”. On the main publishing server this must be changed to a qualified address or name to have SQL Server replication working as above.
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Setup and configure a SQL Server 2000 as a main Publisher/Distributor

Click on the Configuring Publishing, subscribes and Distribution option then the Configuring Publishing and Distribution Wizard starts up.

![Welcome to the Configure Publishing and Distribution Wizard]

With this wizard, you will:

- Specify [server name] as a Distributor.
- Configure the properties of [slug] as a Distributor (optional).
- Configure the properties of [slug] as a Publisher (optional).

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Specify the UNC (Universal Naming Convention) path
Select “No” - accepting default settings - and press next.
Successfully enabled…” message should appear.

Notification that a “replication object” has been added to the console tree for this server in SQL Server Enterprise Manager

Close this screen and the following SQL Server properties screen.

Now you can see the Publisher in SQL Server Enterprise Manager
Setup and configure the Publication on SQL Server 2000

Now that we have configured a SQL Server as a main publishing server, we have to create a publication of databases which the clients can subscribe.

Click on New Publication

“Create Publication Wizard” starts, check the “Show advanced options in this Wizard” checkbox and press “Next”
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After please select your database and press “Next”

In the “Select Publication Type” screen select “Transactional publication” (second option) en press “Next”
On the “Specify Articles” Screen check all the checkboxes on the left, selecting all tables, and views as articles and press “Next”
Warning screen appears
Give the publication a name... Press “Next”
Customize the properties of this publication, select “Yes” and press “Next”.
In the “filter data” screen we leave both specific record or column filtering should be applied on the replication data.
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In the “Allow Anonymous Subscriptions” choose “Yes” and press “Next”.

The “Set Snapshot Agent Schedule” screen defines a schedule how often and when initial snapshots (initial copies of the main database) should be created in the replication file share.
Check “Create the first Snapshot immediately” and press “Next”

Wait for the publication process to finish.
Setup and configure Subscription on SQL Server 2008R2

New Subscription wizard as below

New Subscription Wizard

This wizard helps you:

- Create one or more subscriptions to a publication
- Specify where and when to run the agents that synchronize the subscription

Do not show this starting page again.
Select the publication and then press “Next”

Next you have choose the subscriber and subscription database
Here we are choosing the Push subscription

Select Push subscription (First one) then press “Next”
Select Agent Schedule “Run Continuously” then press “Next”
Initialize Subscriptions

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

Subscription properties:

<table>
<thead>
<tr>
<th>Subscriber</th>
<th>Initialize</th>
<th>Initialize When</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>At first synchronization</td>
</tr>
</tbody>
</table>

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.

Select Initialize when as “At first Synchronization”
Select option “Create the subscription”
Wait for the subscription process to finish.

Finally subscriber has been created.