

CLOUDPROOF USER MANUAL  
MODEL-APPLIED: M SERIES  
APPLICABLE VERSION: 2.0.X



Atop Technologies

[www.cloudproof.com.tw](http://www.cloudproof.com.tw)

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## Version Claims, Version Acknowledgement

### Legal Notices

#### Trademarks

Trademarks used in this text: *Google* and *Google Apps* are trademarks of Google Corporation.

#### Standards Compliance

CE/FCC.

#### Acknowledgments

This product includes software developed by the At mail project (<http://atmail.org>) which is under the Apache 2.0 Open Source license <http://www.apache.org/licenses/LICENSE-2.0.html>

This product includes software developed by the ElFinder project (<http://elrte.org/elfinder>) which is under the 3-clauses BSD license <http://www.opensource.org/licenses/BSD-3-Clause>.

## Chapter 1. Introduction and Quick Install

### 1-1. Production Introduction

The Main purpose of CloudProof M serious is to help organizations manipulate cloud computing infrastructure in a flexible and reliable way, while they deploy cloud service. Also, a value added service can be achieved by utilizing a hybrid cloud model that makes the interoperability between public and private cloud.

CloudProof M serious versions provide the interoperability with Google Apps. In a common deployment, the CloudProof appliance is placed at an organization's data center with an IP configured that computers located in the organization can directly connect to it.

The hardware installation is introduced in sectionn1-2, while the network setup is introduced in section 1-3. Next, CloudProof M serious requires the creation of information related to the public cloud. Section 2-1 includes configurations for setting up connection with Google Apps. Section 2-2 includes configurations to establish user account. After that, users can login CloudProof M serious, and begin to use the related functions; please refer to chapter 3 for the detailed configuration. Administrators can configure and manage the network and storage related functions of CloudProof M serious; please refer to Chapter 4 for the detailed configuration.

## 1-2. Hardware Installation introduction

### 1. Front panel introduction

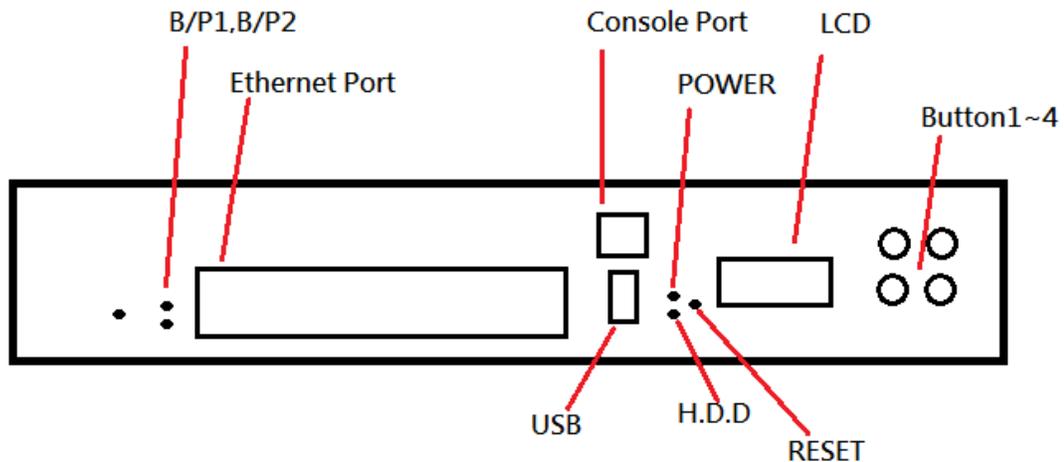


Fig. 1-4

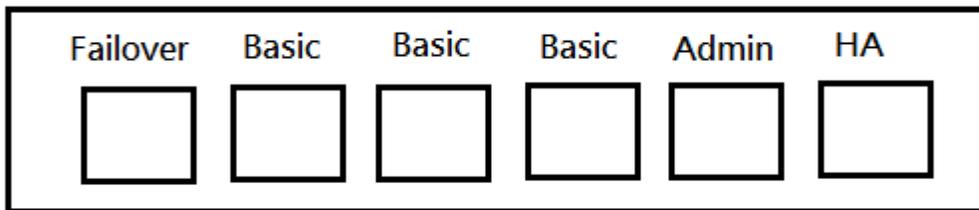
- Main Part
  - ◆ Ethernet Port: 6 Ethernet ports including both M1000 and M2000 series.
  - ◆ Console Port: 8-pin serial port interface, for vendor maintenance.
  - ◆ POWER: LED showing green light, indicates the appliance is at booting status.
  - ◆ H.D.D: LED showing flashing light, indicates the system is reading or storing data from to to the built-in hard disk.
  - ◆ LCD: LCD interface provides simple information for management use.
  - ◆ Button1~4: 4 buttons for controlling LCD interface.
  
- Reserved Part(current not used)
  - ◆ B/P1, B/P2: Bypass LED, Green light indicates normal mode, red light indicates bypass mode.
  - ◆ USB: 2 USB ports
  - ◆ RESET : Reset hidden button

2. Rear panel introduction



Fig. 1-5

- Ethernet port usage description



There are 6 Ethernet ports, and each has its respective function as below:

Port 1: Failover link port, Provides for Backup network link.

Port 2: Basic Link port

Port 3: Basic Link port

Port 4: Basic Link port

Port 5: Admin port, for administrator link use, default ip is 192.168.119.119.

Port 6: HA port, For High Availability function

- Install introduction  
 There are 2 built-in hard disks which have been formatted for access by the host. First time using this machine; please use Ethernet cable to connect to the 5<sup>th</sup> port on the host from a PC or NB which you use to configure the host. Since the default IP of the host is 192.168.119.119, so it is necessary to configure the PC or NB's IP as 192.168.119.xxx, then connecting to the host's web page and starting to setup the network.

### 1-3. Network Environment setup

1. First, please connect to the 5<sup>th</sup> port on the host from the administrator's computer, directly or through a switch. Then, change the IP address of the administrator's computer to 192.168.119.2, subnet mask to 255.255.255.0, as through Control Panel -> Network Link -> LAN -> Content, (refer to Fig. 1-5).

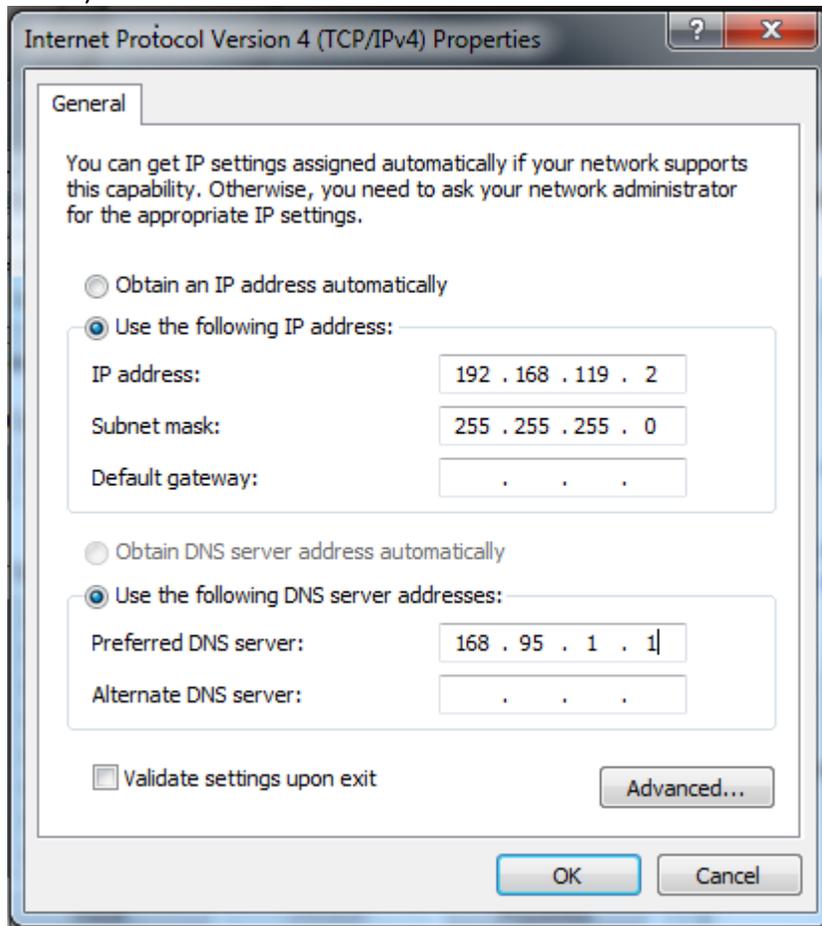


Fig. 1-5

2. Start web browser (IE or Firefox), and key in the URL as <http://192.168.119.119>, then the login page will show up.
3. Since the default administrator's account name is "admin", on the login page, key in "admin" as User Name and its default password "XXXXXXXX" as Password. Then press "Login".

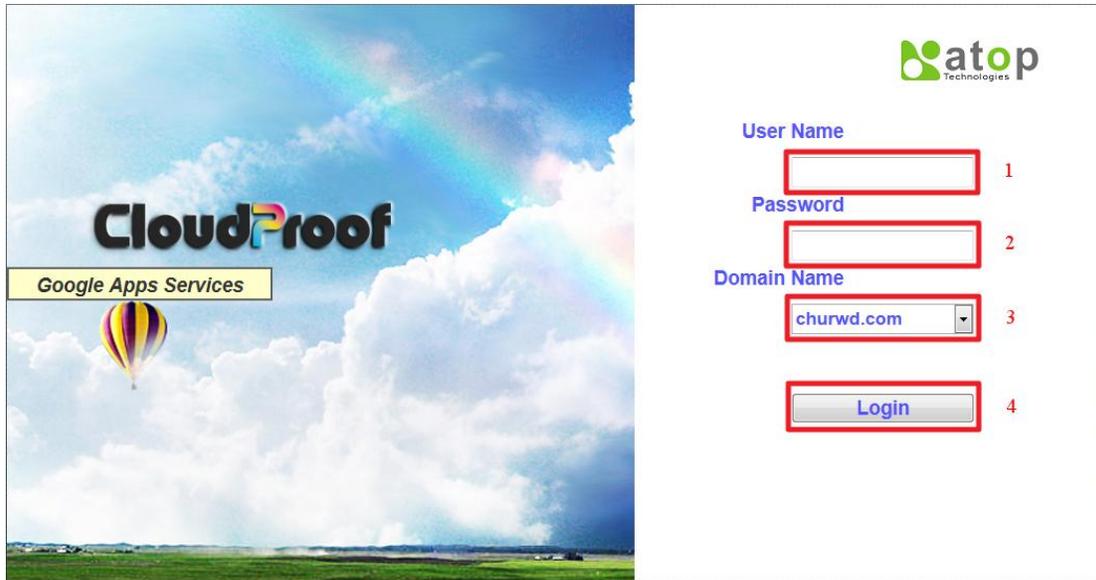


Fig. 1-6

- After successful Login, it will show up the Admin system setup page. There are 2 parts on it, Menu section and Data setup section.

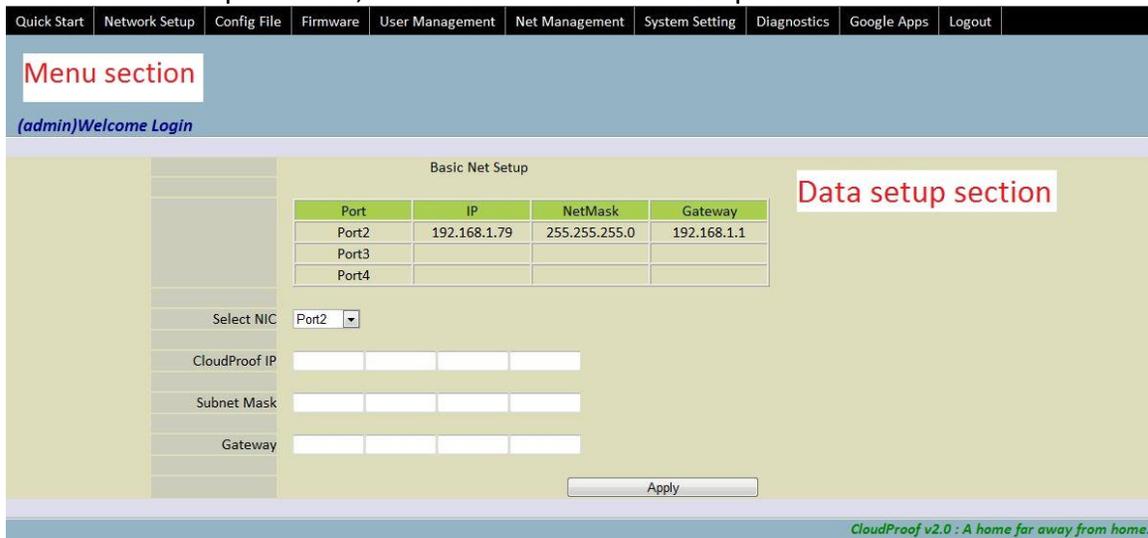


Fig. 1-7

**Menu Section**

All of the function menu lists are here; they are designed as 2 layer menu.

**Data setup Section**

That's where we configure the related parameter items.

5. Setup the basic network connectivity function: Network Setup -> Basic Net Setup



*(admin)Welcome Login*

Basic Net Setup

Port	IP	NetMask	Gateway
Port2	192.168.1.79	255.255.255.0	192.168.1.1
Port3			
Port4			

Select NIC: Port2

CloudProof IP:

Subnet Mask:

Gateway:

Apply

*CloudProof v2.0 : A home far away from home.*

**Select NIC**

Select which port to setup for service (Please use an additional cable to connect this port to a switch).

**CloudProof IP**

Setup the IP address for providing the CloudProof service.

**Subnet Mask**

Setup the subnet mask

**Gateway**

Setup the Gateway IP.

Every entry needs be configured, and then press “Apply”.

6. So far, in order to verify the configuration processes are right, we can change the previous administrator computer’s IP to an IP within the same LAN as configured in STEP 5, and then connect the computer to the configured service port, starting web browser and keying in the URL as the configured service IP, and then make sure if the CloudProof login page shows up.

## Chapter 2. Account management

### 2-1. Google Apps Registration

Google Apps registration includes 2 parts, to register your domain on Google and to certify your domain using DNS. Then configure to store the registered domain related information in CloudProof. And then open the mail service under the registered domain on Google APPS, so now CloudProof can begin to synchronize with.

1. Register your Domain on Google APPS

Login to Admin page, click through “Google APPS -> DS Register in GAS Service”, then the following page will show up.

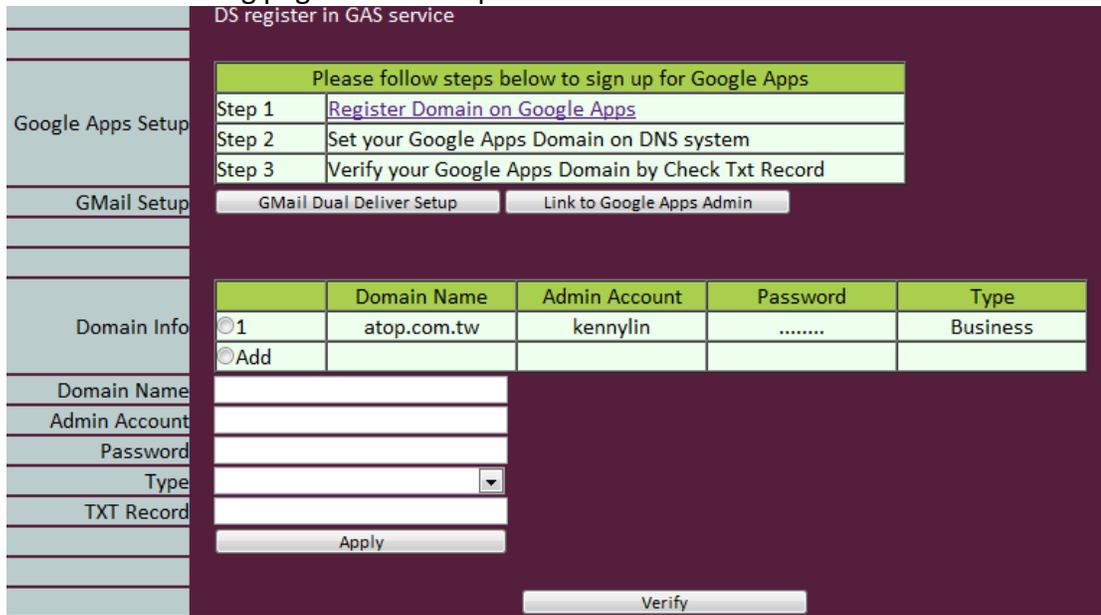


Fig. 2-1

2. Notice that, if you haven't registered Domain on Google APPS, at first, you need to press “Register Domain on Google APPS” to register your Domain. If you already have Google APPS Domain, please go to step 3 directly. Now, we assume you haven't, so please press “Register Domain on Google APPS”. It will lead you to the Domain registering page on Google APPS as below; here please follow Google APPS's registering steps.

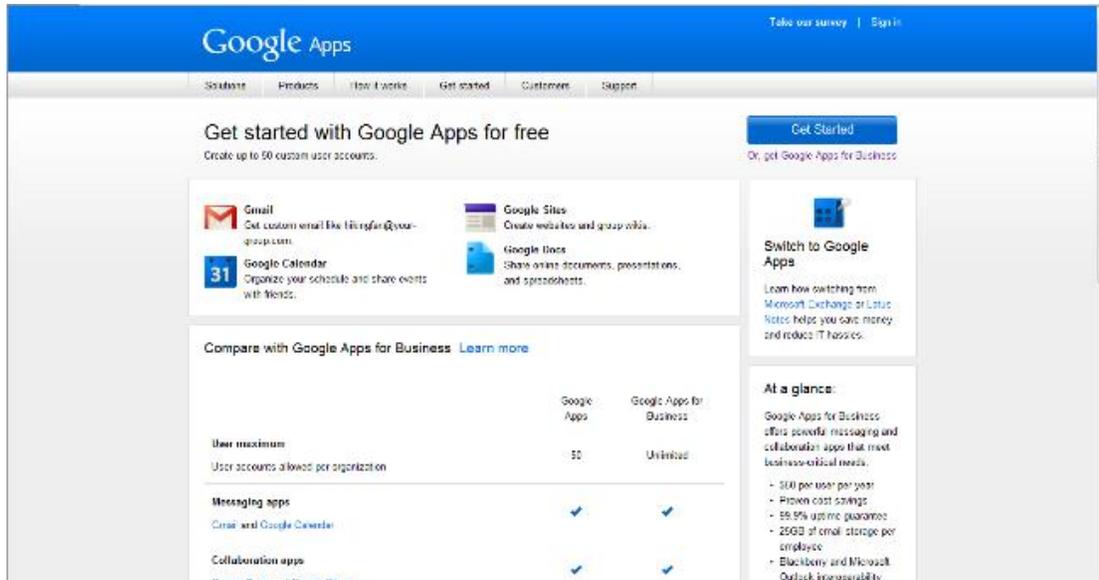


Fig. 2-2

3. Key in Google APPS’s Domain related information on CloudProof. You can use “Verify” to help make sure a successful certification of Google APPS Domain.
  - Key in the Domain Name, Admin Account, Password, Type and TXT Record. Refer to the following figure.

Fig. 2-3

**Domain Name**

Key in your registered Domain Name on Google APPS.

**Admin Account**

Key in the Domain’s administrator’s account.

**Password**

Key in the Password of the administrator’s account.

**Type**

Key in the Type of the Domain (current available options are Free, Business and Other).

**TXT Record**

Key in the Domain certification string you provided on Google APPS.(This is for CloudProof to help certify the Domain. If you make sure that the Domain has been certified or that the certification string been lost, please directly key

in “CloudProof-Verify” as the replacing string.

- Verify  
After pressing “Apply” to apply the Domain, you could press this button, and then CloudProof will use the string you typed in “TXT Record” to help certify your registering Domain on Google APPS.
- All the entries need be configured, after that, press “Apply” to apply the domain.

#### 4. Mails Migration

- As long as the registered Domain has been successfully certified by Google APPS, the Google APPS’s Mail service becomes available for use. If you still want your original Email server remaining active for service, and don’t want a onetime completely transfer, then you have the choice to use the “Gmail Dual Deliver” way. We provide a simple tutoring for using this function. Pressing “Gmail Dual Deliver Setup” to enter the Google APPS Email configuration tutoring page; refer to the following figure Fig. 2-4. You have 2 choices to use this function. One is “Your Mail Server First”, which will use your original Email server to forward mails to Google APPS’s alias Domain (Domain alias). The other one is “Gmail First”; in this choice, the DNS MX will be configured to resolve to Google APPS directly, and mails will be forward to your original Email server.
- After you complete the configuration, you can press the “Gmail Verify” button. Then CloudProof will send a testing mail to the Domain administrator’s mail box which you registered on Google APPS. So once you receive such a confirm mail, then you can make sure you have configured your mail service successfully.

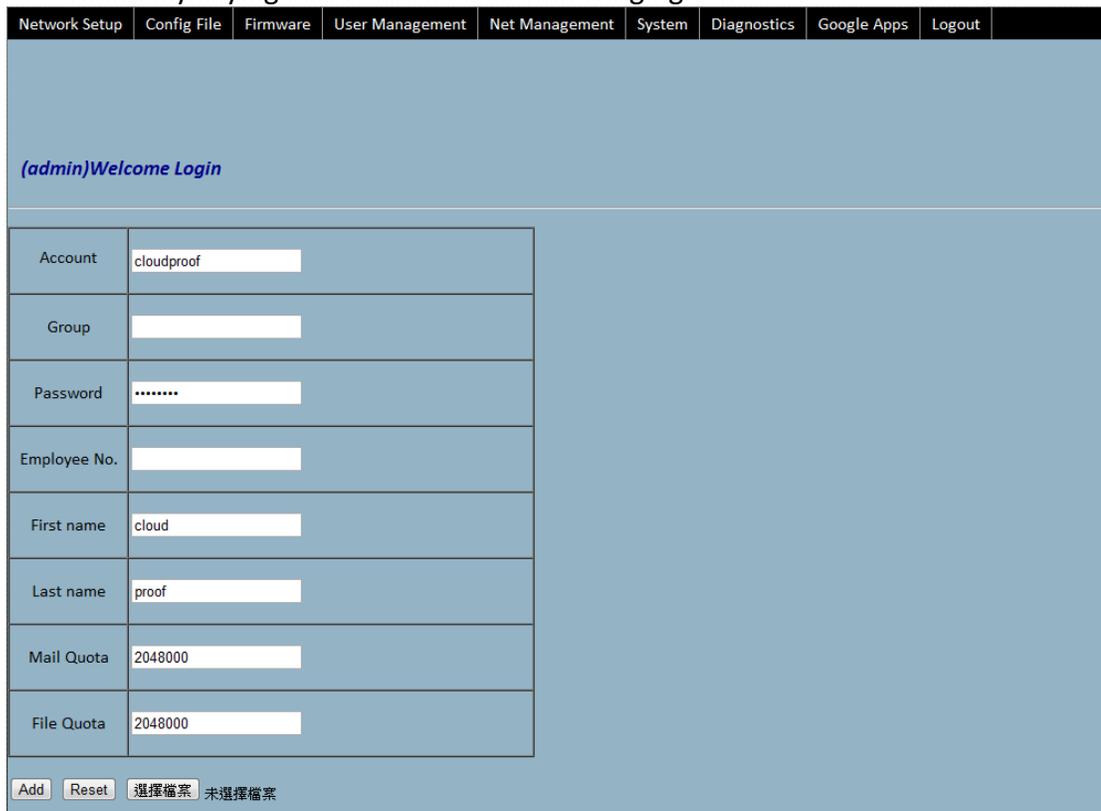


Fig. 2-4

## 2-2. Account creation and modification

### 1. Account Creation

- Before create the account, please make sure the Google APPS Domain management configuration have been setup successfully, otherwise the account could not be created. There are 2 ways to create accounts, one is manually keying in, the other is importing from a csv format file. The menu item for account creation is “Create” under “User Management”, entries for manually keying in is referred to as following figure:



The screenshot shows the 'User Management' menu item selected in the top navigation bar. Below the navigation bar, there is a '(admin)Welcome Login' message. The main content area contains a form for creating a new account. The form has the following fields:

Account	cloudproof
Group	
Password	.....
Employee No.	
First name	cloud
Last name	proof
Mail Quota	2048000
File Quota	2048000

At the bottom of the form, there are buttons for 'Add', 'Reset', '選擇檔案', and '未選擇檔案'.

Fig. 2-5

Each entry’s explanation is as below:

**Account\*:** The account id to be created.

**Group:** The Group which the account belongs to.

**Password\*:** The password for this account, at least 8 characters.

**Note:**

Administrator may not know all users’ passwords of cloud service (i.e. Google Apps) or account server (i.e. LDAP), therefore, he/she can key 8 digitals temporary passwords first. Once users login to CloudProof with their correct passwords, CloudProof will check with Google Apps site or account server and automatically update by the correct passwords.

**Employee No.:** Employee number of this user if any.

**First name\*:** fist name of this employee

**Last name\*:** last name of this employee

**Mail Quota\*:** The upper limit of the mail capacity of this account, unit at KB. For example, 2048000 are 2G.

**File Quota\*:** The upper limit of the file capacity of this account, unit as KB.

**Note:**

Entries marked with \* must be filled in.

- After completing the entries keying, Click “add” bottom, the newly added account will show up in the “Alter accounts list” table at the bottom of this configuration page.

“Alter accounts list” is only a temporary area where you can check newly changed contents reflecting “add” or “modify” actions did on accounts. It is necessary to press the “save” button, so that permanent change to accounts can be executed. In “Alter accounts list” table, check the check boxes before the accounts to be added, and then press the “Save” button so that the permanent adding action be done on the accounts. This process will cause a period of waiting time, referred as the following figure.

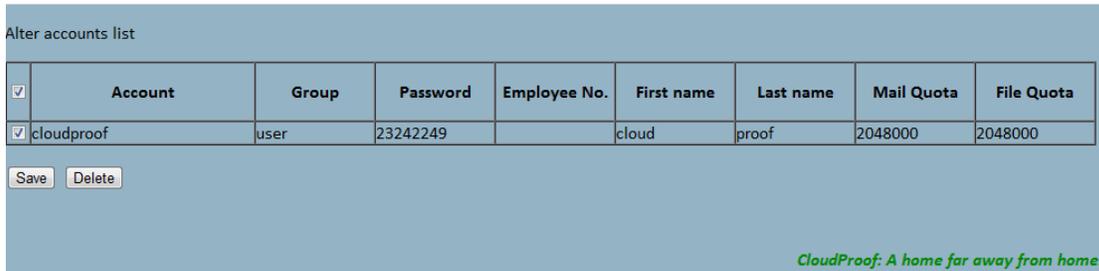


Fig. 2-6

Accounts which have been successfully added will show in the User Management -> List table. Accounts failed to be added will show in the “Alter accounts list” table under User Management -> Create menu item, and failed reasons also be displayed.

- The other way to add accounts is through cvs format file importing. On the account entry page opened through User Management -> Create, press “file select” button to select on the local host the csv file to be imported, and then press “Add” button to start importing the accounts.

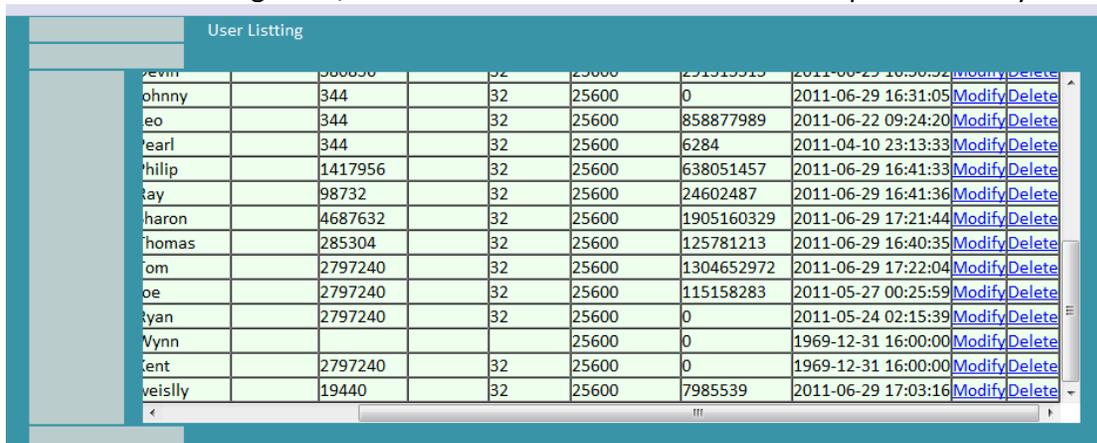
CSV format may look like as below:

username	first name	last name	password
ckhero	Ck	Hero	12345678
jeanmaka	Jean	maka	12345678
kawasaki	Kawasaki	Misu	12345678
markchu	Mark	Chu	12345678
jerrywu	Jerry	Wu	12345678
paulyang	Paul	Yang	12345678

The outcome of the importing will show in the “Alter accounts list” table. In this list, check the accounts to be added, and then press “Save” to start the actual adding action.

## 2. Accounts maintain

The way we modify an account is through User Management -> List menu item, in the User Listing table, select the account to be modified and press “Modify”.



User Listing							
johnny	344		32	25600	0	2011-06-29 16:31:05	<a href="#">Modify</a> <a href="#">Delete</a>
leo	344		32	25600	858877989	2011-06-22 09:24:20	<a href="#">Modify</a> <a href="#">Delete</a>
pearl	344		32	25600	6284	2011-04-10 23:13:33	<a href="#">Modify</a> <a href="#">Delete</a>
philip	1417956		32	25600	638051457	2011-06-29 16:41:33	<a href="#">Modify</a> <a href="#">Delete</a>
ray	98732		32	25600	24602487	2011-06-29 16:41:36	<a href="#">Modify</a> <a href="#">Delete</a>
sharon	4687632		32	25600	1905160329	2011-06-29 17:21:44	<a href="#">Modify</a> <a href="#">Delete</a>
thomas	285304		32	25600	125781213	2011-06-29 16:40:35	<a href="#">Modify</a> <a href="#">Delete</a>
tom	2797240		32	25600	1304652972	2011-06-29 17:22:04	<a href="#">Modify</a> <a href="#">Delete</a>
toe	2797240		32	25600	115158283	2011-05-27 00:25:59	<a href="#">Modify</a> <a href="#">Delete</a>
tyan	2797240		32	25600	0	2011-05-24 02:15:39	<a href="#">Modify</a> <a href="#">Delete</a>
Wynn				25600	0	1969-12-31 16:00:00	<a href="#">Modify</a> <a href="#">Delete</a>
went	2797240		32	25600	0	1969-12-31 16:00:00	<a href="#">Modify</a> <a href="#">Delete</a>
weisly	19440		32	25600	7985539	2011-06-29 17:03:16	<a href="#">Modify</a> <a href="#">Delete</a>

Fig. 2-7

Pressing “Modify” will show a modification page, referred as Fig. 2-8. In this page, each item has its correspondent “Modify” button. For each item to be modified, Key in the new value in the entry and press “Modify” button, then the change to this account will be added to and reflect in the “Alter accounts list”.

Account	cloudstation	
Group	cloudstation	Modify
Password	....	Modify
Employee No.		Modify
First name	cloudstation	Modify
Last name		Modify
Mail Quota	2500000	Modify
File Quota	3000000	Modify

Fig. 2-8

Referred to Fig. 2-9, in “Alter accounts list” table, check the check boxes before the accounts to be modified, and then press the “Save” button, so that the permanent modification action will be done on the accounts. Accounts which have been successfully modified will reflect in the User Management-> List table. Accounts failed to be modified will remain in the “Alter accounts list” table, and failed reasons be displayed.

Alter accounts list								
<input type="checkbox"/>	Account	Group	Password	Employee No.	First name	Last name	Mail Quota	File Quota
<input type="checkbox"/>	cp1200test		23242249		cp1200	test		
<input type="checkbox"/>	cp1200test		23242249		cp1200	test		

Save Delete

Fig. 2-9

### 3. Delete Account

The way we delete an account is through User Management -> List menu item, in the User Listing table, select the account to be deleted and press “Delete” , Referred to Fig. 2-7. Press “Confirm” button, then this account will be added to the “Alter accounts list”.

Referred to Fig. 2-9, in “Alter accounts list” table, check the check boxes before the accounts to be deleted, and then press the “Save” button, so that the permanent delete action will be done on the accounts. Accounts which have been successfully deleted will reflect in the User Management-> List table. Accounts failed to be deleted will remain in the “Alter accounts list” table, and failed reasons be displayed.

## 2-3. Account synchronization

Account synchronization is to maintain a synchronized copy between Google APPS and CloudProof, currently this function only supports Google APPS for Business, Google APPS for Education and Google APPS for Government.

### 1. Google APPS setup

From Google APPS’s Management Domain page, through Domain settings -> User settings menu item, check the “Enable provisioning API”, and save changes, referred to as the following figure.

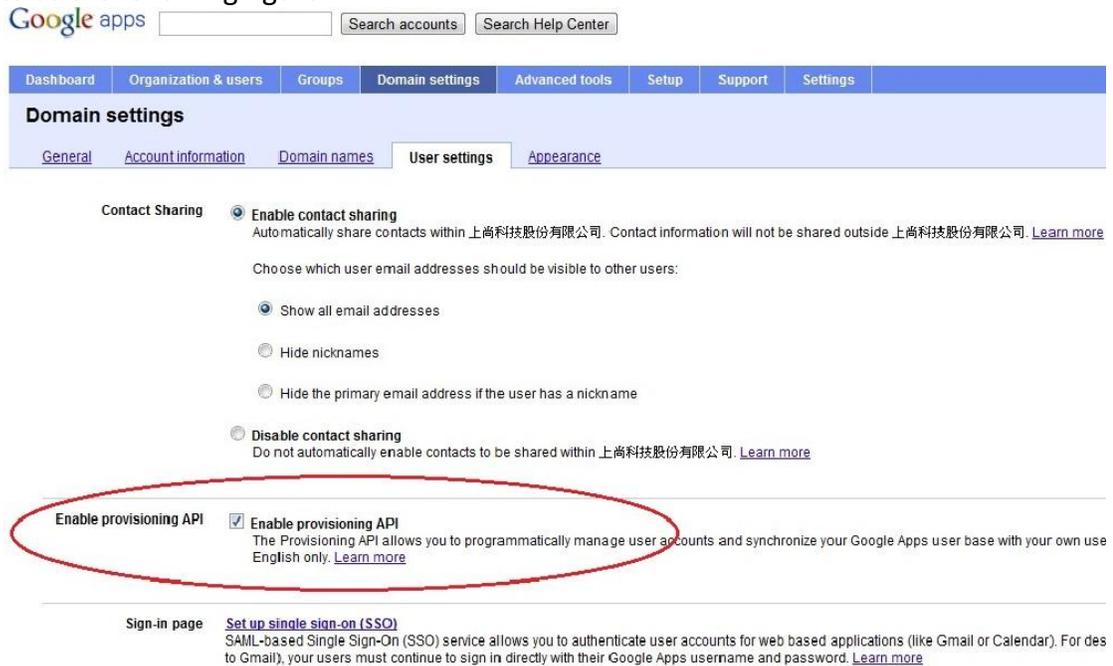


Fig. 2-10

### 2. CloudProof setup

After login CloudProof management page, through User Management -> Sync Account, referred as Fig 2-11, Confirm the “user account synchronous” window to start the synchronous process, referred as Fig. 2-12. Then it will bring up a Progress Bar window to show the ongoing process status as how many percentages completed, referred as Fig. 2-13. After the process completes, the “user account synchronous” window will inform the successful status, press “exit” to exit this window, referred as Fig 2-14. Now go to User Management -> List, referred as Fig. 2-15, you will see the accounts have been synchronized from Google APPS. Accounts synchronized from Google APPS need to login CloudProof to setup synchronous related configuration.

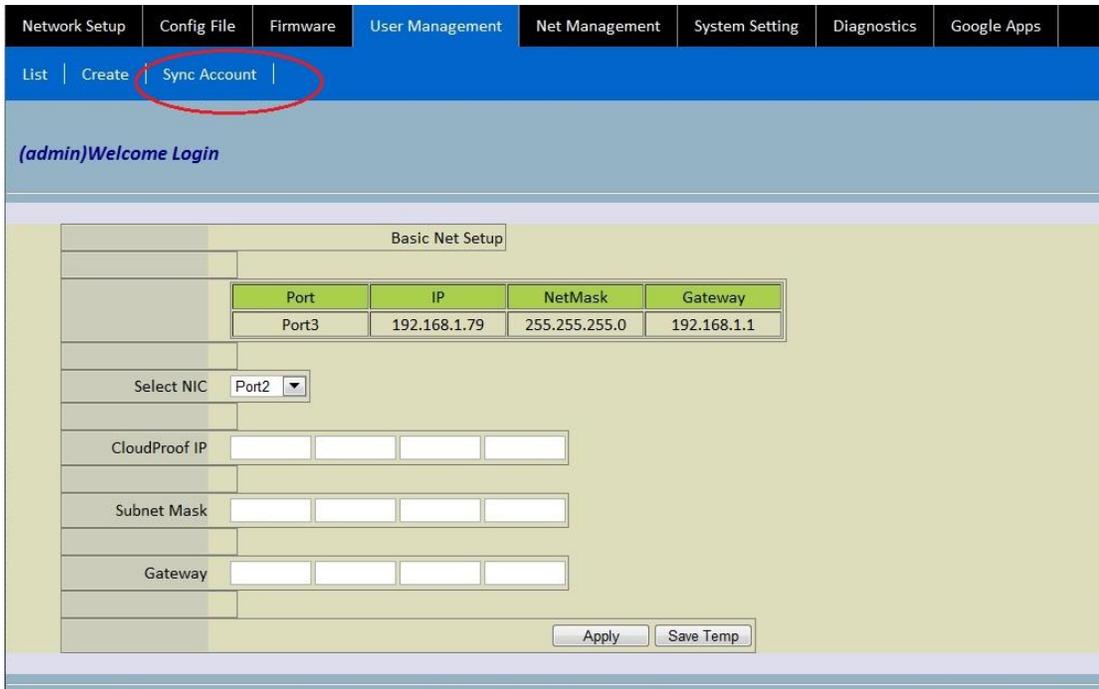


Fig. 2-11



Fig. 2-12



Fig. 2-13



Fig. 2-14

Network Setup | Config File | Firmware | **User Management** | Net Management | System Setting | Diagnostics | Google Apps

List | Create | Sync Account

(admin>Welcome Login

User Listing

Account	Group	Employee No	First name	Mail Quota	Mail Usage	File Quota	File Usage	Quota in APPS	Usage in APPS
admin	admin								
cloudstation	user		cloudstation	2500000	96	3000000	32		
cstest	user		Test		96		32		
ctjiang	user		CT		59328		32	25600	21689893
johnpeng	user		John		2663860		32	25600	695533059
kennylin	user		Kenny		66240		32	25600	20703084
kiffenhsu	user		Kiffen		658288		32	25600	317046807
markhsu	user		Mark		102680		32	25600	35942931
maxwu	user		Max		52428		11312	25600	19745273
sabrinawang	user		Sabrina		576572		32	25600	185009499
adamhe	user		Adam		31472		32	25600	15847928
alanlin	user		國楠		31472		32	25600	54909236

Export account file

Fig. 2-15

## Chapter 3. User Interface

### 3-1. Login Page

From CloudProof login page, user can not only login CloudProof, but also login the remote cloud platform (by Google APPS™ hyper link), please referring to section 2.

1. Login CloudProof from login page

Using following steps to login CloudProof:

- Referring to the following figure, in the entry encircled by a red block and marked with a red digit “1”, Key in your account.
- Referring to the following figure, in the entry encircled by a red block and marked with a red digit “2”, Key in your password.
- Referring to the following figure, in the entry encircled by a red block and marked with a red digit “3”, Key in your Domain.
- Referring to the following figure, in the entry encircled by a red block and marked with a red digit “4”, press to login CloudProof.

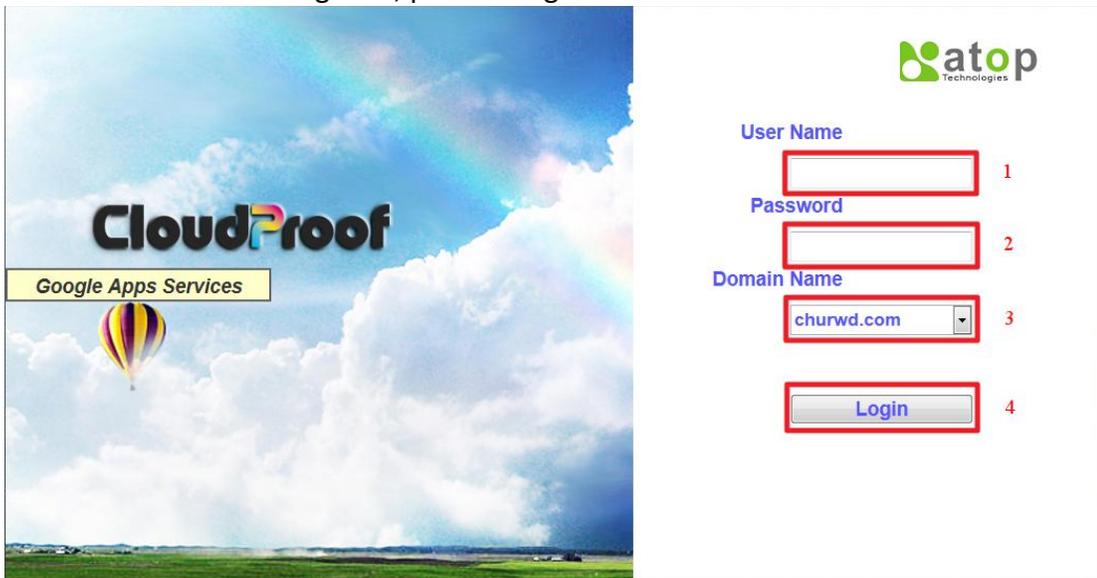


Fig. 3-1

2. Login Google APPS by using hyper links from Cloud Proof. Pleas have some notices before using this way:

- By using this way, users will be redirected to the Domain belonging to Google

CLOUDPROOF USER MANUAL

APPS™.

- Under network outage condition, users will be redirected to CloudProof itself, so that users can still use services.
- If it is enabling Single Sign On function on Google APPS™, then the authentication process will be linked to the Single Sign On authentication site in the company.

Please begin with the following steps:

- Move the mouse to the red block in the following figure;
- Google APPS menu item will open automatically.

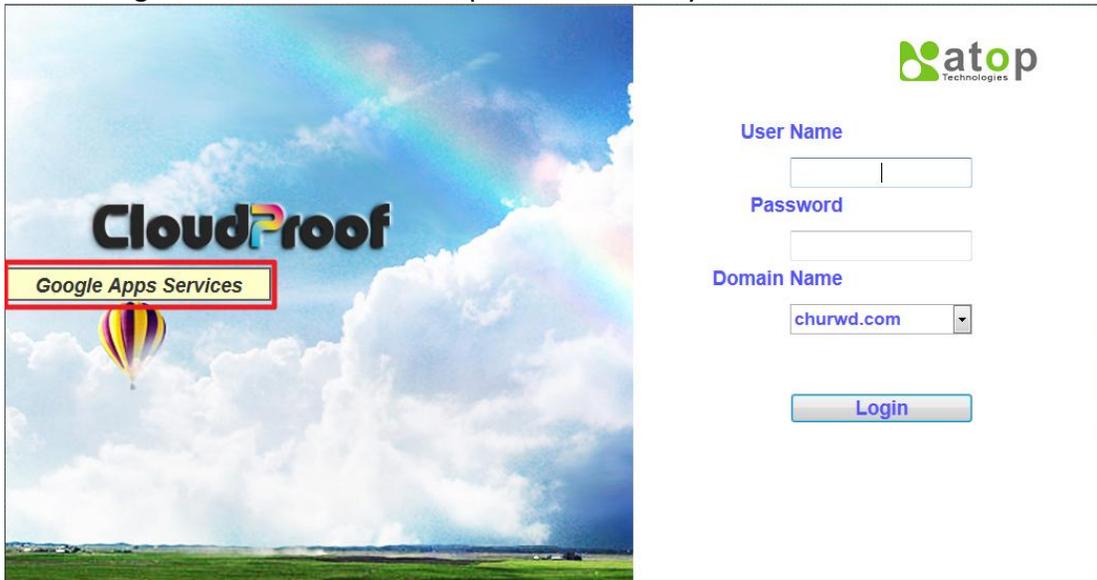


Fig. 3-2

- You can press the correspondent Google APPS hyper link according to the extended menu items in the following figure.

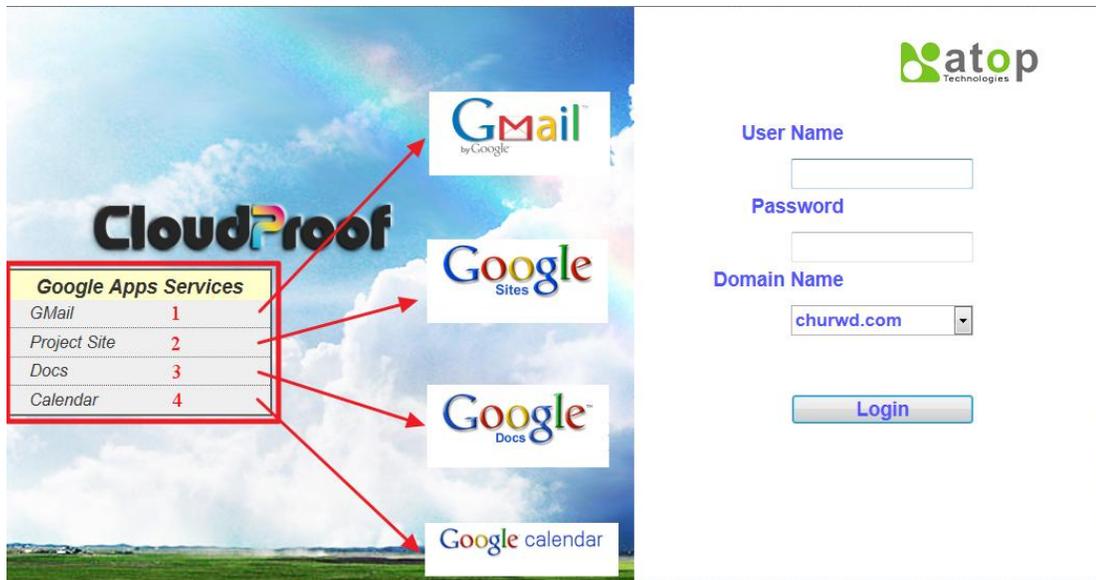


Fig. 3-3

- After users login  
After the registering authentication process, users in ordinary identity will enter this page.



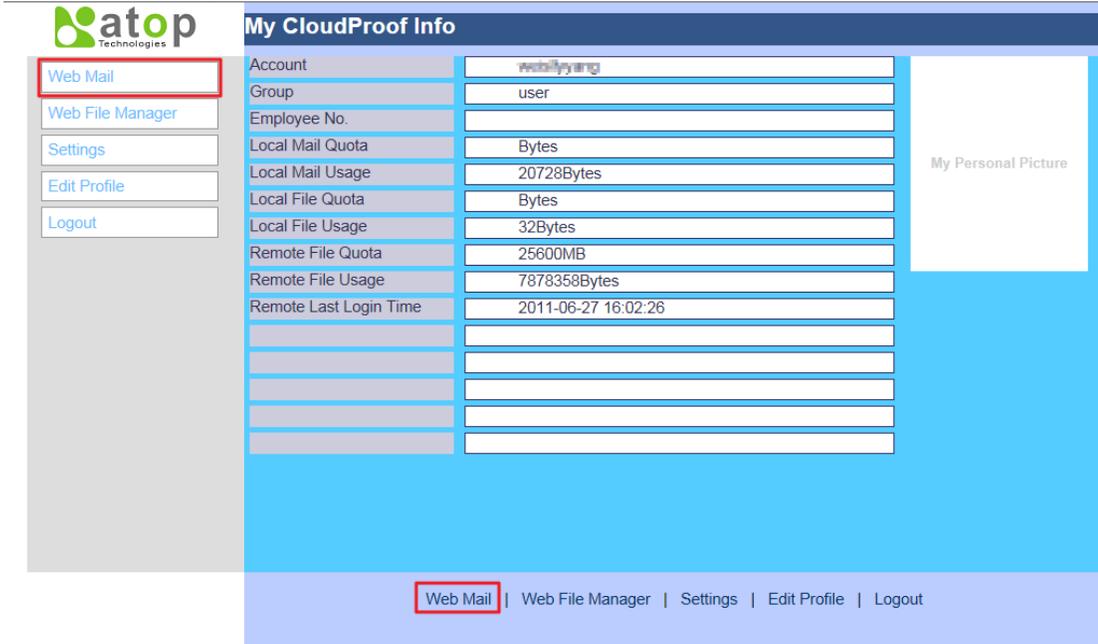
Fig. 3-4

This page includes 2 parts, user’s information in CloudProof system and the Browsing function. Red digit “1” and “3” are browsing menu items, while “2” is user’s information.

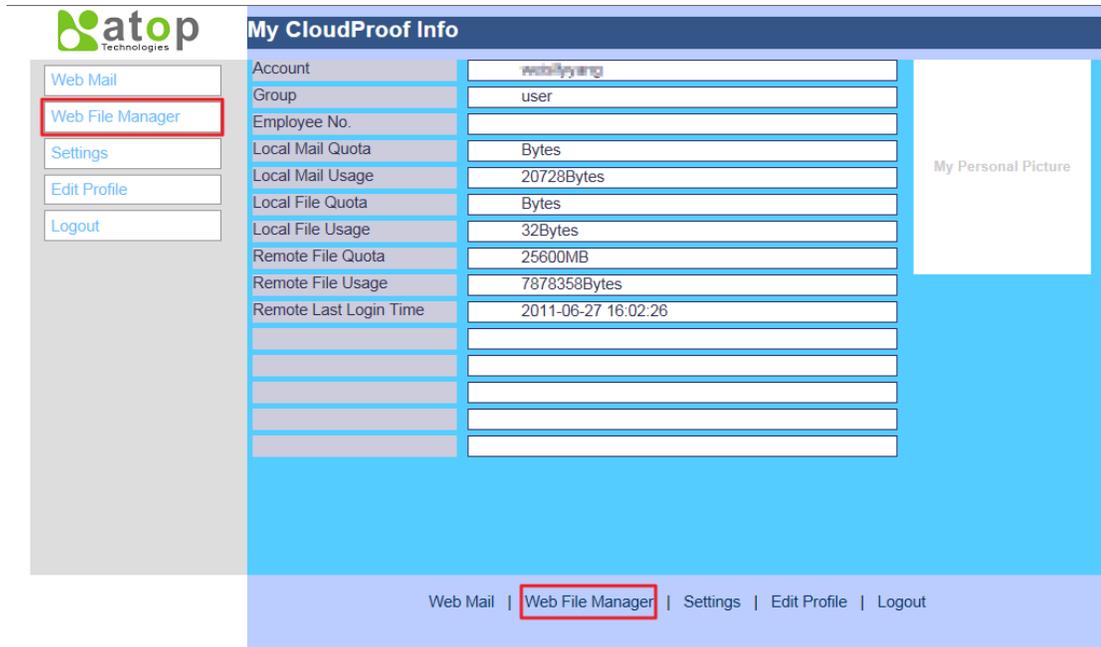


Fig. 3-5

Pressing the red-encircled hyper link in following figure will enter the “Web Mail” page.



Pressing the red-encircled hyper link in following figure will enter the “Web File Manager” page.



**atop** Technologies

Web Mail | **Web File Manager** | Settings | Edit Profile | Logout

### My CloudProof Info

Account	wzsljyng
Group	user
Employee No.	
Local Mail Quota	Bytes
Local Mail Usage	20728Bytes
Local File Quota	Bytes
Local File Usage	32Bytes
Remote File Quota	25600MB
Remote File Usage	7878358Bytes
Remote Last Login Time	2011-06-27 16:02:26

My Personal Picture

Web Mail | **Web File Manager** | Settings | Edit Profile | Logout

Fig. 3-6

Pressing the red-encircled hyper link in following figure will enter the “Setting” page.

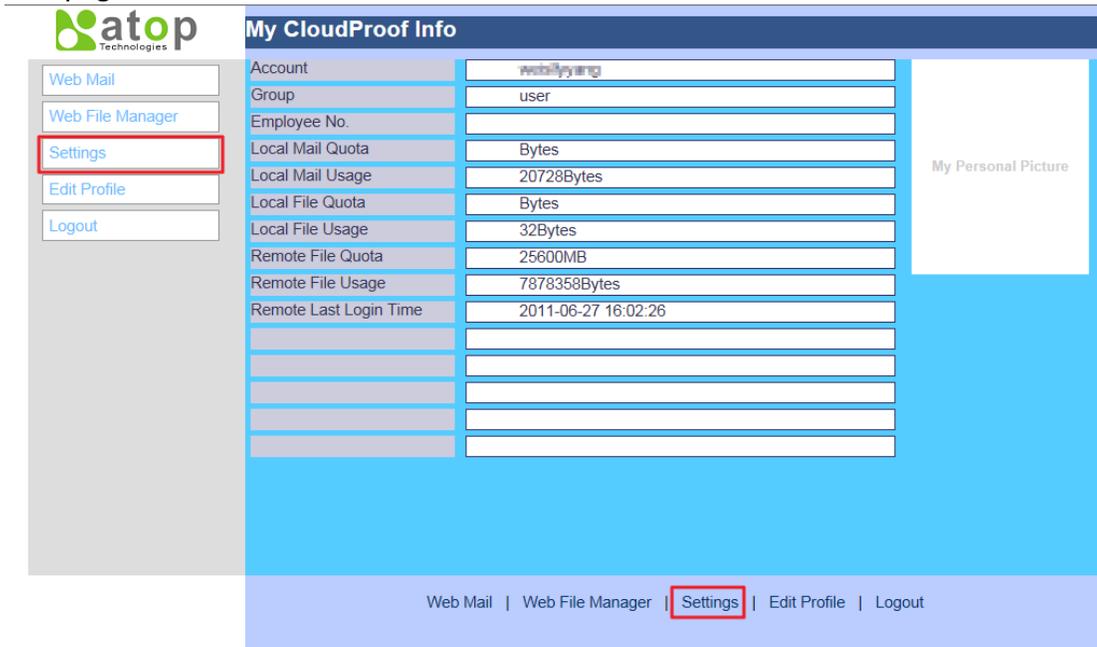


Fig. 3-7

The main settings this page provides are Mail and File related synchronous setting details.

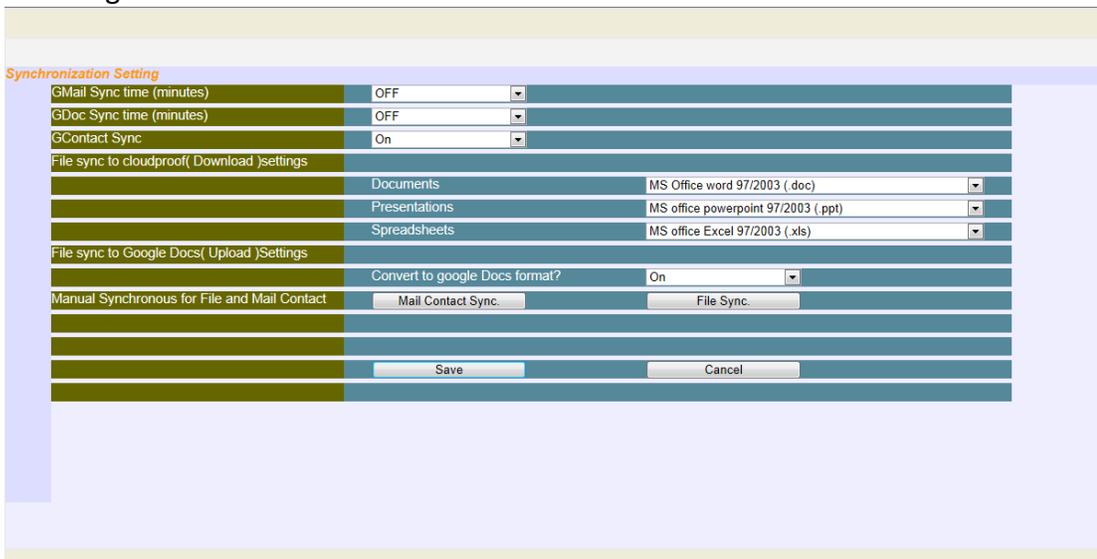


Fig. 3-8

The following figure is the settings for mail's synchronous time, items in the drop-down list menu indicate how long the period between the synchronous processes is.

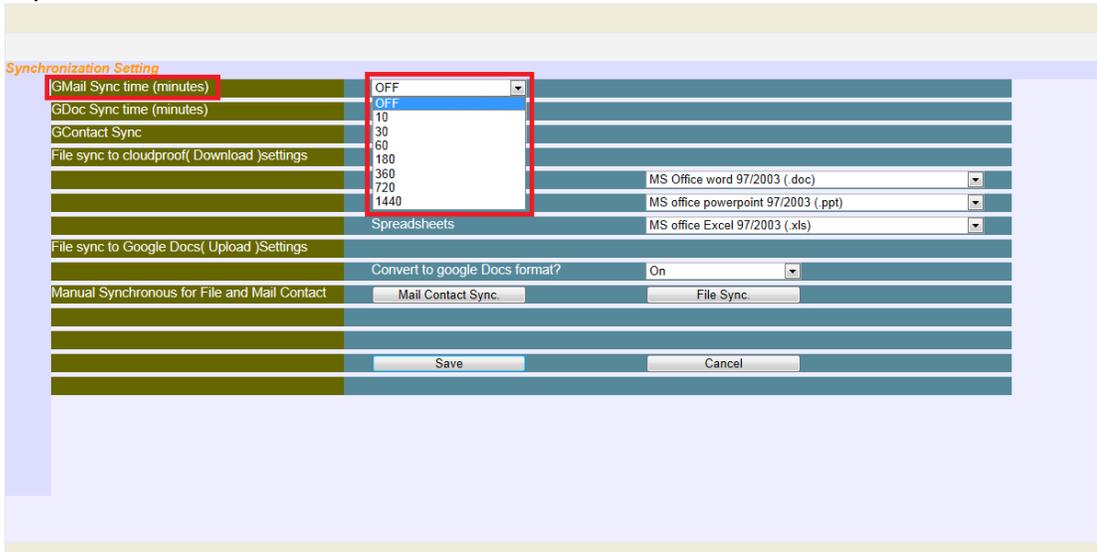


Fig. 3-9

The following figure is the settings for File's synchronous time, items in the drop-down list menu indicate how long the period between the synchronous processes is.

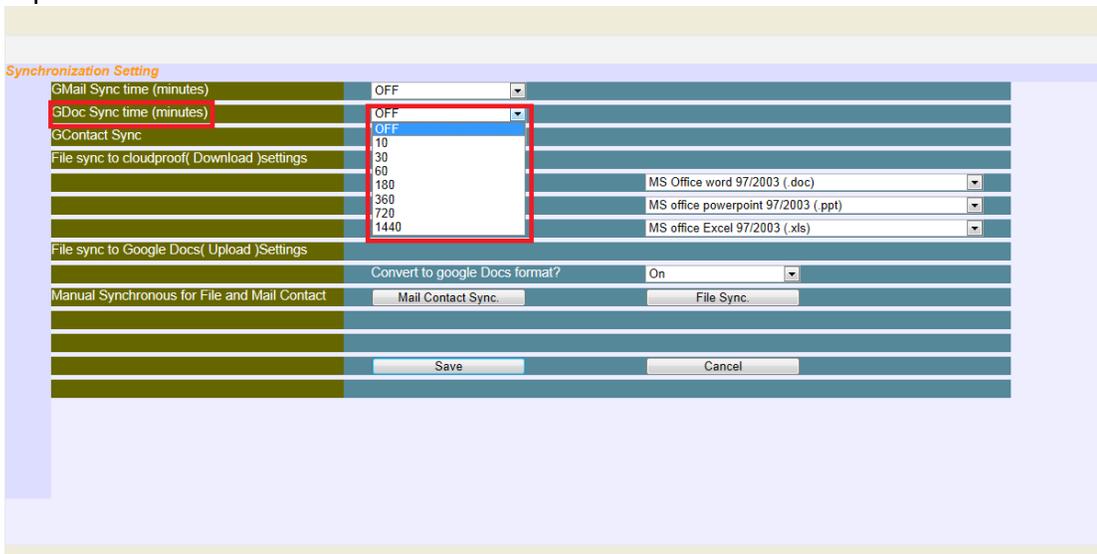


Fig. 3-10

The following figure is the settings for Mail Contact’s synchronous time, items in the drop-down list menu indicate how long the period between the synchronous processes is.

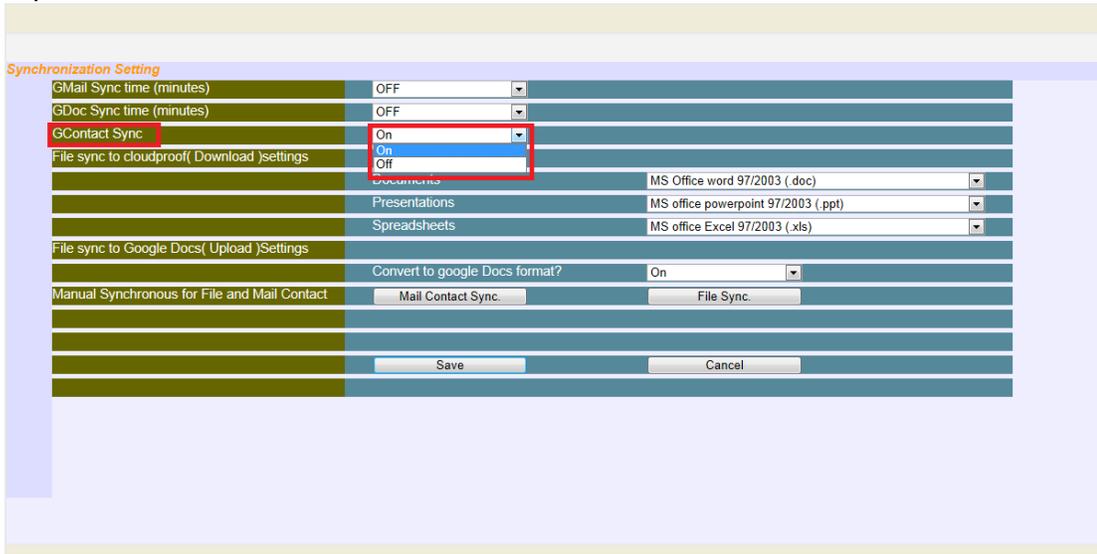


Fig. 3-11

The following figure is the settings of format conversion for the file’s synchronous download, items in the drop-down list menu indicate the optional formats for Document’s conversion.

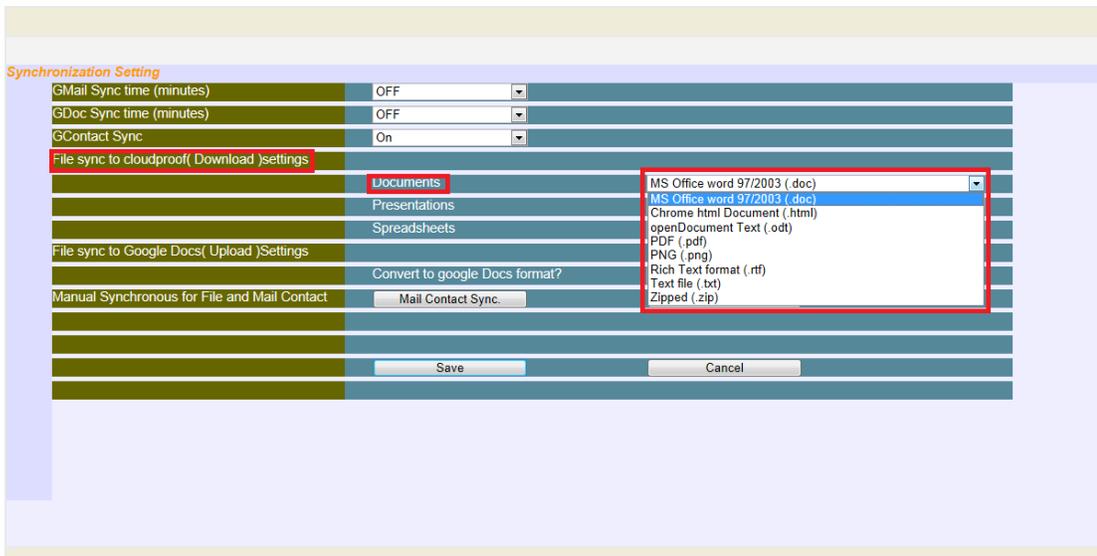


Fig. 3-12

The following figure is the settings of format conversion for the file's synchronous download, items in the drop-down list menu indicate the optional formats for Presentation's conversion.

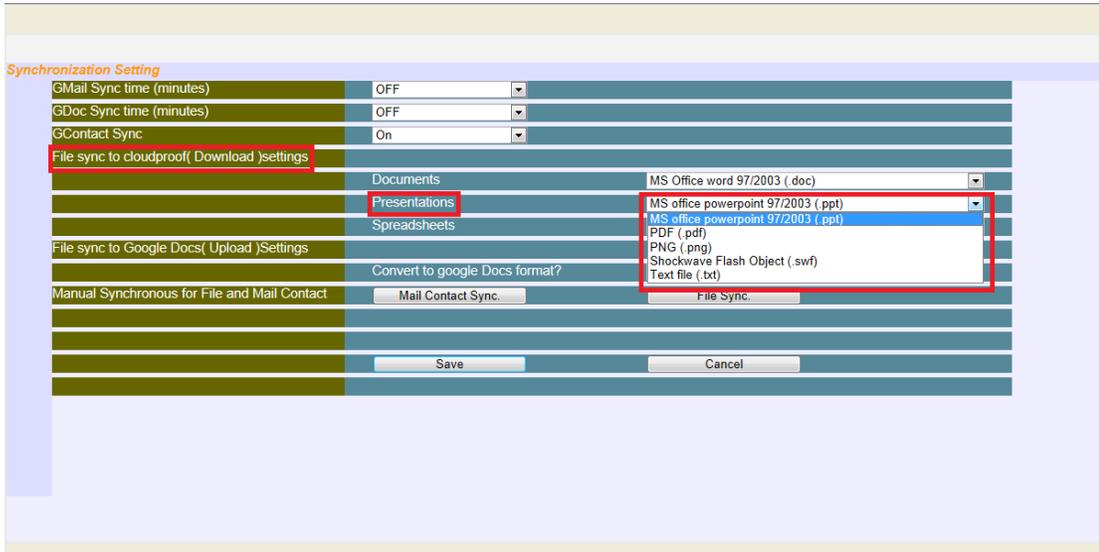


Fig. 3-13

The following figure is the settings of format conversion for the file's synchronous download, items in the drop-down list menu indicate the optional formats for Spreadsheet's conversion.

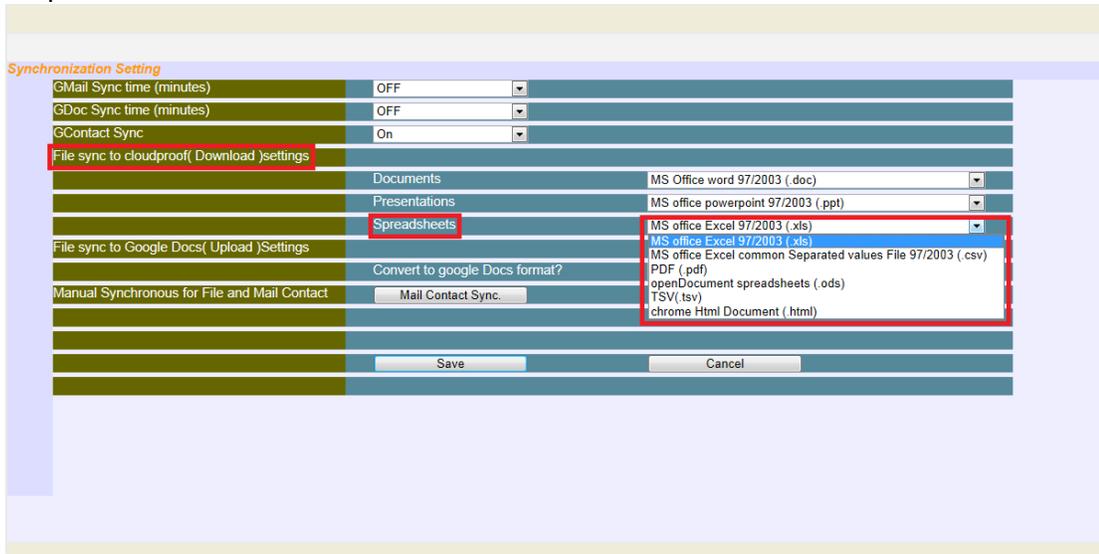
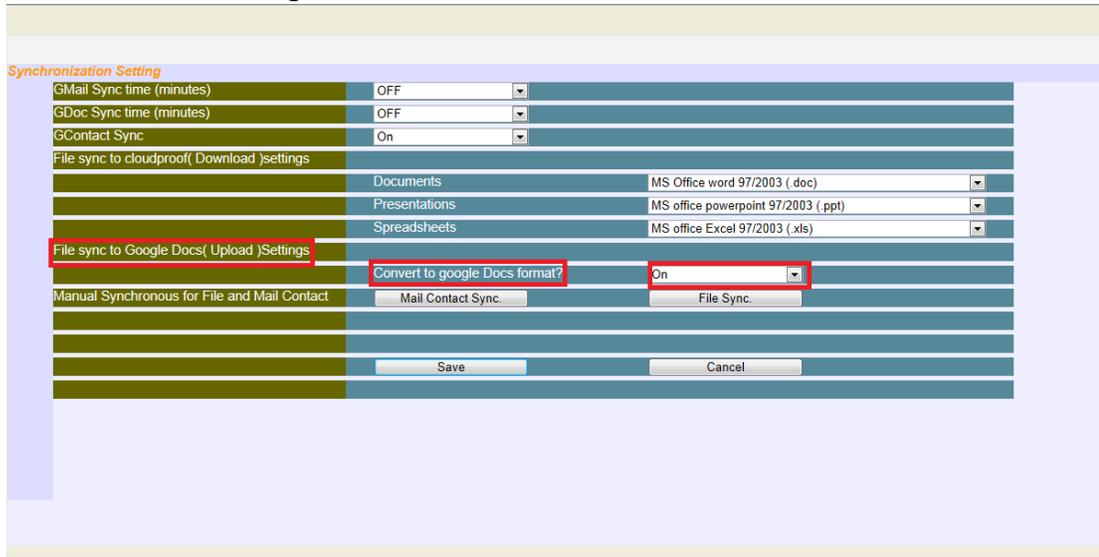


Fig. 3-14

The following figure is the settings of format conversion for the CloudProof's synchronous upload, options in the drop-down list menu indicate if files' format is converted to Google's file format.

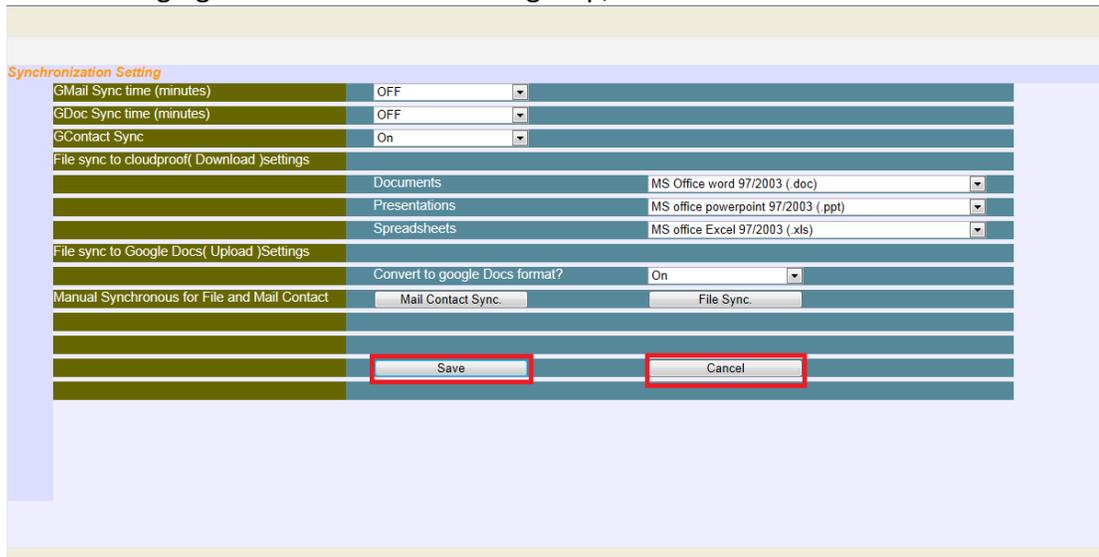


**Synchronization Setting**

GMail Sync time (minutes)	OFF	
GDoc Sync time (minutes)	OFF	
GContact Sync	On	
File sync to cloudproof( Download )settings		
Documents		MS Office word 97/2003 (.doc)
Presentations		MS office powerpoint 97/2003 (.ppt)
Spreadsheets		MS office Excel 97/2003 (.xls)
File sync to Google Docs( Upload )Settings		
Convert to google Docs format?	On	
Manual Synchronous for File and Mail Contact		
	Mail Contact Sync.	File Sync.
Save Cancel		

Fig. 3-15

The following figure is the final confirming step, "Save" or "Cancel".



**Synchronization Setting**

GMail Sync time (minutes)	OFF	
GDoc Sync time (minutes)	OFF	
GContact Sync	On	
File sync to cloudproof( Download )settings		
Documents		MS Office word 97/2003 (.doc)
Presentations		MS office powerpoint 97/2003 (.ppt)
Spreadsheets		MS office Excel 97/2003 (.xls)
File sync to Google Docs( Upload )Settings		
Convert to google Docs format?	On	
Manual Synchronous for File and Mail Contact		
	Mail Contact Sync.	File Sync.
Save Cancel		

Fig. 3-16

The following figure is the setting that pressing the function button can manually start synchronizing File and Mail Contacts with Google.

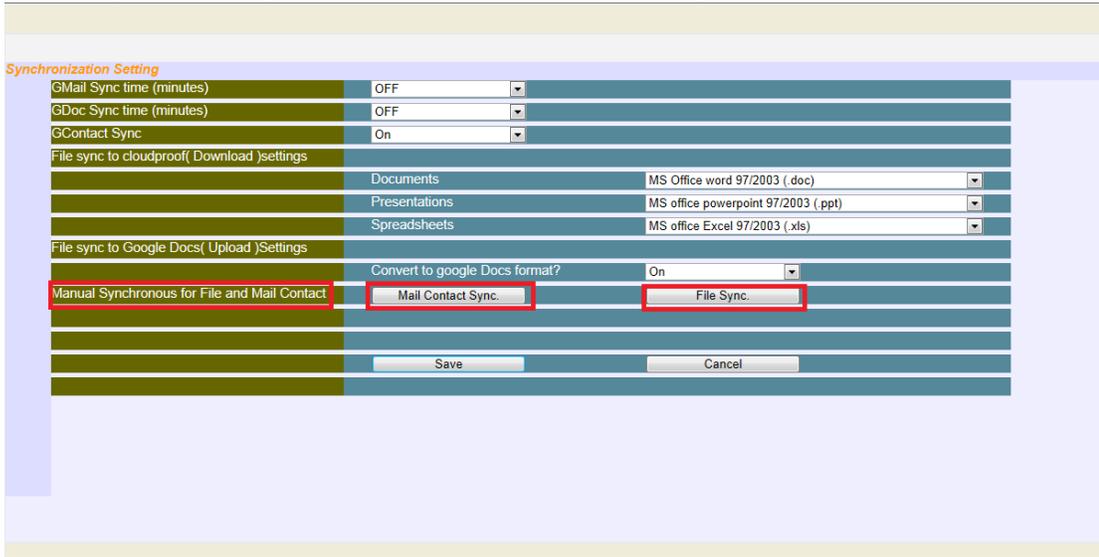


Fig. 3-17

Pressing the red-encircled hyper links both can enter "Edit Profile" setup page.

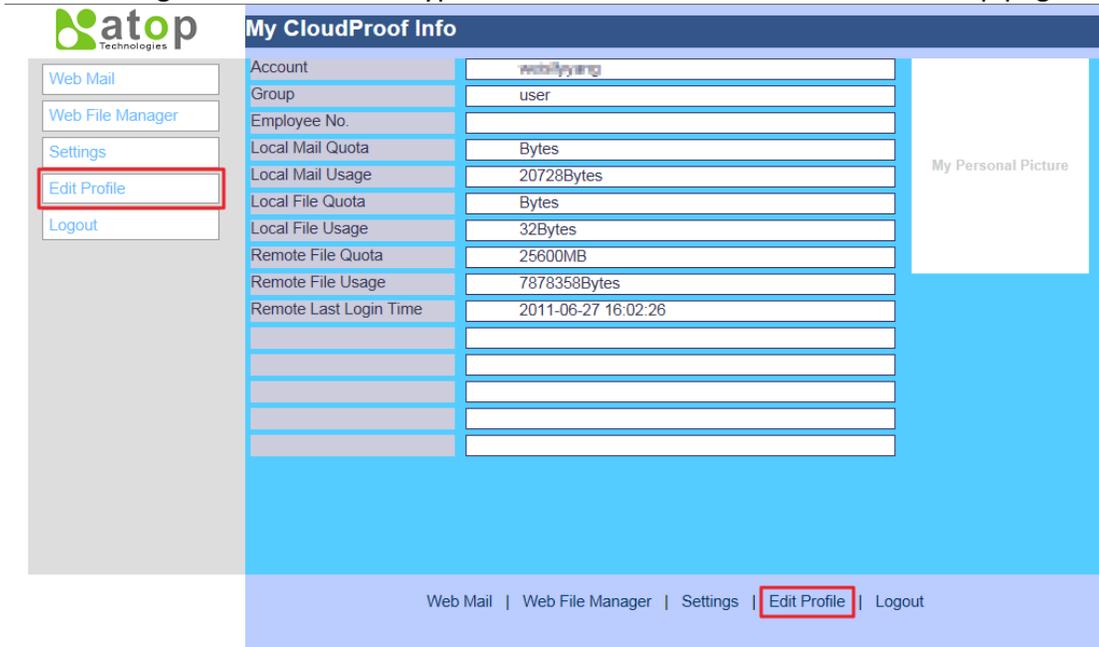
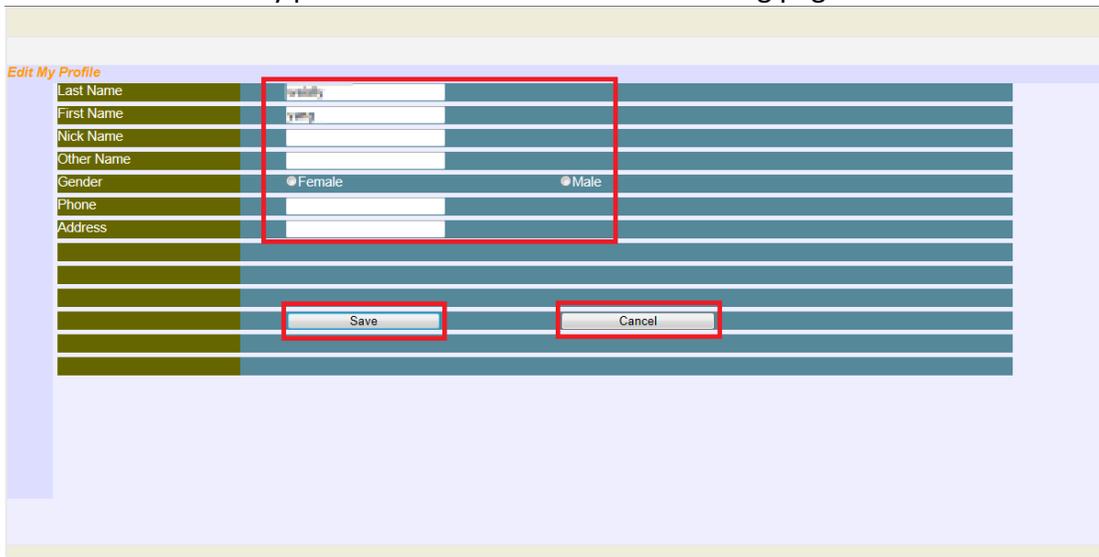


Fig. 3-18

Users can modify personal information in the following page.



The screenshot shows a web form titled "Edit My Profile" with a light blue header and a light purple background. The form contains several input fields: "Last Name", "First Name", "Nick Name", "Other Name", "Gender" (with radio buttons for "Female" and "Male"), "Phone", and "Address". A red rectangular box highlights the "Last Name", "First Name", "Nick Name", "Other Name", and "Address" input fields. Below the form, there are two buttons: "Save" and "Cancel", both of which are also highlighted with red rectangular boxes.

Fig. 3-19

## 3-2. Mail function

One of the main functions CloudProof provides is the mail's backup from Google APPS. As long as new mails arrive at Google APPS, CloudProof will periodically copy them to the local mail server. Once the Gmail service become unavailable, the mail server on CloudProof can provide mail access including the last backup from Google APPS before the Gmail's service been unavailable. In CloudProof the Webmail interface is also provided, through which users can read and send E-Mails.

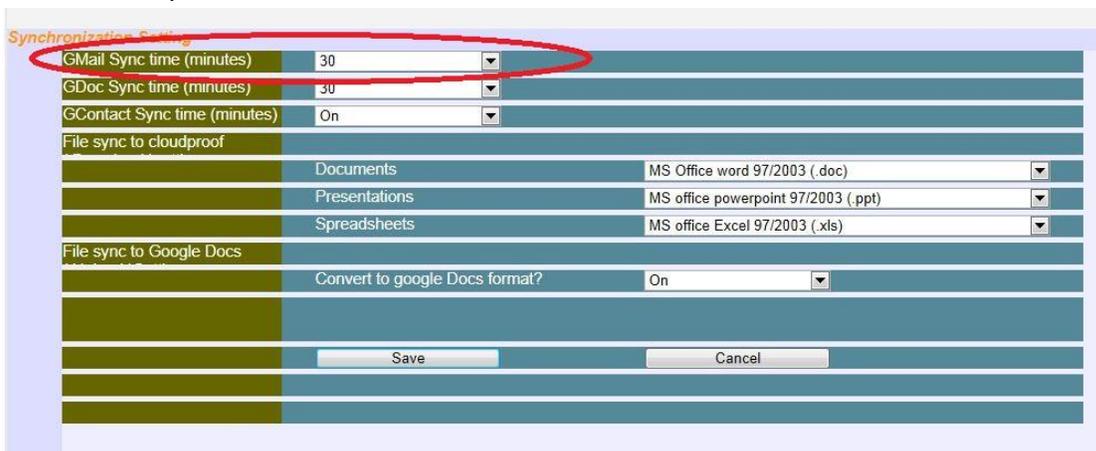
In following sections, it will be described in detail of CloudProof Webmail's operation and configuration.

### 1. Setting of the time period between mails' backup

After login into CloudProof, in the user's personal page, press the right "setting" button or the bottom "setting" hyper link to enter, referred as fig. 3-20.

The entry for the "Gmail Sync time(minutes)" is a drop-down list item, the options are OFF, 10, 30, 60, 180, 360, 720 and 1440, 8 of them, which are the optional time period for setting. After completing all of the setting items, pressing the bottom left "Save" button, the settings will be recorded in the user's personal configuration.

When the user next logins, "Gmail Sync Time" entry will show the current setting of the time period.



Synchronization Setting		
GMail Sync time (minutes)	30	▼
GDoc Sync time (minutes)	30	▼
GContact Sync time (minutes)	On	▼
File sync to cloudproof		
Documents		MS Office word 97/2003 (.doc) ▼
Presentations		MS office powerpoint 97/2003 (.ppt) ▼
Spreadsheets		MS office Excel 97/2003 (.xls) ▼
File sync to Google Docs		
Convert to google Docs format?	On	▼
Save		Cancel

Fig. 3-20

### 2. Web Mail main page

After login into CloudProof, in the user's personal page, pressing the right "Web Mail" button or the bottom "Web Mail" hyper link, a new page will prompt which shows the Mail interface, referred as Fig. 3-21.

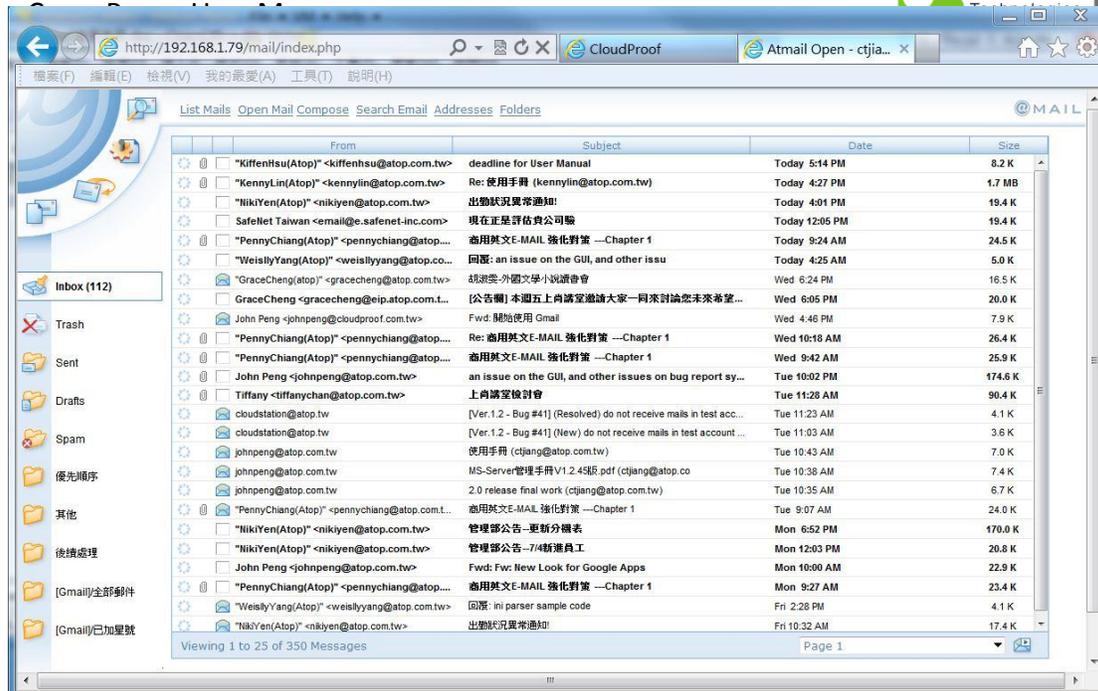


Fig. 3-21

There are 4 sections in the mail interface, which are quick link buttons at the upper left, function list at the top, mail directory list at the left and mail list in the middle, respectively.

- Quick link – included are Compose Mail (Compose new mail), List Mail (List mails in the current directory), Settings (Personal mail function configuration) and Search Email (Search Mails) icons, designed as icon hyper link.
- Function list – Included are List Mail, Open Mail (Open the selected mail), Compose, Search Email, Addressed (Contact), and Folders (mail directory configuration) hyper links, designed as text hyper link.
- Mail directory list – Mail directory can be personally categorized. A common mail server will provide 5 directories, which are Inbox, Trash, Sent, Drafts and Spam. At Gamil, in addition to the 5 directories, there has been added All, Starred (with a star mark), Other, Advanced and Priority. If it is the currently opened directory, the character type will be turned to bold type; by its side also showed is the number of the unopened mails.
- Mail list – Lists all mails in the current selected directory. When there are too many mails, press the back-forward button at the bottom right corner or the drop-down list menu for selecting subpage to choose which subpage to browse. For switching between different directories, press the correspondent directory hyperlink at the left mail directory list, then the mails belonging to it will be loaded to the list. Mails not been opened will be displayed as general type, and with an opened icon in front of the line. To manually change the status indicating it been opened or not, move the mouse to the selected mail, clicking the right mouse button to show the

quick menu, within which there are functions to mark the mail as read or not read, then choosing one to change the mail's status to you want.

### 3. Open the mail's main page

There are 2 ways to open the mails: one is to click the mouse left button twice on the target mail in the mail list, then the mail's main page will be brought in. The other one is to click the mouse left button once on the target mail in the mail list, then the selected mail will be highlighted as reverse type, now by pressing the "Open Mail" hyper link on the top function menu will it open the mail's main page.

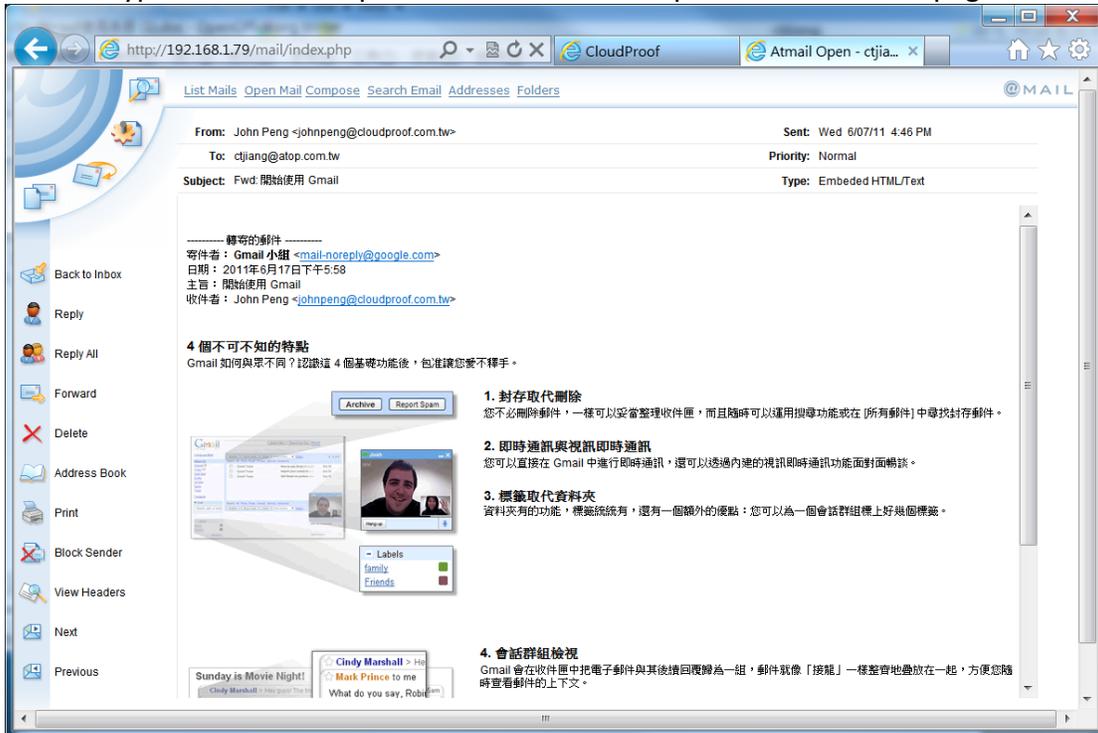


Fig. 3-22

In the mail's main page, on the top is the mail's header information, on the right is the scroll bar in case a mail is too long to be limited in a fix-sized frame, on the left is the mail function list, with each of which indicates one function can be used here.

- Back to – Back to the mail list page according to the current mail directory.
- Reply – Reply to the sender, and switch to the composing new mail page.
- Reply ALL – Reply all, including sender and receivers, and switch to the composing new mail page.
- Forward – Forward mail, and switch to the composing new mail page.
- Delete – Delete mail.
- Address Book – Add the sender to the contacts.
- Print – Print mail.
- Block Sender – Block the Sender from receiving mails from.
- View headers – Display the original mail's header.

- Next – Display the next mail.
- Previous – display the previous mail.

#### 4. Composing mail main page

There are 4 function items through which to bring users to the composing mail page, they are Compose, Reply, Reply ALL and Forward. For the page arrangement, on the top of the main page is the header section, which is for entries of the “From”, “TO”, “Cc”, “Subject”, and “Priority”, etc. columns. On the bottom middle is the mail composing section. The mail editor provided by CloudProof provides HTML and UTF-8 encoding, so that it adapts to all languages provided by the internet browser. The page details are referred as Fig. 3-23.

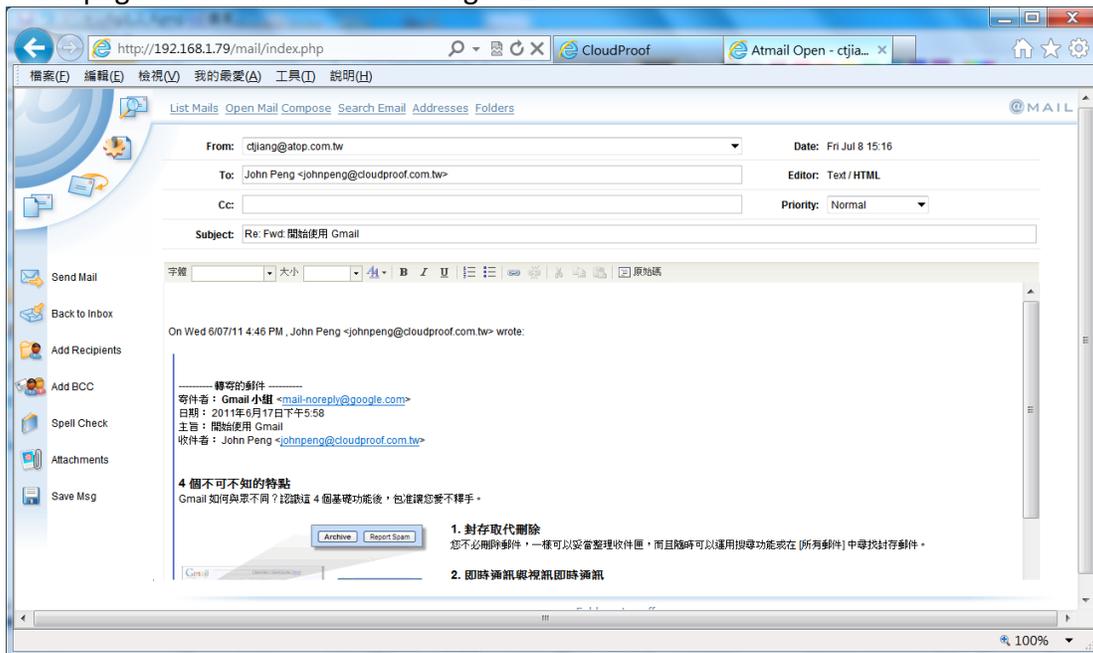


Fig. 3-23

In the composing mail tool list on the left of the page, there are 7 functions provided:

- Send Mail – Send mail.
- Back to – Back to the mail list page according to the current mail directory.
- Add Recipients – Bring up a dialog window, referred as Fig. 3-24, through which to add recipients into TO, Cc, BCC columns from existing contacts.

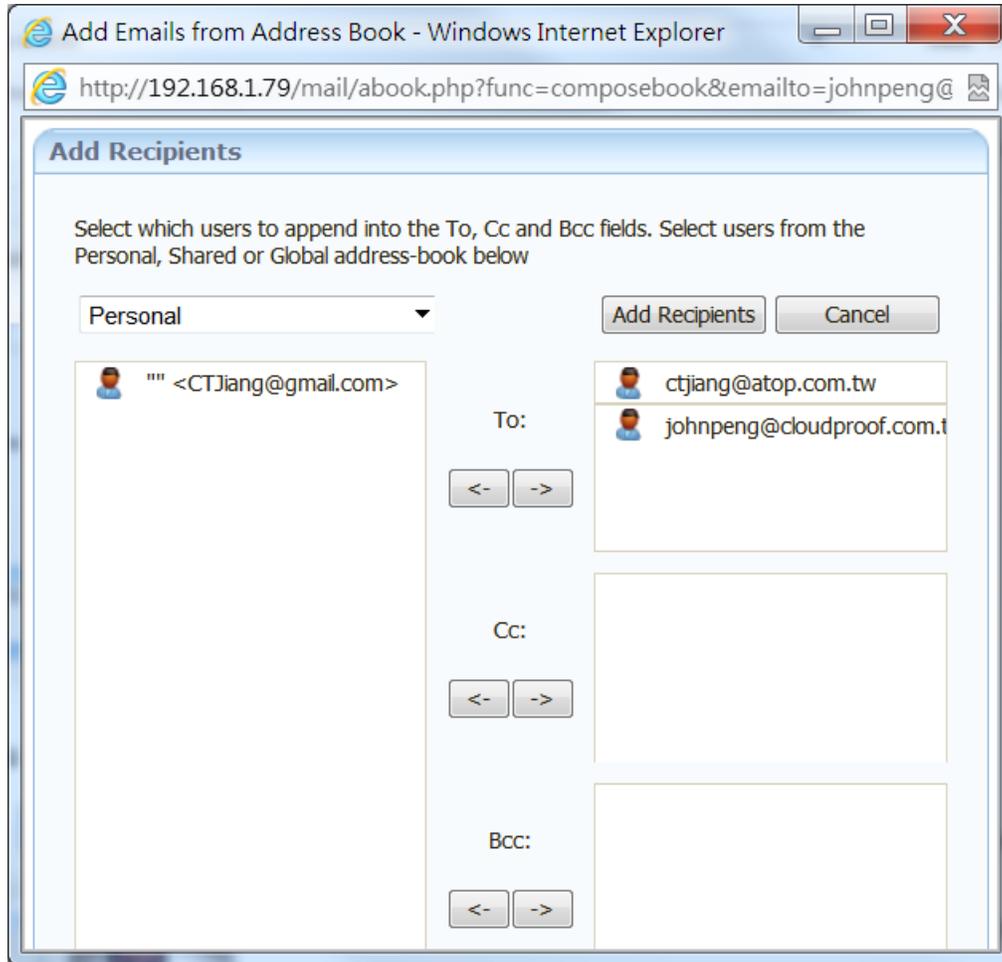


Fig.3-24

- Add BCC – Add a BCC column into the mail header, referred as Fig. 3-25.



Fig.3-25

- Spell Check – Do English spell check for the composed mail content. While launching, the mail content will be entrenched within a red block. Any word not included in the dictionary will be indicated as red color character type and underscored. Click the right mouse button will bring up a quick menu. The first part of the menu is the word which is suggested for replacing. By choosing it, will the red color-typed word be replaced by this word. Now, there will only remain one item, “Resume Editing”, in the left function list. Pressing this item will go back to the mail composing page. For every checked word, no matter been modified or not, would never change to red color type again should we

press the “Spell Check” button once more, for they have been regarded as correct. The second part of the menu is “Add Word to Dictionary”, which can add the red-colored word to the spell check dictionary. The third part is “Edit”, which will make the problematic word to be enclosed with a red block, and users can directly edit within it. After edit, pressing “Resume Editing” to go back to mail composing page.

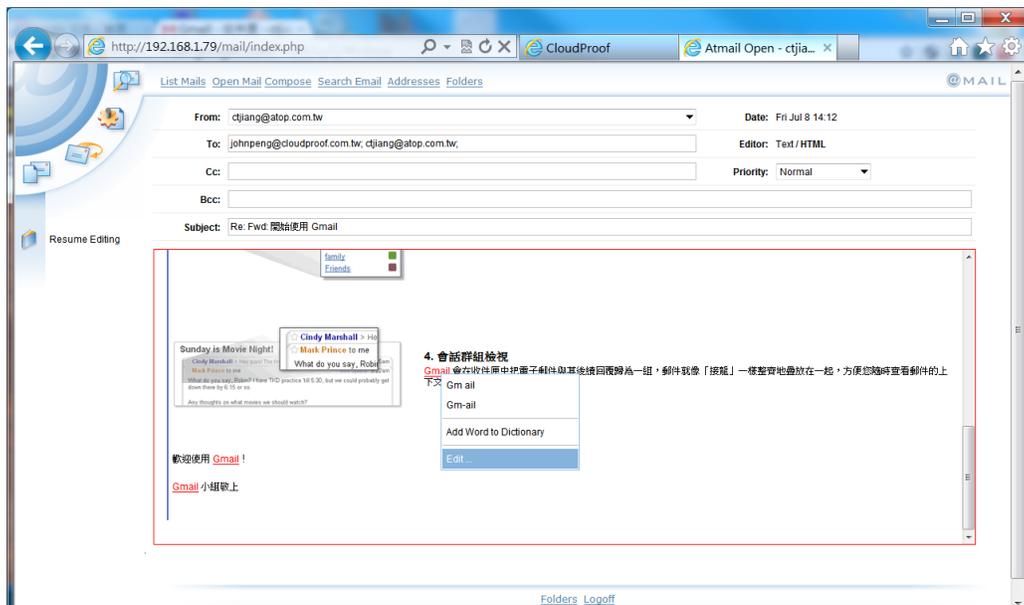


Fig.3-26

- Attachments – Add attachments to the mail
- Save Msg – Stop composing mail and go back to the current mail directory list. The mail just composed will be saved to the “Drafts” mail directory.

## 5. Delete Mail

There are 3 ways to delete mails: First, in the opened mail page, press delete button. Second, selecting the mail want deleted from the mail list, drag to the left “Trash” directory. Third, move the mouse to the mail want deleted from the mail list, clicking mouse right button to show the quick menu, and then press “delete” button in the menu.

## 6. Search mail

The begin point for searching mail is from “Search Email” item in the top left quick icons list or in the top function list. When pressing one of these 2 items, it will bring out an additional searching tool list in the top of the mail list, referred as Fig. 3-27. To use the advanced search function, press the “More” button in the tool list, the outcome referred as Fig. 3-28.

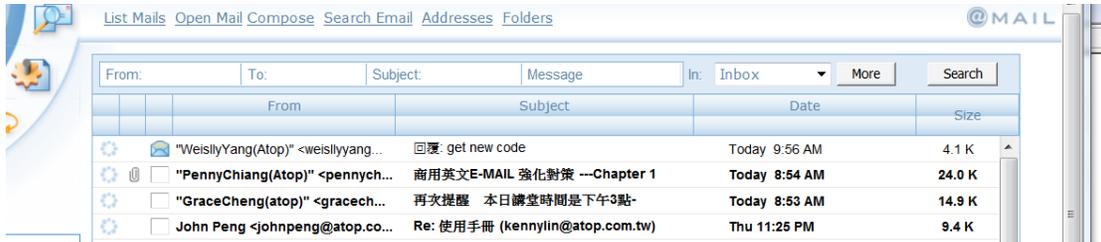


Fig.3-27

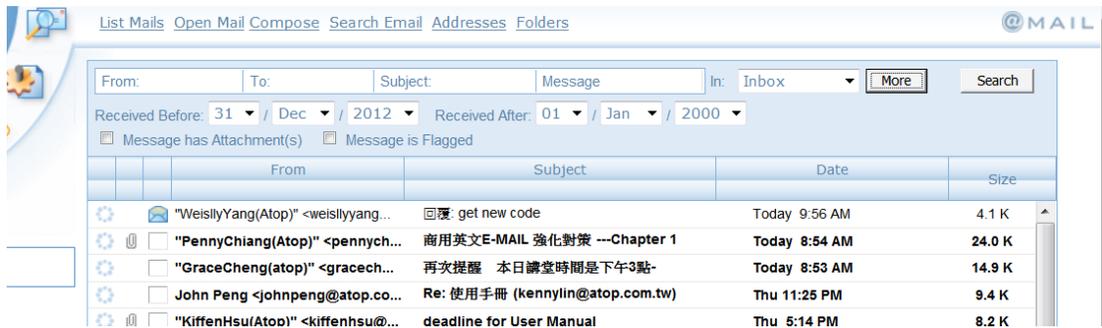


Fig.3-28

## 7. Mail directory setting main page

Pressing the “folders” button in the function list, the main page will switch to the mail directory setting page. From a top-down view in this page, it will be divided into 4 parts, which are “Mail Folder”, “Create a New Mailbox”, “Rename Personal Folder” and “Email to Mail Sorting”, the layout referred as Fig. 3-29.

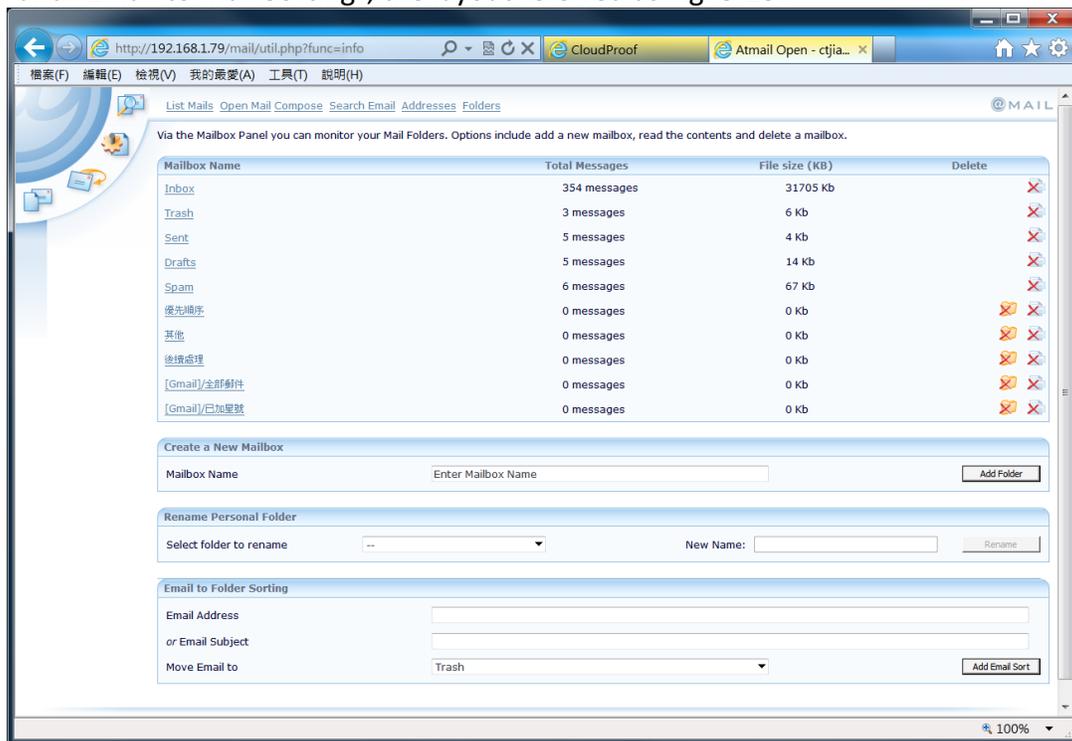


Fig.3-29

- Mail Folder – This section shows information for every directory, including directory name, total number of mails included in a directory, total file size used by this directory and the delete function item of this directory. The delete column of each directory includes 1 to 2 buttons, the left one is for deleting directory and the right one is for deleting all mails in this directory. For the default directories provided in the mail servers, there exists only the right button, that is, you can't delete these directories.
- Create a New Mailbox – create a new mail directory.
- Rename Personal Folder – Change the name of personal created mail directory.
- Email to Folder Sorting – Move mails to specified mail directory according to a specified Email Address or Subject.

### 3-3. File function

File Synchronous is one of the main functions of CloudProof. File Synchronous can synchronize the document files not only from Google Docs to CloudProof, but also from CloudProof to Google Docs, so that users can access files any time any place. Following, we will describe the operation and configuration of CloudProof Web File Manager.

#### 1. Setting of File Synchronous

Users login CloudProof, through the user’s personal page->Settings will enter this page, referred as Fig. 3-30

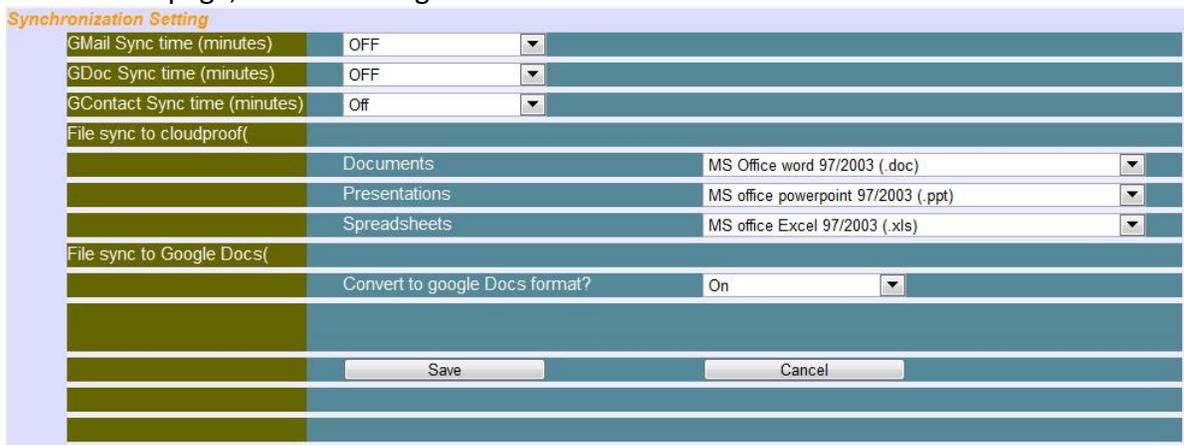


Fig.3-30

To start file synchronous, configure “Gdoc Sync Time” for the synchronous time (minutes), and then press “Save” to save the setting. Time options are as below:

- 10 minutes
- 30 minutes
- 60 minutes
- 120 minutes
- 240 minutes
- 360 minutes
- 720 minutes
- 1440 minutes

To setup the file formats of the synchronization from Google Docs to CloudProof, configure “File Sync to CloudProof”. Currently the formats supported are as follow:

- Document: doc, html, odt, pdf, png, rtf, txt, zip.
- Presentation: ppt, pdf, png, swf, txt.
- Spreadsheets: xls, csv, pdf, ods, tsv, html.

To setup the file formats of the synchronization from CloudProof to Google Docs, the limits of the conversion are as below:

- Only support “Google Apps for Business”, “Google Apps for Education”, “Google Apps for Government”.
- Document: no matter the size of pages or character type, the upper limit is 512,000 bytes. After the upload document file converted into Google Docs Format, the size of the file can't exceed 1MB.
- Spreadsheets: 400,000 cells, 256 columns for each work sheet. After the upload spreadsheet file converted into Google Docs Format, the file size can't exceed 20MB, cell size 400,000 and column size 256 for each work sheet.
- Presentation: the upper limit size of the presentation file established in “Google Docs” is 10MB, probably 200 slides in equal. After the upload presentation file converted into Google Docs Format, the file size limit is also 10MB.
- If choose not to converting, then a single file size can reach 250MB. The supported file formats are jpg, jpeg, png, bmp, gif, txt, html, odt, sxw, doc, docx, pdf, rtf, pps, ppt, xls, xlsx, ods, csv, tab, tsv, swf, zip.

## 2. Access files through Web File Manager

Web File Manger is the file management interface of CloudProof, which enables the users of Google Apps to use their internet browser to access the file data in CloudProof.

Select “Web File Manager” in user page to enter the file interface, referred as Fig. 3-31.



Fig.3-31

On the top left Tool Bar, Functions in order are:

- Back: Back to the upper layer folder.
- Reload: Immediately synchronous the files in Google Docs.
- Open: Open the selected file or folder.
- New folder : Add a new folder
- Upload files: Upload files, the interface is as Fig. 3-32.
- Remove: Delete files.

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- Rename: Rename a file or a folder.
- Get Info: View the information of a file or a folder.

If users have started the File Synchronous in settings page, the File Synchronous to Google Docs will be conducted according to the configured time of the user.

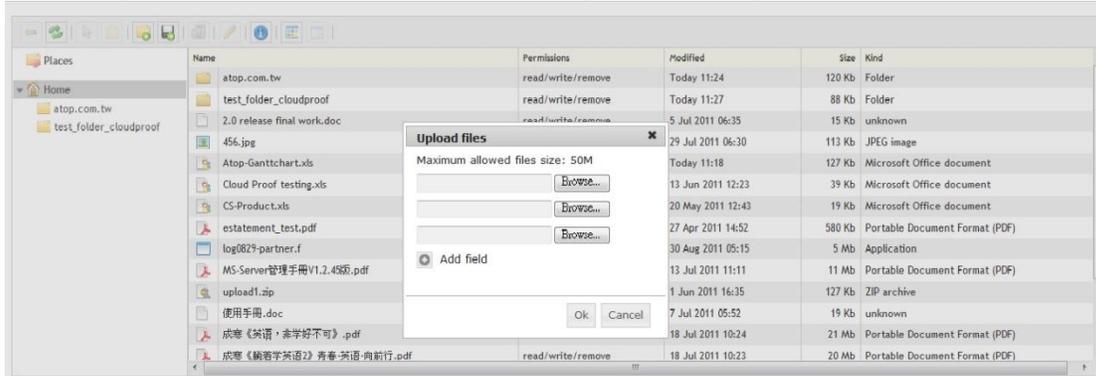


Fig.3-32

### 3-4. Contacts

Contacts Synchronous is one of the main functions in CloudProof. Contracts Synchronous can synchronize the contact records from Google Gmail to CloudProof. And users can add new contacts to Google Gmail through CloudProof, so that while users are using Gmail or CloudProof to send or receive Emails, they can view contacts information.

#### 1. Settings of Contact Synchronous

Users login CloudProof, through the user’s personal page->Settings will enter this page, referred as Fig. 3-33. Switch the “Gcontact Sync” from “OFF” to “ON”, then it will start the Contacts Synchronous function (the default is synchronizing every 5 minutes).

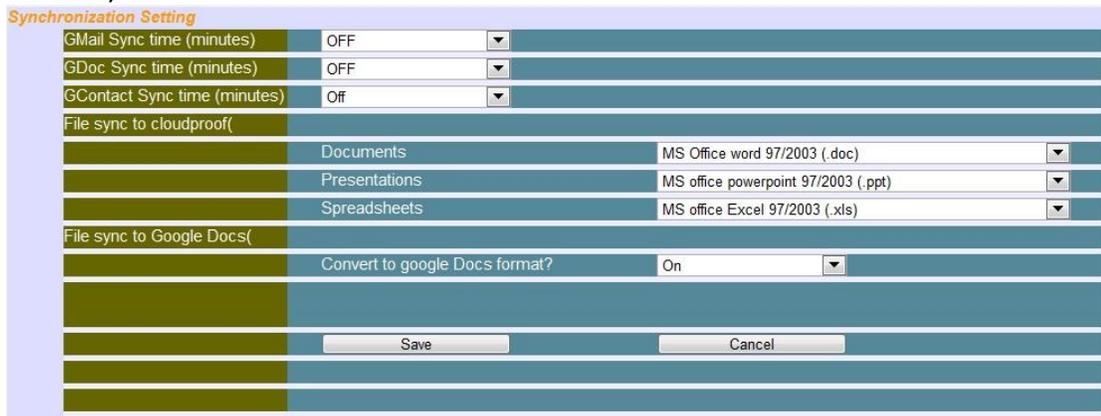


Fig.3-33

#### 2. The operation of Contacts interface.

Users login through “CloudProof -> Web Mail -> address”, will enter the Contacts interface, referred as Fig.3-34.



Fig.3-34

The interface will be described as follow:

- X: Checked, then press “Delete Selected”, will delete the contact in Gmail in a synchronous way.
- To: Checked, press “Compose Msg”, can send group Email.
- Cc: Select which contacts to send as “cc”.
- Bcc: Select which contacts to send as secret “Bcc”.
- Options:
  - Portrait: Browsing the detail information of the contact.
  - X: Delete this consact.
- Compose: Compose Email.
- New Contact: Add a new contact, referred as Fig. 3-35. Pressing the “Add Entry” will synchronously add the new contact in Gmail. (It is necessary to fill all of the information completely)
- New Group: Create Group, referred as Fig. 3-36.
- Delete Selected: Delete the selected contact, and the update will be synchronized to Gmail
- Import: Import CSV file, creating contacts in a batch way, and and the update will be synchronized to Gmail
- Search: Search contacts.



Fig.3-35

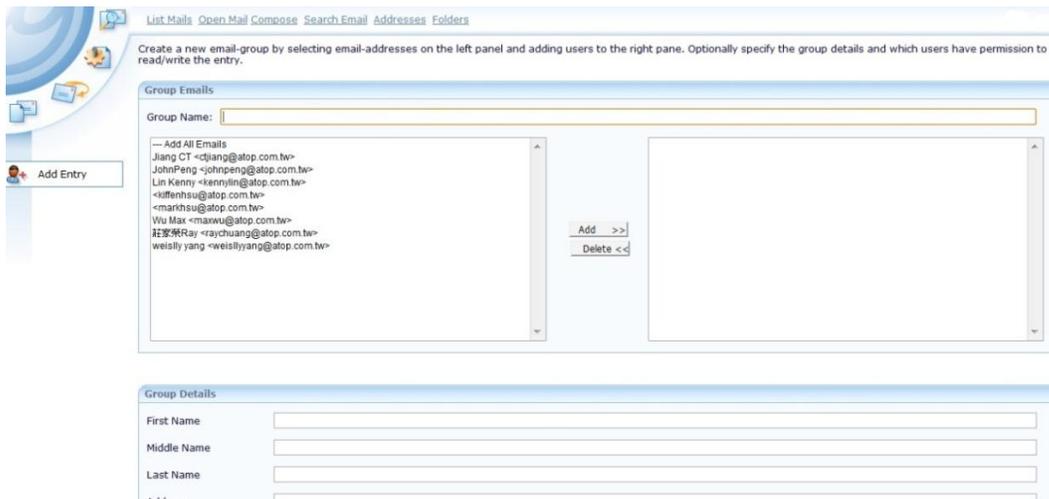


Fig.3-36

### **3. Contacts Synchronous limits**

The limits of Contacts Synchronous are as follow:

- Can't synchronize with Gmail Contacts Group.
- Only can synchronously add or delete Gmail Contacts' CloudProof can't update their information.
- It can display at most 5 Emails in a CloudProof Contact.
- Groups created in CloudProof can't be synchronized to Gmail.

## Chapter 4. Administrator Page

### 4-1. Network Setup and Net Management

This section covers the configuration and operation of Network Setup and Net Management, those users need using admin account to login.

#### 1. Failover Link

If it is concerned should WAN network link be broken or encounter a bad signal condition, you can additionally setup another “Failover” link, companied by enabling the “WAN-Detect” function (WAN-Detect setup will be included later in this section). In this way, the “primary” WAN link and the “Failover” link will backup each other. Followings are configurations for Adding “Failover” links:

- First, connect the port1 in CloudProof to the network that backups, then login into the Admin system setup page, through “Network Setup -> Failover Link Setup”.

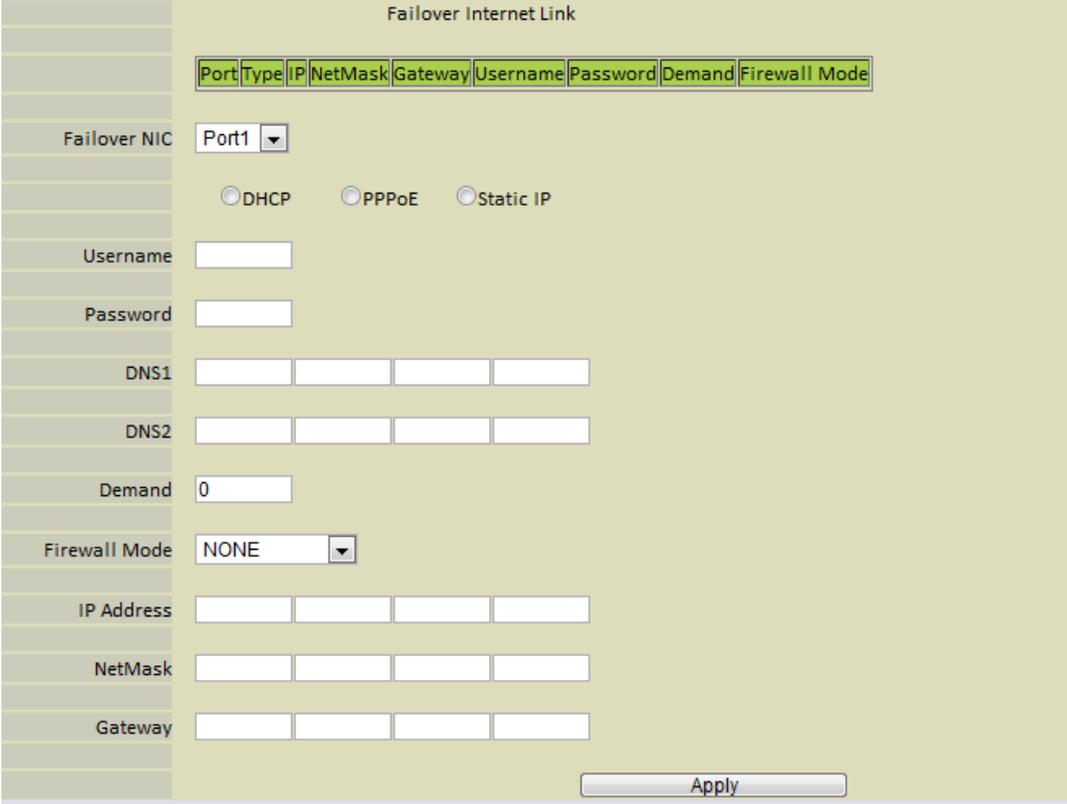


Fig.4-1

- Select how to connect to internet  
Choose one of the options, DHCP, PPPoE or Static IP, and then fill in the correspondent parameters respectively.
- PPPoE – Username  
Fill in the account name provided by ISP.
- PPPoE – Password  
Fill in the password for the account name.
- PPPoE – DNS1  
Fill in DNS1 IP. (Optional)
- PPPoE – DNS2  
Fill in DNS2 IP. (Optional)
- PPPoE – Demand  
Demand idle time in seconds. (Must, default value is 0)
- PPPoE – Firewall Mode  
(Must, default value is “None”)
- StaticIP – IP Address  
Setup the server Failover IP.
- StaticIP – Subnet Mask  
Setup the subnet mask for the Failover IP
- StaticIP – Gateway

Setup the gateway IP for the Failover IP  
After finish the setting, press “Apply”.

## 2. DNS setting

Setup the DNS Server IP which CloudProof requests for Domain Name resolving, there provided 2 entries. After login the admin page, enter through “Network Setup -> DNS”.

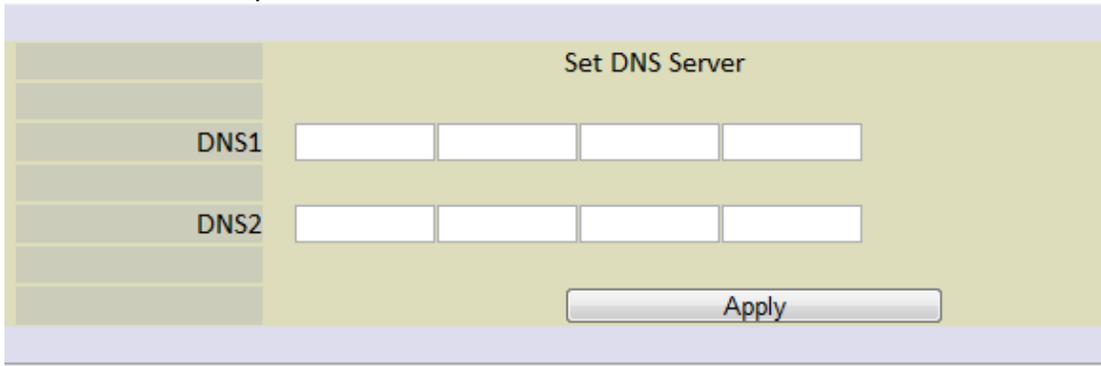


Fig.4-2

### DNS1

Fill in the DNS1 IP. (Must)

### DNS2

Fill in the DNS1 IP. (Optional)

After finish the entries, press “Apply”.

## 3. LACP (802.3ad) setting

Taking the advantage of 802.3ad Bonding technology, CloudProof combines multiple network interface (limit to Port2~Port4) to aggregate the bandwidth from CloudProof to LAN and to backup links from CloudProof to LAN. As long as it is configured, the switch or storage equipment connected with must also support this function and apply the correspondent settings.

- After login the Admin page, enter through “Network Setup → LACP (802.3ad).”

Basic Net Setup

Port	IP	NetMask	Gateway
Port3	192.168.1.79	255.255.255.0	192.168.1.1
Port2	192.168.1.79	255.255.255.0	192.168.1.1

Select NIC

CloudProof IP

Subnet Mask

Gateway

Fig.4-3

**IP Address**

After combines 2 network interfaces (Bonding) into a new interface, this is the IP of this new interface. This IP should still be the IP at the original LAN subnet.

**Subnet Mask**

Setup the subnet mask for the new interface IP

**Gateway**

Setup the default gateway for the new interface, which is the gateway to route packets behind the LAN.

**Bond Port**

Select which 2 ports to combine (please remember to connect the ports you want to a HUB or a Switch in advance).

After finish the setup, press "Apply".

**4. WAN-Detect setup**

According to the Failover link setup introduced in the first sub-section, the "primary" WAN link and the "Failover" link become each other's backup link while it also starts the "WAN-Detect" function. When this function implemented, as soon as the main WAN link encounters problems, the default gateway to which CloudProof sends packet for route will switch to the failover link one. This function will take the primary link as the main link, that is, after the primary recovers, route will switch back to the primary link.

After login to Admin page, enter through "Network Setup -> WAN Detect".



The screenshot shows a web interface titled "WAN Detect Settings". It features three dropdown menus: "Fail Mode" set to "Mode 1", "Primary eth" set to "Port2", and "Secondary eth" which is currently empty. At the bottom right, there are two buttons: "Apply" and "Stop".

Fig.4-4

**Fail Mode**

Mode 1: As long as the one link broken, it switches to the other link.

Mode 2: Not only link broken, but also the quality of the link becoming poor will cause the switching to the other link.

**Primary eth**

The Port configured for the network environment settings introduced in the 3<sup>rd</sup> section of Chapter 1.

**Secondary eth**

The Port configured for the Failover Link Setup introduced in the first section.

Every entry need be setup, after finishing, pressing "Apply" to start.

After start, pressing "Stop" can stop.

**5. SNMP setup**

SNMP (Simple Network Management Protocol) is a communication protocol that provides host status monitoring for network administrators. The information system administrators can get are host status, notification of messages or events, etc. It is configured through "Net Management -> Snmp".

SNMP	
SNMP V3 Notes	(1)Modifying SNMP V3's ID / Password Needs to Take a Reboot to Take Effect. (2)Support MD5 and DES for Auth/Priv Usage. (3>Password needs to longer than 8 characters.
SNMP TRAP Notes	Support V2c Traps.
SNMP Parameters Setting	
System Name	<input type="text" value="CloudStation"/>
System Location	<input type="text" value="E2"/>
System Contact Mail	<input type="text"/>
SNMP V1 / V2C options	<input type="text" value="Disable"/>
Get community Name	<input type="text"/>
Manager IP	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
SNMP V3 options	<input type="text" value="Disable"/>
Auth/Priv User Name	<input type="text"/>
Uth/Priv PassWord	<input type="text"/>
SNMP Trap Setting [Send LinkUp/LinkDown/ColdStart To Hosts]	
Trap Host IP 1	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Trap Host IP 2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="button" value="Apply"/>	

Fig.4-5

Entry parameters for setup SNMP are as follow:

- System Name: The host's name (hostname).
- System Location: The host's location.
- System Contact Mail: Mail address which the host contacts.
- SNMP V1/V2C option: SNMP V1 and V2C function On/Off option.
- Get community Name: Administrator's group name who can get the information, generally the default value is "Public".
- Manager IP: The target IP which SNMP TRAP sent to.
- SNMP V3 options: SNMP V3 function On/Off options.
- Auth/Priv User Name: User name for SNMP V3 authentication
- Auth/Priv PassWord: Password for SNMP V3 authentication
- Trap Host IP 1: SNMP Trap target IP
- Trap Host IP 2: SNMP Trap target IP

## 6. Syslog setup

Setup the remote syslog IP address, which receives the host's system log messages, generally provided for system maintenance. Enter through "Net Management -> Syslog".

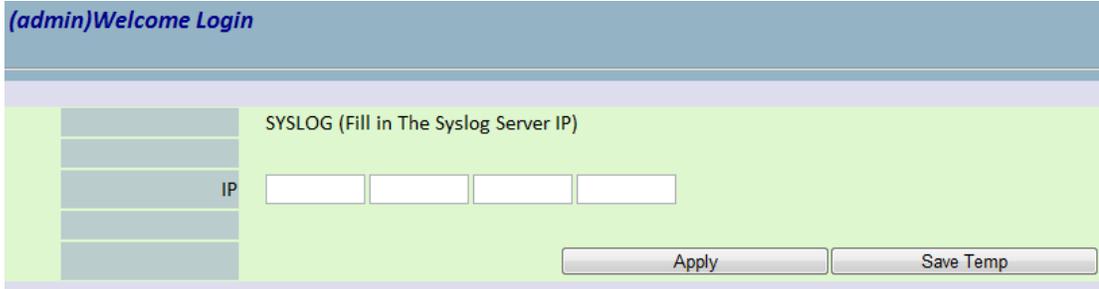


Fig.4-6

### IP entry

Enter syslog server IP address.

## 7. Email setup

Setup the mail addresses which the host will send event messages to. In certain conditions, the host will send messages concerning the host's status to system administrators. Enter through "Net Management -> Email".

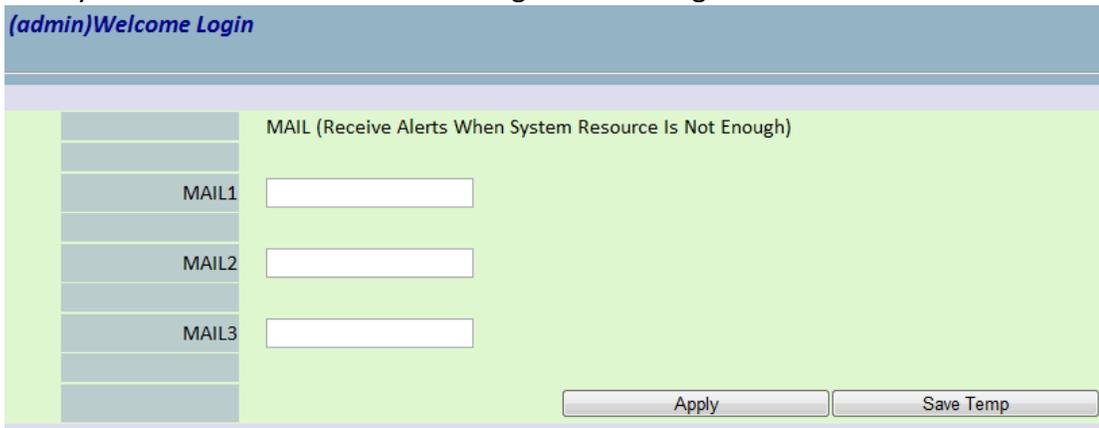


Fig.4-7

## 8. Net Security setup

If it is concerned should the service ports opened for CloudProof encounter attacks, you can close certain unnecessary ports, or choose certain protections for them, for example, DOS or Connection Limitation. Enter through "Net Management -> Net Security".

Port Setting	
HTTP Port	<input type="text" value="80"/>
HTTPS Port	<input type="text" value="448"/>
Admin Port	<input type="text" value="8000"/>
Remote Users Service	<input checked="" type="checkbox"/> SSH <input checked="" type="checkbox"/> SMTP <input checked="" type="checkbox"/> POP3
Failover Link Web Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
DoS(Denial of Service)	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Connect Limitation	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
<input type="button" value="Apply"/>	

Fig.4-8

**HTTP Port**

The HTTP login page port, default at 80, can be changed to another port (in case confronts with other service ports, please choose a port number higher than 1024 as possible). If it is changed to a new port, the login URL should be changed to ["http://CloudProof IP: new port"](http://CloudProof IP: new port).

**HTTPS Port**

The HTTPS login page port, default at 448, can be changed to another port (in case confronts with other service ports, please choose a port number higher than 1024 as possible). If it is changed to a new port, the login URL should be changed to ["https://CloudProof IP: new port"](https://CloudProof IP: new port).

**Admin Port**

The WEB management interface port, default at 8000, can be changed to another port (in case confronts with other service ports, please choose a port number higher than 1024 as possible). If it is changed to a new port, the management login URL should be changed to ["http://CloudProof IP: new port"](http://CloudProof IP: new port).

**Remote Users Service**

May close some of the service ports that CloudProof doesn't provide, Unchecking the check box to close. The default is to open all.

**Failover Link Web Service**

May close Web service at the failover link, Checking "Enable" to open, "Disable" to

close. The default is to open.

**DoS (Denial of Service)**

May prevent Syn-Flooding attacks, Checking “Enable” to open, “Disable” to close. The default is to open.

**Connection Limitation**

To limit the number of connects to CloudProof from a same IP. In this way, malicious connection attempts from a same IP can be prevented, checking “Enable” to open, “Disable” to close. The default is to open.

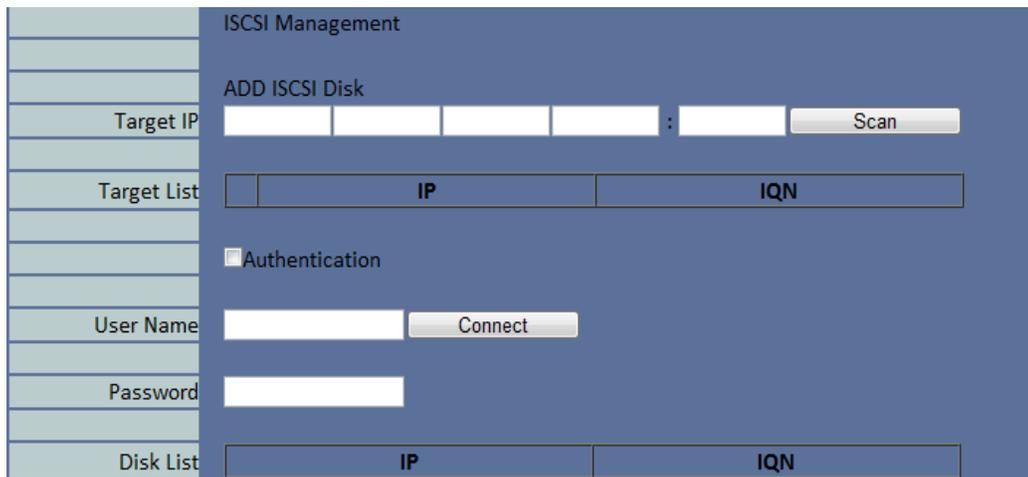
All entries need be configured, after finishing, pressing “Apply” to start.

## 4-2. System setup

System setup includes storage, time setup, etc. functions. They are described as follow:

### 1. iSCSI Management

iSCSI storage device can be added into the storage capacity of CloudProof, to increase the total storage capacity. To add iSCSI storage device, enter through “System Setting -> iSCSI Management”



The screenshot shows the 'iSCSI Management' interface. At the top, it says 'ADD iSCSI Disk'. Below this, there is a 'Target IP' field with a 'Scan' button. Underneath is a 'Target List' table with columns for 'IP' and 'IQN'. There is an 'Authentication' checkbox. Below that is a 'User Name' field with a 'Connect' button, and a 'Password' field. At the bottom, there is a 'Disk List' table with columns for 'IP' and 'IQN'.

Fig.4-8

The management of iSCSI disc includes the scanning for iSCSI target, connect and save.

- iSCSI Scanning : Before connecting to iSCSI, it is necessary to get the target’s disc list. Fill in the IP address of the target in the “Target IP” entry. If don’t provide one, the last port entry will be 3260 as default. After finishing this entry, press “Scan” to start the scanning action.
- iSCSI connect : From the Target List generated after a successful scanning, select the disc want create connect. If authentication is needed, check “Authentication” and fill in user name and password, pressing “Connect” to connect to iSCSI disc.

## 2. System Time setup

Setup the system time. Login Admin page; enter through “System -> System Time Setting”.

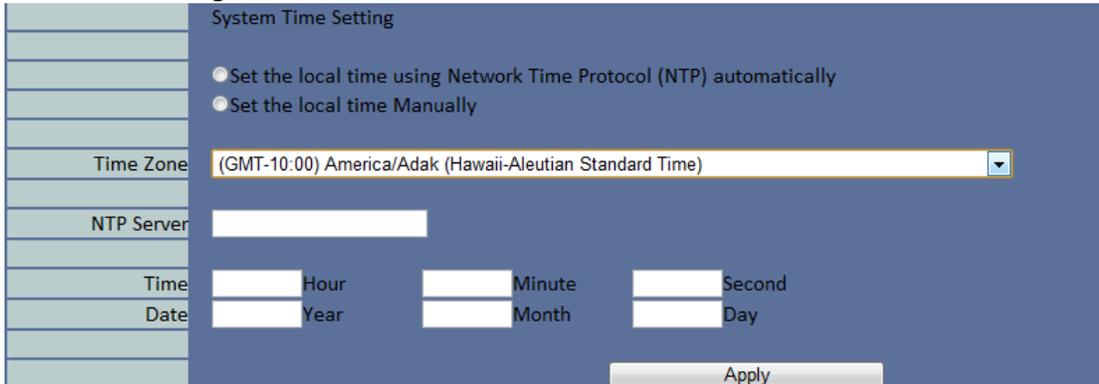


Fig.4-9

### Set System Time Mode

May select the NTP automatic setting time mode, or the direct setting time mode, filling in the correspondent information.

### Time Zone

Select the time zone where CloudProof is located.

### NTP Server

Fill in the NTP Server IP.

### Time

Fill in time.

### Date

Fill in date.

All entries need be configured, after finishing, pressing “Apply” to start.

## 3. Reboot

Enter through “System Setting -> Reboot”.

This page is for reboot the host. After filling in the administrator’s password, press “Save” to start rebooting the host.



Fig.4-10

### 4-3. Diagnostic function

The diagnostic function in the management page will help us understand the status of how the host operates.

#### 1. System status

- Enter through “Diagnostics -> System Status”.
- Entering the page in the following figure, it will display 2 tables of information: “System Resource” and “Hardware Monitor”. System Resource indicates the usage status of the system resource, including CPU, Memory, and the capacity of system internal storage, file space and mail space.
- Hardware Monitor indicates the condition status of hardware, including CPU temperature, fan’s rotational speed, etc. This 2 information will be updated every 30 seconds. You can observe time’s variation from the red color digit updated in table columns on the following picture.

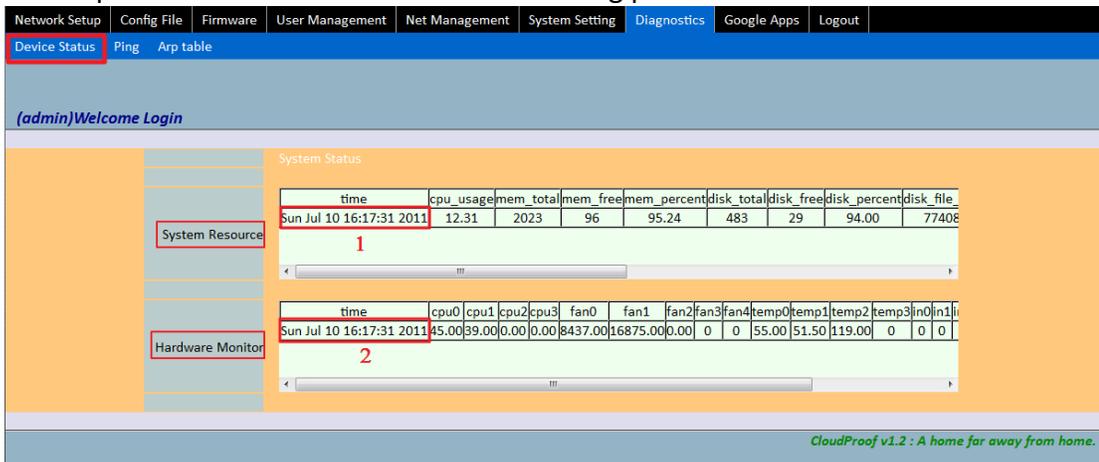


Fig.4-11

#### 2. System Diagnostic – Ping :

- Click through “Diagnostic -> Ping”.
- In the entry encircled by a red block and labeled by “1” in the following picture, enter IP;
- Next, press the button encircled and labeled as “2”.

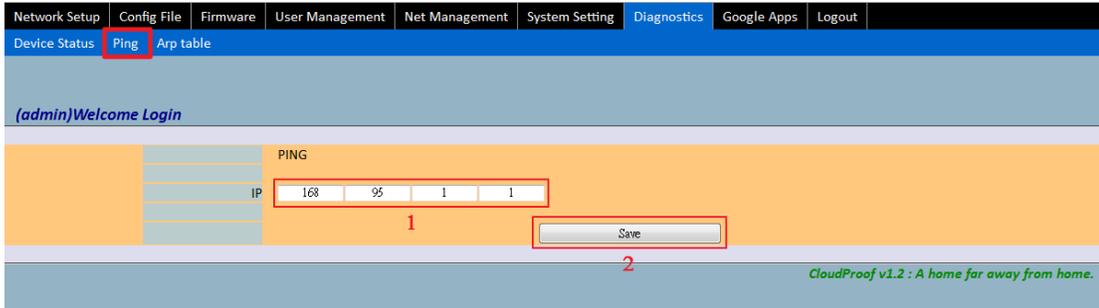


Fig.4-12

- Referred as the following figure, the correspondent information status table will be displayed.

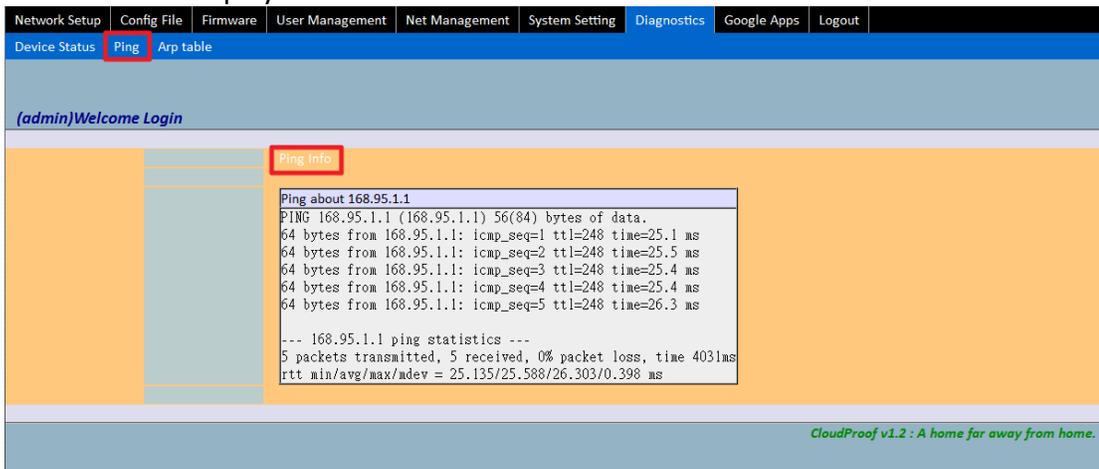


Fig.4-13

### 3. System Diagnostic – Arp table :

- Click through “Diagnostic -> Arp table”.
- Referred as the following figure, the correspondent information status table will be displayed.

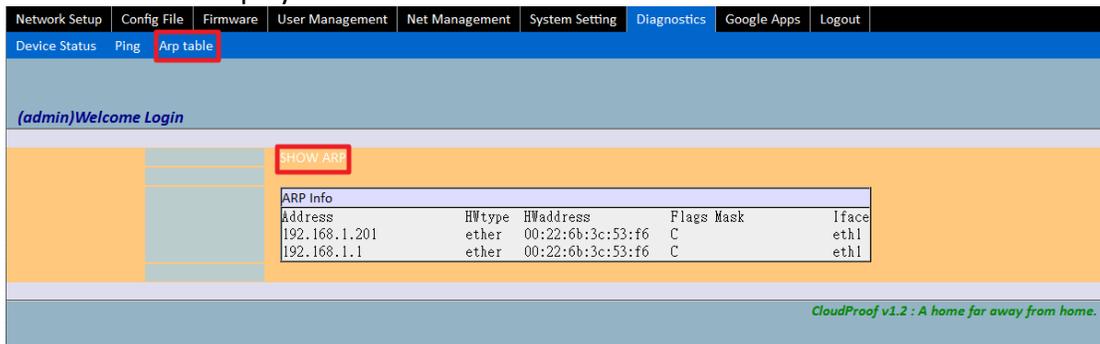


Fig.4-14

## 4-4. Configuration File and Firmware upgrade

This section includes 2 important system functions in management page, Config File and Firmware.

### 1. Config File Management

According to the configuration setup in the management page, it can be applied Save, Download, Upload and Apply action to it.

- Save: Administrator can save the current host configuration as an xml config file, which can be latter loaded to restore the configuration. The steps are as follow: Clicking through “Config File -> Save Temporary Configure to File”, in entry “Filename”, fills in the file name and press “Save” to save, referred as following figure.

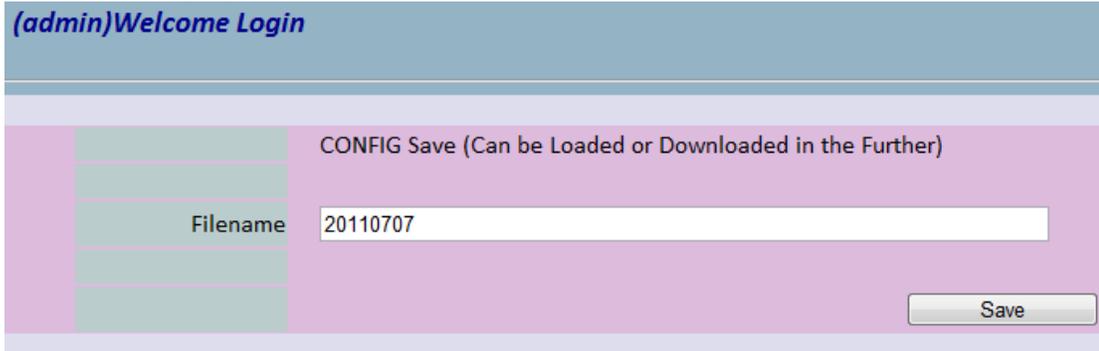


Fig.4-14

- Download : Clicking through “Config File -> Download”, in the “Select” drop-down list, select the preferred xml config file once saved, then press “Save” to download to the local computer, referred as following figure.

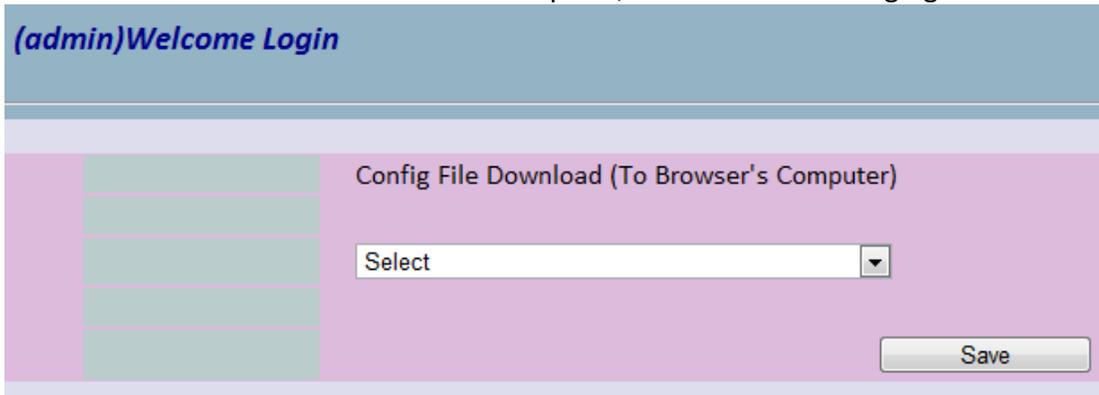


Fig.4-15

- Upload config file: Clicking through “Config File -> Upload”, press “Browse” to select the once saved xml config file from the local computer, then press “Upload” to upload to the host, referred as following figure.

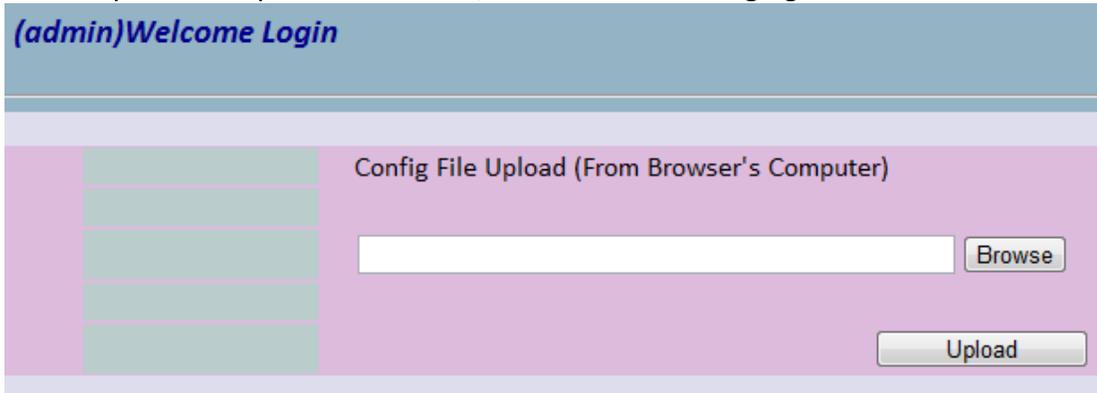


Fig.4-16

- Apply the config file : Clicking through “Config File -> Load”, in the “File Name” drop-down list, select the preferred xml config file, then press “Save” to restore the host to this configuration, referred as following figure.

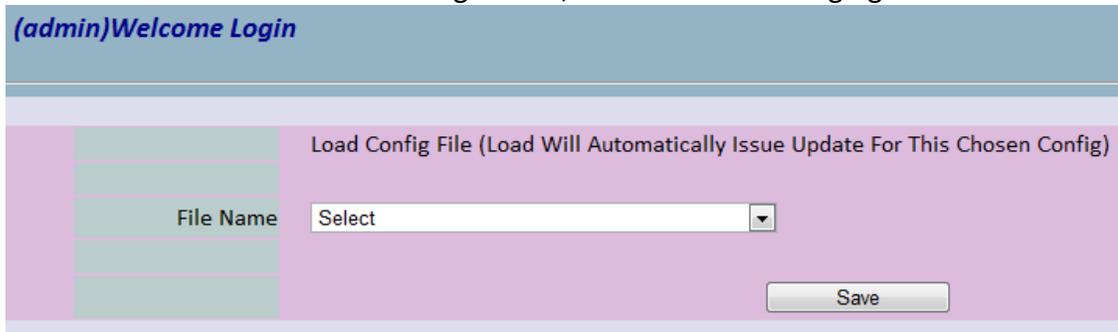
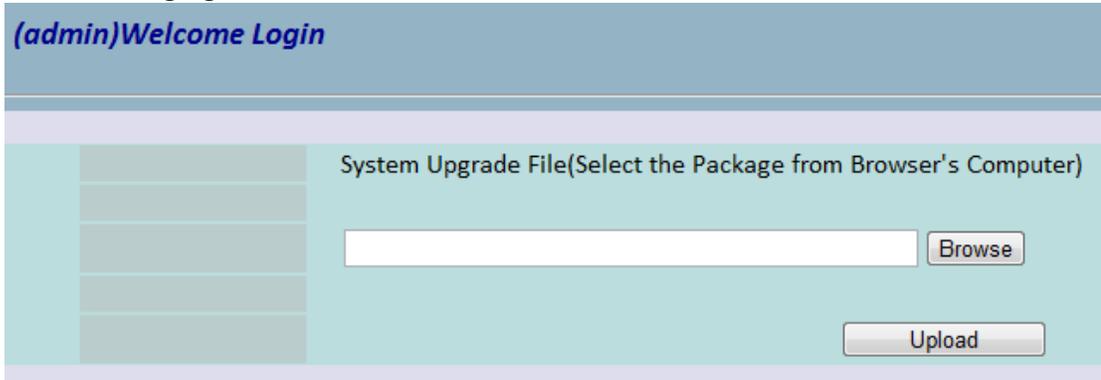


Fig.4-17

## 2. Firmware Upgrade

- Upgrade the firmware : Clicking through “Firmware -> Upgrade”, press “Browse” to select the preferred firmware file (\*.pkg) from the local computer, then press “Upload” to upload to the host and upgrade its firmware, referred as following figure.

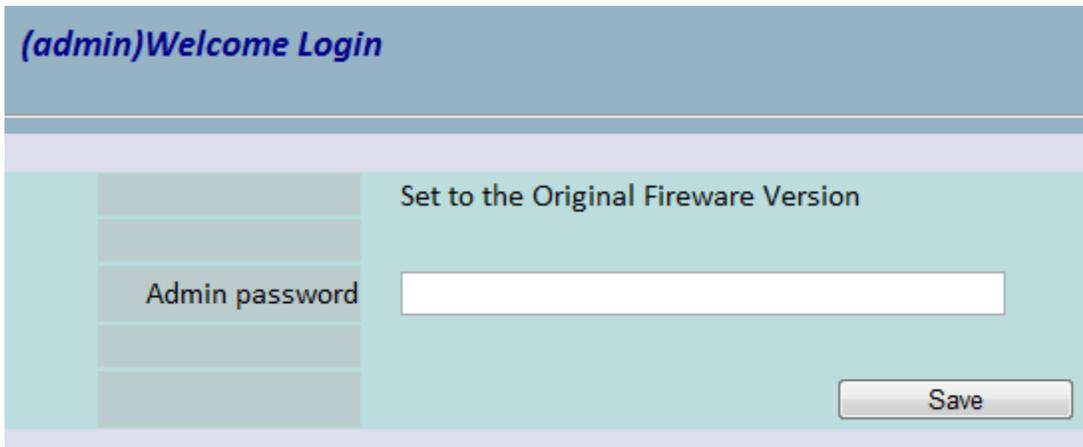


(admin)Welcome Login

System Upgrade File(Select the Package from Browser's Computer)

Fig.4-18

- Restore to the default firmware version: clicking through “Firmware -> Default”, in “Admin password” entry, enter and re-enter the administrator’s password, then press “Save” to start restoring to the default firmware, referred as following figure. After finishing the above steps, the administrator needs to restart the host.



(admin)Welcome Login

Set to the Original Firmware Version

Admin password

Fig.4-19

## **Chapter 5. Advanced Application**

### **FAQ**