

Scheduled SQL Jobs Module

User Documentation

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Document Revision History

Name	Date	Change and Reason for Change	Version
Mitchel Sellers	12/22/2008	First created	1.00
Mitchel Sellers	2/18/2009	Updated for version 1.5 of the module	1.05
Mitchel Sellers	4/23/2010	Updated for version 2.0 of the module with the editable job types	2.00

Disclaimer

This document is provided as an additional source of information on the usage of this module. Module content, features, and functionality are subject to change at any time and will be distributed to the public with unique version numbers. It is the reader's responsibility to ensure that this documentation matches the current version of the module in question. Additionally, the reader understands that by using this documentation and the module that they agree to the terms of use, posted on the IowaComputerGurus.com website and available from all module download pages.

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Module Overview

Summary

This module adds the ability to run various SQL Server jobs on a regular basis on a DotNetNuke portal. Use of these jobs on a regular basis can help improve the stability and performance of a DotNetNuke site. Future editions of the module will support user customizable jobs.

Module Features

Module configuration limited to host users to ensure that only hosts are setting up permissions.

Easy to use interface and detailed history

Ability to specify custom SQL jobs to be executed on a regular basis

Dependencies

Minimum DNN Version

DNN 4.6.2



Other Dependencies

Proper installation and configuration of the scheduler

SQL Server 2005 or later

Setting	Value
Full Class and Assembly	ICG Modules ScheduleSqlJobs.Components.JobRunnerTask ICG.Modules.ScheduleSqlJobs
Schedule Enabled	Yes
Time Lapse	30 Minutes
Retry Frequency	30 Minutes

Module Usage

Overview

The module serves as a configuration portal for the host user to configure jobs. The module will not display any content to standard users. Each of the individual views will be discussed below.

Existing Jobs Display

The default job display shows all existing jobs scheduled in the system. From here you can add/edit/delete and view the history of scheduled SQL jobs. The following is an example of the module display.

Existing Jobs

The following jobs are currently in the system.

[Add New Job!](#)

Job Title	Job Script	Schedule	Next Run	Last Run				
Clean Event Log	ICG_SJ_CleanEventLog	1 Hours	2/19/2009 1:06:49 AM	2/19/2009 12:06:49 AM	Edit	Delete	History	Run Now
Clean Event Log	ICG_SJ_CleanEventLog	12 Hours	2/19/2009 12:06:48 PM	2/19/2009 12:06:48 AM	Edit	Delete	History	Run Now
Shrink Database	ICG_SJ_ShrinkDatabase	1 Weeks	2/26/2009 12:06:49 AM	2/19/2009 12:06:49 AM	Edit	Delete	History	Run Now



Add/Edit Job Display

When opting to add or edit a job you will be presented with the add/edit job display. This looks similar to the following.

▼ ScheduledSqlJobs

Add/Edit Job

Job Type: Clean Event Log ▼

Job Description: This method will clean the event log, leaving 7 days of entries

Job Script: ICG_SJ_CleanEventLog

Execution Frequency: Hours ▼

[Save](#) [Cancel](#)

The job type is the selected action you want to take. Currently, these are hard coded values. Future versions will contain user configurable options. The included Job Types are:

Clean Event Log Job Type

This job type removes any Event Log entries that are more than 7 days old. Allowing you to keep a small history, but without bloating the database size. It is recommended to run this once every 12-24 hours.

Clean Site Log Job Type

This job type removes any Site Log entries that are more than 7 days old. Users wanting to see site log information, but not needing a lot of history can count on this task to remove un-needed entries. It is recommended to run this once every 12-24 hours.

Shrink Database Job Type

This job type will shrink the size of your database and help reduce overall disk usage of a site. It is recommended to run this once every 2-3 weeks.

Truncate EventLog Job Type

This job type is similar to the "Clean Event Log" job type, however, it removes ALL entries from the log using a "Truncate" option. This is a faster method of clearing the data, and reduces bloating of the Transaction Log.

Truncate SiteLog Job Type

The final supported job type is similar to the "Clean Site Log" job type, however, it removes all entries from the log using a "truncate" operation. This is a faster method of cleaning the data and reduces bloating of the Transaction Log.

Setting the frequency of execution can be completed on an Hourly, Daily, or Weekly basis to allow for good overall configuration.



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▼ Manage SQL Scheduled Job Types

The grid below will show you the editable Scheduled Job Types. You ca

Job Title	Job Description	SQL Procedure	
Demo Job	Demo Custom job	MyCustomStoredProc 1	Edit

[Add New Job Type](#)

The system setup is pretty simple, you specify a title, description and stored procedure to call. At this time the module ONLY supports calling stored procedures.

Clicking on "Edit" will allow you to review the existing configuration, modify or delete it. By default the grid will be blank, due to no custom jobs existing. Once you setup the custom job type, you can then add a schedule for it, just like you would do with other types.

View History

To get an idea of what is going on with the scheduled jobs you can click the "History" link from the Existing jobs display to show the following.

▼ ScheduledSqlJobs

Job History

The job history for the selected job

Execute Time	Successful	Detail
12/22/2008 10:00:30 PM	True	Success 2 rows affected

[Return to List](#)

Manually Running Jobs

If you find that you need to run a job before its next scheduled run time, or you have the scheduled task disabled, you can select the "Run Now" option for an existing scheduled job run. This will run the script right away. The following will be shown on success.

▼ ScheduledSqlJobs



Job ran successfully, you may view the "history" to see the results.



Troubleshooting

For custom job types if you are experiencing errors when trying to execute the scripts you will want to ensure that you are calling a SQL Stored Procedure and not completing any inline SQL statements as they are not supported with the current release of the module.

For additional assistance with troubleshooting, please visit the support forum listed in the next section.

Support and Requests

Feature Requests

As a free module development of this module is completed on a "as time exists" basis and new features are based greatly on user feedback. If you have a feature that you would like to see in a future version of this module please log it as a request in product support tracker <http://productsupport.iowacomputergurus.com>, or contact us webmaster@iowacomputergurus.com and we will gladly see what we can do to get it implemented.

If you would like to sponsor the development of a feature for this module options are available for this as well. If a feature is sponsored the edit log will be updated to reflect the sponsoring individual or organization.

Module Version History

All free modules provided by IowaComputerGurus Inc. are available with full source code if you have a need to modify the modules outside of the scope of our regular updates. Doing this will take you outside the scope of being able to upgrade in the future, the only requirement for use is that all copyright statements remain intact on all files.

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