

Server Synchronising

Windows Service

User Manual

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Problem Statement :

Schedule a Job in the administrator's system which will schedule a task of Information updating and mapping of all the server's at one place and the place it will be stored, the time as well the kind of information to be stored should be user managed.

Solution Presented:

A Windows Service is be created to tackle the problem. This service will use a “**config.ini**” file (having the information required for the work). This service will read it and do the tasks specified below :

1. Schedule a background job to read an XML file (Document Type Definition fixed).
2. The information fetched from the XML file will be in the form of records and each record will have a query to run whose output will go to a particular database table.
3. The database and the Server to which the database will belong should be defined in the **config.ini** file.

So, that's it. This will run the query in the SQL Server and map and update the specified database.

The Document later contains the Steps to follow in order to use the service correctly and successfully.

Steps to follow :-

1. First, copy the service software , lets say **LogService.exe** to a location on your system.
2. Then create a file named – “**config.ini**” on your desktop (without quotes).
3. Then open the config.ini file and write these information in it:-
 - Database_Name
 - XML_FileName
 - XML_FilePath
 - Server_Name
 - Time

Example :

```
Database_Name=Dev_Server
XML_FileName=Query Info.xml
XML_FilePath=C:\\Users\\sha38475\\Desktop\\Testing
Time=16:02
Time=3
Time=17:54
Time=17:56
Server_Name=inpddba027\\ngep
```

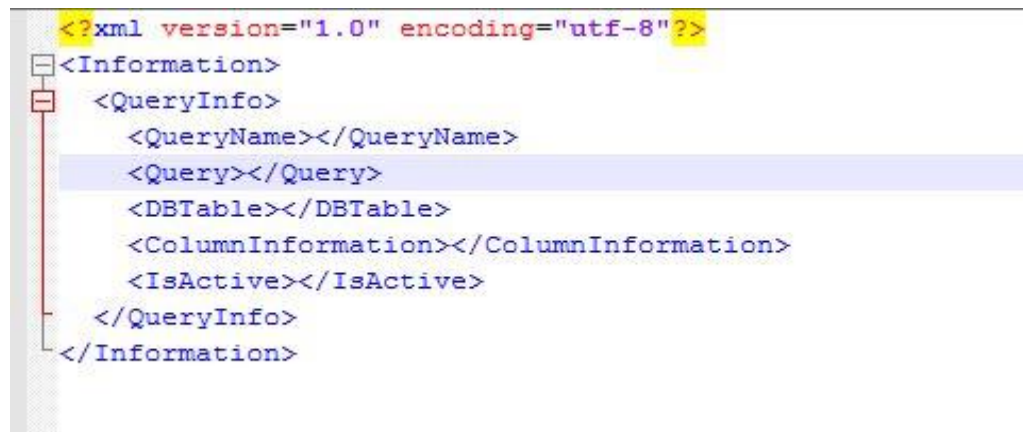
4. As you can see, “**Time**” can appear more than once. This is so as to fulfill the need to run the service more than once in a day. Also, the time specified in the file should in 24 Hour format. And most importantly, the way in which you are writing information should be like this only (Example : “Database_Name” cannot be written “Database Name” in the file).
5. Once the config.ini file is done, check if you have a path in environment variable for **InstallUtil.exe**. If not, then –
 - Open your C Drive\\Window\\Microsoft.Net\\Framework
 - Search for the file InstallUtil.exe
 - If not found, search on google.com “[InstallUtil.exe Not found](#)”
 - If found , then
 - copy its location path
 - Press the windows key and search “environment Variable”
 - Click on “Edit the system environment variables”
 - A dialog box will open. Click Yes.

- Then , in the system variables, search for “Path” variable and if found, then click on it and click on edit.Go to the end of the string,type a semi-colon and then paste the copied location.
- If no Path variable existed, click on new and give the name – **Path** and value as the copied location.

6. Once the above things configured, open the directory in which the LogService.exe is kept.
7. Open command Prompt in Administrator mode.
8. Go to that location of the LogService.exe in the Command Prompt.
9. Type this command : installutil.exe LogService.exe

where LogService.exe is the name of the service exe.

10. Once successfully installed, check whether the specified XML location has the XML file with records in this format :



11. Then, press (windows key + R) and type : services.msc
12. A dialog Box will open . Click Yes.
13. Once the window is opened, search for LogService.
14. Double click on it. A dialog box will open.
15. Click on the **Log On** tab
16. Click on **Browse**, click **Locations** , double click on **Entire Directory** and under that select **fdnet.com**
17. Enter your **User Id** in the “Object Name to select”
18. Click Ok
19. Then enter your password in both **Password** and **confirm password**
20. Click Apply and then OK.

Once these things done you can click on the name of the LogService in the services window and Click on **start** and stop whenever you want.

Steps to uninstall:

1. Open command prompt in Administrator mode and go to the location of the installed service
2. Once done , type : `installutil.exe /u LogService.exe`

This will uninstall the service from your system.

Achievements:

1. The task of updating and synchronizing information in different server's is now an automated process
2. It is really fast than the usual manual work.
3. It saves time of the user and the user can focus on other task while this is done.
4. Also, it creates a Report file to let know when the task was done and how much processing time it has taken.