# **EVO CLOUD Management System**

**User's Manual** 

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Team Softex, Inc.

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## Chapter 1 Introduction

#### 1.1 Description

EVO CLOUD management system combines various techniques, including network guidance, virture hard drive, virture device etc. to manage operation system, uniform distribution, update, installation and remote control.

Users need only to install an operating system onto one PC with a hard drive or SSD, and then upload the system image file to EVO CLOUD Server. And, all other PC can boot from this system image via EVO CLOUD Service. All clients are independent from one another, and applications can be installed on them. Any update or change to the system software need only to execute in the standard PC, and reload revised image to the EVO CLOUD Server, and all clients can inherit the result without install or update individually.

#### **1.2 Installation Requirement**

EVO CLOUD Server installation requirement

#### **Operating Systems:**

Microsoft Windows 2000 Server

Microsoft Server 2003

Microsoft Server 2008 32Bit

Microsoft Server 2008 64Bit

Microsoft Server 2012

#### Hardware:

CPU: Intel dual-core processor 2.8G or above.

Memory: At least 2G.

EVO CLOUD Client installation requirement:

EVO CLOUD Client supports the following operating systems below, with PXE network boot function:

Microsoft Windows XP Microsoft Windows 2000 Microsoft Server 2003 with SP 2 32/64Bit Microsoft Server 2008 32/64Bit Microsoft Windows Vista Microsoft Windows 7 32/64Bit Microsoft Windows 8.1 32/64Bit Linux EZGo Linux Unity Linux Mint Linux Ubuntu

## Chapter 2 EVO CLOUD Installation Process



EVO CLOUD disk image file creating process:

We will describe all the work flows of installation and operation of EVO CLOUD management system in detail that is displayed above later.

## Chapter 3 Install EVO CLOUD Server

### 3.1 Disk content

Installation disk contains:

- EVO CLOUD Server: Install EVO CLOUD Service and EVO CLOUD Management onto an EVO CLOUD Server.
- EVO CLOUD Client: Install EVO CLOUD client program on a client PC.
- Acrobat Reader: For reading the User's manual.
- User's manual: Read User's manual via Acrobat Reader.
- Disk directory: For reviewing disk directory.
- Exit: Exit Autorun.

### 3.2 Install EVO CLOUD Manager

1. On the screen of the disk autorun, click "Install EVO CLOUD Server". System will prompt a greeting screen as below:

		Choose Setup Language		
InstallShield Wizard		Select the language for this installation from the choices below.		
EVO Cloud Server Setup is preparing the InstallShieldR Wizard, which will guide you through the rest of the setup process. Please wait.		English		
Cancel		OK Cancel		
InstallShield Wizard		x		
Welcome to the Install           Welcome to the Install           The InstallShieldR Wizard wyour computer. To continue	and for EVO			
< Back	Next >	Cancel		

Install	Shield Wizard X
EVO Cloud 3.0	
EVD Cloud Server	
🗹 Main App	
🗖 Web	
InstallShield	
	< Back Next > Cancel

Install both Main program and Web remote management service.

2. Enter User Name and Company Name, and then click <Next> to proceed.

InstallShield Wizard	×
Customer Information Please enter your information.	
Please enter your name and the name of the company for which you work.	
User Name: Windows User	
Company Name:	
Test	
InstallShield	
< Back Next >	Cancel

3. Select destination location for installing sytem program. Default directory is recommended.

InstallShield Wizard
Choose Destination Location Select folder where Setup will install files.
Setup will install EVD Cloud Server in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder C:\\TeamSoftEx\EVO Cloud 3.0\Server Browse
InstallShield Cancel

System will then start installation automatically; this process will last for one minute or more. During the installation process, do not execute other program or operation. Please wait patiently.

InstallShield Wizard	x
Setup Status	2
EVD Cloud Server Setup is performing the requested operations.	
100%	
InstallShield	Cancel

4. Then, you will see a message prompted as below, and then reboot computer to complete the installation process.

InstallShield Wizard			
	InstallShield Wizard Complete Setup has finished installing EVO Cloud Server on your computer. Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.		
	< Back Finish Cancel		

5. After the computer reboots, click [START] button, then click "all", and you will see the icons of EVO CLOUD programs installed.

Apps by nar	ne 🗸
Security Configuration Wizard	Windows PowerShell ISE (x86)
Server Manager	EVO Cloud 3.0
Services	EVO Cloud Management
System Configuration	EVO Cloud Register
System Information	EVO Cloud Web Manager

## 3.3 Activate EVO CLOUD Management

Double click the icon of "EVO CLOUD Management" a "EVO CLOUD management. Then, there will be a "EVO CLOUD Management" program shown in the bottom-right corner.



# Chapter 4 Setting up EVO CLOUD Server

## 4.1 Initial setting for EVO CLOUD system

For setting EVO CLOUD system management for the first time, system will guide you to set up EVO CLOUD system. You may choose to ignore this and set up later.

1. Enter EVO CLOUD system configuration:

Configure System			
	Welcome to the System Configuration Wizard System Configuration wizard provides a simple and basic process of system configuration. If you have any questions, please read the help file. You can use numbers of default configurations. If you want to run the System Configuration wizard again or change some of these settings, please find the application configuration programs in the "Quick Start"> "Configure System" on the left side.		
	<back(b) next(n)=""> Cancel(C)</back(b)>		

 Configuring DHCP server. DHCP service provided by EVO CLOUD will only affect those computers which use the EVO CLOUD network operation system, and will not conflict with your LAN DHCP service. So, we recommend that you choose "yes" to install DHCP service. Click <Next> to continue.

Configure System ×			
Configure DHCP			
If the local computer or the network already provides DHCP service, please do not use the DHCP service under the system. During system installing, files required by DHCP service are already duplicated to server without initiating. If you already have a DHCP service in network, adding one more DHCP service will conflict with your original one. Please check with your system admin.			
<ul> <li>No, I already have DHCP service to be applied in this network</li> <li>Yes,I need to install a DHCP service in this network</li> </ul>			
<back(b) next(n)=""> Cancel(C)</back(b)>			

 In DHCP configuration menu, click <Add> button and enter DHCP name, subnet mask, gateway, default DNS server, starting and ending IP addresses, respectively. Click <Save setting> to save the settings. After finishing entering data, click <Next> to proceed.

Cont	figure Syst	em	×
Configure DHCP			EVO <sup>1</sup> Cloud
The following is the list of available DHCP	9 servers:		
DHCP DHCP IP Range		Subnet Mask	Gateway
<			>
	Add	Modify	Cancel
	<back< td=""><td>(B) Next(N)&gt;</td><td>Cancel(C)</td></back<>	(B) Next(N)>	Cancel(C)

Configure Sy	/stem	x
DHCP Sett	ings	x
DHCP Server Settings		
DHCP name: DHCP1	Conventi 8.8.8.8	
Gateway: 10 . 0 . 1 . 254	DNS2: 168.0.1	
*Subnet mask: 255 . 255 . 255 . 0		
- IP Address Range		
*Begin: 10 . 0 . 1 . 200 *	End: 10.0.1.230	
* Fields must be correctly fill in		
	Save setting Cancel	
<ba< td=""><td>ck(B) Next(N)&gt; Cancel(C)</td><td></td></ba<>	ck(B) Next(N)> Cancel(C)	

4. EVO CLOUD Server system can support multiple network interfaces. Using multiple LAN cards can greatly enhance the performance of EVO CLOUD by load-balacing the network. Normally, EVO CLOUD server uses Gigabit Ethernet adapter. In this process, we allocate IP addresses to a LAN card of the EVO CLOUD server. Proper IP address should be on the right. Click <Next> to continue.

Configure System	x
Select IP EVO I	
All IP Addresses       >>>         Image: state of the system supports multiple network interfaces. You should specify the correct IP to be used for communication between the Server and Clients.	
<back(b) next(n)=""> Cancel(C)</back(b)>	

Default configuration for initial client setting is shown below.

	Configure System	X
Set Client Boot m	evo <sup>1</sup> Cloud	
Server's cache path:	D:\Cache\ Browse(B)	
System disk default	setting	1
Cache location:	Server O Client Second primary partition	
Client cache	C High speed cache	
	🔿 Off-line cache Use up to 🗾 🗧 Times	
Data disk default set	ing	1
Cache location:	Server     ○ Client     First primary partition     ▼	
Client default setting	,	1
Default Name: PC	Beginning No.: 0 Display client HDD first partition at	
🔽 Hide client partits	ons 🔽 1 🗖 2 🗖 3 🗖 4 💿 First, O First dis	
🔲 Hide Disk 0 in D	isk Management (Only Kp32 valid)	
		1
	<back(b) next(n)=""> Cancel(C)</back(b)>	

5. Setting boot mode of an EVO Cloud client

Default Cache file directory:

Setting client cache file storage location:

- Cache in server: Path of client cache file is stored in the server. We suggest that the storage directory of client cache file and sytem image file should be in the same partition; this can greatly reduce the node creating time. Cache file can be very large when number of client increases. We suggest that you use a large partition for the server cache file storage.
- Default setting of system disk: "Cache storage location" and "Type of client cache".

Cache storage location can be either in client or server.

- i. Cache in server: Cache file is stored in server so client computer does not need to have a hard disk or SSD. That is a NO-disk mode. All Cache files will be stored on Server.
- ii. Cache in client: To choose to store cache file in client computer, we need to select a partition for cache file storage. Default options are "partition 1 to 4" and "entire disk". Then we need to configure the cache type: "High speed disk cache" or "Off-line cache".
  - High speed Disk cache: When volume of a partition is sufficient for multi-cache file, switch between image snapshots does not need to delete cache and restore. It requires client connection to server continuously, and applications and files used are downloaded to the local cache. When cache capacity is insufficient, system will prompt a message to ask you to clear cache.
  - 2) Offline cache: Can write multiple images. If the offline cache capacity is insufficient, it will need to write in local cache. Writing cache will take more time. A client partition size must be greater than 2.1 times of the current snapshot image. Advantage of the cache is to increase the performance of high-level graphics when the offline cache is written into 100%.

After the 100% cache is written, client and server connection is only needed for an initial authentication when it boots. Later, the client does not need to maintain connection with the server. Even if the network connection is lost or due to broken server, the client can still operate without impacts and does not use server resource at all.

- Data disk default setting: It sets whether the data disk is located in server or client. If you choose client, you then need to select which partition the data disk is used.
- First Primary Partition as default setting: Setup sequence of booting disk, local disk may be placed before or after the EVO virtual disk.
- Hide client partitions: When 4 partitions are used by a client. The partition checked will be hidden from the client's boot.

#### Other features:

- Disabled use of IP setting: Unable to open window for "Internet protocol(TCP/IP)" setting
- Disabled use of gateway and DNS: Unable to set gateway and DNS options in "Internet protocol (TCP/IP) setting window. The client cannot go online.
- Disabled use of floppy disk drive in client PC
- Disabled use of CD-ROM: Disable use of CD-ROM drive in the client PC
- Disable use of USB devices: Disable all USB devices, such as portable hard disk, but will not disable use of USB mouse.
- Disabled Disk : When a client boots from network, all data disk except system disk will be disabled.
- Disabled use of TAPE , MTD , PORTS , 1394: Disable use of specified peripherals.

Client name: Suggest use of system default setting.

Hide client's local disk partitions: Set whether to hide client local disk and quantity or not.

First primary partition front/rear: After booting from network (In CMOS setup of client PCs, it must support and enable LAN PXE boot to be the first boot sequence. See Section 5.2 for more details in the manual.), the original system disk is placed at the front or rear.

 Click <Next> to finish EVO CLOUD management system network configuration. You may choose "Restart immediately" or "Restart the service later". Clicking <OK> finishes EVO CLOUD system configuration.

	Configure System
	Click OK, to complete the configuration wizard
	The changes will be effective after restarting the service. Please select:
	<ul> <li>Restart the service immediately</li> <li>Restart the service later</li> </ul>
<b>1</b> -9}	If you want to run the System Configuration wizard again or change some of these settings, you can find the application configuration programs in the "Quick Start"> "Configure System" on the left side of Server.
	<back(b) cancel(c)<="" ok(o)="" th=""></back(b)>

### 4.2 EVO CLOUD Management Interface

When the EVO CLOUD management program is launched, screen will show as below:

EVO Cloud V3.0 System(F) Help(H)	_	(2010) (2010)	the strength long		
Quick Start	Client Operations				
Use System 🛞	Client Client Port	Settings Image Group Use	r Solution Task Plan		
To use this system, you need to start the system service. The system service is to provide service while client in use	Remote Control Wakeup	Reboot Shutdown Command D	istribution Transfer Message	Rename Disk Protect Search Refresh	
	Computer Name NIC Physical	Ad Allocated IP Start Mode	System Cache Size (MB)	) Detailed D I/O Server I/O Net Byte	s I/O Cache Bytes Caching progress Gr
Stop DHCP Service DHCP service is running.	pc2 23456789012	23 192.168.1.2 Boot from net	Notrest 0	test2 0.00KB	0.00KB 000% Nc
Stop System Service The system service is running.					
You can easily backup and recover your system configuration information by using backup and recovery functions					
Sackup System Configuration You can easily backup your system configuration information data by using the backup function.					
Import System Configuration You can quickly recover your system configuration information through import function.					
Excel Input / Output t can input and output configuration info from/to Excel file through the function of configuration info input/export.					
Configure System	All Groups / Search /				<b>&gt;</b>
	¢°	🐲 Memory Usage 2089MB/3913ME	Active Users:0/2	🧏 Completed offline:0/2	

EVO CLOUD management interface is comprised of five divisions:

- Title bar in the top
- Menu bar beneath the title bar
- Under Menu bar, there is Quick Start menu on the left.
- On the right side of Quick Start menu is the client system image file management area.
- Status bar at the bottom

#### Title Bar

There are three buttons in the Title bar, namely: Minimize window, Maximize window and Exit.

Click "Minimize" button to hide the EVO CLOUD management interface, and to display entire desktop.

Click "Maximize" button can get a full screen view of EVO CLOUD management interface.

Click "Exit" button to exit EVO CLOUD management interface.

#### Menu bar

Main functions of EVO CLOUD management are displayed in the menu area.

#### Quick start area

Quick Start menu area contains two areas: Use system and Configure system

#### Client system image file management area

Client management and image file management are the most commonly used functions in EVO CLOUD. They will be explained in detail later.

#### Status bar

Status bar displays the current usage of memory, and active user number.

### 4.3 Quick setting for EVO CLOUD system

Use configuration wizard to configure EVO CLOUD network. Start EVO CLOUD management for the first time will automatically start system configuration guide.

- 1. In the Quick Start menu, click Configure System button. There are 5 main functions that can be executed in the Quick Start menu.
  - Configure System: See Section 4.1. Follow the instructions to configure EVO CLOUD network.
  - Default Client Options: Use this to set initial information for the client first login, including image file activation setting, activate mode, synchronize parameter and setting for data disk.
  - Set Up Server Password: The setting accesses password to the EVO Cloud Management program when it's launched. This sets password access to the EVO Cloud Management program. If you choose "No Password", the system will not prompt password check dialog box. If you do set a password, accessing EVO CLOUD management will need a right password. Default password is "No Password".

Old password(O):
Image password           New password (𝔅):           Confirm password (𝔅):
Password authentication will not be used.     OK     Cancel

 Server Advanced Options: To configure "Performance settings", "Remote maintenance settings", "ARP request settings", "Choose synchronous file list", "Off-line settings", and "Other settings".

Server Advanced Options     Performance settings     Use reliable connectivity     Note: Applying a reliable connection in poor quality of the network can improve reliability while     transmitting. If it is not applied, the image startup accelerates.     Remote maintenance settings     Require for the agreement of the receiver before "Remote Maintenance"	r 🐿	Use Basic Configuration Before using this system, configurations such as DH Write Cache and Client opt must be done. The configu will inform you how to con Click to configure paramet
Note: After selecting this function, administrator needs to acquire the agreement of the receiver before using "Remote Maintenance" function. ARP request settings Send ARP request to the gateway Note: Digital China and other switches send ARP request to the gateway across the network segment, so this options need to be selected or the Client cannot normally start.		Default Client Options The system can set up ter folder and boot menu of cl Click Client Info Settings Set up Server Passwor
C:Program Files (x86)\TeamSoftExtEVO Cloud 3.0\Set Browse(R) Check File Synchronization Note:After check synchronized files, the client automatically sync file of the list after power on computer. Offline Settings Seeds speed settings: © Open-speed C Speed limit 60		Set up system password a regulation Click Start Setting Passwo Server Advanced Optio Set advance server perfor
The maximum number of services provided seed:     2       Other settings	To us perfo	distribution oppons. Recon default values e Server Cluster helps to im rmance.
OK Cancel		Manage Server Cluster Server Cluster Description

#### 4.4 **Quick Start EVO CLOUD management service**

- 1. In Quick Start menu, click "Use system" button.
- 2. Click "Start DHCP Service" to start EVO CLOUD DHCP service.
- Click "Start System Service" to start EVO CLOUD main service. 3.
- Activate these two services, and then EVO CLOUD system is ready to serve. 4.



Click "Stop DHCP Service" and "Stop System Service" buttons if you want to stop EVO CLOUD service. 5.

## Chapter 5 Install EVO CLOUD Client

### 5.1 Install EVO CLOUD client driver in standard PC

We need a PC in which operating system and application software have been installed and updated or patched to the latest version as a standard client PC. Create system image file of this client PC and upload to the EVO CLOUD Server. Then other client PCs having the same motherboard or hardware system (or SKU) can be applied from the same scenario of the standard PC. When an update or change is needed, just maintain a single PC, and reload its image to EVO CLOUD Server. There is no need to maintain separate, individual PCs.

1. In the install process, choose "Install EVO CLOUD client" program.

Choose Setup Language	
Select the language for the choices below.	or this installation from
English OK	Cancel
InstallShield Wizard	
EVO Cloud Client Setup which will guide you thro wait.	is preparing the InstallShieldR Wizard, ugh the rest of the setup process. Please
	Cancel
InstallShield Wizard	Welcome to the InstallShield Wizard for EVO
	Cloud Client The InstallShieldR Wizard will install EVO Cloud Client on your computer. To continue, click Next.
	( Park Meets Caused )
	Carber

2. Enter User Name and Company Name, and then click <Next> to proceed.

Customer Information	
Please enter your information.	
Please enter your name and the r	name of the company for which you work.
Hear Mamer	
User	
' Company Name:	
TeamSoftEx	1
aliShield	

3. Choose Destination Location. Default directory is recommended.

istallShield Wizard		×
Choose Destination Location Select folder where Setup will install files.		12A
Setup will install EVO Cloud Client in the follo	lowing folder.	
To install to this folder, click Next. To install another folder.	l to a different folder, click B	rowse and select
Destination Folder		
C:\\TeamSoftEx\EV0 Cloud 3.0\Client		Browse
C:\\TeamSoftEx\EVD Cloud 3.0\Client		Browse

4. System will start installation process; this process will last for over one minute or more. During the install process, do not execute other programs or operations. Please wait

Setup Status		
EVO Cloud Client Se	tup is performing the requested operations.	
Installing:		
C:\Windows\ACPID	rivers\ACPIDrivers2K\halstnd.dll	
	18%	

patiently.

5. Then we will see a message prompted as below, and then restart computer to complete the installation process.

InstallShield Wizard	
	Maintenance Complete InstallShield Wizard has finished performing maintenance operations on EVO Cloud Client.
	Yes, I want to restart my computer now. No, I will restart my computer later.
	Remove any disks from their drives, and then click Finish to complete setup.
	< Back. Finish Cancel

### 5.2 Setup BIOS in standard PC

Please refer to Appendix "Setup BIOS for Wake-on-LAN" for BIOS setting.

Reboot standard PC, and enter BIOS or CMOS setup screen. Set the bootup device to NIC (network interface card) or enable wake on LAN function, depending on the BIOS your system is. Set "Onbard LAN Option ROM" to "Enabled" and "Deep Power OFF Mode" to "Disabled", and then reboot the system again.

	PhoenixBIOS Setup Utility											
	Ma	in	Adva	nced	Secur i	ty	Power		Boot	Exit		
		Networ +Remova +Hard D CD-ROM	k bo ble i rive Driv	ot from Devices ve	AMD Am7	'9C970A				Item Specific Help Keys used to view or configure devices:		
										<pre><enter> expands or collapses devices with a + or - <ctrl+enter> expands all collection = bl</ctrl+enter></enter></pre>		
										<pre><shift +="" 1=""> enables or disables a device. &lt;+&gt; and &lt;-&gt; moves the device up or down. <n> May move removable</n></shift></pre>		
										device between Hard Disk or Removable Disk <d> Remove a device that is not installed.</d>		
F	1	Help	†↓	Select	Item	-/+ E-4	Change	Va I	ues	F9 Setup Defaults		

# 5.3 Create EVO CLOUD image file

Setup in EVO Cloud server:

- 1. Start DHCP and EVO CLOUD service.
- Click "Image Management" tab to enter management screen. Click Add icon, and enter New Image menu.

Image I									
Client	Clie	ent	Port Settings	Image	Group	User	Solution	Task Plan	1
		F					•		
Add	Edit	Wizard	d Snapsk	not Managemer	nt Delete	Mount Ima	ge	Stop mounting Im	age Backup Image

New Image X
- Image name
Name: Windows7
Image description
C Use the existing image file
Select D:\Image\L4630\ Browse(B)
Create new image file
New Image: D:\Image\L4630\Windows7.img Browse(C)
Size of 81920 MB
🔽 Format immediately
Click OK to create a new image
Support plug and play
OK Cancel

- 3. Enter a new image name, check <sup>Create new image file</sup> and enter an image location. If there are multiple disks in the system, it is recommended to store the image file to the same disk where the the client cache file is stored.
- 4. The default size of an image file is 8GB, and it can be adjusted, if necessary.
- Check Format immediately then click <OK>. System will create and format an image file as you have set. When the process is complete, it will prompt a message as shown below:

PNS QuickDesktop	
Congratulations. The blank image is created successfully!	
ОК	]

### 5.4 Optimize standard PC operating system and upload image file

1. Power up a client PC, and the client PC will need to boot up from LAN. You will see the screen below.



2. Click "Refresh" on the EVO Cloud management console, client PCs will appear.

5				PNS Quic	kDesktop V3.0				- 0 ×
System(F) Help(H)									
Quick Start		Client Ope	erations						
Use System	0	Client	Client Port Set	tings Image	Group	User Solution	n Task Plan		
To use this system, you need to start the system service. The system service is to provide service while client in use. Stop DHCP Service DHCP service is running.	^	Remote Contro Computer Name PC000 PC001	Wakeup Reb NIC Physical Ad. C03FD54BP930 C03FD54AC4C6	oot Shutdown <u>Allocated IP</u> 10.0.1.180 10.0.1.181	n Command Start Mode Boot from local Boot from local	Distribution Tra System Not rest	insfer Message Cache Size(MB) 0 0	Rename Disk Protect	Search Ref I/O Net 0.00KB 0.00KB
Stop System Service The system service is running.	Ξ								
You can easily backup and recover your system configuration information by using backup and recovery functions									
You can easily backup your system configuration information data by using the backup function.									
You can quickly recover your system configuration information through import function.	~								
Configure System	٢	All Groups	Search /						>
			CPU Utility 4%		🐲 Memory Usage:	964MB/8053MB	Active Users:0	n. 🔐 🖉	Completed - etti 0/

3. Right click one of the clients (in this case PC001. This PC will be called standard PC because we' II use it as a source. Creating this will allow to apply to all other identical PCs.) from the "Client Operations" tab of EVO Cloud Server console (EVO Cloud Management program), and select "Client Properties" menu. Or, you can just double click on the client. Note: You can also select multiple clients by highlighting them, and all their settings are changed according to your actions taken in the "Client Properties" menu, and then the settings of these PCs are the same following the change or actions taken.

	Client Properties
Client list	Client properties Computer PC001 Mac C03FD54AC4C6 Modify The 10 0 1 181
	Detail:
	Boot from local     Boot pwd Setting      Boot from net     Start menu set     Datadisk(D) Advanced(U)      Create image
	Boot pwd Setting Recover the OS not restoreOS
	OK Cancel

The system will populate computer name and an IP address of the client PC automatically. In the box called "Boot Settings", check "Create image", and with drop-down list on its right select the image file name that was previously created, then click <OK> to save the setting.

4. Then reboot the standard PC. After rebooting, there will be a new tag for LAN disk called "OS" on "My computer" of the standard PC.



 In the standard PC disk where you installed EVO Cloud client software, you can see the EVO CLOUD client icon (see picture below). Right click the icon, and then click "Deploy system" menu.



If your operating system is Windows 7 64-bit, then the menu is located in Start -> All Programs -> EVO CLOUD 3.0 -> Deploy the system (64 bit).

6. In destination path, select a tag or drive which corresponds to the system disk (i.e. "OS" drive, LAN disk).

About Client Deployment Tool									
Client is going to upload current operating system to the designated path. It requires these system files to start the destination path.	d destination								
All or the systems files will be copied to the destination path. This process will take for a while. Please wait,									
Current system: C:\									
Destination path: E:\	Select(B)								
Hide notifyicon of client program									
Hide the client program folder in the start menu									
Format partition of destination path									
Synchronize volume serial number									
0.00%									
Deploy(U)	Close(C)								

- 7. Click "Deploy" button.
- When you select "Optimize System" menu from the EVO Cloud client icon at the lower right corner, Client optimizer appears. Client optimizer operation is to optimize client operating system that's to be uploaded. It can increase the total performance. Click "Single button setting" to start optimization.

Client optimizer
Quick Start
Software description
System optimizer
System optimizer will apply recommended settings on OS before deploying.
It will facilitate deployment
and increase performance.
Button description
Single button setting: use default configuration to optimize system
Recommend to Windows advanced users
Single button setting Advanced >>

- After the optimization process is complete, system will upload client image automatically. Later, the system will prompt a message saying that upload is complete, and the upload took hh:mm:ss time. This could take about 15 minutes or more.
- 10. Setting the client to boot from LAN with an image for next boot: On the "Configure System" menu of the EVO Cloud management interface of the server, click "Default Client Options"



Default Client Options The system can set up temporary file folder and boot menu of client.

Click Client Info Settings... to set a default image of the client to boot from LAN. This is to prepare the client for next boot from LAN with an image.

Please refer to pictures below. Set to add a boot image file on the left box to the "Image of boot OS" box on the right. Select "Boot from net", then click <Next> to save the setting. Set the cache mode for the client to use, and click <Next> to continue. Lastly, set the "Data disk", and click <OK> button to finish the setting.

You can make all other PCs follow the default setting to boot from LAN for deployment. Note that you must select all or all other PCs to follow the configuration to boot from LAN. This is explained in Section 5.4 (Optimize standard PC operating system and upload image file). This will complete the system use for the first time.

	Default Client	Options		x
Set Client Boot mode	•		EVO <sup>1</sup> Cloud	
All images Boot from local GL45300_Doc-4306 GL45300_Win7 CL45300_Win7 GL45300_Win7_R Mondows7 CL45300_Win7_R Mondows7 CL45300_Win7_R Mondows7	Software icoot	-Image of booting OS L4630G_Dos-430G	1	•
Soot from net	Boot pwd:			
🗌 Recover the OS 👘 T:	ime to display list of op	erating systems:	1 -	s
C Create image	Ŧ	Boot pwd Setting		
C Boot from local B	oot pwd Setting			
	<be< td=""><td>ck(B) Next(N)&gt;</td><td>Cancel(C)</td><th></th></be<>	ck(B) Next(N)>	Cancel(C)	

Default Client Options								
Set Client Boot mode								
Server's cache path: DACache\ System disk default setting Cache location:  Server Client Second primary partition								
Client cache C High speed cache C Off-line cache Use up to 5 Times								
Cache location:      Server C Client First primary partition								
Client default settings       Default Name:       PC       Beginning No.:       0       Display client HDD first partition st:         ✓ Hide client partitions       ✓ 1       2       3       4       ⓒ First · ○ First dis         □ Hide Disk 0 in Disk Management (Only Xp32 valid)								
<back(b) next(n)=""> Cancel(C)</back(b)>								

	Default Client Options
	Select DHCP Select DHCP Use external DHCP
	Datadisk set
m. from	Redirect Documents on the Decklop Redirect Doc Nothing   Redir
	Click ok, will complete the following configuration guide.
	charge some of these Settings, form the management can be fit "quokly start"> ""configuration system"" in the configuration program
	<back(b) cancel(c)<="" ok(o)="" th=""></back(b)>

## Chapter 6 Client management on EVO CLOUD Server

### 6.1 EVO CLOUD Server management

The purpose of EVO CLOUD Server management is to provide client management. It contains:

System(F) Help(H)				F	PNS Quick	Desktop V3.0						
Quick Start		Client O	perations									
Use System	0	Client	Client	Port Settings	Image	Group	User S	olution	Task Plan			
To use this system, you need to start the system service. The system service is to provide service while clent in use.	^	Remote Co Computer Ne PC000	untrol Wakeup une NIC Physi C03FD54: C03FD54.	Reboot cal Ad All BF930 10. AC4C6 10.	Shutdown ocated IP 0.1.180 0.1.181	Command Start Mode Boot from local Boot from local	Distribution Sys Not	Transfer tem Cao trest 0 trest 0	Message he Size (MB)	Rename Detailed	Disk Protect	Search Ref
Stop System Service is running.	=											
You can easily backup and recover your system configuration information by using backup and recovery functions												
Backup System You can easily backup your system configuration information data by using the backup function.												
You can quickly recover your system configuration information through import function.	>											
Configure System	۲	All Group	s / Search /									>
			CPU Utili	ty:4%		🐖 Memory Usage:	964MB/8053M	ib 🧏 A	.ctive Users:0/	2	🧏 Coi	npleted - ***: 0%

List of columns or fields on the menu :

- Computer Name: Name of the client PC.
- MAC Address: Display the MAC address of the NIC on client PC.
- Allocated IP: Display the IP address allocated by EVO CLOUD's DHCP Service to the client PC.
- Start Mode: Display the image file and the I/O mode currently used.
- System restore : Display whether to use system restore or not.
- Cache size : Display the current file size of the client Cache.
- Detail description: Detail description of the client.
- Group: The group which this PC belongs.
- I/O server: Display the server which client PC logged onto.

### 6.2 Client Operations tab

Client Operations											
Client	Client P	Port Settings	Image	Group	User	Solution	Task Plan				
<b>S</b>			(Ċ)	- 🚍			$\langle \rangle$		<b>.</b>	. 🔍	<b>{}</b>
Remote Contro	Wakeup	Reboot	Shutdown	Command	d Distributi	on Transfer	Message	Rename	Disk Protect	Search	Refresh

#### **Remote Control**

Use Remote Control function to control client operation without accessing client PC. click **control** to monitor and control client operation from the server.

Commonly, we use remote control to install application, configure network setting, set up system and perform troubleshooting.

For local system booting failure due to virus, partition failure, registry problem, we can use remote control to create operating system and install applications. This could take from a few minutes to tens of minutes.

#### Wakeup

-

wakeup Use Wakeup function to wake up one or more clients via network.

To practice wake function we need to configure NIC and BIOS, switch and power of a client PC. Some PCs may not support this function.

#### Reboot

### 

Reboot Use Reboot function to reboot one or more clients via network.

You can choose between "Normal reboot" and "Quick reboot" to restart the system. In the "Quick reboot" mode, the system will shut down the client's power directly. Default reboot mode is "Normal reboot".

#### Shutdown



Shuldown Use Shutdown function to shut down one or more clients via network.

You can choose between "Normal shutdown" and "Quick shutdown" to shut down computer. In "Quick shutdown" mode, the system will shut down the client's power directly. Default shutdown mode is "Normal shutdown".

Remote shutdown is available only when this function is supported by power supply, OS and mainboard of the client PC.

#### Command

Use Command to send command to one or more clients via network.



Synchronized Time(S): Synchronize system time between Server and client PC.

PNSBOOT setting: Remotely sets client PNSBOOT properties.

Format all the physical hard disk partitions (F): Format all the local hard disk partitions of the client PC.

Program (P): When running a remote command, you can choose system program or a program in a user defined list. What needs to pay attention to is that the program must exist in the client's operating system image.

Edit: A user can set remote commands to run. The program created will appear in the "Custom" .

#### Distribution

Distribution function delivers a selected image to a selected client to exercise a collective function of operating system.

First, select a client which has logged in to the EVO CLOUD Server, click "Distribution" Distribution, and OS Distribution Wizard will show to guide the distribution process. Click <Next>

OS Distribution Wizard	
Welcome to the OS Distribution Wizard OS Distribution Wizard provides an instant and basic OS distribution function. Through this wizard, you can distribute the OS you need to the HD of clients. OS Distribution function requires the Client to boot from network with at least one hard disk. The first partition of HD must be formatted or the OS cannot be guarantely distributed to client's HD correctly.	
<back(b) next(n)=""> Cancel(C)</back(b)>	

There are two modes for distribution: "Multicast" and "Unicast" modes. Check the distribution mode you want and click <Next>.

OS Distribution Wizard	×
Distribution EVO <sup>1</sup> Cloud	
Select distributing method There are two ways of distribution, Multicast and Unicast. Multicast provides faster distribution for large numbers of clients with selectable the OS distribution. Unicast is faster for distribution less than 20 PCs .	
Please select the way of OS distribution: © Use multicest distribution © Use unicest distribution	
<back(b) next(n)=""> Cancel(C)</back(b)>	

Select the image file to be distributed, and click <Next>.

OS Distri	ibution Wizard	x					
Distribution	Cloud						
Select image and Client partition receiving Before distributing OS, please select a im	g the distributed nage file.						
Image Name	Image Location						
L4630-Win7_AP_0923 L4630-Win7_AP_0924	D:\Image\L4630\L4630G_Win7.img D\Image\L4630\L4630G_Win7.img						
L4630-Win7 AP 0924-1	D'Umage'L4630'L4630G Win7 img						
L4630_Win7_1113	D:\Image\L4630\L4630G_Win7.img =						
🚰 L4630_Win7_Root	D:\Image\L4630\L4630G_Win7.img						
🗒 Windows7	D:\Image\L4630\Windows7.img 🗸 🗸						
< III	>						
The Client partition that receives the distributed OS. is $1 - Partition$							
Immediately install OS recovery software after distribution completes							
	<back(b) next(n)=""> Cancel(C)</back(b)>						

System will format the first partition of the local disk in the client PC, to ensure that the data disk is empty.

	PNS QuickDesktop
<b></b>	1: Please disable antivirus during OS distribution 2: if any PC is slower in receiving the OS distribution, please shut down the PC OS distribution will format the specified partition of Clients. Do you want to continue?
	Yes No

Wait for the client to respond. If all the clients chosen are ready, click <Next> to proceed. The client PC will prompt a message displaying to receive imformation.

OS Distribution Wizard	×
Distribution	EVO 1 Cloud
Initializing, please wait	
Info: Collecting Client info Client Number: 0 Tra	unsur OS
Computer Name IP Address Status Progress	Packet los
Settings Start distributing Delete clien	ıt Exit
<back(b) ok(o)<="" td=""><td>Cancel(C)</td></back(b)>	Cancel(C)

Delivery time depends on size of the image file, distribution mode, number of clients and current network traffic. It might need at least 10 minutes.

The client, which receives the image file, can not be set to hide its local disk. Please refer to contents of "Client setting".

#### Transfer

Transfer Use Transfer function to deliver files or folders to a chosen path in the client PC.

Distribution path is the location where the files or folders to be transferred exist. Storage path is the destination where the files or folders are transferred to. After setting the file path, click <Send> button to start the transfer. In the client list, you can perform delete operation on the client(s) to be received.

		File	e Distributior	ı	
Distribution <b>p</b>	peth				Folder
DACFG					File
Storage path					
C:(					>>
	Send	Sto	p sending file	Settings	Refresh
Status info:	Collecting	Client info	Number of clients:	1 Tran time:	smission 0 S
Computer 1	Name	IP Address	Status	Progre	ss Packet los
1				Delete client	t Exit
					Δ.

#### Message

Wessage Use Message function to send text message to client(s). Click Message button, and system will prompt a "Message" dialog box as below, enter the message you wish to send and click <Send> to send the text message. The

Messag	je X
1	
Send	Exit

client(s) will receive this message.

#### Rename

Use Rename function to change name of a client PC. A new computer name can be entered from the client PC.

Click Rename, and the system will prompt a "Rename PC" dialog box as below. At the same time, the client PC

system will prompt a dialog box for entering a new PC name. After a new name is entered, server will receive the message and change the computer name accordingly.

	Rename P	с
Old Computer Name	IP Address	New Computer Name
PC001	10.0.1.181	PC-001
		OK Cancel
l		

#### **Disk Protect**

Use Disk Protect function to install disk protect system to local system disk of selected client PCs.





Click "Disk Protect" button<sup>Disk Protect</sup> or click the "Disk Protect" submenu in the

st otection pull down

list to set up. During setting, EVO CLOUD client should use local bootup mode, and have EVO CLOUD client software installed.

Under disk protect, any alteration to sytem disk of the client PCs will be ignored, and the system disk retains the original state.

Click "Cancel Protection "to cancel the protection, if needed.

#### Search

Use Search function to search for a client PC in the network. Click Search button Search, and enter search criterias in search of a client PC. Once you click <OK> button and the client is found, you will see the client in "Search" tab at the bottom.

Search
Set the search criteria
Computer Name:
MAC
Allocated IP:
OK Cancel

#### Refresh



Refresh Use Refresh funciton to refresh client status.

#### Allow register

In "Use system" menu of the Quick Start	menu, click		Disable regis Register new o already.	e register r new client is allowed	button to disable new user
registration. And the button will chage to	6	Allow register New client registr already.	er is prohibited		

In this condition, EVO CLOUD server can only provide service to the clients in the list. And new client registration is not allowed.

	Δ	Allow register		Ω	Disable register	
Click		New client register is prohibited already.	button, button will toggle to	8	Register new client is allowed already.	, and EVO CLOUD

Server allows to register.

Usually when creating and maintaining an image file, you want to allow new registers. But, when a client logs in, clicking the "Disable register" button will immediately prevent new register from interferring the management operation.

### 6.3 Client settings tab

Use Client setting function to edit client properties, such as:

Client	Settings			
Client	Client	Port Settings	Image	Group
<b>_</b>	N	31	â	- 🛟
Add	Properties	Personal space	RestoreOS	Refresh

#### **Properties**

	Client Properties	x
Client list	Client properties Computer PC001 Mac C03FD54AC4C6 Modify IP: 10 0 1 181 >> Detail: Boot Settings © Boot from local Boot pwd Setting @ Boot from local Boot pwd Setting @ Boot from net Start menu set Datadisk(D) Advanced (U) © Create image Boot pwd Setting Recover the OS not restoreOS V	
	OK Cancel	

Select a client icon and click Properties button to enter "Client Properties" screen.

- Computer: User can arbitrarily change computer name, new computer name will apply after system restart.
- MAC: Display the NIC physical address, and the MAC address field can not be changed. But, you can modify it in case of wrong MAC address is detected by the server when LAN boot occurs on deploying multiple client PCs.
- IP: Display IP address allocated by DHCP service of EVO CLOUD system. A user can change IP address when needed. The user can also change Gateway and DNS service IP addresses.



- Detail: Detailed description of the computer, such as location ... etc., can be added here.
- Boot settings: Setup boot mode. Start menu set, data disk, and advanced setting.

Boot from local: Boot up from local operating system.

Boot from net: Choose "Start menu set" button.

Click the image and snapshot list in the left pan, then click rightward arrow to move it to the right pan "Image of OS for booting". Leftward arrow is used when you want to move a selected image or snapshot on the right to the left. An item (image or snapshot) that was moved to the left will not show up on the client PC when you boot the client PC from the LAN.

Configuration st	art menu
All images All images Boot from local 146300 Dev-4303 1 C 146300 Win7 Software 1 C 14630 Win7_AP 1 C 14630 Win7_Root Windows7 Boot pwd:	Tanages of OS for booting
Time to display list of operating systems:	1 + +
	OK Cancel

Create image: An image is software installed on a PC. This includes Windows OS, device drivers and/or application software installed. In the drop down list on the right, select a new image name. At this time, the system allows only one client as a source to run (because all others will use the source image created), and the client is booted from local disk, and executes the process of uploading its image file. Usage of this is mentioned at an earlier section of the manual. See Section 5.4 (Optimize standard PC operating system and upload image file).

- Temporary path: Temporarily change storage path for a specific client.
- Other funciton:

Prohibit use of USB device: Disable all USB devices, such as portable hard disk, but will not disable USB mouse.

Prohibit use of CD-ROM: Disable CD-ROM in the client PC.

Prohibit from setting IP: Unable to open the setting menu of "Internet protocol (TCP/IP).

Prohibit use of gateway and DNS: Unable to set up gateway and DNS in "Internet protocol (TCP/IP) setting menu.

Prohibit use of DISK and other device: Disable local disk and other peripherals in client PC.

Encrypted: If check this item, the local data disk will be encrypted, and can not be reviewed.

802.11X support.

Prohibit use of Floppy disk in client PC.

Prohibit use of shared folder.

Prohibit use of communication between clients.

Prohibit use of PNP function of display card.

Prohibit use of PNP function of USB keyboard and mouse.

Prohibit use of PNP function of NIC.

- Restore the OS (operating system): Set specific client(s) to restore to an original state at the next boot-up.
- Data disk: Besides system disk, a user can choose image file as a data disk, and restore from data disk. Setup for data disk need guidance from professional personnel, we do not recommand you use data disk.

Setting of Datadisk Image					
Dotodáski Do not uze					
Image address: Do not use					
Dotadásk 2 💌 🗖 Recover					
Image address: Do not use					
Detadisk 3 🖉 🖉 Recover					
Image address: Do not use					
Note Detedisk cannot use the same image as the system disk.					
OK Cencel					

elect more	than one client, click Presses button to enter	"Client Properties" menu
	Client Properties	
Client list	Client properties Computer PC001 Mac C03FD54AC4C6 Modify IP: 10 0 1 181 >> Detail: Boot Settings © Boot from local Boot pwd Setting © Boot from net Start menu set Detadisk(D) Advanced (U) © Create image Poot pwd Setting Boot pwd Setting Recover the OS not restoreOS ▼	Client Properties Client list Client properties Computer pol Mac 1123456789012 Motify IP: 192 168 1 1 Detail: [set Boot Settings C Boot from local Boot pwd Setting C Boot from net Start ment set Boot pwd Setting Recover the OS not restoreOS
	OK Cancel	OK Cancel

After the setting is complete, click <OK> to save the setting.

You may set up booting image, booting mode and restore function in batch. You may also configure subnet mask, gateway, and DNS in batch.

Client Network Properties						
Subnet mesk:	ASS . 255 . 255 . 0					
Gateway:	10 . 0 . 1 . 254					
DNS:	8.8.8.8					
DNS2:	168 . 95 . 1 . 1					
[	OK Cancel					

#### **Personal space**

Personal space is a server's directory allocated for a specific client and is shared for use with other clients. Each client has its own directory and read/write privilege. Files from the client can be stored in the directory. Checking "Clean contents of personal space" will clear or remove all data in the directory. Check "Hide personal space" if you do not wish to use this function.

Note: Do not use a root directory for personal space because clearing contents will wipe out all data beneath that directory.

Personal Di	sk Settings	×
Create a personal space in this fold D.(Share)	er	Browse(B)
Clean contents of personal spe Hude personal space	ice	
	ОК	Cancel

#### **Restore OS**

ck RestoreOS

When an image is damaged or the system is unable to boot, use the Restore OS to restore cache. Click and <OK>. The cache will be restored in the next boot-up. You may restore multiple clients at one time.



Click Refresh to refresh current client status.

### 6.4 Right click operation in client list

In client list, right click on client(s) will pop up useful operation menus.

#### Right-click menu for single client selected

Click single client, then right click the mouse button, system will pop out a context menu as below.

	Select all Clients
	Client properties(P)
	Delete Client(D)
	Disable Client(L)
	Enable Client(U)
	Synchronize image configuration to(T)
	Immediately restore the system tray
	Restore OS disk cache
	Restore data disk cache
	All Clients restoreOS reboat everytime
	Cancel all Clients restore OS reboot everytime
	Join group
	Exit group
	Refresh
<	Prohibit other Clients from automatically logging in (D).
_	Stop offline cache
	Select Columns(S)

- Select all clients: Select all clients.
- Client properties: Set up client properties, please refer to "Properties" of the Section 6.3 (Client Settings) for operation.
- Delete client: Delete the client chosen.
- Disable client: Disallow the client chosen to log in to EVO CLOUD server.
- Enable client: Allow the client chosen to log in to EVO CLOUD server.
- Synchronize image configuration to: Synchronize image configuration to all or to specified client.
- Immediately restore the system tray.
- Restore OS disk cache.
- Restore data disk cache.
- All client restore OS reboot everytime: Set up boot mode to restore OS at boot-up every time for all clients.
- Cancel all client restore OS reboot everytime: Set up boot mode not to restore OS at boot-up every time for all clients.

- Join group: Get the client selected to join an existing group.
- Exit group: Get the client selected to exit from a joined group.
- Refresh: Please refer to the section of "Refresh ".
- Prohibit other clients from automatically logging in: Please refer to Allow/Disallow register of Section 6.2 (Client Operations tab).
- Stop offline cache
- Select column

#### Right-click menu for multiple clients selected

Select multi-client, then click the right mouse key, system will pop out a context menu as below.

- Select all clients: Select all clients.
- Client properties: Set up client properties, please refer to "Properties" of the Section 6.3 (Client Settings) for operation.
- Delete client: Delete the clients chosen.
- Disable client: Disallow the clients chosen to log in to EVO CLOUD server.
- Enable client: Allow the clients chosen to log in to EVO CLOUD server.
- Manually Rename Computer: Change computer names of selected clients in batch.

Manually Rename Computer
Rename Jemplate © Begin with Numb- 1 Wildcard 3 (1-5) © Begin with Lette:  © Start (case sensitive) Template: L&B-PC(*)
Computer N         New comput         Allocated IP           PC001         LAB-PC001         10.0.1.181           PC002         LAB-PC002         10.0.1.180
OK Cancel

- Immediately restore the system tray.
- Restore OS disk cache.
- Restore data disk cache.
- All client restore OS reboot everytime: Set up boot mode to restore OS at boot-up every time for all clients.
- Cancel all client restore OS reboot everytime: Set up boot mode not to restore OS at boot-up every time for all clients.
- Join group: Get the clients selected to join an existing group.

- Exit group: Get the clients selected to exit from a joined group.
- Refresh: Please refer to the section of "Refresh ".
- Prohibit other clients from automatically logging in: Please refer to Allow/Disallow register of Section 6.2 (Client Operations tab).
- Stop offline cache
- Select column

## Chapter 7 Image management tab on EVO CLOUD Server

### 7.1 Image management

Image	Manag	ement						
Client	CI	ient Port	Settings Image	Group	User	Solution	Task Plan	
		P				_		
Add	Edit	Wizard	Snapshot Management	Delete	Mount Image	, s	top mounting Image	Backup Image

An image is softwares installed on a PC. This includes an operating system (i.e. Windows OS), drivers and application softwares installed.

### 7.2 Add: Add new image

Adding an image creates a brand new image, or you can use it on an already-created image file.

Creating a brand new image has been discussed in detail. Please refer to Section 5.3 (Create EVO CLOUD image file) for details.

### 7.3 Edit: Edit image properties

Modify or edit name of an image selected, and describe the installed software list. It can also view the list of client(s) using this image.

Image properties		x
Image name: L4630G_Win7		
Image description:		
Image address: D:\Image\L4630\L4630G_Win7.img		
PreCache Setting		
🗆 WINDOWS 📄 Program Files		
□ Soft List(need to select path for the softs)		
Installed software list		
	Add	
	Edit	
	Remove	
Client who is using this image		_
Computer Name   NIC Physical A   Allocated IP   St	art Mode	_
PC001 c031d54ac4cb 10.0.1.181 B	oot from	
OK	Cancel	

### 7.4 Snapshot management

Snapshot management is to perform adding or deleting an image content created. It also features recording of the actions taken on the image. Through snapshot management we can restore an image to any previous state when a snapshot was created. To perform snapshot management requires you to stop EVO CLOUD system service and DHCP service on the "Use system" menu of Quick Start menu. Please refer to Section 4.4 (Quick Start EVO CLOUD management service).

Snapshot Management			
Client Client Port Settings Image	Group User	Solution Task Plan	
			<b>6</b>
Generate snapshot Edit snapshot Delete :	snapshot Mount Image	Stop mounting Image Merg	ge snapshots Cloning snapshot
L4630G_Dos-430G     L4630G_Win7_Software     L4630G_Win7_Software     L4630G_Win7_AP     L4630-Win7_AP_0923     L4630-Win7_AP_0924     L4630-Win7_AP_0924     L4630-Win7_AP_0924-1     L4630_Win7_AP_0924-1     L4630_W	Snapshot name L4630G_Win7 L4630G_Win7_Software L4630_Win7_Root	Image path D.\Image\L4630\L4630G_Win7 in D.\Image\L4630\L4630G_Win7 in D.\Image\L4630\L4630G_Win7 in	Snapshot file name ng ng e2193ba3db8c4bda97ce.ss ng 72c3be4a18a54caea086.ss

#### Generate snapshot

Click "Snapshot management" button on the image management tab of the EVO Cloud server, the screen will show a window, like below. In this window, you can choose a client PC in the client cache file box and enter its name, description and list of applications installed on the snapshot. Click <OK> to generate a new snapshot. The list of snapshot is a tree structure. A newly created snapshot can be added and used via the start menu set, and it can independently boot.

Note: The client should not be in a local cache (or client cache) state, and the services should stop to proceed with generating a snapshot.

Generate snapshot	
Cache file	7
Computer Name NIC Physical Ad Allocated IP Cache Size (MI PC001 C03FD54AC4C6 10.0.1.181 102	
< <u> </u>	
D:%Cache/L4630G_Win7_e8a44f0135f24c3e8af9_c03fd54ac4 Browse(C)	
Snapshot info	-
Access: @ Public Snapshot	
Use for the Client - PC002 -	
Name: L4630_Win7_141121 Batch set up Private Snapshot	
Parent Image name:         I.4630_Win7_1113         Size:         70.21         GE	
Image file: D:\Image\L4630\L4630G_Win7.img	
Description:	
Advanced Properties	1
OK	

#### **Edit snapshot**

Edit information about name of a snapshot, description and list of installed applications.

#### **Delete snapshot**

Delete a snapshot, and it will not appear from the start menu set. Sevices must stop during the process.

#### Mount image and Stop mounting image

Perform process of mounting and dismounting an image. Please refer to this chapter for details.

#### Merge snapshot

Merge child node to its parent node, and the content of sibling node will be lost, so use this function with caution.

#### **Backup snapshot**

Select the snapshot you want to backup, and click "Backup snapshot" to create a new copy of the image file

### 7.5 Delete: Delete image file

Delete an image file from a list or hard disk.



Generally, deleting an image will only remove it from the list, but the actual image remains undeleted in the hard disk, unless you have programmed it in advance to check the "Also delete the image file" check box. In that case, the image file will actually be removed. Deleting an image file will affect schedule function of user program, so use it with caution.

### 7.6 Mount image



After mounting an image as a hard disk in server, you can copy files from the image directly. You should stop EVO Cloud Services when you mount an image. If you have modified a file in the image, all clients will automatically follow the change in the next booting process.

Mounting image has a risky operation, and could damage the image. Please use it with caution.

There are two modes for image mounting: Normal mounting and Read-only mounting. Default mode is read-only. In read-only mode, image content can not be altered. In normal mounting mode, you can alter content of the image. For example, the image might have a file that can be altered to perform slightly different operations, such as DOS partition utility.

## 7.7 Stop mounting image

Click Stop mounting Image to dismount an image.

### 7.8 Backup image

Back up a selected image file to other hard disk or backup the whole image file directory.

Select an image file to be backed up and choose a destination path, then click Beckup Image button to start backup. You can back up with a snapshot. The image backed up will retain the orignal image with the snapshot. Backup the image directory will back up whole image of the directory.

	Image Backup	×
Backup imag	¢	
Source path:	D:\Image\L4630\L4630G_Win7.img	Browse(B)
Target path:	D:1L4630G_Win7.img	Browse(D)
C Backup imag	e directory	
Source path:		Browse(B)
Back up folder	-	Browse(D)
🔽 Backup with	snapshot Backup (O)	Exit

# Chapter 8 Group management tab on EVO CLOUD Server

### 8.1 Group management

Use group management to categorize client, for easy management.

Group Management				
Client Client Port Setting	gs Image Group	User Solution	Task Plan	
Create groups Edit groups Dele	ete groups			
⊡All groups	Computer N / NIC Phy	vsical Ad Allocated IP	Detailed Description	Group
<u>I</u> Class1	PC001 C03FD5	4AC4C6 10.0.1.181		Class2
	PC002 C03FD5	4BF930 10.0.1.180		Class1

### 8.2 Create groups

Click "Create groups" button to add a new group and enter a group name.

	Settings of Group Properties
Name	Class1
	OK Cancel

### 8.3 Client(s) to Join a group

Select one or more clients of client list, right-click them and select "Join a Group" to join a group or drag and drop the clients to a group.

Group Managem <mark>ent</mark>							
Client Client Port Set	ings Imag	je 🗍	Group	User	Ĩ	Solution	Task Plan
Create groups Edit groups C	elete groups						
⊡ 🎝 All groups	Computer	r N 🕗	NIC Phy	sical Ad	Ållo	cated. IP	Detailed Description
Class1	PC001		C03FD5	4AC4C6	10.0	.1.181	
<u></u> Class2	PO	Select	t All Clien	its		.1.180	
		Join a	Group		•	Select a	group to join in
		Exit from the group		Class1			
						Class2	

### 8.4 Edit group

Modify an existing group name.

### 8.5 Delete group

Delete a selected group. Members of the group will show no group.

# Chapter 9 User management tab on EVO CLOUD Server

### 9.1 User management

User Ma	anageme <mark>nt</mark>	t				
Client	Client	Port Settings	Image	e ( 0	Group	User
<b>2</b> +	E⊕	20	20	٩,	0	Ċ.
Add New	Manually Add	Property	Delete	Search	Login S	Setting

### 9.2 Add new user

Process of adding a new user: Enter user ID, name and password, set up booting image name. Then, while the client (LAN boot is required) is logging onto server, enter account name and password to logon.

Add New X
User properties User ID: User01 User name: Cliff Kuo Password: ******* *Password Case Description: A123456 Boot from local Boot from local Boot from net Data Disk(D) (Advanced (U)) Image info Image name: L4630G_Dos-430G Image D:Image/L4630/L4630G_Dos-430G img Recover the OS
 OK Cancel

### 9.3 Manually add

This is used to manually add multiple users in batch based on a naming convention and image configuration.

Manually User No. template Number of Users: Begin with number Number of Begin with letter	Add new users
Preview of User No.: User Number User001 User002 User003 User004 VI005 IIII	Image address: D:\Image\L4630\L4630G_Dos-430G Boot mode © Boot from local © Boot from net Advanced(U) Datadisk(D) © Recover the OS OK Cancel

## 9.4 Property

In this menu, you can modify user ID, user name, password and description.

	User Properties X
User01	User properties User ID: User01 User name: Cliff Kuo Password: ****** *Password Case Description: A123456 Boot mode © Boot from local @ Boot from net Data Disk(D) Advanced(U) Image info Image name: L4630G_Dos-430G
	Image D:\Image\L4630\L4630G_Dos-430G.img
	E Recover the OS
	OK Cancel

### 9.5 Delete

Delete a selected account. After that, you can not use the deleted account to logon.

## 9.6 Login setting

In this menu, if you wish to permit a client to remotely log in, then check "Force login with a user account mode". Then, the user is allowed to use other computer to log in with the user ID and password. Otherwise, the user can only login in normal mode.

Settings of Login Mode
<ul> <li>Force login with a user account mode</li> <li>Allow to log in normally when the user account is empty</li> </ul>
OK Cancel

## Chapter 10 Solution Schedule tab on EVO CLOUD Server

### 10.1 Solution schedule tab

Solution schedule is used to manage configured information of all clients that have logged on to the server. Generate command is to make a new copy of configuration information, such as IP address, image file and a group, of all clients that have logged on to the server for a backup. Modify command is to save a modified client configuration information into an existing solution. Solution schedule manages operations such as adding, modifying, deleting and applications on all solutions.

Solution	n sched	dule						
Client	Clier	t Port	Settings	Image	Group	Us	ser	Solution
Generate	Modify	Delete		Schedule	o the Menu			
Solution Nar	ne	/ De:	scription					
🚍 English								
🚍 Compute:	r							

### 10.2 Generate

Use "Generate" command to save client configuration (snapshot) of all clients that have logged in to the server.

Generating a solution is to add a new solution. Click Generate button, and system will show a "New Solution"

dialog box, as shown below.

	New Solution X
Group:	Global
Name	Test
Description:	
Save	Cancel

You can specify that the solution is a Global solution or Group solution, and then enter solution name and description. Click <Save> to finish the process. At this point, the configuration of all clients that have logged on to the server will be saved in the solution of a directory.

#### Modify 10.3



Modify an existing solution. Select a solution to be modified, and then click Modify, and a popup windows will show as below. Select a solution name and click <Update Solution Info> button to modify the solution.

	Update Solution	x
Solution Overview	Existing Client PC002 PC001  Solution Name of English Description: Save Cancel	
Update Solution Info	Save Activate Exit Go to System activate Win	Winc n in C ndows

Click <Save> button to store altered information into the solution.

#### 10.4 Delete

Select a solution to be deleted, and then click Delete it.

#### 10.5 Apply



Select the solution to be modified, then click Apply. The solution will be applied to all clients that have currently

logged to the server.

### 10.6 Schedule Solution

Schedule solution is a solution plan to automatically switch among solutions. Click Schedule Menu, a popup window "Schedule Solution Settings" will show as below.

		Schedule	Solution Setting	gs		X
Solution Overview	Switch periodi Day 🔲 b	<b>city</b> íon. 🔲 Tus.	🔲 Wed. 🔲 Thur.	🗖 Fri	🗖 Set. 🗖 Sun.	Start Time
English Computer	Start	Group	Period	Time	Solution	Add
Class1 Class2 ⊕- All Schedules		Global	Day	15:21	English	Amend
						Delete
						OK
	<		Ш		>	Exit
	🔲 Start all solut	ion				

To perform automatic switch among solutions, first check the solution to be applied, then check the switch periodicity and start time, then click <Add> to add the solution into the daily schedule (in the example with screen capture above). And then check "Start all solution". At the preset time, solutions time will be switched automatically.

## Chapter 11 Task Plan tab on EVO CLOUD Server

### 11.1 Task plan

A task can be to update Windows system in client PC automatically, or execute a specific job such as shutdown computer at a preset time. Through task plan we can schedule a specific task to be executed at a specific time to a specific client.

Task Plan							
Client	Client	Port Settings	Image	Group	User	Solution	Task Plan
5							
Create Task	Modify task	Delete plan					

### 11.2 Create Task



Use Task Wizard to create a task. Click <sup>Create Task</sup>, Task Wizard menu will pop up as below.



Select server list to be synchronized, and you can select multiple servers to plan a task. Then, click <OK> to create a task.

Selecting "Other" will pop up a menu as shown below; in this menu we can set up task type and the software program to be executed or updated.

Task Wizard
<ul> <li>* Please enter the task name: Shutdown</li> <li>* Task type <ul> <li>Schedule to shutdown client</li> <li>Schedule to wake up client</li> <li>Schedule to execute program</li> <li>Schedule to wake up and execute program</li> </ul> </li> <li>Schedule to execute or update the software, please enter the file path: <ul> <li>Browse(B)</li> </ul> </li> <li>Description: The file path of the executable file is in the image, if the local system has the same file path, you can use the Browse button to select</li> </ul>

Choose a task type, and then click <Next>.

Task Wizard X
Select all of the clients or choose the clients from the left side scheduled task.   All clients   *     *     Client boot mode     *     Client boot mode applies the original client settings     *     *     *     Client boot mode applies the original client settings

In this menu, we can choose all clients to which the task will perform on. Click <Next>.

· · · · · · · · · · · · · · · · · · ·	Task Wizard	×
	<ul> <li>Start Date of Task: 11/21/2014 •</li> <li>End Date of Task: 11/22/2035 •</li> <li>Task running time: 6:00:00 PM ÷</li> <li>Duty cycle: <ul> <li>Everyday</li> <li>Only once 11/21/2014 •</li> </ul> </li> <li>Weekly Sunday •</li> <li>Monthly 1 •</li> <li>After completing the task, it will auto remove from the schedule list</li> <li><a href="mailto:&lt;/a&gt;&lt;/li&gt; &lt;li&gt;&lt;a href=" mailto:eack(b"="">Eack(B) Next(N)&gt; Cancel</a></li> </ul>	(C)

In this menu, we set up start date and end date of the task schedule, execute time and duty cycle. Click <Next> after all entries are set.

In the menu shown below, select a server with specified IP to perform the task.

Task Wizard	×
Please select the server to perform the task     Image:	(C)

# 11.3 Modify task



Use Task Wizard to modify an existing task, select a task to be modified and click Modify task, Task Wizard menu will pop up. Edit the setting you want to modify, then click <OK> to save the change.

### 11.4 Delete task



Select a task to be deleted and click Delete plan to delete it.

## Chapter 12 Other Features on EVO CLOUD Server

### 12.1 Quick backup system



#### Backup System Configuration

You can easily backup your system configuration information data by using the backup function.



#### Import System Configuration

You can quickly recover your system configuration information through import function.



#### Excel Input / Output

It can input and output configuration info from/to Excel file through the function of configuration info input/export.

#### Settings information backup and Export

Configuration information includes all settings for client properties and image file attributes in the EVO CLOUD. If the configuration information is damaged, then all setting value will be lost. It is recommended to back up a copy of configuration information immediately after all settings have been done. Settings can be made via Quick Start menu of EVO Cloud -> Use System and Configure System. Configuration information will be saved in a DAT file in the directory where specified in this menu.

8	Configure Info Backup Path	x
Save in: 🕌 CFG	▼ 🛱 🖆 🔽	
Name 📩	Date modified	Туре
2014-09-17-08-54-43.dat	9/17/2014 7:08 PM	DAT File
🗋 2014-11-13-10-11-45.dat	11/13/2014 10:11 AM	DAT File
2014-11-13-11-32-53.dat	11/13/2014 11:32 AM	DAT File
2014-11-13-11-38-37.dat	11/13/2014 11:38 AM	DAT File
2014-11-20-19-26-44.dat	11/20/2014 7:26 PM	DAT File
<	ш	>
File name: 2014-11-21-15-2	7-22	Save
Save as type: System data file	t.dat)	Cancel

#### Settings Information restoration and import

Restoring a setting will have settings in the DAT file to be imported. EVO CLOUD system and DHCP services must

stop before restoring a setting configuration begins.



#### Setting information to import from and export to Excel file

You can export setting configuration information to a Microsoft Office Excel spread sheet file (.XLS) for review or import later.

[	ГВ Е	xcel Export an	d import	x
	Tips: Import only when i address, the assigns	the computer name, d IP is valid and the	network card phys order can not be c	ical hanged.
ß	Sele	ect the EXCEL s	ave path	×
Save in	n: Documents		▼ ← 🗈	<b>r</b> 🗐
Name		•	D	ate modified
<	ш			>
File nam	ie: 2014-11-21-1	5-29-15		Save
Save as	type: The Excel file	e (*xls)	•	Cancel
	Import	xport Clear		Quit

## 12.2 Other options

=	Default Client Options
	The system can set up temporary file
	folder and boot menu of client.
	Click Client Info Settings
•	Set up Server Password
	Set up system password and service regulation
	Click Start Setting Password
	Server Advanced Options
	Set advance server performance and distribution options. Recommend to use default values
To us	se Server Cluster helps to improve system ormance
-	Managa Sanyar Cluster
	manage server cluster
	Server Cluster Description

### **Default Client Options**

Default Client Options X	Default Client Options	
Set Client Boot mode	Set Client Boot mode	
All images ■ Boot from local ■ L4630G_Dos-430G ■ Windows7 ■ L4630G_Win7 ■ L4630G_Win7_Softwars ⊕ To L4630G_Win7_Softwars ⊕ To L4630G_Win7_Root ↓ To L4630 Win7_Root ↓ To L4630 Win7_Root	Server's cache path:       D:Cache\       Browse(B)         System disk default setting       Cache location:       Server       C Client       Second primary partition         Cache location:       Image: Server       C Client       Second primary partition       Image: Server         Client cache       O fft-line cache       Use up to       Image: Server       Times         Data disk default setting       Cache location:       Image: Server       C Client       First primary partition       Image: Server	
Boot from net     Boot pwd:     Boot pwd:     Create image     Boot pwd Setting     Boot pwd Setting	Client default settings         Default Name:       PC       Beginning No.:       0       Display client HDD first partition at:         Image: Third of the set of the	
<back(b) next(n)=""> Cancel(C)</back(b)>	<back(b) next(n)=""> Cancel(C)</back(b)>	

Settings like default client cache directory, start menu set, the client naming, whether to hide the client's local hard drive, etc. are described in Default client options of Section 5.4 (Optimize standard PC operating system and upload image file).

#### Set up Server Password

This sets password of the EVO Cloud management. If there is no password, it will not let you use the EVO CLOUD management. The default setting has no password. Please refer to Section 4.3 (Quick setting for EVO CLOUD system).

	Change Password
00	
Old password.(O):	☐ Change password
New password(N):	
Confirm password (C):	
🔽 Pass	word authentication will not be used.
	OK Cancel

#### **Server Advanced Options**

Server Advanced Options setting includes performance setting, distribution setting, start menu set setting, and remote maintenance setting, through these settings the server can be made to perform much better.

Server Advanced Options						
Performance settings						
Use reliable connectivity						
Note: Applying a reliable connection in poor quality of the network can improve reliability while transmitting. If it is not applied, the image startup accelerates.						
Remote maintenance settings	5					
E Require for the agreement of the receiver before "Remote Maintenance"						
Note: After selecting this function, administrator needs to acquire the agreement of the receiver before using "Remote Maintenance" function.						
ARP request settings-	_					
Send ARP request to the gateway						
Note: Digital China and other switches send ARP request to the gateway across the network segment, so this options need to be selected or the Client cannot normally start.						
_ Chaose exectormous file list						
C:\Program Files (x86)\TeamSoftEx/EVO Cloud 3.0\Sen Browse(R) Check						
File Synchronization						
Note:After check synchronized files, the client automatically sync file of the list after power on computer.						
Offline Settings-	_					
Seeds speed settings: © Open-speed C Speed limit 60 🚽 Mbps						
The maximum number of services provided seed: 2						
Other settings						
🔽 Soft PreCache 🦳 Boot Speedup 🦳 Combination of the computer name						
Menu function key encryption     Pwd:						
OK Cancel						

## 12.3 Registration for EVO CLOUD client

After installing EVO CLOUD management product, you should make a registration at once. Process of registration is as follows:

- 1. Insert USB KEY into an EVO CLOUD Server's USB port.
- 2. To activate EVO CLOUD Server, Click EVO CLOUD Register in Start menu.

Apps by nam	ne 🗸
Security Configuration Wizard	Windows PowerShell ISE (x86)
Server Manager	EVO Cloud 3.0
🥵 Services	EVO Cloud Management
System Configuration	EVO Cloud Register
System Information	EVO Cloud Web Manager

3. In EVO CLOUD Register, click <Register> button.

<b>2</b> 2	Register	X		
Team BoltEx, Inc.	Educational Edition	Con I		
Licenses Number: Authorized to: Version Date:	200 limited user (180 days 13 hours 10 min 911872838 2014-08-13	utes)		
verabit Dais.	2014-00-15		Registry	×
Authorized warning: This program is being protected by the copyright and international treaties. Unauthorized reproduction and distribution will result in severe civil and criminal sanctions, and will be prosecuted by law to the maximum extent		Register(R)	Please enter the serial number of this product. The serial number is composed of five sections, each section has five characters. Hyphens should be omitted.	OK Cancel
as mounterin.		OK(0)		

- 4. Enter serial number of the product, then click <OK>.
- 5. Restart "EVO CLOUD Register" in Start menu to confirm the registration is completed correctly.
- 6. If product serial number is lost, show the serial number to dealer to obtain a serial number.



#### Note:

- This manual has been checked and proofread thoughtfully. If there is a difference between description of the manual and product description. Please follow the actual description of the product.
- The USB KEY is the only verification tool for genuine software. Keep it properly.
- Shut down the power of a server PC before inserting or removing the USB KEY.