Moving INOW Database from SQL Server to another SQL Server Machine

Best Practices

Version: 7.3.x

Written by: Product Knowledge, R&D
Date: June 2019

Hyland

© 2015-2019 Hyland Software, Inc. and its affiliates.

Table of Contents

Moving the INOW Database from SQL Server to another SQL Server Machine 4

Prepare to move the database 4

Identify the INOW database files and their location 4

Detach the INOW database 5

Copy and attach the INOW database files to the new location 5

Configure the standard database options 6

Create the database login information 7

Map the logins to the users 8

Update the INOW database statistics 9

Create the SQL Server Maintenance Plans 9

Update the ODBC Perceptive Content data source 9

Start the Perceptive Content application and services 9

Moving the INOW Database from SQL Server to another SQL Server Machine

You can move a SQL Server database from one machine to another using several different methods. For example, you can restore a database from a backup. This document uses Microsoft SQL Server 2008 as the basis for these instructions.

This document explains how to move the INOW database using the detach-and-attach process. You can only complete the move action on an SQL Server database. You might need to modify the commands provided in the following sections to reflect the current environment and file locations.

Prepare to move the database

Complete the following steps before starting the process to move the SQL Server database.

1. Install Microsoft SQL Server on the new server machine.
2. Ensure that you have system administrator (sa) level access to the new database.
3. Stop all Perceptive Content applications and services.
4. Complete a full back up of your INOW database.

Identify the INOW database files and their location

The following command lists all of the files associated with the INOW database. The following steps explain how to identify the database files.

1. In SQL Server Management Studio, on the toolbar, click **New Query**.
2. Copy and paste the following command in the **Query** tab.

```
USE INOW
GO
select name, physical_name from sys.database_files;
```

3. On the toolbar, click **Execute**.
4. In the **Results** tab, note the file names and locations so you can manually copy the files to a new location. Refer to the **Copy and attach the INOW database files to the new location** section for additional information about copying the files.

Detach the INOW database

The following command puts the INOW database in SINGLE_USER mode. The system stops, rolls back, and then disconnects any other connections to the database in order to successfully complete the detach command.

1. In SQL Server Management Studio, on the toolbar, click New Query.
2. Copy and paste the following command set in the **Query** tab.

```
USE master
GO
ALTER DATABASE INOW SET  SINGLE_USER WITH ROLLBACK IMMEDIATE
GO

USE master
GO

EXEC master.dbo.sp_detach_db @dbname = N'INOW', @skipchecks = 'false'
GO
```

3. On the toolbar, click **Execute**.

Copy and attach the INOW database files to the new location

We recommend copying files instead of moving them so that you retain the original files. The following steps explain how to copy the files that you identified in the Identify the INOW database files in an earlier section of this document.

1. Manually copy all of the INOW database files.
2. Place all the files at the new location.
3. Adjust the path for each FILENAME to reflect its new current location.
4. If you have added files to your database, add those additional files to the command listed below.

   Note The query you performed to identify the database files listed all the files you should have copied to the new location and need to include in the command.

5. In **SQL Server Management Studio**, on the toolbar, click New Query.
6. Copy and paste the following command set in the **Query** tab.

```
USE master
GO
CREATE DATABASE INOW ON
( FILENAME = N'E:\MSSQL\DATA\INOW.mdf' ),
( FILENAME = N'E:\MSSQL\DATA\INOW.ldf' ),
( FILENAME = N'E:\MSSQL\DATA\INOW.ndf' )
 FOR ATTACH
GO
```

7. On the toolbar, click **Execute**.
8. To view the newly attached INOW database in the list, refresh the list of databases.

Configure the standard database options

The following steps explain how to set all of the standard options for the INOW database.

1. In **SQL Server Management Studio**, on the toolbar, click New Query.
2. Copy and paste the following command set in the **Query** tab.

```
ALTER DATABASE INOW SET ANSI_NULL_DEFAULT OFF
GO

ALTER DATABASE INOW SET ANSI_NULLS OFF
GO

ALTER DATABASE INOW SET ANSI_PADDING OFF
GO

ALTER DATABASE INOW SET ANSI_WARNINGS OFF
GO

ALTER DATABASE INOW SET ARITHABORT OFF
GO

ALTER DATABASE INOW SET AUTO_CLOSE OFF
GO

ALTER DATABASE INOW SET AUTO_CREATE_STATISTICS ON
GO

ALTER DATABASE INOW SET AUTO_SHRINK OFF
GO

ALTER DATABASE INOW SET AUTO_UPDATE_STATISTICS ON
GO

ALTER DATABASE INOW SET AUTO_UPDATE_STATISTICS_ASYNC OFF
GO

ALTER DATABASE INOW SET CURSOR_CLOSE_ON_COMMIT OFF
GO

ALTER DATABASE INOW SET CURSOR_DEFAULT  GLOBAL
GO

ALTER DATABASE INOW SET CONCAT_NULL_YIELDS_NULL OFF
GO

ALTER DATABASE INOW SET NUMERIC_ROUNDABORT OFF
GO

ALTER DATABASE INOW SET QUOTED_IDENTIFIER OFF
GO

ALTER DATABASE INOW SET RECURSIVE_TRIGGERS OFF
GO

ALTER DATABASE INOW SET DATE_CORRELATION_OPTIMIZATION OFF
GO

ALTER DATABASE INOW SET TRUSTWORTHY OFF
```

```
GO

ALTER DATABASE INOW SET ALLOW_SNAPSHOT_ISOLATION ON
GO

ALTER DATABASE INOW SET READ_COMMITTED_SNAPSHOT ON
GO

ALTER DATABASE INOW SET PARAMETERIZATION SIMPLE
GO

ALTER DATABASE INOW SET READ_WRITE
GO

ALTER DATABASE INOW SET RECOVERY FULL
GO

ALTER DATABASE INOW SET MULTI_USER
GO

ALTER DATABASE INOW SET PAGE_VERIFY CHECKSUM
GO

ALTER DATABASE INOW SET DB_CHAINING OFF
GO
```

3. On the toolbar, click **Execute**.

Create the database login information

The system creates three standard logins and users with the INOW database. The application uses the INUSER account as the primary account. This procedures shows you how to adjust the passwords accordingly based on your security requirements.

Note: If you change the inuser password from what it was previously, you must also update the encrypted password in the inow.ini file on the Perceptive Content Server machine.

1. In **SQL Server Management Studio**, on the toolbar, click New Query.
2. Copy and paste the following command in the **Query** tab.

```
USE INOW
GO

CREATE LOGIN inuser WITH PASSWORD = 'imagenow', DEFAULT_DATABASE = INOW,
CHECK_POLICY = OFF
GO

EXEC sp_grantdbaccess 'inuser', 'inuser'
GO

EXEC sp_addrolemember 'db_owner', 'inuser'
GO

CREATE LOGIN reports WITH PASSWORD = 'imagenow', DEFAULT_DATABASE = INOW,
CHECK_POLICY = OFF
GO

EXEC sp_grantdbaccess 'reports', 'reports'
GO
```

```
EXEC sp_addrolemember 'db_datareader', 'reports'
GO

CREATE LOGIN inemuser WITH PASSWORD='Externalmsg1', DEFAULT_DATABASE = INOW,
CHECK_POLICY = OFF
GO

CREATE USER inemuser FOR LOGIN inemuser
GO

ALTER USER inemuser WITH DEFAULT_SCHEMA=inuser
GO

USE MASTER
GO

GRANT VIEW SERVER STATE TO inuser
GO
```

3. On the toolbar, click **Execute**.

Map the logins to the users

The following steps explain how to map logins to the users in the database.

1. In **SQL Server Management Studio**, on the toolbar, click New Query.
2. Copy and paste the following command set in the **Query** tab.

```
USE INOW
GO

EXEC sp_change_users_login 'update_one', inuser, inuser;

EXEC sp_change_users_login 'update_one', inemuser, inemuser;

EXEC sp_change_users_login 'update_one', reports, reports;
```

3. On the toolbar, click **Execute**.

Update the INOW database statistics

The following steps explain how to update the statistics for the INOW database tables.

Note: During this process, the system performs a full scan of tables and indexes, so the time it takes to complete this action varies based on the size of the database.

1. Copy and paste the following command set in the **Query** tab.

```
USE INOW
GO

EXEC sp_MSforeachtable 'UPDATE STATISTICS ? WITH FULLSCAN'
GO
```

2. On the toolbar, click **Execute**.

Create the SQL Server Maintenance Plans

The following steps explain the overall process to create new backups of the INOW and system databases on the new server.

1. Manually create and execute the SQL Server Maintenance Plans.
2. Create maintenance plans to periodically rebuild indexes and gather statistics on the INOW database.
3. Schedule the maintenance plans to run at regular intervals.
4. Copy all backups to tape.

Update the ODBC Perceptive Content data source

The following steps explain how to update the ODBC Perceptive Content data source.

1. Update the ODBC Perceptive Content System Data Source on the Application Server to reflect the new Host Name and Port Number.
2. To ensure you can connect to the database using the INUSER account, perform a **Test Connect**.

Start the Perceptive Content application and services

Start all the Perceptive Content services and check the log files to make sure the system is not logging errors.