

# How to configure a scheduled backup of the PDDDB2 database

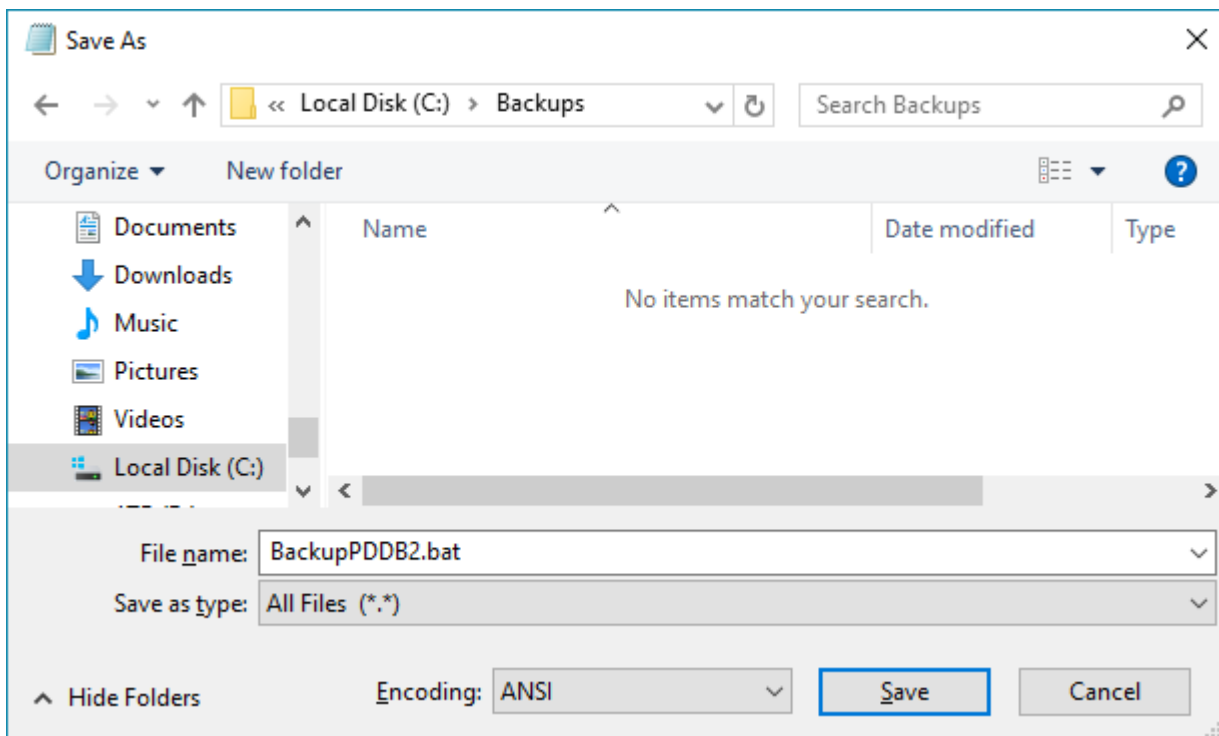
It is highly recommended that a regular backup of the PDDDB2 database is made. This document will describe the process of using a batch file to create a backup and then a Windows Scheduled Tasks to execute this batch file.

## Create a folder in which to store the batch file and backup file

For the purposes of this example, we will be using the path **C:\Backups\** to store our batch file and backup file. You may choose different folders in which to store the batch file and the resulting backup file. They don't need to reside in the same folder.

## Create a batch file in the folder

Open Notepad and save the file in the folder with the file extension **.bat**. I.e. when saving, change the **Save as type:** dropdown to **All Files (\*.\*)** and enter the full file name **BackupPDDDB2.bat**.



## Edit the text in the batch file

The example below is using the **sa** user to run the script. It makes the following assumptions:

- The backup file will be stored in **C:\Backups\**
- The SQL Server instance is a default instance (i.e. no **\PD** is required)
- The password is **ChangeMe123**
- The correct path to the **sqlcmd.exe** application has been added to the **PATH** environment variable. This is normally automatically done when installing SQL Server.

The text in bold type should be edited to match your parameters as required.

```
echo off

cls
echo -- BACKUP DATABASE --
set DATABASENAME=PDDB2
set BACKUPFILENAME=C:\Backups\%DATABASENAME%.bak
set SERVERNAME=(local)
set USERNAME=sa
set PASSWORD=ChangeMe123
echo.
sqlcmd.exe -U %USERNAME% -P %PASSWORD% -S %SERVERNAME% -d master -Q "BACKUP
DATABASE [%DATABASENAME%] TO DISK = N'%BACKUPFILENAME%' WITH INIT, NOUNLOAD,
NAME = N'%DATABASENAME% backup', NOSKIP, STATS = 10, NOFORMAT"
echo.
```

The example below shows a script with different assumptions:

- The password for the sa user is unavailable, but the domain account under which the scheduled task will run is part of the sysadmin role. This means the script can be executed using integrated authentication as opposed to SQL authentication in the script above.
- The full path to sqlcmd.exe is included (for SQL 2014) since the PATH environment variable has the paths of previous versions of SQL Server which causes an error when running sqlcmd.exe.
- The SQL Server is using an instance name of PD.

The text in bold type should be edited to match your parameters as required.

```
echo off

cls
echo -- BACKUP DATABASE --
set DATABASENAME=PDDB2
set BACKUPFILENAME=C:\Backups\%DATABASENAME%.bak
set SERVERNAME=(local)\PD
echo.
sqlcmd.exe -E -S %SERVERNAME% -d master -Q "BACKUP DATABASE [%DATABASENAME%] TO
DISK = N'%BACKUPFILENAME%' WITH INIT, NOUNLOAD, NAME = N'%DATABASENAME%
backup', NOSKIP, STATS = 10, NOFORMAT"
echo.
```

## Test the script file by manually executing it

Right click the batch file and choose Run as administrator.

The backup file PDDB2.bak should appear. The process could take a number of minutes to complete.

If it appears that an error may have occurred, you may need to add the **pause** command at the end of the batch file. This will allow you to view the error details in the command window. In the example below, the password was incorrect using the SQL authentication script:

```

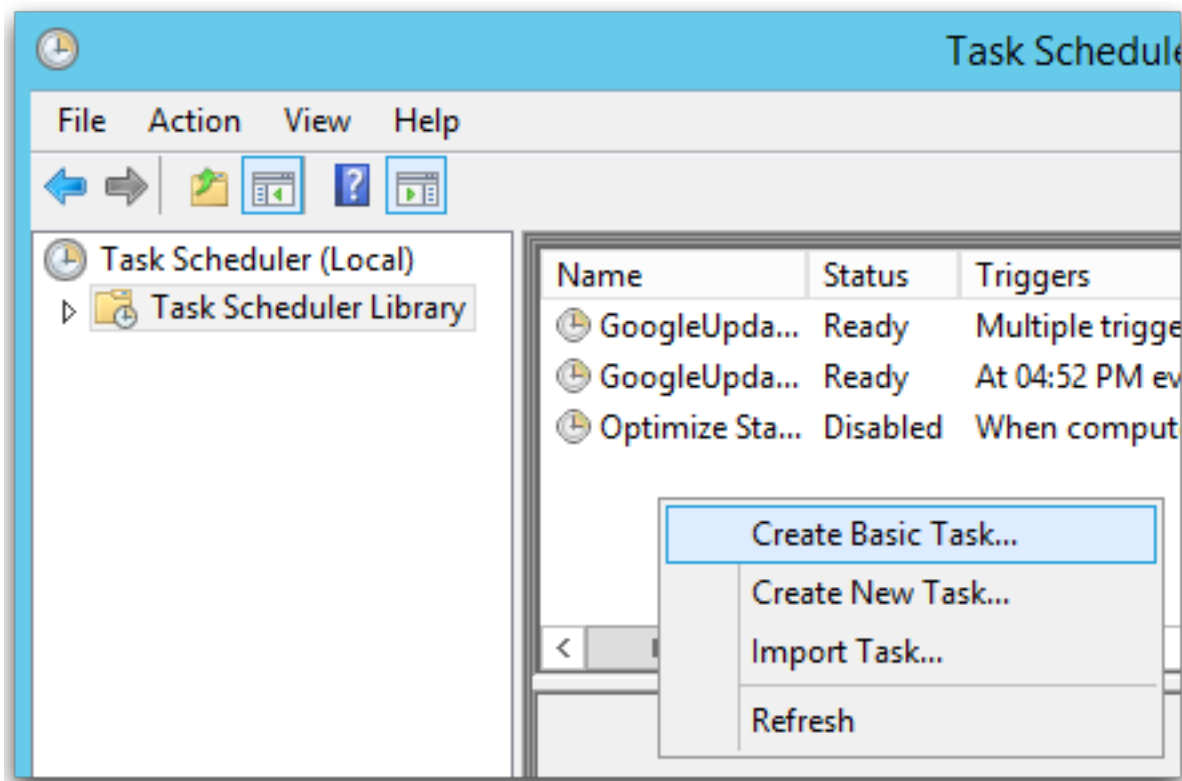
C:\WINDOWS\system32\cmd.exe
-- BACKUP DATABASE --
Sqlcmd: Error: Microsoft SQL Server Native Client 11.0 : Login failed for user 'sa'..
Press any key to continue . . .

```

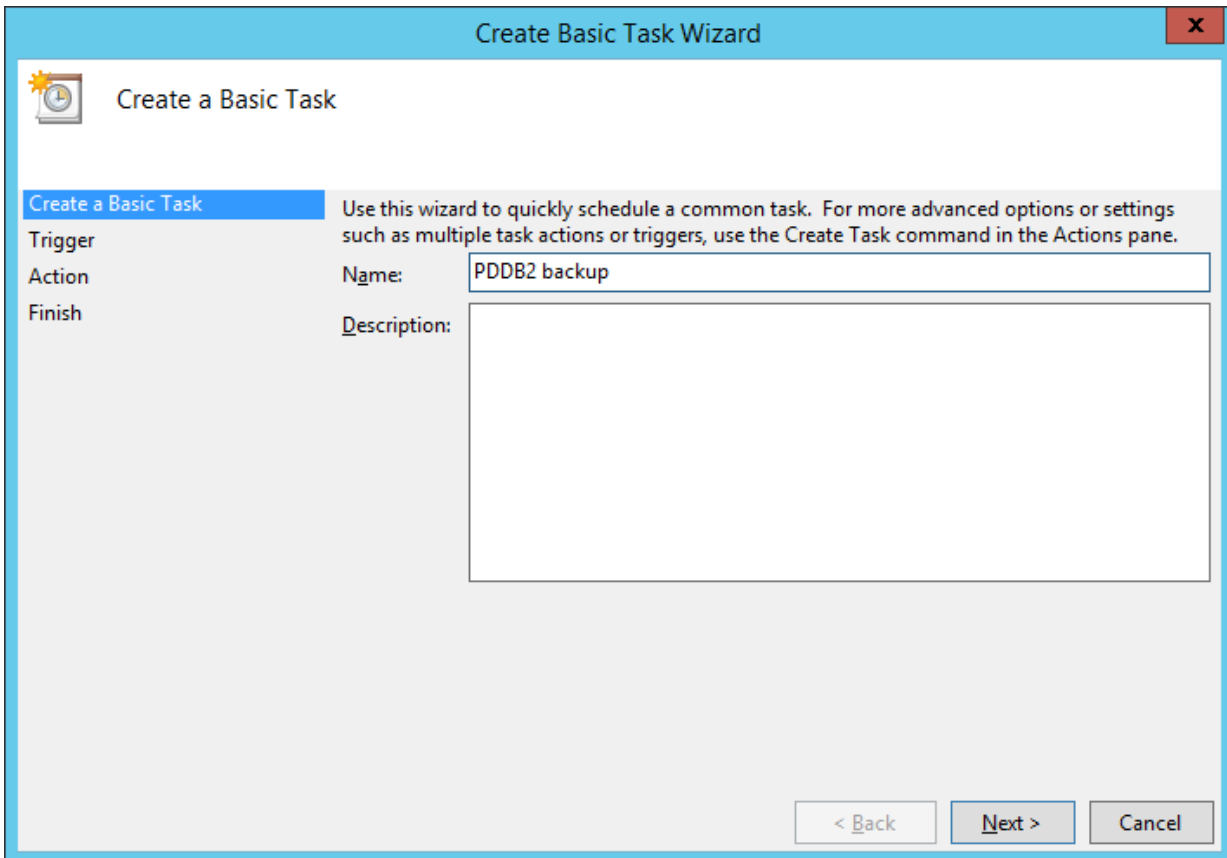
Once we know that the script works, ensure that the **pause** command is removed from the end of the script.

## Create the scheduled task to execute the script

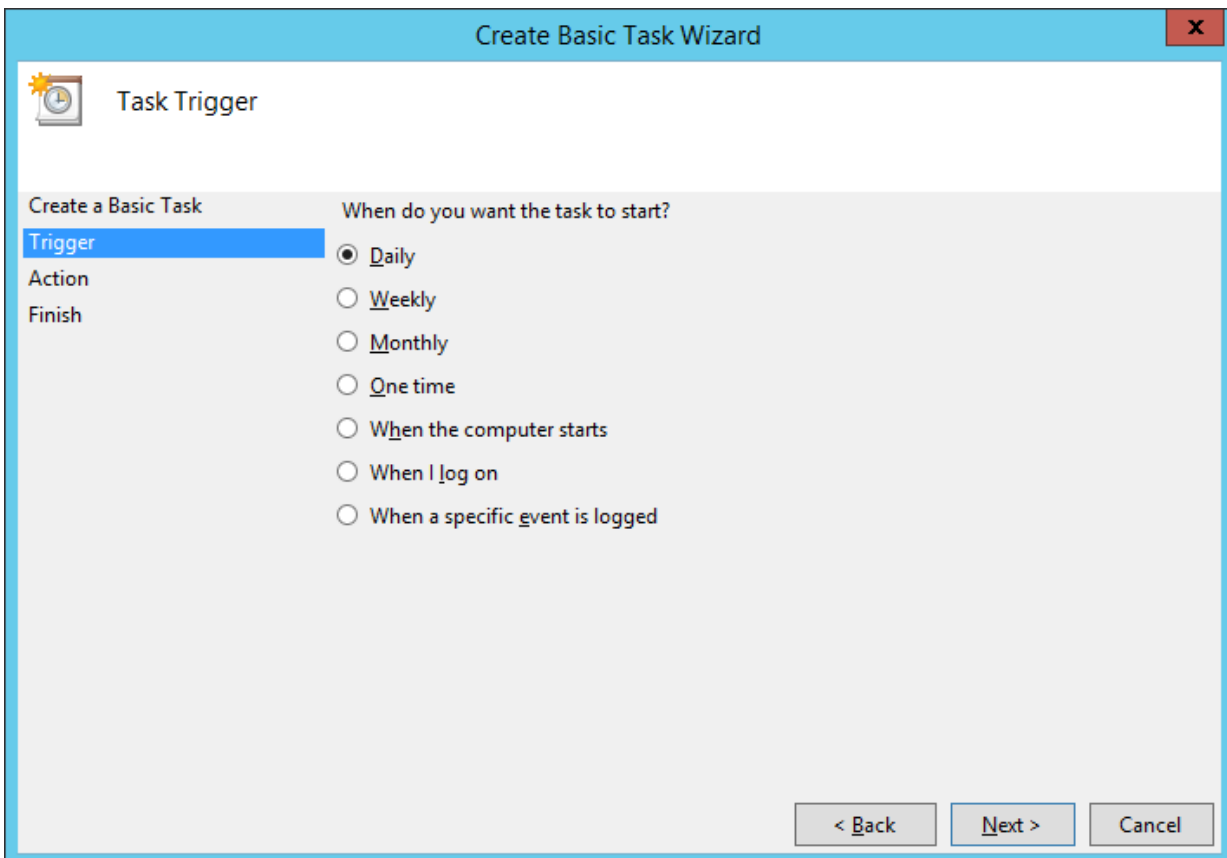
1. In the **Server Manager**, click **Tools > Task Scheduler**.
2. Click **Task Scheduler Library**.
3. Right click in the list on the right and choose **Create Basic Task...**



4. In the **Name** textbox, enter **Pddb2 backup**.

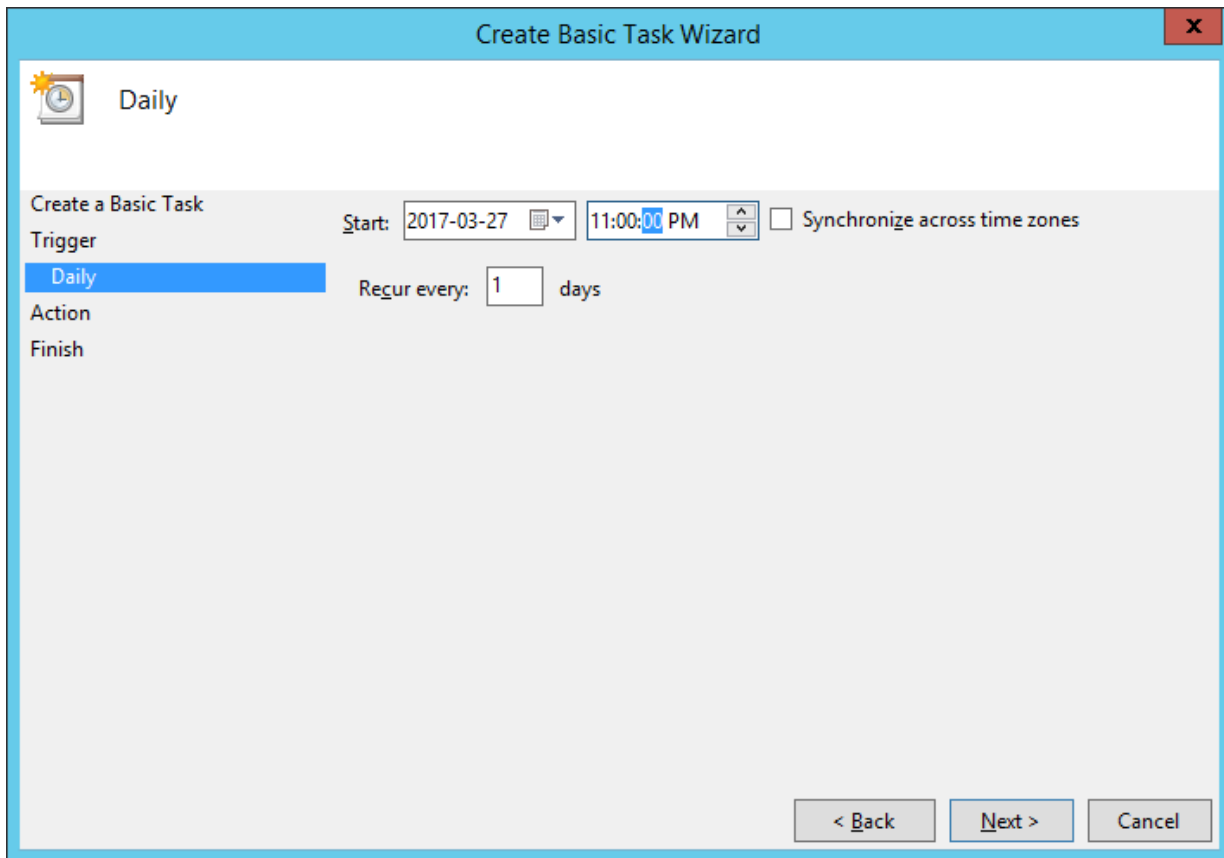


5. Click **Next**.
6. Leave the Trigger on Daily (unless you want a different schedule).

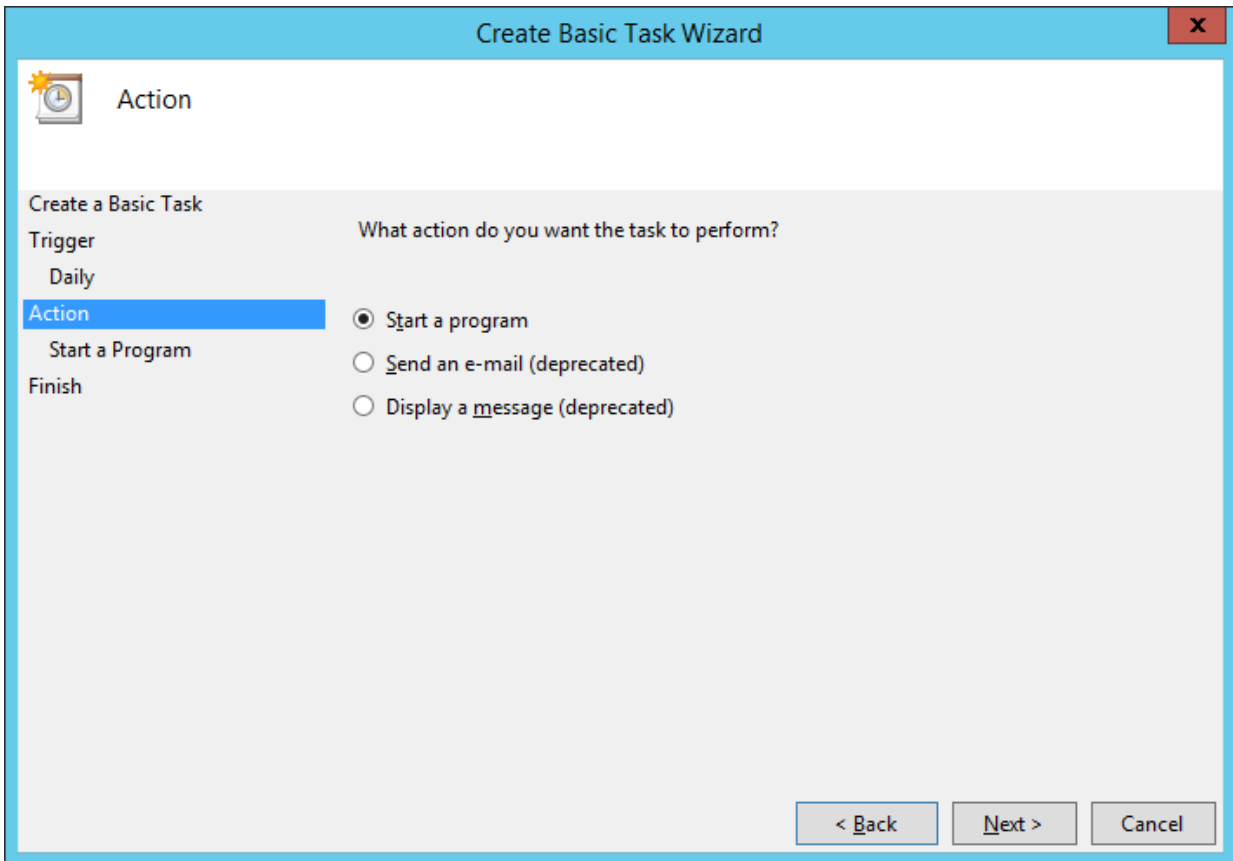


7. Click **Next**.

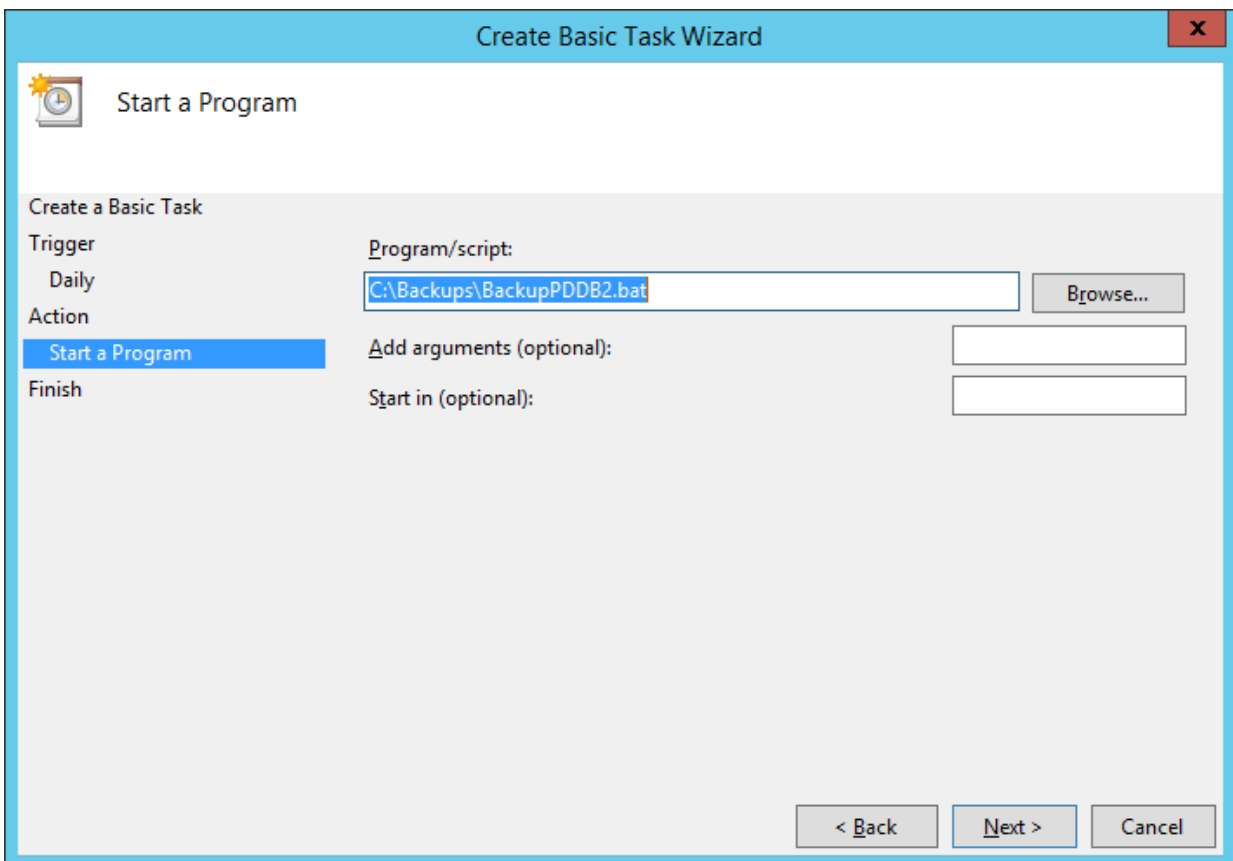
8. Change the start time to a suitable time after hours. The example below is set to 11PM. The backup process may use significant resources if the database is large but the software will still be useable. There won't be any downtime.



9. Click **Next**.
10. Leave the **Action** option on **Start a program**.

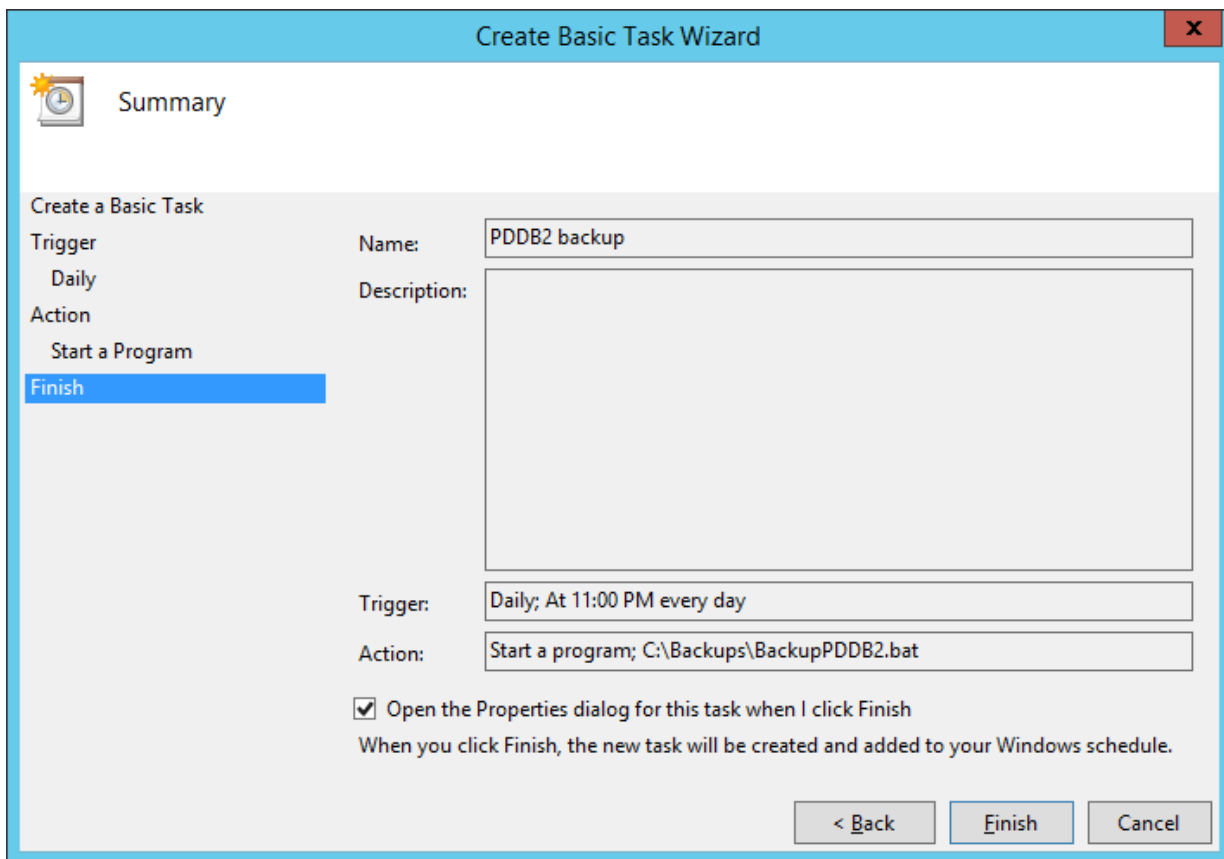


11. Click **Next**.
12. Browse to where the batch file is saved.



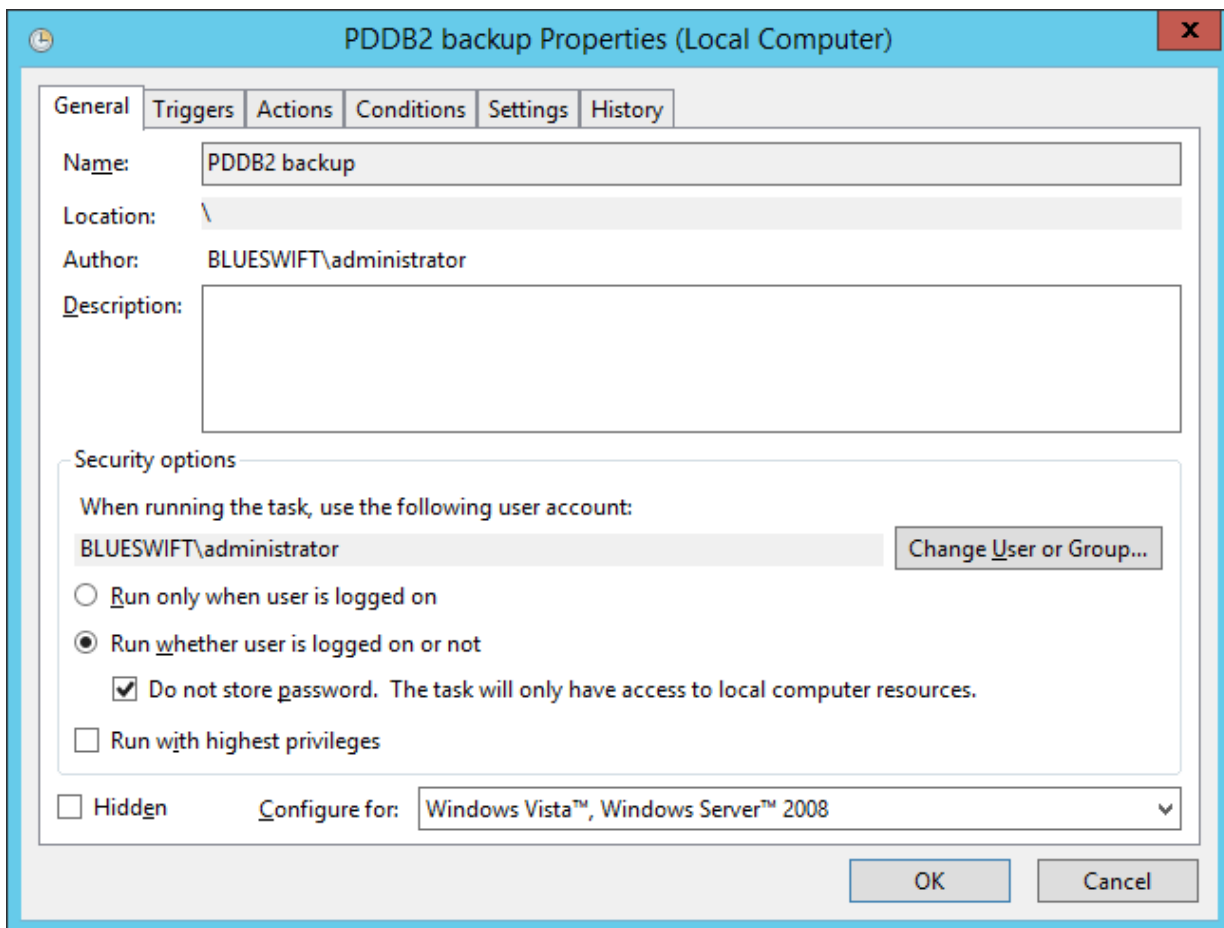
13. Click **Next**.

- In the final **Finish** step, tick the **Open the Properties dialog for this task when I click Finish** checkbox.



The screenshot shows the 'Create Basic Task Wizard' dialog box, titled 'Create Basic Task Wizard' with a close button (X) in the top right corner. The window has a light blue header and a white body. On the left side, there is a navigation pane with a clock icon and the word 'Summary'. Below this, the steps are listed: 'Trigger', 'Daily', 'Action', 'Start a Program', and 'Finish'. The 'Finish' step is highlighted with a blue background. The main area of the dialog is divided into two columns. The left column contains labels for 'Name:', 'Description:', 'Trigger:', and 'Action:'. The right column contains text boxes for these fields. The 'Name' field contains 'Pddb2 backup'. The 'Description' field is empty. The 'Trigger' field contains 'Daily; At 11:00 PM every day'. The 'Action' field contains 'Start a program; C:\Backups\BackupPddb2.bat'. Below these fields, there is a checkbox labeled 'Open the Properties dialog for this task when I click Finish' which is checked. Below the checkbox is the text 'When you click Finish, the new task will be created and added to your Windows schedule.' At the bottom right of the dialog, there are three buttons: '< Back', 'Finish', and 'Cancel'.

- Click **Finish**.
- On the Properties form, in the **Security options** frame, change the option to **Run whether user is logged on or not**.
- Tick the **Do not store password** checkbox as no network access is required.

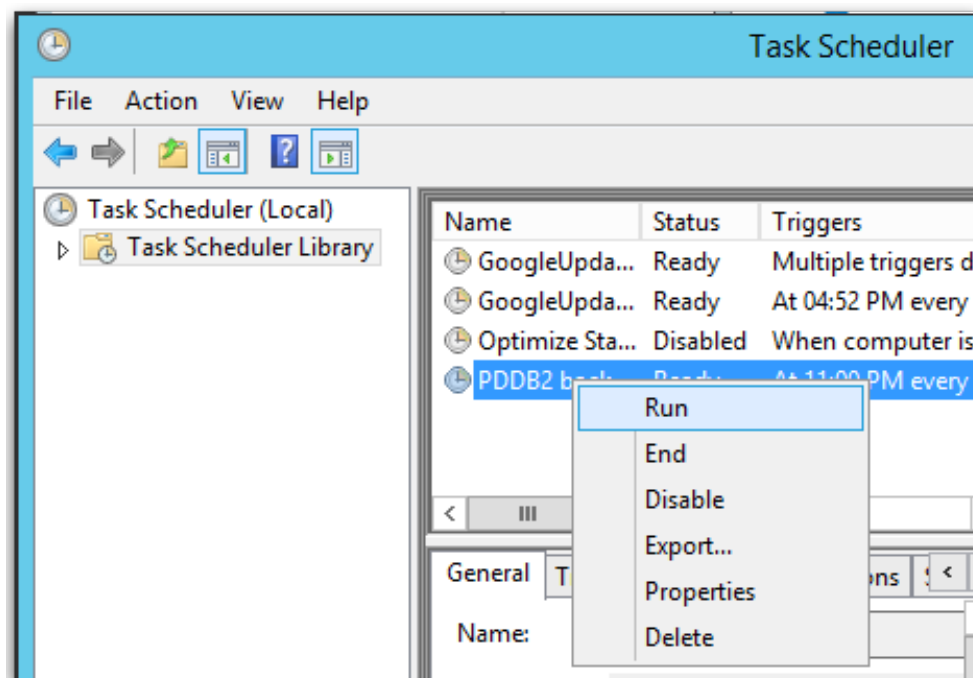


18. Click **OK**.

## Test the scheduled task

First, delete any backup file in the folder that was created from a previous test.

In the **Task Scheduler**, right click the newly created task and choose **Run**.





Ensure that the task completes and the backup file appears as expected.

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