

Moving INOW6 Database from SQL Server to Another SQL Server Machine

Best Practices Guide

ImageNow Version: 6.7.x

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Moving the INOW6 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, restoring a database from a backup). This document uses Microsoft SQL Server, version 2008 as the basis for these instructions.

This document explains how to move the INOW6 database using the detach-and-attach process. You can only complete the move action on SQL Server database. You might need to modify the commands provided on the sections below 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 ImageNow applications and services.
4. Complete a full back up of your INOW6 database.

Identify the INOW6 database files and their location

The following command lists all of the files associated with the INOW6 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 INOW6
GO
select name, physical_name from sys.database_files;
```

3. On the toolbar, click **Execute**.
4. In the **Results** tab, make note of the files and locations of the files to manually copy the files to the new location in section “Copy and attach the INOW6 database files to the new location”, later in this document.

Detach the INOW6 database

The following command puts the INOW6 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 INOW6 SET SINGLE_USER WITH ROLLBACK IMMEDIATE
GO

USE master
GO

EXEC master.dbo.sp_detach_db @dbname = N'INOW6', @skipchecks = 'false'
GO
```

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

Copy and attach the INOW6 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 INOW6 database files” in an earlier section of this document.

1. Manually copy all of the INOW6 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 INOW6 ON
( FILENAME = N'E:\MSSQL\DATA\INOW6.mdf' ),
( FILENAME = N'E:\MSSQL\DATA\INOW6.ldf' ),
( FILENAME = N'E:\MSSQL\DATA\INOW6.ndf' )
FOR ATTACH
GO
```

7. On the toolbar, click **Execute**.
8. To view the newly attached INOW6 database in the list, refresh the list of databases.

Configure the standard database options

The following steps explain how set all of the standard options for the INOW6 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 INOW6 SET ANSI_NULL_DEFAULT OFF
GO

ALTER DATABASE INOW6 SET ANSI_NULLS OFF
GO

ALTER DATABASE INOW6 SET ANSI_PADDING OFF
GO

ALTER DATABASE INOW6 SET ANSI_WARNINGS OFF
GO

ALTER DATABASE INOW6 SET ARITHABORT OFF
GO

ALTER DATABASE INOW6 SET AUTO_CLOSE OFF
GO

ALTER DATABASE INOW6 SET AUTO_CREATE_STATISTICS ON
GO

ALTER DATABASE INOW6 SET AUTO_SHRINK OFF
GO

ALTER DATABASE INOW6 SET AUTO_UPDATE_STATISTICS ON
GO

ALTER DATABASE INOW6 SET AUTO_UPDATE_STATISTICS_ASYNC OFF
GO

ALTER DATABASE INOW6 SET CURSOR_CLOSE_ON_COMMIT OFF
GO

ALTER DATABASE INOW6 SET CURSOR_DEFAULT GLOBAL
GO

ALTER DATABASE INOW6 SET CONCAT_NULL_YIELDS_NULL OFF
GO

ALTER DATABASE INOW6 SET NUMERIC_ROUNDABORT OFF
GO
```

```
ALTER DATABASE INOW6 SET QUOTED_IDENTIFIER OFF
GO

ALTER DATABASE INOW6 SET RECURSIVE_TRIGGERS OFF
GO

ALTER DATABASE INOW6 SET DATE_CORRELATION_OPTIMIZATION OFF
GO

ALTER DATABASE INOW6 SET TRUSTWORTHY OFF
GO

ALTER DATABASE INOW6 SET ALLOW_SNAPSHOT_ISOLATION ON
GO

ALTER DATABASE INOW6 SET READ_COMMITTED_SNAPSHOT ON
GO

ALTER DATABASE INOW6 SET PARAMETERIZATION SIMPLE
GO

ALTER DATABASE INOW6 SET READ_WRITE
GO

ALTER DATABASE INOW6 SET RECOVERY FULL
GO

ALTER DATABASE INOW6 SET MULTI_USER
GO

ALTER DATABASE INOW6 SET PAGE_VERIFY CHECKSUM
GO

ALTER DATABASE INOW6 SET DB_CHAINING OFF
```

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

Create the database login information

The system creates three standard logins and users with the INOW6 database. The application uses the INUSER account as the primary account. This procedure 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 ImageNow 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 INOW6
GO
```

```
CREATE LOGIN inuser WITH PASSWORD = 'imagenow', DEFAULT_DATABASE = INOW6,
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 = INOW6,
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 = INOW6,
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 INOW6
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 INOW6 database statistics

The following steps explain how to update the statistics for the INOW6 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 to in the **Query** tab.

```
USE INOW6
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 on how to create new backups of the INOW6 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 INOW6 database.
3. Schedule the maintenance plans to run at regular intervals.
4. Copy all backups to tape.

Update the ODBC ImageNow 6 data source

The following steps explain how to update the ODBC ImageNow 6 data source.

1. Update the ODBC **ImageNow 6** 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 INUS ER account, perform a **Test Connect**.

Start the ImageNow application and services

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