

FTP Shadow 2.1

User Manual

Official Site: <http://www.JustDotNet.biz>

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Chap.1: Introduction

At the FTP service realm, there are too many products to choose. Multifunction, stability and facilities, which is your think of most great?

Now, let the FTP Shadow bring a perfect choice – **JUST SELECT ALL.**

FTP Shadow is NOT an FTP service software, but passing on your existing FTP service to add a layer carrying out additional functions, making the FTP that stable originally become more functional and easily, and making you be able to choose some high performance but hard configured FTP service software.

After installing FTP Shadow, the FTP clients should be connected to the service port which FTP Shadow works on directly. Then FTP Shadow will link to an FTP server after the client account verified, hand over the commands of client to a specified FTP server transparently, and return FTP server's feedback to FTP client transparently, too. In this process, FTP client will not feel different from directly connection to FTP server and no need to configure anything especially for FTP Shadow.

The FTP Shadow mainly has following functions:

1) Authentication Agency

After a client connected, FTP Shadow will authenticate the account and password instead of real FTP server. If passed, FTP Shadow can connect to the specified FTP server with specified account / password, which can be gotten from the account information set in FTP Shadow, and changing the working directory on FTP server. This function helps you get many users login by one account in real FTP server and each of them has one account with password. It also can keep your real FTP server password secret to all users. Changing passwords of these accounts is easy by manual or one automatic program.

Caution: Account and password are typed capital sensitively.

2) Separated Directories

With the special technology in FTP Shadow, multi-user for one FTP server is much better than before. After logged in, FTP Shadow will lock the account in one specified directory and make it as home.

For example, there are two directories named "A", "B" in one FTP account.

Administrator can just set the directory "A" as the home of one account. When one FTP client login by this account, the directory "A" will be shown as its home directory, both in file list and directory name. And it cannot see the directory "B" and other directories which are in the same level of directory "A" or above. This

function just enabled you to separate accounts into different directory for multi-user environment safely.

3) Permissions Configuration

With FTP Shadow, you can also configure permissions for each account. First, all accounts are not allowed to change the real FTP server password by using FTP command "Site PSWD". Second, each account can be set to READONLY mode. In this mode, account cannot create, append, re-name or delete files and directories. Last, FTP Shadow can just set "which kinds of files cannot be uploaded" for each account. Administrator can limit the ASP/ASPX/ASMX files uploaded to prevent some attacks for the server by HTTP service.

4) FTP Service Redirection

FTP Shadow can connect to FTP servers installed not only in the local host, but also anywhere which can be access by the local host. By using FTP Shadow, you can redirect the remote FTP servers to the local host by using different accounts to login. If the local host has one WAN IP, you can redirect some FTP servers in your LAN to the local host for WAN users' access. This function makes it able for some LAN FTP servers to be accessed by WAN users.

5) More security & stability

FTP Shadow can set IP block table in order to avoid some attack from specified IP. FTP Shadow has two temporary blocking lists. (1) For vicious password trying: Clients from one IP try password more than specified times in specified second will be blocked temporarily. (2) For server limitation: Clients from one IP try to create new links for specified times in specified seconds while max count reached (max count / max count per IP) will be blocked temporarily. Of course, you can set all the setting values, or just disable this function.

Thanks to FTP Shadow redirection, the attacker may not find the real IP of the FTP Service or even cannot connect to it directly. It makes **unprecedented security** of your servers.

6) Easy Configuration

FTP Shadow provides not only a free management tool for configuration, but also a totally free interface for your further development. A Microsoft .Net framework programmer can easily build a full functional monitor and modify tool with the interface supplied. And also, you can just write your code to modify the settings saved in SQL Server database.

7) Cheaper & Faster

If your FTP Server is based on Microsoft Windows Server family system, we suggest that use FTP Service of IIS instead of any other one. With enhancements provided by FTP Shadow, FTP Service of IIS can meet your target of requirements.

And also, it's free for you and faster than any other one with lowest resource cost.

FTP Shadow based on Microsoft .Net Framework 2.0 and compiled in Windows Service mode. It can be running stability without any buffer overflow bug.

FTP Shadow can be adapted to different hardware and software systems. On Windows running at x86, x64 and IA64 computers, FTP Shadow always use the correct code automatically and smartly. In x64 system particularly, FTP Shadow doesn't use 32-bit code just like old type programs but 64-bit code which use to not only safe stability, and can appear the powerful motive of your 64-bit computer.

Account configurations of FTP Shadow can be saved in one SQL Server database. FTP Shadow support SQL Server 2000 and above. It makes you easy to create your own account manager program to combine the FTP service into your existed service platform. FTP Shadow can also support SQL Server 2005 Express Version which can be downloaded from Microsoft totally free to save your money. If you only use FTP Shadow without combining to your existed management platform, you can simply use an XML file to store account configurations.

Chap.2: Installation Guide

Before your installation, you need to:

- 1) Download FTP Shadow 2.1 files.
- 2) Install Microsoft .Net Framework 2.0 / 2.0 Service Pack 1 / 3.0 / 3.5.
- 3) Install Microsoft SQL Server or save settings to another computer with Microsoft SQL Server installed. (If needed)

When ready:

- 1) Install files

Just decompress the file you downloaded to a new folder.

When decompressed, these files can be found in the folder:

MainService.dll: FTP Shadow 2.1 main service.

ManagementInterface.dll: An interface for service monitoring and modifying.

FTPShadowWindowsService.exe: FTP Shadow 2.1 Windows Service.

Setup.exe: FTP Shadow 2.1 Windows Service Installer.

FTPShadowConsoleService.exe: Console version of FTP Shadow 2.1.

And there will be some configuration (with the extension name “.config”) and log files created by Master and .Net Framework.

- 2) Create database

If you want to use an XML file to store settings, go to step 3;

If you want to use a SQL Server to store settings, go to step 4;

- 3) Create database (XML file mode)

If you don't need to combine FTP Shadow to your existed management platform, you can use an XML file to store account settings. All you need is set the path of the XML file (in step 7).

Go to step 5 to continue.

- 4) Create database (SQL Server mode)

FTP Shadow supports SQL Server 2000 or 2005 (SQL Server 2005 Express version included). Before using FTP Shadow, you need to create a database for saving the settings.

After database creation, create two tables by using this SQL code:

This one:

```
CREATE TABLE [dbo].[PermanenceBlock](
  [IP] [varchar](40) NOT NULL,
  CONSTRAINT [PK_PermanenceBlock] PRIMARY KEY CLUSTERED
  ( [IP] ASC)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON
  [PRIMARY]) ON [PRIMARY]
```

And this one:

```
CREATE TABLE [dbo].[FTP](
  [UserID] [varchar](256) NOT NULL,
  [PasswordHashed] [char](24) NOT NULL,
  [IP] [varchar](256) NOT NULL,
  [Port] [int] NOT NULL,
  [AccessID] [varchar](256) NOT NULL,
  [AccessPass] [varchar](256) NOT NULL,
  [Path] [varchar](256) NOT NULL,
  [LocalIP] [varchar](256) NOT NULL,
  [LimitExt] [varchar](256) NOT NULL,
  [ReadOnly] [bit] NOT NULL,
  [NeedRedirection] [bit] NOT NULL,
  [MaxCount] [int] NOT NULL,
  [MaxCountPerIP] [int] NOT NULL,
  [Enabled] [bit] NOT NULL,
  CONSTRAINT [PK__FTP__7E6CC920] PRIMARY KEY CLUSTERED
  ( [UserID] ASC)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF)
  ON [PRIMARY]) ON [PRIMARY]
```

You can create tables by your operation without this code too.

Please create the correct database connection string for your environment.

For example (SQL Server 2000 / 2005):

(You should replace the value texts.)

server=127.0.0.1;database=FTPShadowDatabase;uid=Username;pwd=Password

If you are using SQL Server 2005 Express:

(You should replace the value texts.)

Data Source=.\SQLEXPRESS;Database=FTPShadowDatabase;Integrated
Security=True

SQL Server 2005 Express with advanced service (free) is recommended for a GUI management tool included (tip: unclick “hide advanced configuration options” to the select management tool while installing).

5) Modify the configuration files

Please open configuration files by any text editor, for example, notepad.exe.

- (1) Please change the authentication code to any other string you like (using English letters and numbers only). This value is included in "AuthData" block of "FTPShadowConsoleService.exe.config", "FTPShadowManager.exe.config" and "FTPShadowWindowsService.exe.config". Please set the same value to these 3 files.
 - (2) If TCP port 61025 (for management) is used by any other program in your computer, please edit the configuration files to change the settings before you start FTP Shadow. Management port is set by "RemotingPort" block of "FTPShadowConsoleService.exe.config", "FTPShadowManager.exe.config" and "FTPShadowWindowsService.exe.config". Please set the same value to these 3 files.
- 6) Install and start service
- Run "Setup.exe", choose to install service, and start the service.
- Service is set to automatically start mode by Setup. FTP Shadow 2.1 service will start while operation system loading without reference to login or not.

Or

You can use Console Version by Run "FTPShadowConsoleService.exe".

If the FTP Service port your set (default is 21) is used, FTP Shadow will choose a free port to start the service and write the port value to configuration file.

- 7) Configure service
- Run "FTPShadowManager.exe" while windows service or console version is running to monitor and modify FTP Shadow service.
- You need going to "Setting" paragraph to change database service mode (XML File / SQL Server), database connection string (or file path) and IP address / port first before using FTP Shadow service and modifying any other settings.

Tip 1: FTP Shadow windows service version supports file based log. To enable it, modify the "FTPShadowWindowsService.exe.config" LogToFilePath value. For example, if the value is C:\FSLog, the log file name will be C:\FSLog\20061122.log on Nov. 22nd, 2006 (one file each day). Leave blank to disable this function. After modification, you need to restart the service.

Tip 2: Please release the control (quit the programs which listen on the port) on which you specified in step 3 before start this service.

Tip 3: If you cannot start service, try to use console mode first to find the reason.

Tip 4: Console version has the different configuration file from service version.

Chap.3: Configuration Guide

Run "FTPSHadowManager.exe" while windows service or console version running to monitor and modify FTP Shadow service.

Tip: Do NOT close the service application while management tool running. Please use start and stop service functions in management tool instead.

1) To create, edit or delete a user

Click "User" link left, you will see the current user list.

To create a new user, just click "New" link above the list.

To edit or delete a user, just select it in the list.

After click "New" or select a user item, "User Info" will be shown. You can modify settings and click "Save settings" link to save, or click "Delete this user" to delete.

User name: the name of the user to login the FTP Shadow by FTP client software.

Password: the password of the user. If "Anonymous User" clicked, no password is needed while user login.

Remote Server: the setting of the real FTP service which will be connected from FTP Shadow. User will be locked in the "Home Path" and will see nothing out of this virtual path. You may need to edit "IP for connecting to FTP Service" setting to specify the local IP address for establishing the connection to the remote FTP service, or to leave the default setting "0.0.0.0" for using any usable address.

Limitation: you can enable or disable the user by check "Enable this user".

"Readonly Mode" user cannot write or change any data at the FTP service. And you can specify kinds of files by extension name which cannot be uploaded or renamed, too.

User count: you can specify the "Max user count" and "Max user count per IP" here.

Enhanced: you can choose whether to use "Datalink Redirection" or not. It is no need for FXP supported services but installed on your local network. It's required by IIS FTP service (server version only).

2) To view current block list or modify block settings

Click "Block" link left, block list will be shown.

You need to click “Refresh” link to load the current block list. You can add (only for permanence block list) or delete blocked IP by clicking links.

Temp blocked user list is rechecking every one minute at the server (but not refresh to this user interface automatically).

You can enable the auto block system (temp block list) by fill the values of “Block settings”.

3) To view online user list

Click “Online” link left, online list will be shown.

You need to click “Refresh” link to load the current online user list. You can kick one user off by click “Kill” link after select it.

4) To modify system settings

Click “Setting” link left, then modify the system settings in the right panel.

Server IP for Data Redirection: this IP will be used to send to the FTP client in order to create data link to FTP Shadow.

If you are in DMZ (you have only some LAN IPs but can be accessed by using a WAN IP address from users outside the LAN):

You need to specify a public accessible IP. If you don’t have a static IP, try to get a dynamic domain service first and set this textbox value the domain name you got.

If you are not in DMZ (you have the IP which you want to be accessed by users): Leaving blank is recommended.

Welcome Text: this text will be shown when an FTP client connected to your service as a part of FTP banner.

5) To register

At the end of “Setting” panel, there is a textbox for you to register FTP Shadow.

After purchased, copy the license key text to this textbox and click “Register” link.

Caution: FTP Shadow Manager and any other management tool for FTP Shadow will **NOT** check your license key. Please try to connect to your FTP Shadow by one FTP Client after entered your key. If succeeded, you will see your registered name as a part of FTP banner.

6) To upgrade

You can upgrade to new version for free in your license time.

Step:

1. Download the new version and decompress it.
2. Stop the FTP Shadow service.
3. Copy the files to overwrite the old FTP Shadow.

4. Start the FTP Shadow service.
5. Re-configure the service (by step 4 of this chap). And you need to re-register once again with your license key text (by step 5 of this chap). To avoid this step, please “Export settings” (in management tool), and “Import settings” after upgrade.

Chap.4: Uninstall

If you want to uninstall FTP Shadow, please follow these steps:

- 1) If you are using console version of FTP Shadow, close it by press enter in the console window.
- 2) If you are using windows service version of FTP Shadow, start “Setup.exe” to stop the service and uninstall it.
- 3) Delete the FTP Shadow folder you created while installing.

That’s all you need.

Tip: All configurations include license key will be deleted by step 3 too.

Tip: Don’t forget to delete your database for FTP Shadow (if needed).

Chap.5: FTP Commands Filter

FTP Shadow filters these commands listed below.

CAUTION: If your FTP server supports other commands, they will go through the FTP Shadow without changing and checking. Please make sure that they are safety first.

Client:

Cmd	Change	Remark
USER	Authentication Agency	
PASS		
REIN	Disabled	
ACCT	Disabled	
SITE PSWD	Disabled	
CWD	Change the directory path by applying virtual home path	
RMD	Change the directory path by applying virtual home path	Disabled in ReadOnly mode
MKD	Change the directory path by applying virtual home path	Disabled in ReadOnly mode
XCRC	Change the file path by applying virtual home path	
LIST	Change the directory / file path by applying virtual home path	
STAT	Change the directory / file path by applying virtual home path	
RNFR	Change the file path by applying virtual home path	Disabled in ReadOnly mode
RNTO	Change the file path by applying virtual home path; Limit the file extensions	Disabled in ReadOnly mode
DELE	Change the file path by applying virtual home path;	Disabled in ReadOnly mode
STOU	Change the file path by applying virtual home path; Limit the file extensions	Disabled in ReadOnly mode
STOR	Change the file path by applying virtual home path; Limit the file extensions	Disabled in ReadOnly mode
APPE	Change the file path by applying virtual home path; Limit the file extensions	Disabled in ReadOnly mode
RETR	Change the file path by applying virtual home path;	
SITE IP	Disabled	While "Datalink Redirection" Enabled

STAT -I	Disabled	
SMNT	Disabled	
NLST	Disabled	Avoid unauthorized downloading
PORT	Start data link redirection	While “ <i>Datalink Redirection</i> ” Enabled

Server:

Cmd	Change	Remark
331	Authentication Agency	
230		
250	Return with no path string	
257	Return with no path string	
550	Return with no path string	
553	Return with no path string	
227	Start data link redirection	While “ <i>Datalink Redirection</i> ” Enabled

Chap.6: About Registration

As a shareware, you can test almost all the functions before you purchase it without time limitation. To use FTP Shadow in commercial situation or obtain all functions, please purchase one license at <http://www.JustDotNet.biz>.

- 1) By using FTP Shadow unregistered version, all but password check function are usable. All accounts' passwords are set to "JustDotNet". There is an "unregistered version" notice in FTP banner too.
- 2) When purchased, you will receive a text file soon. Put the key offered in the text file into FTP Shadow Manage register textbox and click "Register" link.
- 3) The license is time limited. After the life period, you need to re-purchase a new one or go back to unregistered version. When you get the new one, just do the step 2 again.
- 4) For easier changing license, almost kinds of license have some extra time free for you. For example, the time period of 1 year license is 400 days in fact. So there is more than 1 month in parallel. You can change the license in any time of this month without stopping your service.
- 5) Before the license expires (about 1 month), there will be FTP Banner information to give you a notice to input the new one.
- 6) **ONE LICENSE IS ONLY CAN BE USED IN ONE COMPUTER** at the same time. You are not allowed to resell or share your license.
- 7) If one license is used illegal (share or resell, e.g.), the licenses owner may need to have a lawsuit to deal with☹.

Chap.7: END USER LICENSE AGREEMENT

(EULA for short)

User: All registered and unregistered users.

Author: The group and group members who wrote FTP Shadow.

- 1) User Rights
 - a) User has right to get the safe and stable software version.
 - b) User can get limited technique support for free. Registered user can get online limited technique support by email.
- 2) Author Rights
 - a) Author has right to keep user in legal using of FTP Shadow. User cannot resell, rent or edit, reverse the project (decompile).
 - b) Author has right to refuse the support which are not related to FTP Shadow.
 - c) If user use FTP Shadow and / or license illegal, author has right to stop the license lifetime, and all rights are reserved to prosecute illegal users.
 - d) Author refuses to accept the risks and losses of FTP Shadow software flaws or all information / errors which are pointed out in manual or official site before the losses occurred.
- 3) Other
 - a) For environment differences, software may not be running well at your computer. Please try before purchase a license.
 - b) All errors or losses not caused by FTP Shadow will not be accepted by FTP Shadow's Author.
 - c) From situations beyond human control or which cannot be deal with current technology, author refuses to accept the risks and losses.