

User Manual

Version 1.0.0 October 2017

iDaSer-9000

(Data Management Server)





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Important Information

Warranty

All products manufactured by ICP DAS are under warranty regarding defective materials for a period of one year, beginning from the date of delivery to the original purchaser.

Warning

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1. Introduction



The iDaSer-9000 provides Remote Data Management Services and Data Synchronous Storage Services. By the intuitive web management interface, admin can authorize users to configure server, to monitor hardware status, to control authority groups, to maintain and store data. The FTP Service with SSL and RAID1 Service of iDaSer-9000 ensure the data safety and stable.

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The iDaSer-9000 provides two network cards to monitor and control the internal and external network. This feature ensures the data can be transmitted safely. In the trend of Industry 4.0, the applications of accessing data in filed are more important. With the iDaSer-9000, users can build a reliable industry data management server.

The iDaSer-9000 module is a data manager server which includes six LED indicators. One of the LED is used to show the status of the PWR, the other one shows the status of system and the others display the status of disk .The iDaSer-9000 also has two RJ-45 standard communication interfaces to perform Ethernet transmission. Owing to its features, more various applications can be supported. The iDaSer-9000 module is constructed with a metal-housing that provides a fully ventilated design, meaning that there is no problem with heat radiation.

More details related to applications that can be implemented using the iDaSer-9000 module will be illustrated in sections 3.

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1.1 Features

■ Hardware

- Supports input voltage 12~48Vpc.
- Supports connecting with two network cards.
- Includes four USB Hosts.
- Contains six LED indicators, one as a power indicator ,an activity indicator and the others for monitoring hard disk drivers activity.
- Contains LED indicator on RJ-45 for Ethernet status.
- With a metal-housing that provides a fully ventilated design, meaning that there are no problems with heat radiation

Software

- ◆ Provides support for the SSH, FTP, NFS, SMB/CIFS.
- Provides support for the SNMP(Read-only) and SYSlog.
- Provides support for the RAID 1.
- Provides support EXT4 files system
- Provides support for the Schedule Jobs function.
- Provides support for Multi-language.
- Provides support for Rsync.
- Provides support for MySQL.
- Provides support for manager to configure users, authority and group.
- Provides support for Access Control List (ACL)
- Provides support for web configuration functions.

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1.2 Specification

Module	iDaser-9000			
System				
OS	Debian			
Version	4.7.2-5			
CPU Module				
CPU	RDC3600(1.0GHz)			
RAM	DDR III 1600/2GB			
RTC(Real Time Clock)	Provide date, day of week , second ,minute ,hour ,year			
EEPROM	16KB			
Switch	Power x1, Reset x1			
System Buzzer	Buzzer x 1			
VGA & Communication	Ports			
VGA	VGA 1920 x 1449 @ 60hz			
Ethernet Port	RJ-45x 1 1000 Base-TX x1 , RJ-45 x1 10/100 Base-TX x 1			
USB2.0	USB 2.0 HS/500 mA x4			
SATA HDD Slot				
Slot	USB to SATA HDD x2			
LED Indicators				
Round LED	PWR Active HDD1 Err HDD2 Err Access x2			
Storage				
HDD	2.5" SATA 500G x 2			
Power				
Input Range	12V ~ 48VDC			
Consumption	12W			
Mechanical				
Dimensions	133.0 mm x 208.0 mm x 164.0 mm (W x L x H)			
Environment				
Operating Temperature	-20°C ~ +50°C			
Ambient Relative Humidity	10% ~ 90% RH(non-condensing)			

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2. Getting Started

Appearance



NO.	Name	Description	
1	PWR	Turn ON /OFF	
2 Reset Keep pressing for 3 seconds, and the network setting be reset as default.(Reboot after this action)			
3	UART	The interfaces of RS-232and RS-485.(Reserved)	
4	4 USB On purpose to connect USB or keyboard.		
5	Ethernet	Two network cards for internal and external network.	
6	VGA	Connection to monitor.	
7	LED	Display the status of devices.	

Wire connections and pin assignments



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2.1 LED Indicator

The iDaSer-9000 module provides six LED indicators. The Following is an overview of the purpose and function of each LED indicator together with a description.



NO.	LED name.	LED state	LED Description				
Α	PWR (G)	ON	The power of the module is ON.				
D	Active (C)	Flashing	The system is working.				
В	Active (G)	OFF	The system is OFF.				
		ON	HDD1 error.				
C		OFF	HDD1 is normal.				
D		ON	HDD2 error.				
U		OFF	HDD2 is normal.				
E		ON	HDD1 is active.				
	Access (G)	OFF	HDD1 disconnected.				
-		ON	HDD2 is active.				
F	Access (G)	OFF	HDD2 disconnected.				

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2.2 Ethernet and USB Host

Ethernet

The iDaSer-9000 module provides LED indicator to show the status of Ethernet.



編號	LED name	LED status	LED Description		
	10/100M	ON	Normal operation.		
G		OFF	Ethernet lost connection.		
	Link/Act	Flashing	System is handling data.		
	ChE	ON	Normal operation.		
Н	GDE	OFF	Ethernet lost connection.		
	Link/Act Flashing		System is handling data.		

USB HOST

The iDaSer-9000 module provides four USB Host ,

No.	USB HOST	Description			
I~L	USB port	Providing for keyboard or flash drives(*PS) 。			

***PS.** The flash drive will be used for backup of network setting.(**Appendix B**)

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3. Web Configuration

The configuration for the module parameters on the iDaSer-9000 module can be performed via a standard web browser using the embedded web configuration function.

Using the Ethernet 1 (default ip:10.0.8.1) Username:admin,Password:icpdas888

■ The browsers are supported, including IE 11, Chrome, Opera, Firefox(recommended).

<	>	С	88	90	10.0.8.	1				\odot	⊻
									_		
						Login	The starts				
						Language	English	×			
						Desword	aumin				
						Passworu	Login				
							Login		_		
										CP	
										DA	9

The web configuration functions are divided into several categories and include System, Storage, Access Right Management, Services, Diagnostics and Information. The following is an overview of the process used to configure the iDaSer-9000 module via the web.

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3.1 System

3.1.1 General Setting

[Web Administration]

Set the session timeout and secure connection here.



[Web Administrator Password]

Set the password of manager here.(Default username: admin; password : icpdas888)

90	☆ System Settings
• System	Web Administration Web Administrator Password
O Date & Time	✓ Save 2 Reset
 Network Notification Power Management Monitoring Certificates Scheduled Jobs Storage Access Rights Management Services Diagnostics Information 	Administrator password Password Confirm password

3.1.2 Data & Time

Display time and set the clock by NTP or manual.

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44	☆ System	⊙ Date & Time
System	✓ Save 2 R	teset
O Date & Time	Current time	Mon Sep 18 16:49:03 2017
Notification Power Management ✓ Monitoring	Settings Time zone	Asia/Taipei
© Certificates	Use NTP server	
> Storage	Time servers	pool.ntp.org
Access Rights Management Services	Manual	Date 09/18/2017
> Diagnostics		Time 16 * : 49 * : 3 *
> 📷 Information		Update now

3.1.3 Network

[General]

Set the hostname, and domain name.

46	☆ System 1	T Network			≣ •
- System	General In	terfaces	Service Discoverv	Firewall	
⊘Date & Time	✓Save 2 R	eset			
Notification	General settin Hostname	qs iDaSer-90 The hostna	00 ame is a label that ident	ifies the system to	the network.
 Monitoring Certificates Scheduled Jobs Storage Access Rights Management Services Diagnostics Information 	Domain name	local			

[Interfaces]

Set the interface (e.g. modify eth0)

Double click eth0 or choice etth0 and click [Edit]

- System	General Interfaces Service Discoverv Firewall								
O Date & Time	+ Add - ZEdit Q Identify X Delete								
* Network	Name		Method	Address	Netmask	Gatewav			
Notification	eth0		IPv4: Static IPv6: Disabled	IBv4: 192.168.255.1	IBv4: 255.255.0.0	IPv4: 172.18.0.254			
Continuing Certificates Scheduled Jobs Storage Access Rights Management Services Diagnostics Information	eth1		IBv6: Bisabled	IBv6: 10.0.8.1	IPv4: 255.255.0.0	IBv4: 10.0.8.254			

.Modify the netmask as 255.240.0.0 and click [save]

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Edit ethernet	connection	×
General settir Name	eth0	٦Â
Comment		
- IPv4		
Method	Static	Ξ
Address	192.168.255.1	
Netmask	255.240.0.0	
Gateway	192.168.0.254	
- IPv6-		
Method	Disabled 👻	
Address		
Prefix length	64	
Gateway		
Advanced ant	tioar	-
Sa	ve Reset Cancel	

Click [Apply] .

🟠 System 🛧 Netv	vork					Ξ.
▲ The configuration	has been changed. Yo	ou must apply the chang	es in order for them to	take effect. 🖌 🖌 App	ly DI	Revert
General Interfac	es Service Disco	verv Firewall			_	
+Add · ☑ Edit ♀	Identify 🗙 Delete					
Name -	Method	Address	Netmask	Gateway	M	W
eth0	IPv4: Static IPv6: Disabled	IPv4: 192.168.255.1	IBv4: 255.240.0.0 IBv6: 64	IPv4: 192.168.0.254	n/a	No
eth1	IPv4: Static IPv6: Disabled	IBv4: 10.0.8.1	IPv4: 255.255.0.0 IPv6: 64	IPv4: 10.0.8.254	n/a	No

Click [Yes]



[Service Discovery]

Enable / Disable the services

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~	🚹 System 🚠 Network			
- System	General Interfaces	Service Discoverv	Firew	all
⊘Date & Time	✓ Save 📿 Refresh			
Network	Service		-	Name
Notification	FTP			%h - FTP
Power Management	NFS			%h - NFS
,≪ Monitoring	Rsync			%h - Rsync
© Certificates	SMB/CIFS			%h - SMB/CIFS
Storage	SSH			%h - SSH
Δccess Rights Management	 TFTP 			%h - TFTP
> Services	Web administration			%h - Web administration
Diagnostics				
> 🖬 Information				

[Firewall]

Add new rule if it's needed.



Add new rule, it needs to set the direction as "INPUT" or "OUTPUT", and set the action (ACCEPT/REJECT/DROP/LOG/Nothing).

Add firewall	rule	×
Family	IPv4	^
Direction	INPUT ~	
Action	REJECT	
	ACCEPT	
Source	REJECT	Ξ
	DROP	
	LOG	
Source port	Nothing	
	Match if the source port is one of the given ports. E.g. 21 or !443 or 1024-65535.	
Destination		
	Destination address can be either a network IP address (with /mask), a IP range or a plain IP address. A '! argument before the address specification inverts the sense of the address.	
Destination		
	Save Reset Cancel	

3.1.4 Notification

[Settings]

Configure SMTP setting and Recipient setting.

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•	🟠 System 🖾 Notification
✓ System General Settings Date & Time	Settings Notifications
Thetwork	General settings Enable
	SMTP settings SMTP server 25 Outgoing SMTP mail server address, e.g. smtp.mycorp.com.
> Storage	SMTP port 465 The default SMTP mail server port, e.g. 25 or 587.
> Services > Diagnostics	Use SSL/TLS secure connection
> Information	Sender email zxc26900@gmail.com
	Authentication
	Username
	Password

[Notification]

Enable the items needed.

 System General Settings Date & Time Network Notification Power Management Monitoring Certificates Scheduled Jobs 	Settings Notifications Save Refresh Notification Storage Filesystems S.M.A.R.T. Software RAID
Storage	■ System
Access Rights Managemen Services	CPU usage
> Diagnostics	Load average
> 🛅 Information	Memory usage
	Process monitoring
	Software updates

3.1.5 Power Management

[Setting]

Set the action of PWR : Nothing / Shutdown / Standby.

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~	🔂 System 🖸 Power Management
 System General Settings Date & Time 	Settings Scheduled Jobs ✓ Save C Reset
Obte & Time Network Notification Power Management Ocrtificates Ocrtificates Ocrtificates Scheduled Jobs Storage Physical Disks S.M.A.R.T. RAID Management File Systems Access Rights Management Services Diagnostics Information	General settings Monitoring Specifies whether to monitor the system status and select the more Power button Nothing The action to be done when pressing the power button.

[Scheduled Jobs]

Click [+Add]

46	🚹 System 🖸 Power Man	nagement
 System General Settings Date & Time 	Settinas Scheduled Jo	obs
Network Notification Power Management Monitoring Certificates Scheduled Jobs	Enabl * Type Sch	chedulina Comment
 ✓ Storage ○ Physical Disks ○ S.M.A.R.T. ○ RAID Management ○ File Systems 	•	
 Access Rights Management Services Diagnostics Information 		

Set the power action in regular cycle.

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Add schedule	ed job		×
Enable			*
Туре	Reboot	~	
Time of execution	Exactly	*	
Minute	47 Every N minute		ш
Hour	17 Y Every N hou	ır	
Day of month	Every N day of month	,	
Month	*	~	_
Dav of week	*	v	Ŧ
Sa	ave Reset Cancel		

3.1.6 Monitoring

Enable/ Disable, system performance statistics are collected periodically.



3.1.7 Certificates [SSH]

Add SSH certificates if it's necessary.

Eg. [+Add] -> [Creat]

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~	
 System General Settings 	SSH SSL
O Date & Time	+ Add - ZEdit X Delete
Network	Comment 🔺
Notification	
-∞ Monitoring	
♀ Certificates	
Scheduled Jobs	
Storage Socare Pichte Managemen	
Services	
> Diagnostics	
> 📷 Information	

Configure the name , and click [save]

Create SSH certificate		×
Comment	SSH	
	Save Cancel	

Edit SSH



View the content of SSH.

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tificate
MITEPAIBAAKCAQEA0qvWbNSxj3xMYcUvvEUzi10Fie4BixDt9G1v19mzf9 10Hks1 a2LargsVXxIjQPK+q0J9USTJCUkE/KC99mGQZCgC4T52v8yUghdNIJhTHv o00bhm CuvzX23rnT+VqYbDaCz+SV7WWt7HNG1kuQufeKLaws/PtKdfL3MBgOP9Ck U0YTk9 oox7h/11MI2m96A0vCq7SwIpqdNTFaYRhXMRvmU77A+CMnFGM0Ck5MG7b3 Ouz/d9 uZ8WN34wONuqRTzk2/ieDGUxYsuv2N+gpRZVMLRLgFnNhp4/wc5pD8aJwP ctL0NB wzikjuWsR7nM89bzV1hd1KG+AY21+7Cdpwh+QQIDAQABAoIBABHKDNs3wp 6ZImIH IpbFSSr0rIwPGvZBQbaoHw+dBH1Bmu8j7U76E/kqWm2ivHNZjBwuCyL09j zge51R gXjymBy8/DFE8wYTI18x1INyGWK+QgOLjKJTdkOSppiqq9qa1J1RY0+SwI r/0NZu J+EwSBEJv2s/3QwmLfV1wqS9m7poI1zjrRBDgtYP9ByzH7r0h1inFWyk0S aERSvE
The private RSA kev in X.509 PEM format. ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDSq9Zs1LGPfExhxS+8RTO The RSA public key in OpenSSH format.
SSH

Click [Apply]

~		
 System General Settings Date & Time Network Notification Power Management Monitoring Certificates Scheduled Jobs Storage Access Rights Management Services Diagnostics Information 	Apply D Reven System A Certificates The configuration has been changed. You must apply the changes in order Apply D Reven SSH SSL Add Edit X Delete Comment ▲ SSH	
Click [Yes]		
	Confirmation Do you really want to apply the configuration changes?	

No

Yes

[SSL]

Add SSL certificates if it's necessary.

	☆ Sy <u>stem </u> Q Certificates
 System General Settings Date & Time Network Notification Power Management Monitoring Certificates Scheduled Jobs Storage Physical Disks S.M.A.R.T. RAID Management File Systems 	
 File Systems Access Rights Management Services Diagnostics Information 	

Create or import SSL certificates.

Key size:512b / 1024b / 2048b /4096b

Period of validity: 1 day ~ 25 years

Create self-si	gned SSL certificate		Import SSL c	ertificate	×
Key size	4096b You have a second		Private key		
Period of validity	1 year The number of days the certificate is valid for.				
Common Name	10.0.8.1				
Organization Name			Certificate	Daska an ani inka DCA luni in 11 700 DCAL Éannah hana	٦
Organizational Unit					
City		Ш			
State/Province		Ш			
Country	Select a country 👻				
Email			Comment	Paste a RSA certificate in X.509 PEM format here.	ī
	Save Cancel			Save Reset Cancel	

3.1.8 Scheduled Jobs

[Scheduled Job]

User can modify regular command in scheduled job (Manager only).

Click [+Add]

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(4)	☆ System 🕅 Sch	eduled Jobs		
~ 🚍 System	🕂 Add 📝 Edit 🕨 F	Run 🗙 Delete		
General Settings O Date & Time Network Notification Power Management Monitoring O Certificates O Scheduled Jobs Storage Physical Disks S.M.A.R.T. RAID Management File Systems Access Rights Management Services Ser	Enabl Schedulin	a User	Command	Comme
 RALD Management File Systems Access Rights Management Services Diagnostics Information 				

Setting

Time of execution :Certain data/ Hourly / Daily /Weekly /Monthly / Yearly / At reboot User Authority: root , admin and bin ...etc.

Command setting.

Add schedule	ed job	×
Enable		
Time of execution	Certain date	۷
Minute	12 Every N minute	
Hour	18 Y Every N hou	r
Day of month	* Every N day of month	
Month	*	~
Day of week	*	~
User	root	~
Command		
Send email	Send command output via ema An email, message, with, the comman	il d
Comment		
Sa	ave Reset Cancel	

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3.2 Storage

3.2.1 Physical Disks

Overview the status of physical disks.

66	☆ Storage							
> System	🗹 Edit 🕭 W	ipe Q Scan						
Storage	Device -	Model	Serial Num	Vendor	Capacity			
- Physical Disks	/dev/sda	SD04G D0	000100000	ATA	3.71 GiB			
SRAID Management	/dev/sdb	30-2E717D	WDE1RZ69	ST500LM0	465.76 GiB			
File Systems	/dev/sdc	30-2E717D	WDE23793	ST500LM0	465.76 GiB			
> TACCESS Rights Management								
Services								
Diagnostics								
Information								
 > Services > Diagnostics > Information 								

3.2.2 S.M.A.R.T.

[Settings]

General setting for S.M.A.R.T. setting , such as enable the service , setting the check interval and power mode.

Temperature monitoring for setting the value that will be recorded in report at special conditions.



[Devices]

Enable to monitor the disks ; check the status of them.

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~	1 Stora	qe 🗠 S.M.A.	R.T.							
> System	Settinas	Settings Devices Scheduled tests								
~ 🖀 Storage	Di cala di	Information								
Physical Disks	ECIL	Information								
	Monitor	Device *	Model	Vendor	Serial Num	Capacity	Temperature	Status		
RAID Management		/dev/sda	SD04G D0	ATA	000100000	3.71 GiB	n/a	۲		
File Systems		/dev/sdb	30-2E717D	ST500LM0	WDE1RZ69	465.76 GiB	42°C	۲		
Access Rights Management		/dev/sdc	30-2E717D	ST500LM0	WDE23793	465.76 GiB	46°C	۲		
> Services										
Diagnostics										
> Information										

[Scheduled tests]

Scheduled tests for disks . (S.M.A.R.T. needs to be enabled)



[Add scheduled test]

Configure Device, Type and timing.

Add scheduled	d test	×
Enable		
Device	Select a device S.M.A.R.T. monitoring must be activat for the selected device.	ed
Туре	Short self-test	*
Hour	15	*
Day of month	*	*
Month	*	*
Day of week	8	۷
Comment		
S	ave Reset Cancel	

3.2.3 RAID Management

The device md0 is combined with two physical disks.

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44	☆ Storage	RAID Man	agement						
> System	🔀 Grow — Remove 💼 Recover 🔚 Detail 🗙 Delete								
Storage Disks	Name	Device *	State	Level	Capacity	Devices			
A S.M.A.R.T. RAID Management	iDaSer-900	/dev/md0	clean	Mirror	465.64 GiB	/dev/sdb1 /dev/sdc1			
Access Rights Management									
Services									
Diagnostics									
Information									

3.2.4 File Systems

View the file systems immediately.

If you want to add a new shared folder, it's necessary to mount "/dev/md0":

- 1. Click Device block of "/dev/md0".
- 2. Click Mount.
- 3. It is ready to add a new shared folder.

«	☆ Storage	🟠 Storage 🗰 File Systems					
> System	+Create 💱	Resize & Quo	ta 📔 🕨 Mount 🛛 📥 U	Inmount 🗙 De	elete		
Physical Disks	Device	Label	File system *	Total	Available		
S.M.A.R.T.	/dev/md0		ext4	458.33 GiB	458.13 GiB		
RAID Management	/dev/sda1		ext4	3.35 GiB	2.22 GiB		
File Systems							
Access Rights Management							
> Services							
Diagnostics							
> 🛅 Information							

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3.3 Access Rights Management

3.3.1 User

[User] -> [+Add] -> [Add] / [Import]



-> [Add user]

-> [General] : Configure user's name , email, confirm password...etc.

Add user			×
General	Groups Public kevs		
Name			*
Comment			
Email			
Password		۲	Ε
Confirm password		۲	
Shell	/bin/dash	*	
Modify accou	nt 🔵 Disallow the user to modify his		Ŧ
[Save Reset Cancel		

-> [Group]: Set the group of the new user.

Add user	×
General Groups Public kevs	
Name Name	
System accounts	*
🔳 adm	8
audio	
🔲 avahi	
backup	
🔲 bin	
cdrom	
🖂 crontab	-
*	- F
Save Reset	Cancel

-> [Public keys]: Add public key (RFC 4716 SSH Public Key Format) if it's necessary.

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Add user	\mathbb{X}
General Groups Public kevs	
+Add × Delete	
Public kev	
Save Reset Cancel	

3.3.2 Group [+Add] -> [Add] / [Import]



[Add group] -> [General] Configure the name of the new group.

General	Members	
Name		
Comment		
	Sava Rosat Ca	acal

-> [Member] Configure the authority of the new group.

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Add group	×
General Members	
Name Name	*
■ User accounts	*
🔲 icpdas	=
System accounts	_
admin	
🔳 avahi	
backup	
🔲 bin	-
۹	P
Save Reset Cancel	

3.3.3 Share Folders

(+Add) -> (Add shared folder)

Need to mount "/dev/md0". (Ref 3.2.4)



[Add shared folder] Setting the name of the new shared folder, volume, path and permissions.

Add shared for	older	Add shared f	older
Name		Name	test
Volume	Select a volume 👻	Volume	/dev/md0 (458.13 GiB available)
Path	/dev/md0 (458.13 GiB available)	Path	test/
	The path of the folder to share. The specified folder will be created if it does not already exist.		The path of the folder to share. The specified folder will be created if it does not already exist.
Permissions	Administrator: read/write, Users: read/write, Others: The file mode of the shared folder path.	Permissions	Administrator: read/write, Users: read/write, Others: The file mode of the shared folder path.
Comment		Comment	
	Save Reset Cancel		Save Reset Cancel

[ACL] Configure the permissions of the shared folder.

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44	∆ Acc	ess R	iqhts Manaqe	ment < Si	hared Folders		
> System	+ Add 🗹 Edit < Privileges 🗡 ACL 🗙 Delete						
Storage Storage Access Rights Management	Name		Volume	Path	Comment	Referenced	
L User	test		/dev/md0	test/		No	
L, Group							
Shared Folders							
Services							
Diagnostics							
Information							

Modify the ACL

	Tvpe	Name accounts icpdas em accounts adm admin audio		*	Read/	Read-o	No acc	Ē
ļ	User	accounts icpdas em accounts adm admin audio						Ē
	L ⊮ Syste L L	icpdas em accounts adm admin audio						
	Syste	em accounts adm admin audio						
	1	adm admin audio						
	1	admin audio						
	11	audio						
	1	avahi						•
	<			_				
								ä
root Permissions of owner.			*	Read	/Write/Exe	cute		Y
vers Read/Write/Execute					~			
l/Execute issions of c	others (e	.g. anonymou	s FTP	o users	\$).			~
Replace al	l existing	g permissions						
Apply pern	missions	to files and su	ubfold	lers				
	issions of o s issions of o d/Execute issions of o Replace al Apply perr	issions of owner. s issions of group. d/Execute issions of others (e Replace all existin Apply permissions	issions of owner. s issions of group. d/Execute issions of others (e.g. anonymou Replace all existing permissions Apply permissions to files and su Apply	sisions of owner. sisions of group. d/Execute Replace all existing permissions Apply permissions to files and subfold Apply Clos	Reac issions of owner. s Reac issions of oroup. d/Execute Replace all existing permissions Apply permissions to files and subfolders Apply Close	Read/Write/Exe issions of owner. sissions of group. d/Execute issions of others (e.g. anonymous FTP users). Replace all existing permissions Apply permissions to files and subfolders Apply Close	Read/Write/Execute Read/Write/Execute sisions of group. d/Execute d/Execute Apply ermissions Apply Close Close	Read/Write/Execute issions of owner. s sof group. d/Execute d/Execute d/Execute Read/Write/Execute S Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute S Read/Write/Execute Read/Write/Execute S Read/Write/Execute Read/Write/Execute Read/Write/Execute S Read/Write/Execute Comparison Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute S Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute S Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute S Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/Write/Execute Read/W

[Privileges] Configure the permissions of the shared folder.

> System	+Add 🗹 Edit < Privileges 🗡 ACL 🗙 Delete						
 Access Rights Management 	Name ^	Volume	Path	Comment	Referenced		
Shared Folders	test	/dev/md0	test/		NO		
Services Diagnostics Information							

Choice the account of shared folder.



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3.4 Services

3.4.1 FTP

[Setting]

Set FTP connection. (Default port : 21)

	☆ Services	🛱 FTP
> System	Settinas S	SL/TLS Ban list Shares
Access Rights Management	✓ Save 2	Reset
~ 🖀 Services	- General settin	gs
₽ FTP	Enable	
Pa Rsync	Port	21
SMB/CIFS	Max. clients	5 Maximum number of simultaneous clients.
SSH TFTP	Max. connections per host	5 Maximum number of connections per IP (0 = unlimited).
 Diagnostics Information 	Max. login attempts	1 Maximum number of allowed password attempts before disconnection.
	Timeout	1200 Maximum idle time in seconds. Setting idle timeout to 0 disables the idle timer completely (clients can stay connected for ever, without sending data).
	Anonymous FTP	Enable anonymous FTP
	Welcome message	The welcome message which will be displayed to the user when they initially login.

[SSL/TLS]

Enable SSL/TLS connection and certificate.

uired.

【Ban list】

Configure the rule for event.

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•	☆ Services ♥ FTP
> System	Settinos SSL/TLS Ban list Shares
Storage Access Rights Management	+Add Z Edit X Delete
 Services 	Event
CO FTP	
Rise Review	
SMB/CIFS	
SNMP	
TFTP	
> Diagnostics	
> 📷 Information	

[Add rule] Configure Event ,Occurrence,Time interval and Expire

Add rule		×				
Event	MaxConnectionsPerHost This rule is triggered whenever the selected event directive occurs.					
Occurrence	2 This parameter says that if N occurrences of the event happen within the given time interval, then a ban is automatically added.					
Time interval	00:30:00 Specifies the time interval in hh:mm:ss in which the given number of occurrences must happen to add the ban.					
Expire	00:10:00 Specifies the time in hh:mm:ss after which the ban expires.					
9	Save Reset Cance	el 🛛				

[Shares]

Click [+Add]



Set the shared folder for FTP service . (It's necessary to add a new shared folder)

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Add share		18
Shared folder	Select a shared folder	×+,0
	test [on /dev/md0, test/]	
Extra options		
	Please check the manual page details.	e for more

3.4.2 MySQL

[Setting]

- 1. Enable General settings : [Enable] and [Enable networking]
- 2. Set the Bind address as 0.0.0.0 (default 127.0.0.1 as local)
- 3. Enable SQL management site

☆ Services	MySQL	•
Save	C Reset 🛛 🗐 Show 🔧 Reset Password 🔧 Backup 🔧 Scheduled backup 🔧 Restore	е
- General sett	ings	
Enable		
Enable networking		
Port	3306	
	Port to listen on.	
Bind address	0.0.0.0	
	IP address to listen on. Use 0.0.0.0 for all host IPs.	
Disable AIO		
	Check this box if database is stored on ZFS filesystem.	
Extra option		
1	Extra options for [mysqid] section of MySQL configuration.	
- SQL manage	ement site	
Enable	SQL management site.	

[Apply] Click [Save], [Apply] and [Yes]

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☆ Services 😂 MySQL	
A The configuration has been changed. You must apply the changes in order for them to take offect.	🖱 Revert
🖌 Save 🛛 💭 Reset 📄 Show 🔧 Reset Password 🌂 Backup 🔧 Scheduled backup 🔧 Restore	
General settings Enable	
Enable networking	
Port 3306	~
Bind ad Confirmation	
Disable	
Extra o	
Extra options for [mysqld] section of MySQL configuration.	
SQL management site Enable SQL management site.	

[Reset Password] Click [Reset Password] to configure the password of root on the MySQL

Services	MySQL	= -
Save 📿 🛛	Reset 🗐 Show 🔧 Reset Password 🔧 Backup 🔧 Scheduled backup 🔧 Restore	
General settings	;;;;;;;	
Enable networking		
Port	3306 Port to listen on.	~
Bind address	0.0.0.0 IP address to listen on. Use 0.0.0.0 for all host IPs.	
Disable AIO	Check this box if database is stored on ZFS filesystem.	
Extra options		
	Extra options for [mysqld] section of MySQL configuration.	
SQL managemen	nt site SQL management site.	

Enter the password of the root on the MySQL that you want (ex. 1234), then click [Save]

Reset MySQL root password.		×
Password	1234	۲
	Save Cancel	

Click [Show] to enter the site of the MyWebSQL

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	MySQL	
✓ Save 2	Reset 🗐 Show 🔧 Reset Password 🔧 Backup 🔧 Scheduled backup 🔧 Restore	
– General setting Enable	s	
Enable networking		
Port	3306 Port to listen on.	*
Bind address	0.0.0.0 IP address to listen on. Use 0.0.0.0 for all host IPs.	
Disable AIO	Check this box if database is stored on ZFS filesystem.	
Extra options		
	Extra options for [mysqld] section of MySQL configuration.	
– SQL managem Enable	ent site SQL management site.	

On the site of the MyWebSQL , type the account and the password (root, 1234) and login

User ID:	root
Password:	••••
Server:	Localhost MySQL
Language:	English 🔻
	Login

The managers can add/remove/configure the privileges to the users by [Tools] -> [User Manager]

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User Manager	- x
User Information Global Privil	leges Database Privileges
User Name:	
Host:	
Password:	
Confirm Password:	
Remove Password	
	Add User Cancel

The Managers can create database by [Database] and execute SQL scripts on the website

	Create Database ×	
	Database name:	
	Cancel Create Database	
•		
SQL Editor SQL Editor 2	SQL Editor 3	► Query ► Query All
1 2 3 4		

3.4.3 NFS

[Settings]

Enable the NFS service and set the numbers of servers.

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66	
> System	Settinos Shares
 Access Rights Management 	Save 2 Reset
~ Escrices	General settings
I NES	Enable
Pa Rsync	Number of 8 servers Specifies how many server threads to create
SMB/CIFS	Specifies flow many server threads to create.
SNMP	
GTFTP	
Diagnostics	
Information	

[Shares]

Click [+Add]

•



Set the shared folder for NFS service. (It's necessary to add a new shared folder)



3.4.4 Rsync [Jobs] -> [+Add] [Add rsync job].

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66	☆ Service	tes Pa Rsync			
> System	Jobs Server				
Access Rights Management	+ Add	Edit 🕨 Run	× Delete		
- 🖀 Services	Enabled	Source *	Destination	Comment	
E NES					
P;; Rsync					
SMB/CIFS					
SSH TFTP					
 Diagnostics Information 					

Configure the rsync job. Including Type(local or remote), Source shared folder, Destination shared folder, and the cycle

Add rsync job			×
Enable			^
Туре	Local	*	
Source shared folder	Select a shared folder v + The source shared folder.	2	н
Destination shared folder	Select a shared folder v + The destination shared folder.	2	
Minute	12 Every N mir	ute	
Hour	18 Every N hou	r	
Day of month	Every N day month	of	
Month	•	*	
Day of week	*	*	
Trial run	Perform a trial run with no changes made		
Pocurciuo	Save Reset Cancel		Ŧ

[Sever] -> [Settings]

Enable the Rsync and configure the port number. (Default:873)

	🖸 🏠 Services 🖫 Rsync					
 System Storage Access Rights Management Services FTP NFS Rsync 	Jobs Serve	r i				
	Settinas Modules					
	Save CReset					
	General setting	gs				
SMB/CIFS	Port	873				
SNMP SSH TFTP Diagnostics	Extra options	Please check the manual page for more details.				

[Server] -> [Modules] Click [+Add]

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Set the shared folder, users, groups and permission ...etc.



3.4.5 SMB/CIFS

[Settings]

Enable SMB/CIFS service and configure the workgroups, local master browser, home directories and WINS.

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[Shares]

Click [+Add]



Set a shared folder for SMB/CIFS service. (It's necessary to add a new shared folder)



3.4.6 SNMP

Enable SNMP, location and version ...etc.

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(66	☆ Services	& SNMP
> System	✓ Save 2 F	leset
Access Rights Management Services	General settin	gs
亞 FTP NFS	Location	10.0.8.1 Location information, e.g. physical location of this system.
Rsync SMB/CIFS	Contact	zxc26900@yahoo.com.tw Contact information, e.g. name or email address of the person responsible for this system.
SNMP	Version	SNMP version 1/2c
E TFTP	Community	public
 Diagnostics Information 	Extra options	

3.4.7 SSH

Enable SSH service.

Configure the port number (default: 22), permit root login and password authentication ...etc.



3.4.8 TFTP

Enable TFTP service and configure the port number (default : 69), shared folder, blocksize and retry timeout ..etc.

	☆ Services	∃ TFTP	≣ .
> System	✓ Save 2 R	eset	
Access Rights Management Services	- General setting Enable	JS	
FTP NFS	Port	69 Port to listen on.	\$
咒금 Rsync ## SMB/CIFS	Shared folder	None The location of the files to share. Please make sure that the shared folder is publicly writable if new files are allowed	+ P
호 SNMP 范 SSH	Blocksize	512 Specifies the maximum permitted block size. The permitted range for this parameter is from 512 to 65464.	\$
> Diagnostics	Retry timeout	1000000 Determine the default timeout, in microseconds, before the first packet is retransmitted.	~
> The Information	Allow new files	Allow new files to be created. By default, only files that already exist are allowed to be uploaded.	
	Extra options		

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3.5 Diagnostics

3.5.1 Dashboard

Display the real - time informations of the system and the services.

	Diagnostics	Dashboard				
> System	+ Add -					
Access Rights Management	Service status	;		* ×		
 Services Diagnostics Dashboard System Information System Logs Services Information 	Service FTP NFS RSync server SMB/CIFS SNMP SSH TFTP		Enabled	Runnina (a) (b) (c) (c) (c) (c) (c) (c) (c) (c		
	≪ System inform	nation		* ×		
	Hostname Version Processor Kernel System time Uptime Load average CPU usage	iDaSer-9000.local 2.2.5 (Stone burner) RDC R3600 Dual Core Linux 3.2.73 Tue Sep 19 18:35:15 0 days 9 hours 9 min 0.16, 0.07, 0.06	e Processor 2017 utes 42 sect	onds		
www.icpdas.com/index.php	Memory usage	3% of	1.91 GiB			

3.5.2 System logs

[Overview]

View the status of system..



[Processes]

View the processes used.

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	Diagnostics ∞ System Information System Information
> System	Overview Processes Performance statistics Report
 Storage Access Rights Management Services Diagnostics Dashboard System Information System Logs Services Information 	Overview Processes Performance statistics Report C Refresh top - 18:35:47 up 9:10, 1 user, load average: 0.16, 0.08, 0.06 Tasks: 102 total, 1 running, 101 sleeping, 0 stopped, 0 zombie Kopu(s): 2.6 us, 1.6 sy, 0.0 ni, 95.0 id, 0.7 wa, 0.0 hi, 0.0 si, 0.0 st KiB Nem: 2009480 total, 20456 used, 1803024 free, 46476 buffers KiB Nem: 2009480 total, 20456 used, 1803024 free, 99696 cached PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND 20092 root 20 0 2764 1076 804 R 6.1 0.1 0:00.02 top 1 root 20 0 2196 684 588 S 0.0 0.0 0:00.02 top 1 root 20 0 0 0 0 0 0 0.0 0:00.00 kthreadd 3 root 20 0 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd 3 root 20 0 0 0 0 0 S 0.0 0.0 0:00.12 migration/0 5 root 20 0 0 0 0 S 0.0 0.0 0:00.12 migration/1 6 root rt 0 0 0 S 0.0 0.0 0:00.12 migration/1 10 root 20 0 0 0 0 S 0.0 0.0 0:00.12 migration/1 10 root 7 root 0 0 0 0 S 0.0 0.0
	13 root 0 -20 0 0 5 0.0 0.0 0:00.00 cpuset 14 root 0 -20 0 0 0 5 0.0 0:00.00 cpuset 15 root 20 0 0 0 5 0.0 0:00.00 khelper 15 root 20 0 0 0 5 0.0 0:00.00 kdevtmpfs 16 root 0 -20 0 0 0 0:00.00 netns 17 root 20 0 0 0 0 0:00.00 sync_supers

[Performance statistics]

View the performances for CPU usage, disk usage and load average..etc.



[Report]

System report about iDaSer-9000.

	Δ Diagnostics				
> System	Overview Processes Performance statistics Report				
Access Rights Management	C Refresh 🛓 Download				
 Services Diagnostics Dashboard System Information System Logs Services Information 	<pre>= OS/Debian information Distributor ID: debian Description: Debian GNU/Linux 7 (wheezy) Release: 7.8 Codename: wheezy = ICP DAS information Release: 2.2.5 Codename: Stone burner = Date = Date</pre>				

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3.5.3 System Logs

Choice the type of log to check.



3.5.4 Services

View the status of all services.

	🛕 Diagnostics 🔧 Services					
> System	Overview FTP SMB/CIFS SSH					
Storage Access Rights Management	2 Refresh					
Services Dispectice	Service	Enabled	Runnina			
Dashboard	FTP		۲			
≪ System Information	NFS		۲			
System Logs	RSync server		۲			
Services	SMB/CIFS		۲			
	SNMP		۲			
	SSH		۲			
	, TFTP		۲			

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3.6 Information

3.6.1 Support

For more details for configure the services ,you can refer to OpenMediaVault



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Appendix A. User setting backup/restore

I.Advance preparation:

1. USB flash

Make a backup of user's setting to the USB or restore the user's setting from the USB.

User Setting Backup

Step1: Run "Is /dev |grep sd" command to ensure the latest states of disks.

root	iDaSer-9000:~#	ls	/dev	grep	sd
sda					
sda1					
sda2					
sda5					
sdb					
sdb1					
sdc					
sdc1		_			
root@	iDaSer-9000:~#				

Step2: Insert the USB flash into iDaSer-9000, and command "Is /dev |grep sd",and ensure the latest states of disks.

root	€iDa	Ser-9	000:~#	ls	/dev	grep	sd
sda							
sda1							
sda2							
sda5							
sdb							
sdb1							
sdc							
sdc1							
sdd							
sdd1				_			
root	§iDa	Ser-9	000:~#				

- Step3: Comparing the two messages to figure out the new disk which is USB flash. In the example ,the disk "sdd" is USB flash.
- Step4: Command "mount -v -t auto /dev/xxx /mnt/usb ", and the "xxx" means the character device name. In the example , the command is" mount -v -t auto /dev/sdd1 /mnt/usb " . In this way , the USB flash had been already mounted to the folder "/mnt/usb"
- Step5: User setting backup

For OS image Version 0.12 or earlier versions=>

a. Run"tar -zcvf /mnt/usb/iDaSer_yyyymmddHHMMSS.bak /etc "command to make a

backup.

b. Run"ls /mnt/usb/" command to confirm that backup file (iDaSer_yyyymmddHHMMSS.bak) has built.



For OS image Version 0.12(including) and other latest versions=>

a. Run"/APP/backup_cmd/backup.sh -b /mnt/usb" command to make a backup.



b. Run"ls /mnt/usb/" command to confirm that backup file (iDaSer yyyymmddHHMMSS.bak) has built.

root@iDaSer-9000:~# ls /mnt/usb/ iDaSer_20160722092013.bak root@iDaSer-9000:~#

=END=

III. User Setting Restoring

Step1: Run"ls /dev |grep sd" command to confirm the states of disks.

root@iDaSer-9000:~#	13	/dev	grep	sd
sda				
sda1				
sda2				
sda5				
sdb				
sdb1				
sdc				
sdc1				
root@iDaSer-9000:~#				

Step2: Insert USB flash into iDaSer-9000 ,and run "Is /dev |grep sd" command again to confirm the states of disks.

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root@iDaSer-9000:~#	ls	/dev	grep	sd
sda				
sdal				
sda2				
sda5				
sdb				
sdb1				
sdc				
sdc1				
sdd				
sdd1				
root@iDaSer-9000:~#				

- Step3: Compareing the messages to figure out the character device name of USB flash. The character device name of USB flash is "sdd" here.
- Step4: Run"mount -v -t auto /dev/xxx /mnt/usb " ,and the "xxx" is the character device name. In the example, the command is " mount -v -t auto /dev/sdd1 /mnt/usb ". In this way, the new disk has been mount to the folder "/mnt/usb".

Step5: Executing user setting restoring.

For OS image Version 0.12 or earlier versions=>

```
a. Run "tar -zxvf /mnt/usb/iDaSer_yyyymmddHHMMSS.bak -C / " command to restore
For OS image Version 0.12(including ) and other latest versions=>
```

```
a. Run "/APP/backup_cmd/backup.sh -r /mnt/usb/iDaSer_yyyymmddHHMMSS.bak" command to restore.
```



```
=END=
```

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Appendix B. System backup/restore

Warning: After executing the operation, the data in SD card will be all removed. It's suggested that user makes a backup for user's data and user's setting. Please refer to the **"Appendix A User setting backup/restore**"

I. Advance preparation

Prepare the implements in advance :

- 1. 4GB micro SD card
- 2. micro SD adapter
- 3. A PC contains Cygwin (download from <u>https://cygwin.com/install.html</u>)

II. System recovery

Step1 : Put the file "iDaSer_xxxxxx.img.gz" to C:\cygwin\home\username\

Step2 : Select "Run as Administrator" to open Cygwin, run command "Is /dev |grep sd"



Step3: Insert the micro SD adapter (SD card inside), and run command "Is /dev |grep sd" again.



Comparing the messages to figure out the new disk that is the SD card. In the example, the driver of the character device name of the SD card is "sdb".

- Step4 : Select the partition of disk, and follow the command below : "dd if=/dev/zero of=/dev/xxx bs=512 count=1"; "xxx" is the driver the character device name.In this example, the command is" dd if=/dev/zero of=/dev/sdb bs=512 count=1"
- Step5 : run system restore command "gzip -dc iDaSer_xxxxxxx.img.gz>/dev/xxx " ; "xxx" is the driver the character device name. In the example, the command is" gzip -dc iDaSer 20170920.img.gz >/dev/sdb "



After restoring, run command "/sbin/fdisk –l /dev/sdb",to check the partitions below.



=END=

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Appendix C. Revision History

This chapter provides revision history information to this document.

The table below shows the revision history.

Revision	Date	Description
1.0.0	October 2017	Initial issue

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