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| NCRWMS |
|  |
| Warehouse Management System |
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**Revision History**

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# About this document

This document briefs you about the data archival strategy for RWMS.

## Intended Audiences

The intended audiences for this document are as follows:

RWMS DBA

## Current Scenario and Requirements

The amount of data determines the speed of query execution. With increasing amount of data, it becomes imperative to prune and maintain a small subset of data which will culminate in faster execution times for queries running against the RWMS database. The existing mechanism of archival and purging is outdated, clumsy and difficult to maintain. Thus there is a need to create a better strategy for maintaining a small subset of only required data for queries to run against.

## Prerequisites:

The user should have administrator access to the RWMS production database.

## Description :

The amount of data determines the speed of query execution. With increasing amount of data, it becomes imperative to prune and maintain a small subset of data which will culminate in faster execution times for queries running against the RWMS database. The existing mechanism of archival and purging is outdated, clumsy and difficult to maintain. The revamped archival and purging strategy is easy to maintain and allows easy tweak for configuration settings like retention period, job type and log level.

## Installation and Configuration :

The following items need to be in place for successful installation/implementation of Archival and Purging.

1. SQL Server 2008 Standard/Enterprise Edition on both Source and Target machines

>> Run the command on both machines and verify if they are same.

SELECT @@version;

2. Both Source and Target machines should be on the same domain

>> Run the command on both machines and verify if they are same.

SELECT DEFAULT\_DOMAIN();

3. The Target machine should contain sufficient space to store the archive data.

>> Run the command at the Target

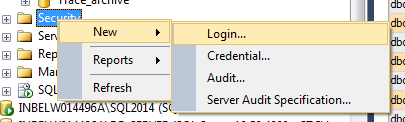
EXEC master..xp\_fixeddrives;

From the result, make sure the drive on which the archive database resides has sufficient storage space to grow.

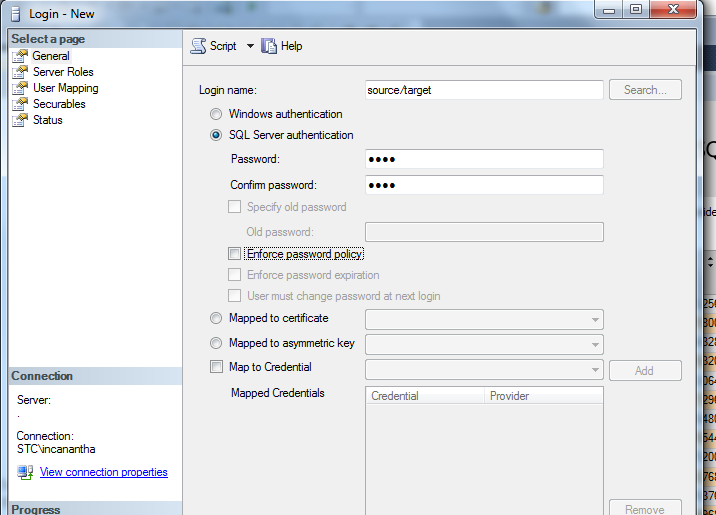
4. An identical SQL Server domain account login should exist on both Source and Target machines with

the db\_owner database role on the RWMS and RWMS\_SYS databases.

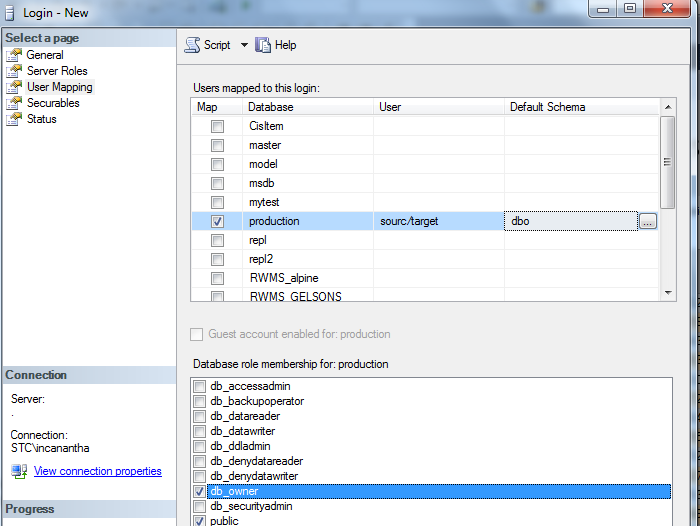
1.Right click on security tab-new-login



2.Use SQL authentication ,type the Loginname and password

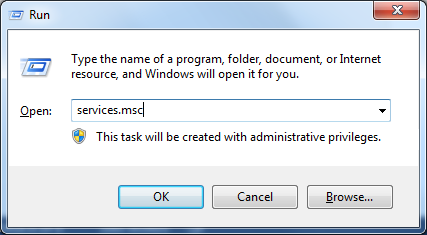


3.Go to User Mapping option and click on source/target db , provide the db\_owner permission by checking the membership option.

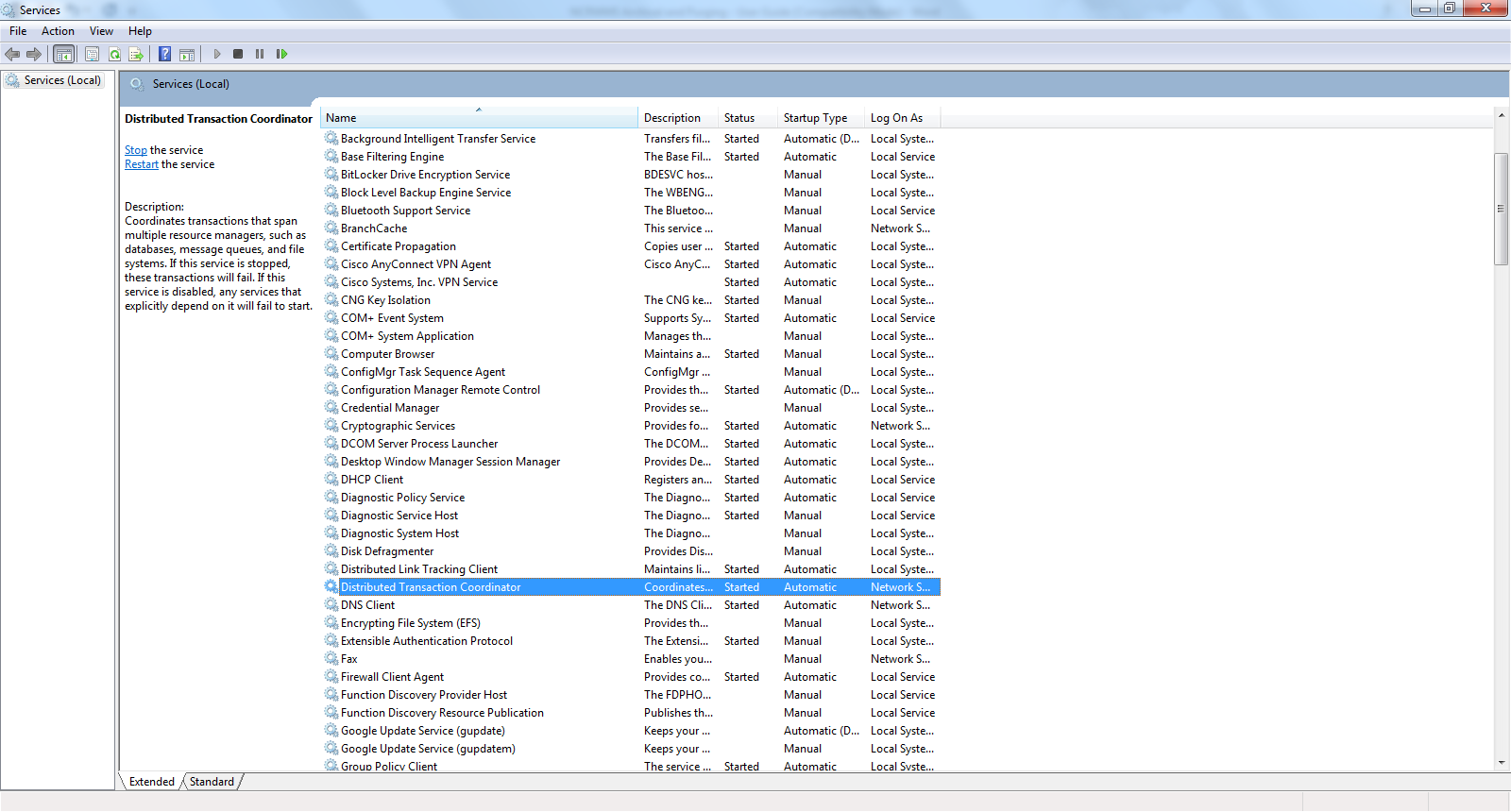


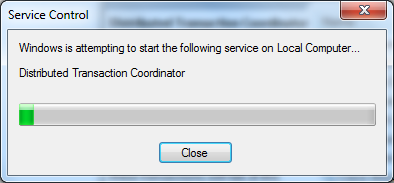
5. Distributed Transaction Coordinator (MSTDC) must be up and running on both Source and Target machines.

1. Go to the Run wizard and type, "services.msc"

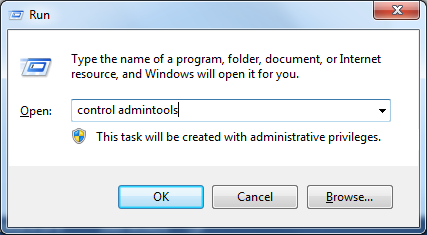


1. Click on "Distribution Transaction Coordinator" -> Start, if the service is stopped.

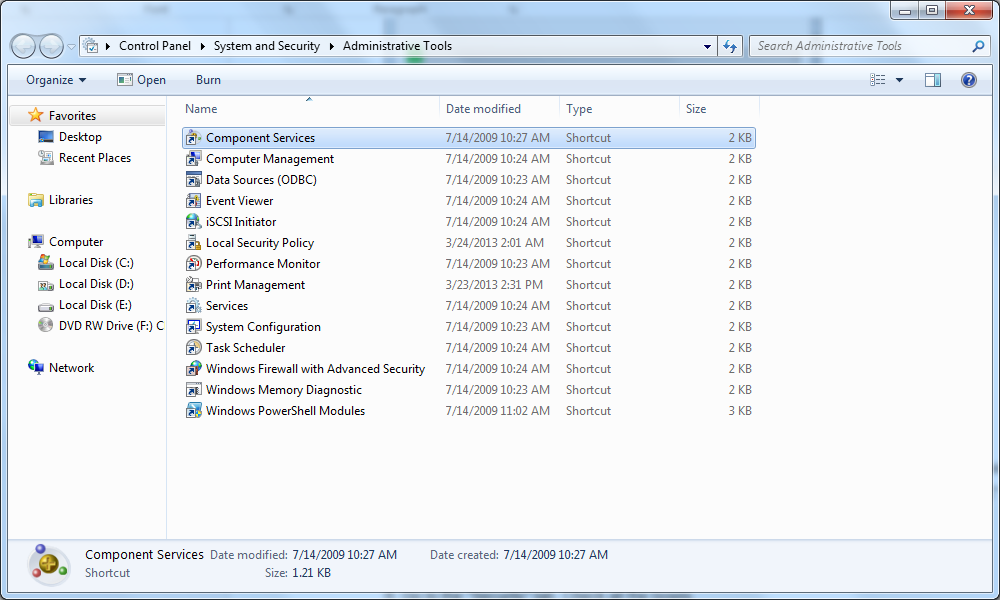


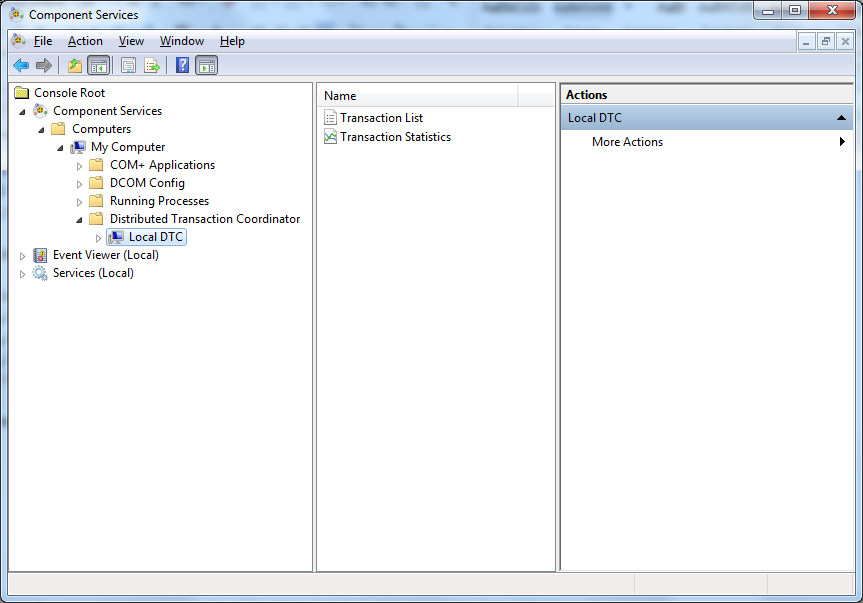


1. Go to the Run wizard and type, "control admintools"

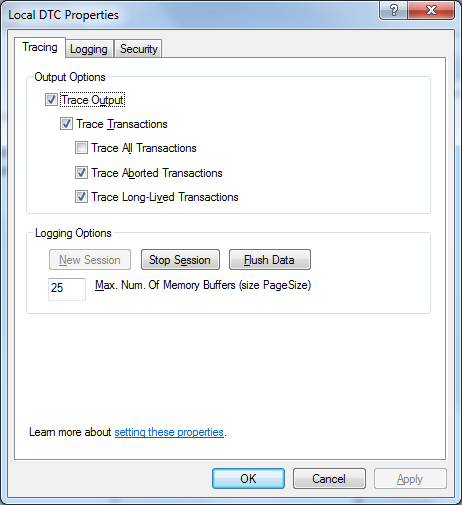


1. Double-click on "Component Services". Scroll down to Console Root -> Component Services -> Computers -> My Computer -> Distributed Transaction Coordinator. Select "Local DTC".

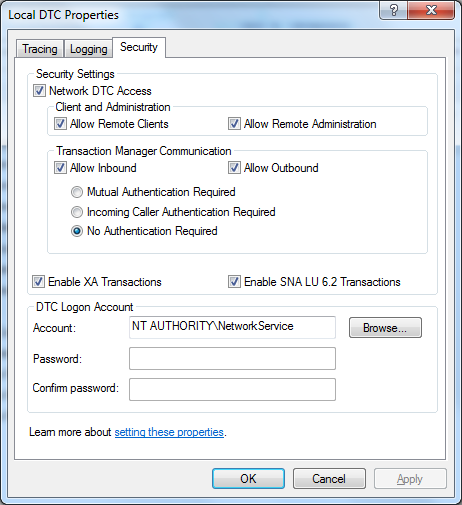




1. Right click on "Local DTC". Select "Properties"



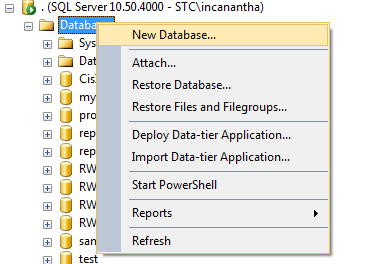
1. Go to the "Security" tab. Check all the boxes.

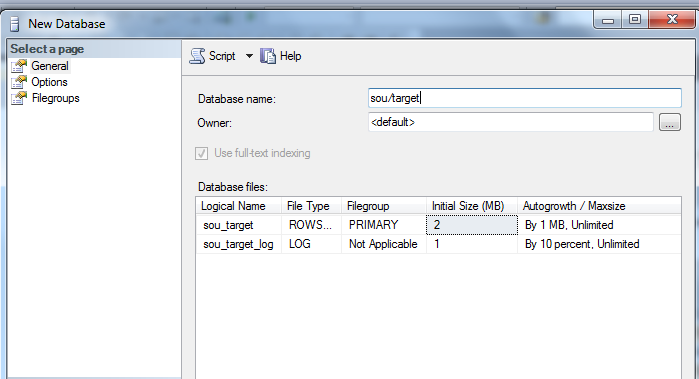


7. Select "No Authentication Required" radio button.

8. Make sure the DTC logon account runs under “NetworkService”.

6. The Target machine should contain an identical but empty RWMS database structure of the Source machine.





7. The SQL Server Agent service should be up and running on the Source machine. It is recommended to have a domain login account run the service.

## Managing Retention Period:

The retention period for individual tables can be tweaked to decrease/increase the number of days through the RWMS\_ARCHIVAL\_DETAIL table.

For example, to update the default retention period of 31 days to 99 days for a particular table, run the below command in SQL Server Management Studio.

Command :

UPDATE RWMS\_SYS.dbo.RWMS\_ARCHIVAL\_DETAIL SET retention\_period = 99 WHERE [PREFIX\_CODE] = 'AUDIT';

## Managing Job Type:

Also, the job type ( A - Archival, P - Purging , B - Both ) can tweaked as well. See the example below.

Command :

UPDATE RWMS\_SYS.dbo.RWMS\_ARCHIVAL\_DETAIL SET JOB\_TYPE = 'A' WHERE [PREFIX\_CODE] = 'AUDIT';

## Managing Log Level:

Similarly, the log level ( E - Error messages only , M - All informational, debug and error messages , D - Debug messages only ) can be tweaked at the table level as well. See below.

Command :

UPDATE RWMS\_SYS.dbo.RWMS\_ARCHIVAL\_DETAIL SET LOGLEVEL = 'D' WHERE [PREFIX\_CODE] = 'AUDIT';