

DotNetNuke remote host backup/ restore module

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1 User Manual

1.1 Introduction

This module facilitates complete DotNetNuke (DNN) instance backup. Through personal experience, discount web space service providers (such as GoDaddy.COM) often do not provide any means to backup or restore your DNN instance. Out of unsuccessful attempts to resolve that issue with the service provider, this module was created to circumvent any need for cooperation of service providers. Initially this module was limited to taking a database snapshot and storing it into a XML file, which then later could be restored. In the latest version we added the ability also to backup and restore host files, thus allowing for complete DNN backup.

This module is freely distributed and may be available through many affiliates and resellers. In some cases their commission may be included in the price of the license. So, please keep in mind that you can get better price if you buy the license directly from our site: <http://www.xpidea.com>

Once installed, this module WILL NOT FUNCTION without an appropriate domain license file (*.LIC) . Please contact us (see page 15) to purchase the license or request a demo. In your message please make sure you include DOMAIN NAME where you going to install and use the module.

It may take up to 24 hours to receive the license. Most likely, licenses will not be shipped during national holidays, weekends and off-office hours.

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1.2 Prerequisites

This module is designed to work on DotNetNuke 3.x host running on ASP.NET 1.1 under MS SQL Server 2000 SP 4 database AND DotNetNuke 4.x running on ASP.NET 2.0 under MS SQL Server 2000 SP 4 or MS SQL 2005.

The databases size must 100Mb or less. This product is not designed /tested to work with bigger databases. Although, it may work with bigger ones, since we don't set any physical limit on the database size.

1.3 Installation

1.3.1 Installation of Private Assembly (PA) Module

First, you need to upload the module to DotNetNuke host:

1. Login to DNN portal with a SuperUser (host) account.
2. Go to "Host" tab and select "Module Definitions" menu.
3. In the corner of "Module Definitions" header click drop menu and select "Install New Module".
4. "File Upload" screen will appear.
5. Click "Browse" button and in opened dialog select file "xpidea_backup_dnn4.zip" and click "Ok".
6. Click "Install New Module" button to complete the installation.

After you finish uploading, you need to add module to the one of the pages available to SuperUser (host) only **(1)** . Just create a new DNN page and place the module on it (please follow DNN's user manual). Make sure this page is visible to DNN Administrators only.

(1) Although module will not function for accounts other than SuperUser, it is wise to put module on the page where only SuperUser account will see it.

1.3.2 Installation of license file and other considerations

This module will not function without a license file. To obtain license file please contact us (see "Contact Us" section).

1. After you have received the license file (*.LIC), you'll have to upload it into /BIN folder on your site. To do that, please use the
-

FTP software or alternatives provided by your host. Please note, on October 9, 2006 release we've provided "Upload License" functionality located on module "Settings" screen. This functionality will be extremely useful for people who don't know how to access portal's /BIN folder or such access is restricted by the hosting company (for instance GoDaddy's shared plan)

2. To function properly, this module requires that your IIS worker thread account (usually "ASPNET" or "NETWORK SERVICE" accounts) have READ permission for all files folders on your WEB site and also WRITE permission to "/BackupRestore" folder in the application root. Please make sure your security settings are set accordingly. Initially "/BackupRestore" does not exist, but application will attempt to create it automatically when first time executed. If application fails to create it, you will see appropriate error message. To resolve the error, go ahead and create this folder manually in the application root (that is side by side with "/BIN" folder) and define appropriate permissions through hosts security center or through FrontPage extensions.

1.3.3 Database Integrity Validation

The database structural integrity is essential in succeeding of database restoration. In some cases, it will not be possible to restore database, due to its inconsistent structure. The database structure may become inconsistent when you for instance, install some 3rd party modules and, later on, un-install them. If developer of such module is not very careful about the un-installation, there will be some database artifacts left in the DB (such as stored procedures or views) which are no longer valid, since other objects, they depend on, have been removed from the database and no longer exist. While Microsoft SQL Server allows such artifacts to exist, it won't be possible to restore the database through the scripting, because SQL Server would prevent that due to missing dependencies.

Therefore to guarantee the database restoration, you **MUST** make sure your database is in the consistent state. While using traditional SQL tools - there is no easy way to find out, Microsoft did not provide any tools to report the database consistency. Therefore, we have developed our own tool called " **MS SQL Validation Utility** ", which will allow you to analyze your MS SQL database and validate all database views, stored procedures and user functions at once. The tool is free and you can download it here:

<http://www.xpidea.com/Download/tabid/60/Default.aspx>

1.4 Configuration

1.4.1 Module configuration settings

Configuring the Backup/Restore module is rather simple task. Please login to your portal with 'host' account and go to module 'Settings' screen through the drop-down menu.



On the screen that appears next, scroll down to the bottom and expand “Backup/Restore” setting node. (The portion of the screen is shown on the picture below).

If you want your backup ZIP file(s) be password protected, please check the checkbox and enter the password.

In the "Number of backups to keep" please select number of backup files (except the latest one) you want module to keep. This setting is used by automatic backup routine and basically defines retention policy for backup files. For instance, "5" means only "5" most recent backups will be kept on the server. Once new backup is created, the oldest one will be deleted.

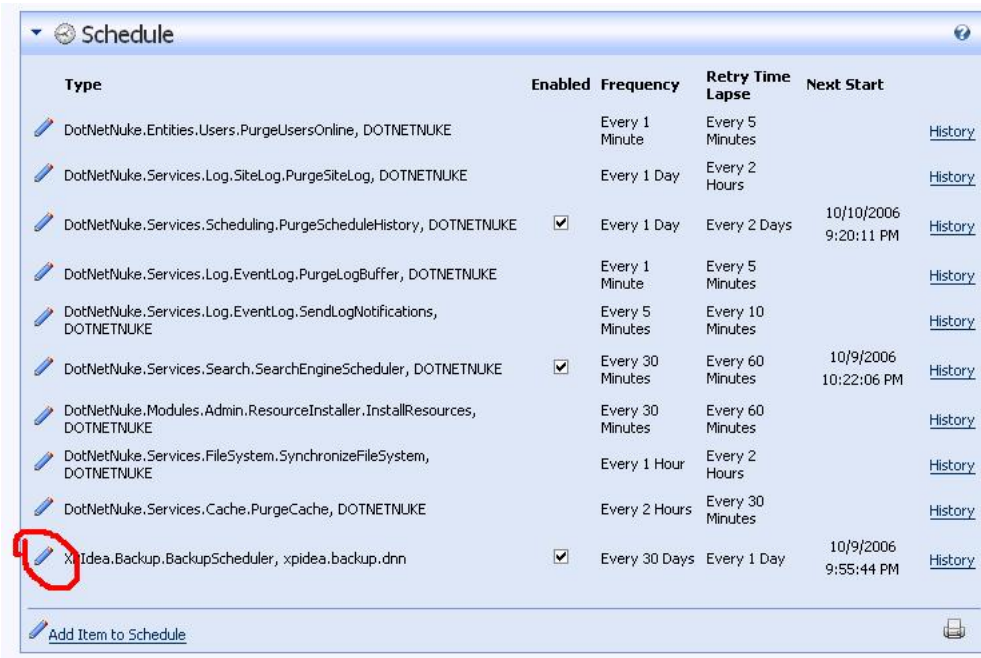
1.4.2 License Installation

Once you send us an email, requesting the license you should receive a license with our next. This reply will have an attached license file called "xpidea.db.snapshot.lic". To install the license, you need to store this file on the local harddrive and then upload it to the portal from the screen above. Click "Browse" to select a file and "Upload" to upload it to the server. From this point on the Backup module should become fully functional.

1.4.3 Backup Scheduler

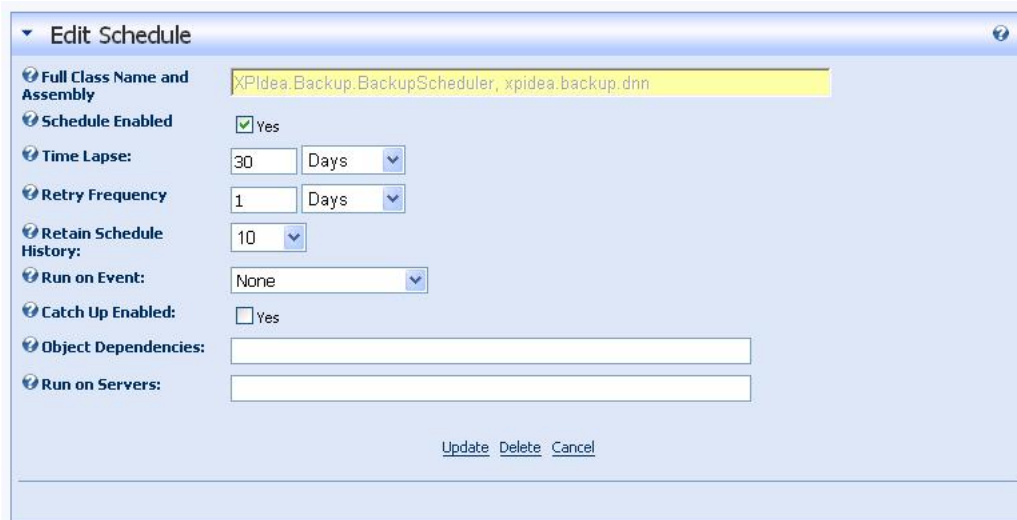
Scheduler is disabled by default. To enable backup scheduler you need to login with "host" account and click on to

"Host\Schedule" menu. You should see screen similar to this:



Click small pen image near by

XpIdea.Backup.BackupScheduler item. It will take you to the next screen:



Click "Schedule Enable" to

enable automatic backups. Set "Time Lapse" to period of time backup will happen. Set other option according to screen above. Click "Update" to commit the changes.

There are couple things you need to understand about scheduler:

1. Password setting MUST be set in the module configuration to protect privacy of your backups. Scheduler will fail if password is not set.
2. If your website doesnt receive ANY traffic/visitors, backup will not be performed. This is just the the way DotNetNuke scheduler works.

1.5 Functional Description

The screenshot shows a web interface for backup/restore operations. At the top, there are two checked checkboxes: "Database" and "All Files". Below them is a dropdown menu displaying "Feb_05_2006.zip". At the bottom, there are five buttons: "Backup", "Download", "Delete", "Delete All", and "Restore Database*" (with an asterisk).

When you click "Backup" button, module performs the operations according selected options and as result creates a ZIP file named "Month_Day_Year" that is located in "/BackupRestore" folder. If you have selected "All Files" option, that ZIP will contain ALL files in your WEB application folder including all of its sub-folders. **All previous backup files (located in "/BackupRestore" folder) don't get included with in that ZIP.** All files in the ZIP will keep RELATIVE path to the root folder.

If "Database" option is selected, the ZIP file will include "DatabaseBackup.xml" file located in the "/BackupRestore" folder, but this file will be physically missing on your drive. This file contains snapshot of your database in XML format, and can be used later on to restore your database. There are few things you should know about that file and generally about database backup/restore functionality:

1. Database connection string, specified in WEB.CONFIG file in the root folder, must specify user with sufficient privileges to CREATE / DROP / ALTER data table, triggers etc.
2. Database users / roles and logins WILL NOT be backed-up. So, please be aware of that fact and define those manually (This said just in case you use those. In default configuration DNN doesn't use them - so in most cases you have nothing to worry about).
3. When restore, the database specified in connection string must exist (though could be empty). Restoration functionality will not create the database, if it does not exist.

To download selected file, click "Download" button. Please note, some popup blockers may prevent downloading the file, so the "Download" button may not work. To work around this issue, you may directly enter location of the file into the WEB browser:

```
http://mydomain.com/MyVirtualFolder/BackupRestore/Feb_05_2006.zip
      ^           ^           ^
      Your domain Virtual folder, File name you see
      name         if any         in the dropdown box
```

Click on "Delete" or "Delete All" button will respectively delete selected file or ALL backup files.

WARNING!

Do not leave backup ZIP files on the WEB server because they contain information that may compromise the security of your WEB site. After you finish downloading ZIP file(s), please click "DELETE ALL" button, to delete all backup files stored on the server.

"Restore Database" button will restore the database only; no files will be restored /replaced on your host. Please realize that your

data in the database and files on file system may go out sync and that potentially may bring your WEB site down. (This is rare, but possible case).

1.6 Backup process

To backup you WEB site, please select one or both options:

- "Database" option will take a "snapshot" of your database
- "All Files" will backup ALL files on your WEB site.

Click "Backup" button. You will see "Please Wait" message displaying status of the backup process. Do not click browser's BACK button or STOP the process during that time. **Backup process usually takes several minutes to complete, but time may vary, depending on your database size and size/ number of files on your site. So, please be patient.**

After process is finished, you will be forwarded back to original page, and you will see backup ZIP file named with current date in the dropdown box.

Optionally you can download and delete that file when finished.

1.7 Complete WEB site restoration

To perform complete host restoration (database and files), you'll need to download selected ZIP file to your local computer and locally extract all of its content. Then use FTP or other client software to upload ALL files back to your host root. This cannot be done automatically by this module, because ASP.NET host process automatically restarts, if certain files are replaced in application folder. (As of now, we found no way to control this behavior!.)

Important: If you restore to a different WEB host or SQL server, you need to make sure that WEB.CONFIG file extracted from the ZIP contains proper SQL connection string, pointing to a new SQL server. Restoration process will fail if connection string is invalid.

After you finish uploading all files, please enter following URL in your WEB browser:

`http://yourdomain.com/DesktopModules/RemotePortalBackupRestore/RestoreDatabase.aspx`

(here replace yourdomain.com with your actual domain name). This will automatically restore your database and when complete, will display your sites home page.

In some instances, when you have empty database, settings in WEB.CONFIG file may specify modules that will be loaded by application and will attempt to access the database. That may cause application errors and prevent database restoration. As a work-around, please temporary remove those modules from the WEB.CONFIG and restart the restoration process. After database is restored, you will need to put those settings back to WEB.CONFIG in order for DNN function properly.

1.8 Migration to another host

This module is NOT specifically designed for migration of the web site, although may provide some useful help in that process. You should understand that migration is very labor-intensive process, which requires advanced knowledge and good technical skills; we are not able to provide any free technical assistance in that matter although, giving you an option to use one of our paid services. If you don't have required skill set or not willing to spend your time on it – please let our technicians handle migration for you. They have great experience with DNN and have moved many clients' sites. The migration costs approximately \$78/hr* and usually takes 4 to 8 hours to complete. Alternatively, in case you decide to do migration/upgrade yourself, we will be able to provide you with technical expert advice for \$50 per question/issue.

Here is brief (and is not in any way complete) list of steps need to be taken to migrate your DNN website to another host.

To migrate your WEB site to another host (hereafter "NEWHOST") you should:

1. Install the **same** version of DNN to your "NEWHOST" - get it up and running.
2. Using our module on your original site, backup both - files and database then download the ZIP.
3. If possible, stop IIS on your "NEWHOST".
4. Open DNN's WEB.CONFIG file of "NEWHOST" and store the SQL connection string in a clipboard.
5. Extract the ZIP to "NEWHOST" DNN folder while overwriting every file.
6. Open again WEB.CONFIG file and replace SQL connection string with the one from the clipboard.
7. Start IIS, but DO NOT go to your website yet!!!
8. Open WEB browser and type-in following URL:
http://newhost/DesktopModules/RemotePortalBackupRestore/RestoreDatabase.aspx if you have the DNN installed in the root of IIS. Otherwise please include your virtual folder name
http://newhost/MyVirtualFolder/DesktopModules/RemotePortalBackupRestore/RestoreDatabase.aspx.
Hit 'Enter'. You should see "Restoring database" page for a few seconds. Then, if operation succeeds, you'll be automatically taken to your site's home page.
9. If something went wrong and you got an error -make sure there is DatabaseBackup.xml located in BackupRestore folder of your new portal (this folder should be right under the root folder, side-by-side with the /BIN folder). If you don't see this file - extract it again from the ZIP and repeat step 8.
10. If you see your home page, but all skins/themes are messed-up - try to restart IIS.

That should complete the migration, but you should understand there could be some settings in the WEB.CONFIG or in the restored database, that may prevent you from succeeding. You may need to get some DNN hands-on experience to get those issues addressed.

1.9 Frequently Asked Questions

Q: Does your backup utility gather data from 3rd party modules. Like TextHTML Versioner by www.benbecker.net and the Calendar by www.avanced.net among many others. Also, do you offer an "unlimited" domains license for those that have 5+ domains?

A: Our backup utility will perform backup of whole DNN instance. It includes all portals,aliases, domains,modules,skins, themes, database - everything under the DNN folder.We don't have unlimited license, but please contact us for a discount.

Q: We are currently using DNN 3.x (3.1 I believe) and want to move it in houe at godaddy.com where our domains are. GoDaddy uses DNN 4.x (4.0.2 currently) would it be possible to move our 3.x data into 4.x?Currently we are rebuilding the site manually under 4.x DNN.

A: No, you'll have to upgrade to DNN 4.x first

Q: I have a staging DNN instance in one domain, and a production in another domain. Would a single license allow me to use the backup/restore module for both domains?

A: Technically you'll need two licenses, unless both are subdomains

Q: Licensing question: We run 2 pre-production (staging-like - stage-a.abc.com and stageb.abc.com) servers along with our production server. Is there any licensing options to help us out?

A: There will be a wildcard license issued to *.abc.com, so it will work for both domains.

Q: Does it also work when SQL-Server is not on the same server as IIS and has no shared drives?

A: Yes, it does! Absolutely!

1.10 Release history

August 20, 2007

1. Updated module documentation.
2. Fix: Added support for DNN 4.5.5. Fixed bug in the license upload functionality, caused by changes in DNN core.
3. Fix: In some rare cases MS SQL server would omit precision information on the numeric or decimal columns, causing module to fail backup.

October 9, 2006

1. Feature: Added automatic backup and backup scheduling functionality as DotNetNuke scheduled jobs. Defined backup file retention policy.
2. Feature: Implemented password protected backup files.
3. Feature: Added functionality to upload license file directly to /BIN folder of the web site (Before, users of GoDaddy shared plan had to use 3rd party tool to do so).
4. Feature: Improved backup file downloading functionality - will be more consistent and less affected by popup blockers and browser security settings.

August 17, 2006

1. Feature: Added functionality to deal with database stored procedures and functions which are in invalid state during the backup. Module will make sure they get recreated when restored.

May 30, 2006

Bug fixes:

1. Fixed an issue where precision and scale values were reset to default values (18,0) after restoration of the database for decimal column types.
2. Fixed an issue where decimal based user defined type will get invalid precision and length after database is restored.
3. Fixed a bug with binary data column being reset to default length after database restoration.
4. Fixed a bug where database restore operation will fail with error "Such user defined type already exists in the database".
5. Fixed an issues with column collations not being stored / restored.
6. Fixed a bug where date's am/pm indicator was not stored in the databases backup file, causing dates being restored with "AM" hours.
7. Fixed an issues where backup operation will fail if table had 'timestamp' column.
8. Fixed "Database object not found" error, causing restore operation to fail. This error was often caused by user not being member of server administrative role, although in the "db_owner" role, with users's default database schema is set to anything else but the "dbo".

Known issues:

1. Rare: In some cases user defined data types will be recreated under user's default schema, not the "dbo" schema. Although, in the most cases "User defined data types" are not used by DNN modules.
2. Rare: After restoration, "timestamp" column values will not correspond original values after the database restoration. This is the way "timestamp" data type behaves by design. See "SQL Books Online" for more details.

March 27, 2006

1. Fix: Addressed the issue where module will not function under "Medium" trust ASP.NET setting. Partially trusted callers will be allowed to call the module.(<http://support.microsoft.com/?kbid=839300>)

March 19, 2006

1. Fix: Fixed "Wait.aspx page not found" error in cases when portal been located in subfolder of a domain.
2. Fix: Applied "Normal" stylesheet class to all text in the module, so it will look consistent with other DNN modules.
3. Fix: File not found error after executing "DesktopModules/RemotePortalBackupRestore/RestoreDatabase.aspx".
4. Feature: Automatic removal of "DatabaseBackup.xml" if it was accidentally left by administrator or due to restoration process failure.
5. Fix: Module was not redirecting to default page of the WEB site, after complete database restoration is complete.

March 12, 2006

1. Feature: Added support for DNN 4.X
2. Feature: Migrated to ASP.NET 2.0
3. Fix: Added transactional model to database restore process. Now restore process will rollback all database changes in case of some error.
4. Feature: Optimized database cleaning functionality. Depended database objects will be properly discovered and removed.
5. Fix: Large ZIP files may get corrupted or not completely downloaded. Implemented different file download behavior that will prevent file corruption during download process.
6. Feature: Added support for MS SQL 2005

February 2, 2006 - First public release

1. Support for DNN 3.X and MS SQL 2000

2 Product Support

Evaluation Users

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Gold Support has the same benefits of free support, but response times to support portal cases are typically within an hour or two within business hours (sometimes immediate) as well as phone support. Gold support subscribers have the added benefit of upgrade protection for all software covered by the contract, for a full year from the date of purchase.

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3 Contact Us

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USA

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Monday - Friday 9.00 AM - 5.00 PM
Saturday CLOSED
Sunday CLOSED

Phones:

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(678) 200-2008

Web/ Email: www.xpidea.com

Support: support@xpidea.com

General Info: info@xpidea.com

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Backup / Restore Module for DotNetNuke.

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