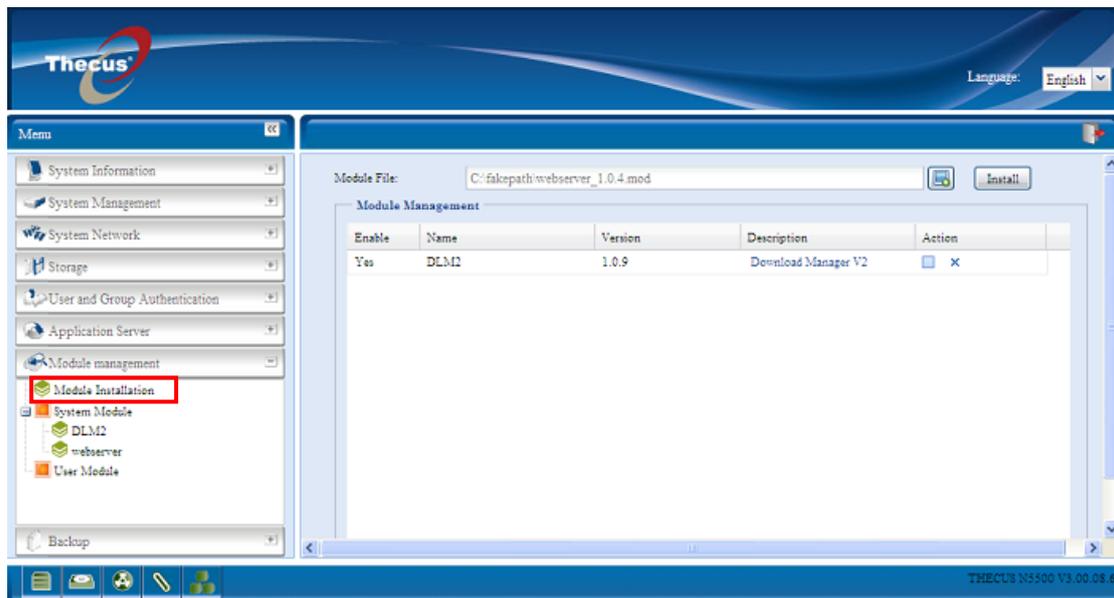


# Web Server User Guide

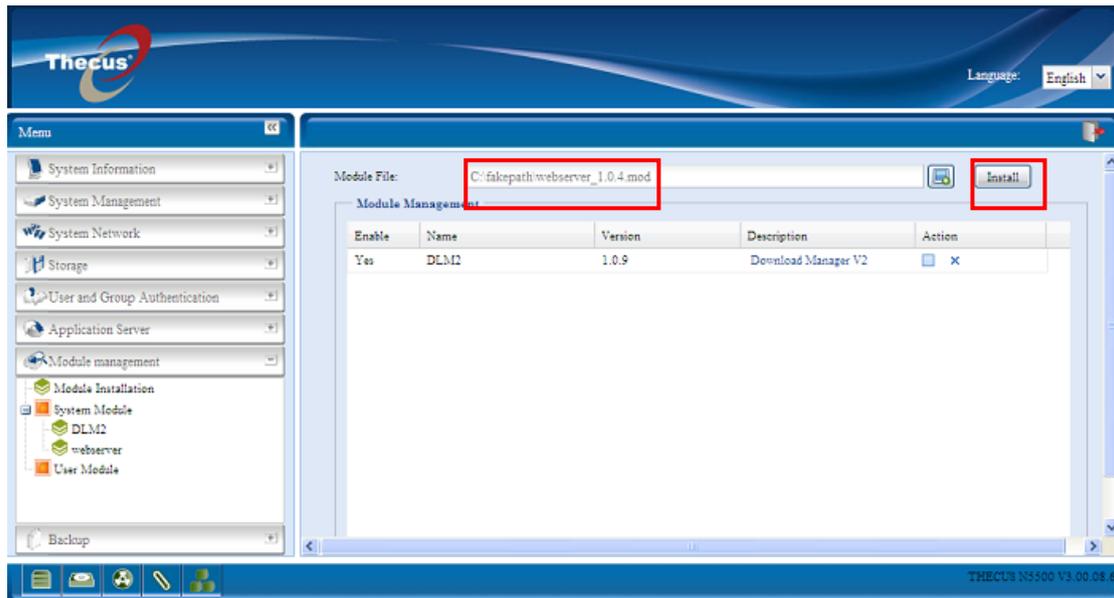
One of the best features of the Thecus NAS is its nearly unlimited expandability through modules. With new modules, users can extend what the Thecus NAS can do. In this guide, you will learn how to install and use Thecus' latest module: **Web Server**. With it, you can use the Thecus NAS as a Web Server.

You can install the **Web Server** module via **Module Management > Module Installation**. See the figure below for reference.

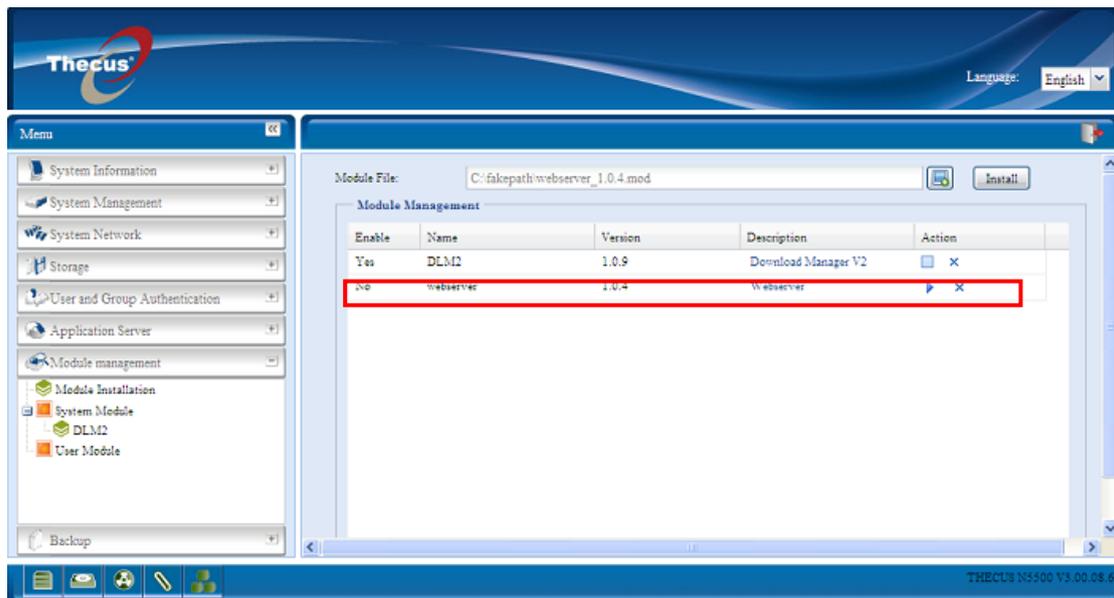


Next, install the Web Server module. You can get it either from the Thecus web site (<http://www.thecus.com>) or on the CD included with the package.

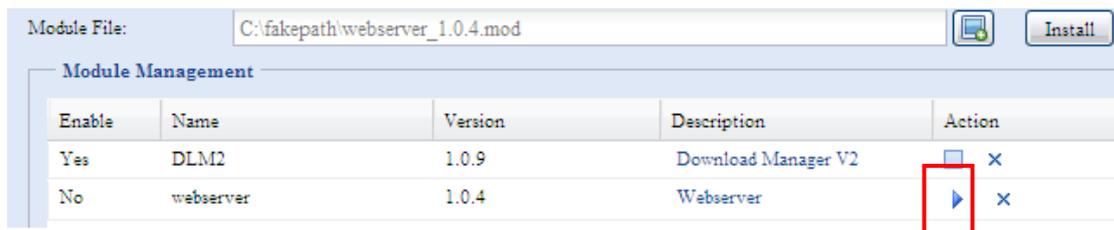
Next, click **Browse** to locate the module file. Then click **Install** to complete the Web Server module installation.



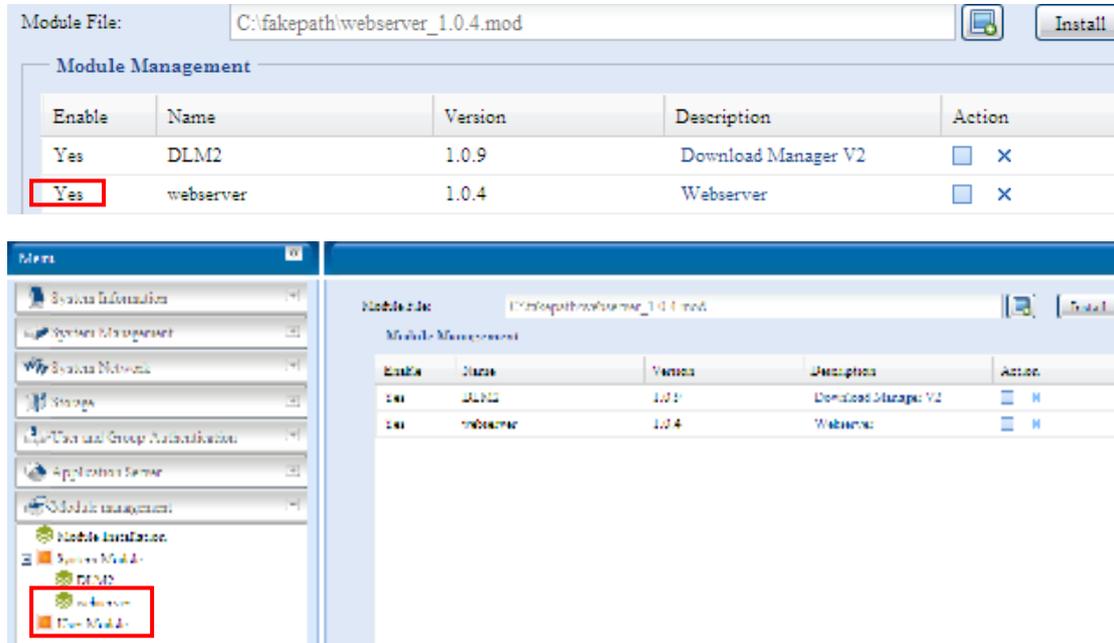
Once installation is successful, the module will be displayed in the **Module Management** window:



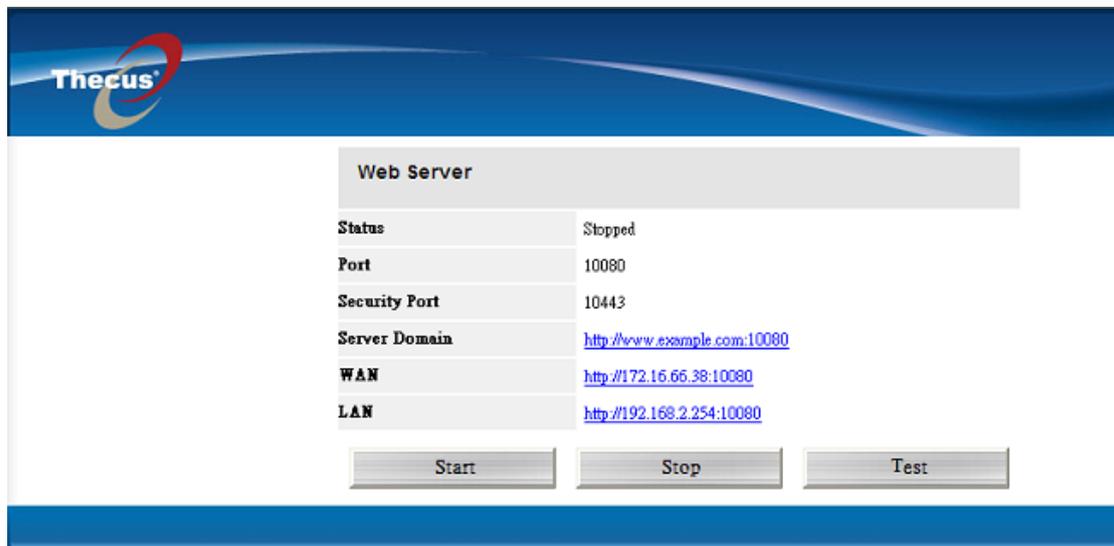
To activate the IP CAM module, click  and then confirm to “Enable”. See the figure below for reference.



The figure below shows the status for Web Server module after installation. Meanwhile Web Server function is located under **System Module of Module Management**.

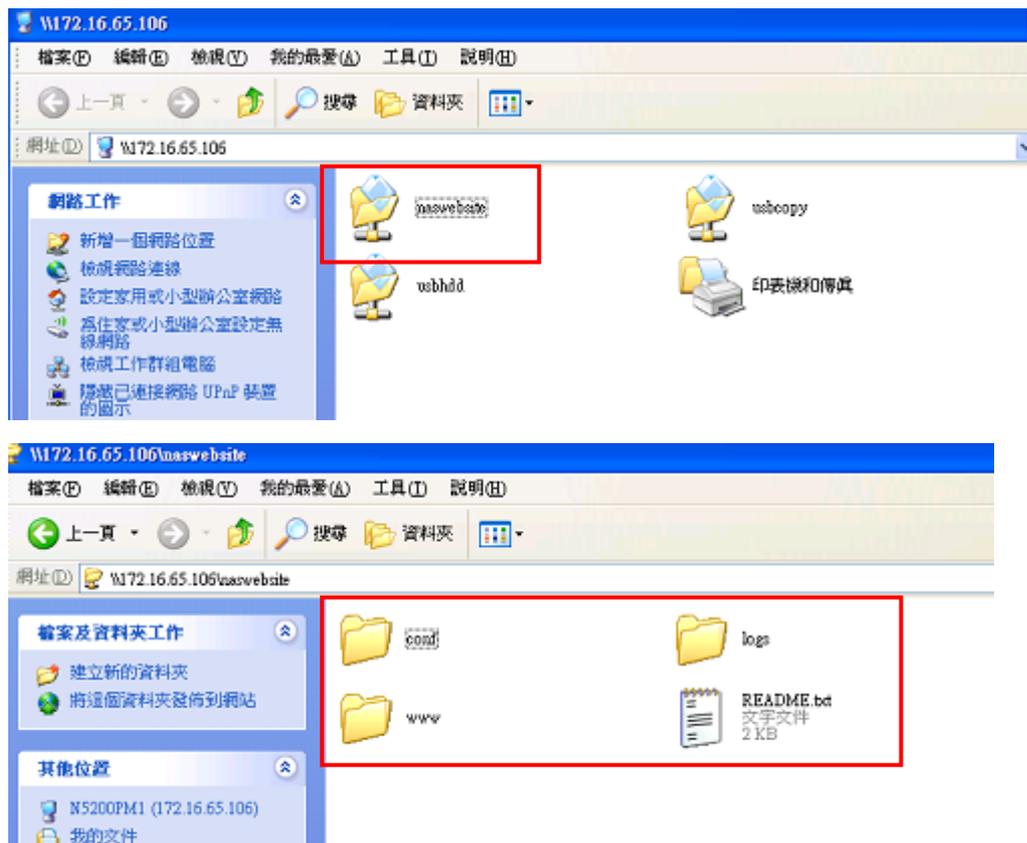


To start setting up the Web Server function, double click the Web Server from **System Module** category and the setup screen will appear as below:



The Web Server will use the following settings by default:

1. Port usage: 10080
2. Security port usage: 10443
3. System share folder: naswebsite (Please refer to the screenshot below)
4. Subfolders of the system share folder: “conf”, “logs”, “www” and file readme.txt.
5. Default Web Server User: nobody.
6. Default Web Server User Privileges: Public



To start the Web Server service, simply click Start on the Web Server window. You can refer the screen shot below for details.

The screenshot shows a control panel for a 'Web Server'. It features a table with configuration details and three buttons below it.

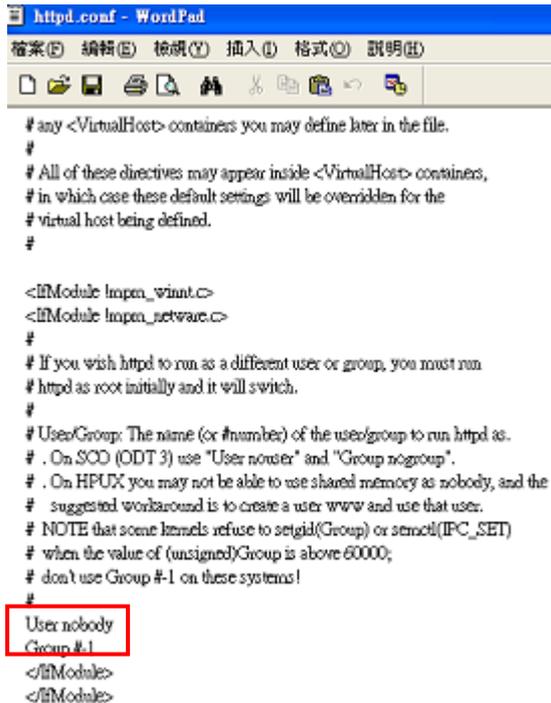
Web Server	
Status	Stopped
Port	10080
Security Port	10443
Server Domain	<a href="http://www.example.com:10080">http://www.example.com:10080</a>
WAN	<a href="http://172.16.66.38:10080">http://172.16.66.38:10080</a>
LAN	<a href="http://192.168.2.254:10080">http://192.168.2.254:10080</a>

Below the table are three buttons: 'Start', 'Stop', and 'Test'.

In the above diagram, the Web Server has started with the default user “nobody” with “Public” privileges as mentioned earlier. This means that anyone can access the Web Server system folder “naswebsite”, its subfolders, and files. As this is potentially a serious security threat, we strongly suggest that all users are properly configured with ACL privileges.

To do this, you may change “naswebsite” system folder status from “Public” to “ACL” by navigating to **Storage > Folder** from the Main Menu. Then, assign user(s) with read/write privileges for the “naswebsite” system folder.

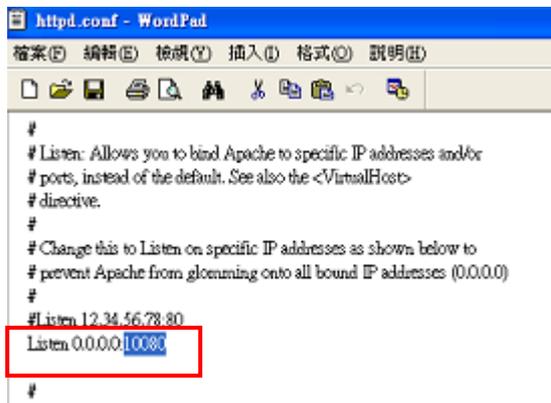
After you have done this, you need to modify “httpd.conf” file, which is located at <\\naswebsite\\conf\\httpd.conf>. The “**User nobody**” needs to be changed to a user you have assigned for “naswebsite” system folder . For example, if “david” is a user with read/write privileges for the “naswebsite” system folder, you can change “**User nobody**” to “**User David**”. Please refer the screenshot below for reference.



```
# any <VirtualHost> containers you may define later in the file.
#
# All of these directives may appear inside <VirtualHost> containers,
# in which case these default settings will be overridden for the
# virtual host being defined.
#

<IfModule !open_wint.o>
<IfModule !open_nrtware.o>
#
# If you wish httpd to run as a different user or group, you must run
# httpd as root initially and it will switch.
#
# User/Group: The name (or #number) of the user/group to run httpd as.
# . On SCO (ODT 3) use "User nobody" and "Group ngroup".
# . On HP-UX you may not be able to use shared memory as nobody, and the
#   suggested workaround is to create a user www and use that user.
# NOTE that some kernels refuse to setgid(Group) or semop(IPC_SET)
# when the value of (unsigned)Group is above 60000;
# don't use Group #-1 on these systems!
#
User nobody
Group #1
</IfModule>
</IfModule>
```

You may also like to change Web Server port number from the default 10080 to another. Once again, you can change it from “httpd.conf” file. See the screenshot below.



```
#
# Listen: Allows you to bind Apache to specific IP addresses and/or
# ports, instead of the default. See also the <VirtualHost>
# directive.
#
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from gloomining onto all bound IP addresses (0.0.0.0)
#
# Listen 12.34.56.78:80
Listen 0.0.0.0:10080
#
```

Please always stop the web server service before making any modifications to the “httpd.conf” file. After completing your modifications, restart the web server to activate service. Do not make any changes to the “httpd.conf” file while the web server is running or it could cause unexpected errors

To verify that the “httpd.conf” file has been correctly modified, click the **Test** button from Web Server window to have the system check the syntax of the

configuration file and report its status.

## PHP v5.1.2, MySQL and SQL-Lite Web Server Support

You may also have PHP and MySQL or SQL-Lite work together with this Web Server module.

Below is an example of how to have your PHP program retrieve MySQL and SQL-Lite supported information.

There is a file `index.php` place in the path [\\<NAS-IP>\naswebsite\www](http://<NAS-IP>/naswebsite/www) directory.

Then, you can get information from the currently supported MySQL and SQL Lite version by using the URL: [http://Web\\_Server\\_IP:81/index.php](http://Web_Server_IP:81/index.php).

### mysql

MySQL Support	enabled
Active Persistent Links	0
Active Links	0
Client API version	5.0.33
MYSQL_MODULE_TYPE	external
MYSQL_SOCKET	/tmp/mysql.sock
MYSQL_INCLUDE	-I/raid/data/module/MySQL_5/mysql/include/mysql
MYSQL_LIBS	-L/raid/data/module/MySQL_5/mysql/lib/mysql -lmysqlclient

### SQLite

SQLite support	enabled
PECL Module version	2.0-dev \$Id: sqlite.c,v 1.166.2.11 2006/01/01 12:50:14 sniper Exp \$
SQLite Library	2.8.17
SQLite Encoding	iso8859