



# **ABAK CREATE AN AUTOMATIC SQL BACKUP**

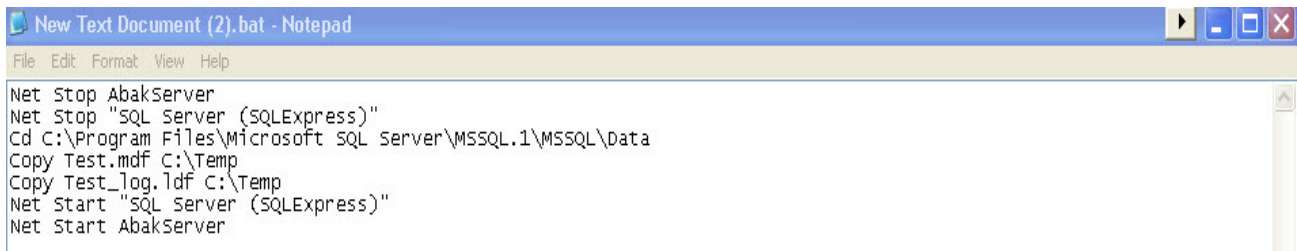


# PROCEDURES

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## 1.1 Copy of .mdf and .ldf files

- First of all, we must create a new text document. To do this, right-click on your desktop, choose new then text document.
- Double-click on that new file.
- Now, we must enter the following command lines :
  - Net Stop AbakServiceName
    - ex : Net Stop AbakServer
      - This command stop the Abak server. In the example, the name of the Abak Service is AbakServer.
  - Net Stop SQLServerServiceName
    - ex : Net Stop "SQL Server (SQLEXPRESS)"
      - This command stops the SQL server service. We do this operation so the database's files are not in used so we can copy them. In the example, the name that shows up in the services is SQL Server (SQL Express)
  - Cd FolderWhereTheDatals
    - ex : Cd C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data
      - With this command, we give the path where the data is located. In the example, they are in C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data.
  - Copy FileName Destination
    - ex : Copy Test.mdf C:\Temp
      - Here, we copy the file indicated with FileName to the destination given. In the example, we copy the file Test.mdf to the C:\Temp folder. Do not forget to do this for the .ldf too.
  - Net Start SQLServiceName
    - ex : Net Start "SQL Server (SQLEXPRESS)"
      - This command restart the SQL Server, so we can restart Abak server
  - Net Start AbakServiceName
    - ex : Net Start AbakServer
      - Finally, we restart Abak server service.
- Save this file and make sure the extension is ".bat"
  - ex : Backup.bat



```
Net Stop AbakServer
Net Stop "SQL Server (SQLEXPRESS)"
Cd C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data
Copy Test.mdf C:\Temp
Copy Test_log.ldf C:\Temp
Net Start "SQL server (SQLEXPRESS)"
Net Start AbakServer
```

- Now, you only have to double-click to launch the bat file. Tasks will be automated. However, if you do not want to start the procedure yourself, you can rely on the Windows Scheduled Tasks. Please note that the example has been made under Windows XP. For later versions, online help is always available.
- Click on Start, Programs, Accessories, System Tools, Scheduled tasks

- Double-click on Add Scheduled Task
- Follow the instructions on screen, and when you will have to select a program to launch, click on “browse” and select the file created earlier.
- Follow the instructions in order to plan when you want the backup to run.

```

C:\WINDOWS\system32\cmd.exe

C:\Backup>Net Stop AbakServer
The AbakServer service is stopping.
The AbakServer service was stopped successfully.

C:\Backup>Net Stop "SQL Server (SQLEXPRESS)"
The SQL Server (SQLEXPRESS) service is stopping.
The SQL Server (SQLEXPRESS) service was stopped successfully.

C:\Backup>Cd C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data
C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data>Copy Test.mdf C:\Temp
1 file(s) copied.

C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data>Copy Test_log.ldf C:\Temp
1 file(s) copied.

C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data>Net Start "SQL Server (SQLEXPRESS)"
The SQL Server (SQLEXPRESS) service is starting..
The SQL Server (SQLEXPRESS) service was started successfully.

C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data>Net Start AbakServer
The AbakServer service was started successfully.

C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data>pause
Press any key to continue . . .

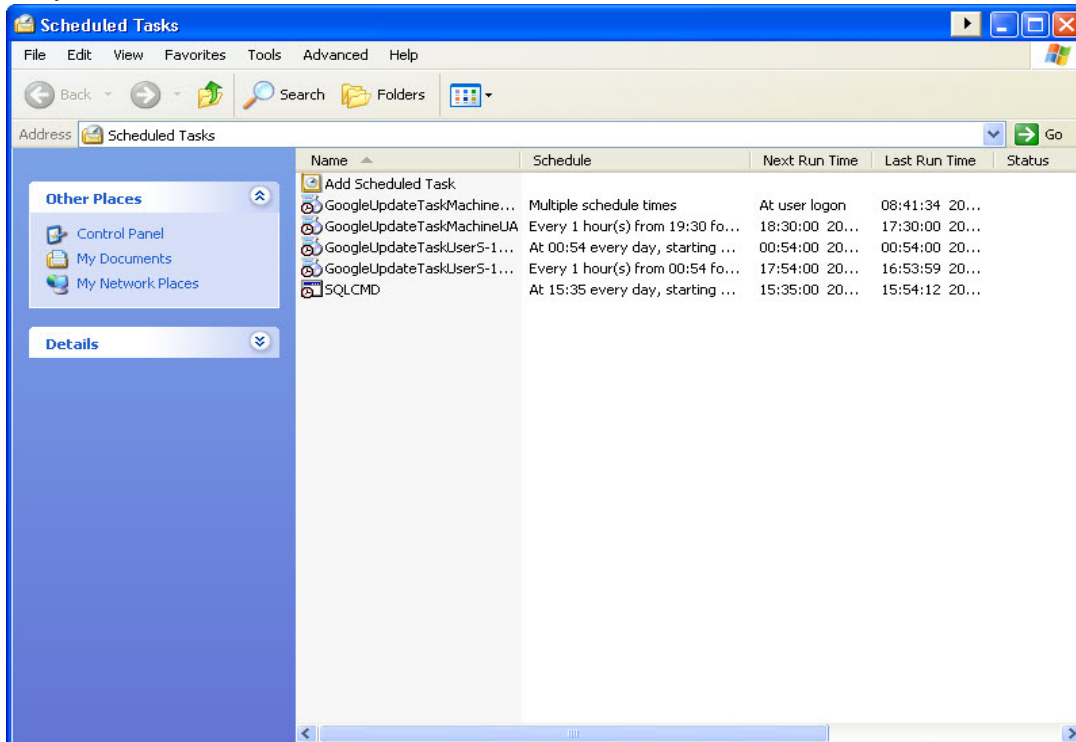
```

## 1.2 Create a .bak file

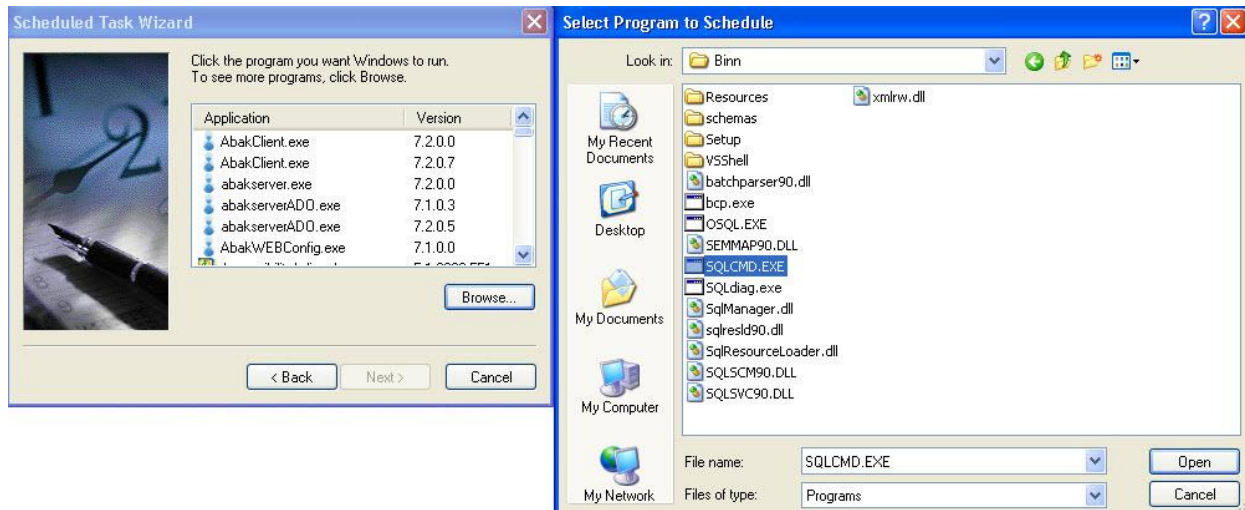
- The second option consists in creating a “bak” file. To do that, we will proceed a little bit like the aforementioned way, however the command lines will not be the same. We will start by creating a new text file, as shown earlier. Please note that all files will be saved in the C:\Backup folder for this example.
- Double-click on that new file
- We must create a new “.sql” file, so copy the following lines :
  - EXEC sp\_addumpdevice 'disk', 'AbakBackup',
  - 'c:\Backup\AbakBackup.bak'
  - BACKUP database NomDeLaBaseDeDonnéesSQL TO AbakBackup
  - GO

```
backup.sql - Notepad
File Edit Format View Help
EXEC sp_addumpdevice 'disk', 'abakbu',
'c:\Backup\abakbu.bak'
BACKUP database Mario TO abakbu
GO
```

- Now, we have to schedule a task for this to run by itself. Head to Start, Programs, Accessories, System Tools, Scheduled Tasks

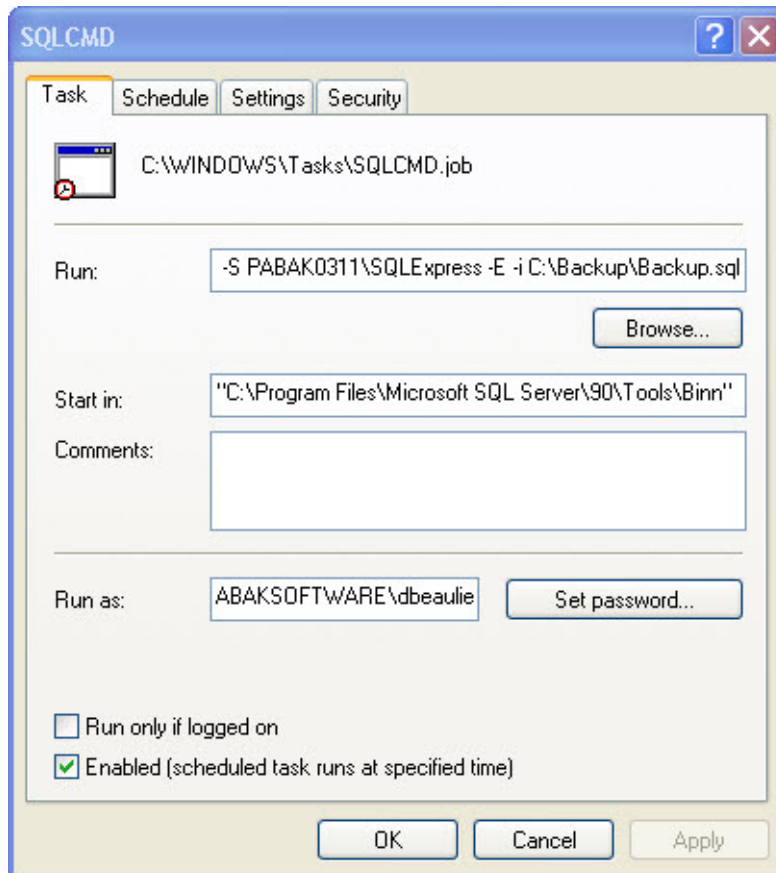


- In the first window, click Next
- Now, click on Browse and select SQLCMD.exe, which is found by default in the installation folder of the SQL Server. By default, it is C:\Program Files\Microsoft SQL Server\MSSQL\90\Tools\Binn\



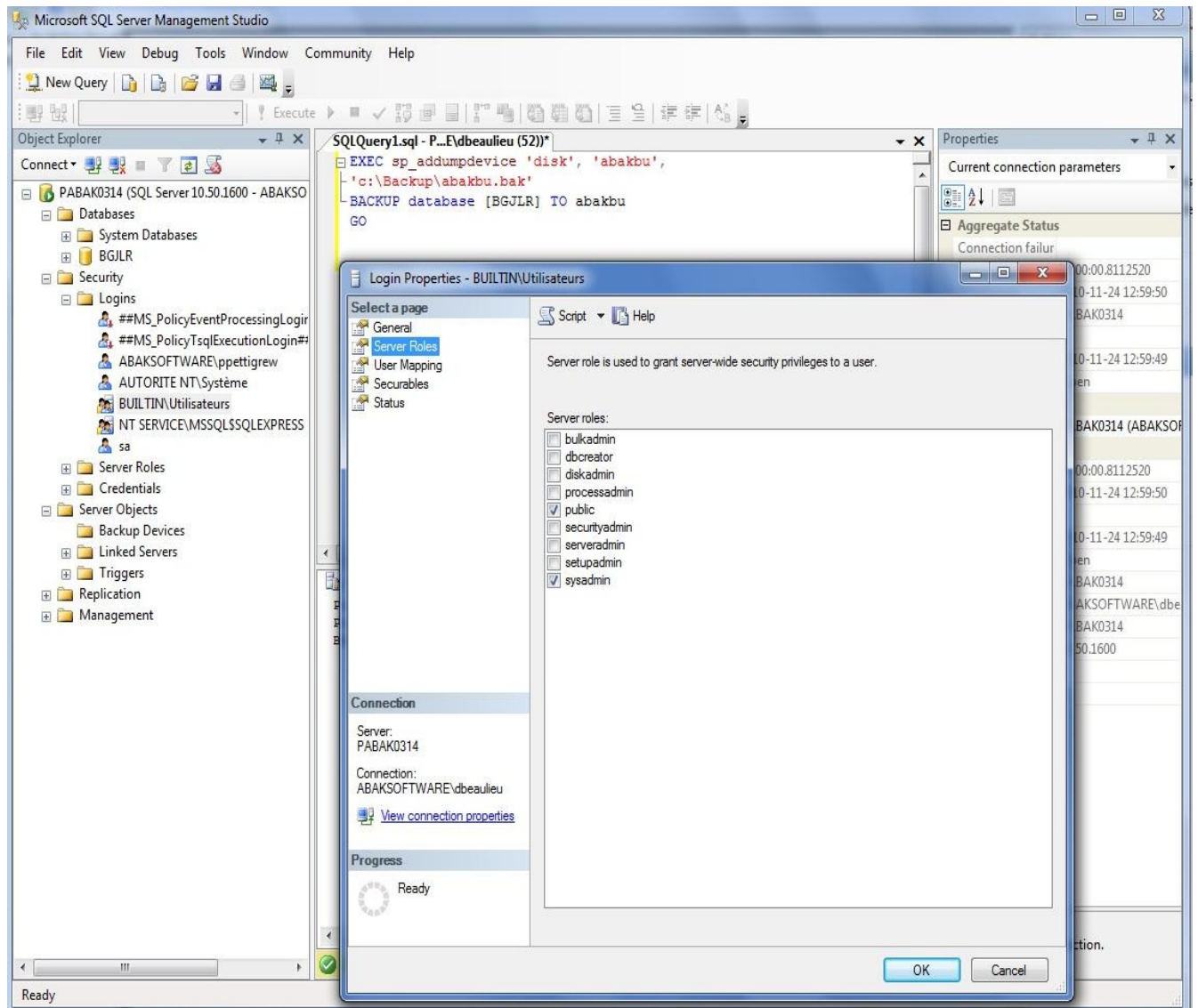
- After this, choose the desired options. Click next, enter some other options, click next again.
- In the User Name field, it is very important to enter a user that has admin rights.
- Click on end.
- Now, right-click the newly created task and click on properties.
- In the "Run As" field, change the value there for this one: sqlcmd -S PABAK0311\SQLExpress -E -i C:\Backup\Backup.sql

➤ You can click on apply.



# WINDOWS 7

First of all, on windows 7, we need to give rightst to users to modify settings in SQL Server. We make the changes as follows:



Also, on the next page, you will find where to change the Scheduled Tasks settings.



### Démarrer un programme

Créer une tâche de base

Déclencheur

Tous les jours

Action

Démarrer un programme

Terminer

Programme/script :

"C:\Program Files (x86)\Microsoft SQL Server\100\Tools\Binn\SQLCMC

Parcourir...

Ajouter des arguments (facultatif) :

-i C:\Backup\Backup.sql

Commencer dans (facultatif) :

< Précédent

Suivant >

Annuler