Total Backup Recovery 10.10 Server

Users' Guide

Contents

Copyright Notice	5
Software License Agreement	6
Chapter 1: Introduction	10
1.1 Product Overview	10
1.2 Software Structure	11
1.3 Powerful Backup Features	12
1.4 Other Features and Benefits	12
1.5 New Features and Enhancements	13
1.6 New Features and Enhancements (v10.10)	13
Chapter 2: Installing and Uninstalling Total Backup Recovery Server	14
2.1 System Requirements	14
2.2 Installing Total Backup Recovery 10.10 Server	15
2.3 Uninstalling Total Backup Recovery Server	16
Chapter 3: Total Backup Recovery Server Specific Terminology	17
3.1 File Backup	17
3.2 Hard Drive Imaging	17
3.3 Full and Incremental Backups	17
3.4 Total Backup Recovery Server Dissimilar Restore	18
Chapter 4: Start using Total Backup Recovery Server	
4.1 Activation and Deactivation	
4.1.1 Activation	18
4.1.2 Deactivation	22
4.2 One-Click Backup	23
4.3 Back Up	26
4.3.1 Backup Disk/Volume(s)	
4.3.2 Backup File(s)	29
4.3.3 Backup to VMware	34
4.3.4 Backup to Hyper-v	35
4.4.1 Restore Files	
4.4.2 Restore My Computer	40
4.4.3 Preview Backup Images with Windows File Explorer	
4.4.4 Perform Dissimilar Restore	
4.5 Recurring backup/Schedule	46

4.6 Advanced	
4.7 Recent log	54
4.8 Task List	54
4.9 View Logs	
4.10 Tools Bar	57
4.10.1 One-Click Backup	
4.10.2 Mount Image	
4.10.3 Create a Self-Bootable Rescue Media	60
4.10.4 Enable Recovery Manager	61
4.10.5 Check Image Integrity	
4.10.6 Fix PC Boot Problems	63
4.11 Menu	65
4.11.1 File Menu	65
4.11.2 Tools Menu	65
4.11.2.1 iSCSI Initiator	
4.11.2.2 Export PXE Image	67
4.11.2.3 Check Image Integrity	
4.11.2.4 Convert a Disk Backup to Virtual Disk Format	
4.11.2.5 Create a Self-Bootable Rescue Media	
4.11.3 Settings Menu	69
4.11.3.1 Advanced Settings	
4.11.3.2 Recovery Manager	71
4.11.4 Help Menu	
Chapter 5: Recovery Manager	72
5.1 Enter Recovery Manager	
5.1.1 Boot from a Bootable Rescue Media	
5.1.2 Boot from USB Device	
5.1.3 Boot from the Boot Menu	
5.2 Recovery Manager Main Console	73
5.2.1 Quick Start	74
5.2.2 Restore Computer	
5.2.3 Dissimilar Restore	
5.2.4 Backup System	77
5.2.5 Add Driver	
5.2.6 Open Command Shell Window	
5.2.7 Check Image Integrity	
5.2.8 Set Bootable Hard Disk for UEFI Motherboard	
5.2.9 Network Adapter Configuration	

5.2.10 Open Disk Management	
5.2.11 Map Network Drive	
5.2.12 Open Explorer	
Chapter 6: The Admin Console	
6.1 Main Console	
6.1.1 Quick Start	
6.1.1.1 Manage Single Computer	
6.1.1.2 Manage Multiple Computers	
6.1.2 Group Jobs	
6.1.3 Group Logs	
6.1.4 Client List	
6.2 Back up Single Client	
6.2.1 Backup Disk/Volumes	
6.2.2 Backup Files	
6.2.3 Backup to VMware	
6.2.4 Backup to Hyper-v	
6.3 Back up Multiple Clients	
6.4 Restore Clients	
6.5 Tools Tab	
6.5.1 Convert Backup to Virtual Disk	
6.5.2 Create a Bootable Rescue Media	
6.5.2.1 Change boot sequence in the BIOS	
6.5.2.2 Change boot sequence in the UEFI BIOS	96
6.5.3 Export PXE Image	
6.5.4 Check Image Integrity	
6.5.5 iSCSI Initiator	
6.6 File Menu	
6.7 Settings Menu	

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B. You may use the Software on a Device to create an image file of a hard drive on that Device and store the image file on fixed or removable media for disaster recovery purposes.

C. You may use the Software as a boot disk to re-apply the hard drive image that was created for disaster recovery purposes to the hard drive on the Device from which the disaster recovery image was made or on a replacement Device provided that the software has been removed from the original Device.

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Chapter 1: Introduction

1.1 Product Overview

Total Backup Recovery 10.10 Server is a powerful, all-in-one, centrally managed data backup and hard disk imaging application that provides local and network features for users.

The user can independently manage every computer on the network with Total Backup Recovery Server. It can create a complete disk image of a hard drive and a single hard drive partition and store it on a local computer, network share or even an FTP server. The image can be used for backup & recovery and quickly transfers all information from a server's hard drive to a new hard drive. The image file can also be compressed and distributed across multiple hard drives or partitions. Total Backup Recovery Server's compressed image file contains all the hard drive data files, partition information, and security settings by copying only the used data blocks – this keeps the size of the image to a minimum. The complete disk image can be updated quickly with incremental backups; these incremental backups contain only the hard drive changes that occurred since execution of the complete backup, or since the last incremental backup.

This offers the administrator an easy and reliable way to keep the system backup data current, by storing the images on an external USB hard drive, or on a network share. The administrator is then able to quickly recover from any type of data disaster, including data corruption or a hard drive failure.

With a special recovery environment (Recovery Manager), you can back up and restore damaged partitions even if Windows does not start. Some other features of Total Backup Recovery Server, such as Window Explorer and Cloning partitions, are also available in Recovery Manager.

1.2 Software Structure

The software includes two components: the Administrating Console and the Client Module.



The Administrating Console – This centralized console enables users to manage all of the clients in the network.

The Client Module– This module is installed on the client systems to allow management via the Administrating Console; this can also operate all powerful features locally.

1.3 Powerful Backup Features

Total Backup Recovery Server backup features include:

Hard Drive Imaging: Backup and restore system with complete copies of all files, installed software, partition information, and system settings.

Incremental Backup: Backup that stores changes to the data against the last backup.

File Backup: Manually or automatically backs up selected files/folders, file extensions, etc.

Dissimilar Restore: Restores a complete system image of a particular configuration to a different hardware configuration system or to a Virtual Machine.

1.4 Other Features and Benefits

Complete External Backup: Stores a complete system image on an USB hard drive, or a network share.

Easy Disk Image Updates: Incremental Backup allows you to quickly update saved disk image without leaving Windows.

Flexible Backup: Back up your client's hard drive to another local hard drive, network drive, or an USB device.

Rapid, Controlled Recovery: Rebuilds system via Complete Restore in minutes, not hours or days.

Partition Support: Supports FAT, FAT32, EXFat, NTFS, REFS (only for server systems) and other unknown partitions.

Hardware Support: Supports IDE, EIDE, SATA, SCSI/RAID, GPT hard drives and Dynamic hard drive.

100% Protection: Restores an operating system damaged by corrupt software, human error, a virus attack, or a software bug.

FTP Support: Saves another data copy onto a remote FTP server, enhancing files and computer protection.

Virtual Machine Support: Convert the backup image into a VMware file image format which could be run on a virtual machine.

1.5 New Features and Enhancements

Mutil-volumes backup: Backup disk(s) and volume(s) in the same time.

Support backup to online device: Backup files to online device.

Newly-added backup to virtual machines: Directly backup your computer to virtual machines.

Host machine rapid restore: Rapidly restore only changed data to original computer.

Restore previous images and overwrite installation: Support previous image restoration and overwrite installation.

Factory Image Restore: Factory Image Restore is available after disk cloning or restoring.

Support dynamic volume: Backup of system dynamic volume.

Enhanced user interface: Optimize UI flow.

Support mutiti-booting system: Support backup some special disk layout such as some multi-booting systems.

Others: Other bug fixes and function enhancements.

1.6 New Features and Enhancements (v10.10)

Preview backup images with Windows file explorer.

Generate bootable media from current system (Dynamic PE).

Software size is dramatically reduced.

Back up boot devices settings.

Bitlocker encrypted system supported.

New repair tools for repairing boot issues.

Image verification before restoration.

Support Windows Encryption File System (EFS).

Support VHDx virtual machine.

Import and export Jobs.

Export Log.

Chapter 2: Installing and Uninstalling Total Backup Recovery Server

2.1 System Requirements

Desktop or notebook computer running

- Windows[®] 7 (32-bit & 64-bit)
- Windows[®] 8 (32-bit & 64-bit)
- Windows[®] 8.1 (32-bit & 64-bit)
 Windows[®] 10 (32-bit & 64-bit)

Server computer running

- Windows[®] Server 2008 R2 (32-bit & 64-bit)
- Windows[®] Server 2012 (32-bit & 64-bit)

Administrating Console

- · Intel® Pentium processor at 133 MHz or faster
- · 1GB of RAM

- · 1GB or more disk space
- · Internet Explorer® 6.0 or higher

Client Module

- · Intel® Pentium processor at 133 MHz or faster
- · 1GB of RAM
- · 1450 MB or more disk space
- · Internet Explorer® 6.0 or higher

Optional

- · USB Device
- · CD/DVD ROM

2.2 Installing Total Backup Recovery 10.10 Server



If you purchased a CD:

Insert the CD into your CD-ROM drive. The setup program should start automatically. If it doesn't, browse the CD and double-click the AutoRun.exe. Follow the prompts displayed to finish installation.

If you purchased an electronic download:

Save the executable file to your hard drive. Double-click on the file to launch the Total Backup Recovery Server installer. Follow the prompts displayed to finish installation. 1. Select Install Total Backup Recovery 10.5 Server, and click **Next**.

2. Carefully read the software license agreement, once you accepted, select **I** Agree.

3. Check to install **Total Backup Recovery Client** and **Total Backup Recovery Admin Console** on your own needs, client and admin console could be installed on one same computer, or different computers. Once module to be installed was chosen, please click **Next** to continue.

4. Enter user name, company name and serial number, and then click **Next**.

5. Click **Install** to install to the default folder, or **Browse** to select another location.

6. Click **Finish** to complete the installation.



Note

An administrator will have to log into a domain to install the Administrating Console on any computer within that domain.

2.3 Uninstalling Total Backup Recovery Server

- 1. From the Windows Start menu, select **Start Settings Control Panel**.
- 2. Double-click Add/Remove Programs
- 3. Select Change or Remove Programs.

4. Select **Total Backup Recovery 10.10 Server**, and click **Remove** to begin uninstalling the associated component. A deactivation dialog box will pop up. Click **Yes** to uninstall the product.

Alternatively:

1. From the Windows Start menu, select **Start - All Programs** - **FarStone -FarStone Total Backup Recovery Server.**

2. Click **Uninstall Total Backup Recovery 10.10 Server** to begin uninstalling the associated components.

Chapter 3: Total Backup Recovery Server Specific Terminology

3.1 File Backup

"Total Backup Recovery Server File Backup" monitors file changes. Once a change is detected, Total Backup Recovery Server will record & back up according to the scheduler. File backup can be stored locally or externally.

3.2 Hard Drive Imaging

Hard Drive Imaging can be used for a bare-metal disaster recovery when hard drive failure occurs.

3.3 Full and Incremental Backups

Full and incremental backup solutions aim to make storing several copies of the source data more feasible and traceable. To accomplish this, a complete backup is taken initially and then incremental backups can be scheduled or run manually (**Incremental backup only stores the files or sectors that have changed since the previous full or incremental backup**). This continuous and protective backup schema allows users to quickly backup incremental changes and allows users to restore to any specific increments.

Please take a look at the differential backup section if you're looking for a backup type that allows quicker restoration process.

3.4 Total Backup Recovery Server Dissimilar Restore

With Total Backup Recovery Server Dissimilar Restore, there is no need to reinstall the operating system, applications, configuration files, individual files, and folders on a new system or on a virtual machine. With Dissimilar Restore, you can restore your entire system to a similar or a different hardware configuration with a few mouse-clicks.

Chapter 4: Start using Total Backup Recovery Server

To launch Total Backup Recovery Server, double-click the **FarStone Total Backup Recovery 10.10 Server** icon on the desktop, or select **Start - All Programs – FarStone - FarStone Total Backup Recovery Server**



Тір

If Google Desktop is installed, it will ask if you want to install "The Third Party Plug-in" when starting up Total Backup Recovery Server. Click "**OK**" to begin installation.

In the following interface, please select your wanted file types and options and "File Backup Index Plugin" (Indexes FileBackup Backup images (*.FDB)), then Google Desktop will establish related indexes. You can open .FDB files with the Google Desktop Search.

4.1 Activation and Deactivation

4.1.1 Activation

When running the product, you will see the following dialog box:



You may hit continue without entering a serial number to trigger a 30 days free trial.

Note	
The trial version is unable to use some advanced functions, such as set	
bootable hard disk for UEFI motherboard etc.	

Click "**Register**" to activate Total Backup Recovery Server. The following window will pop up.

Software Setup
Choose an option below I have a serial number for this product UserName: Company: Serial Number: I want to try Total Backup Recovery 10 Server for 29 day(s)

Enter user name and serial number, and then click **Next**. (Note: Please enter the "-" characters together with your serial number.)

	Note							
_	Activation	Times	Count	Exceeded,	please	log	on	to
	<u>http://www.</u>	<u>farstone.c</u>	om/suppo	rt/user-profile	<u>/support-ti</u>	<u>cket.ph</u>	<mark>p</mark> for n	nore
	assistance.							

After entering a serial number, you will see the following dialog box:

6	Total Backup Recovery 10 Server 🛛 🗕 🔍 🗙
	Activation
	Please take a few moments to activate your copy of Total Backup Recovery 10 Server. Activation ensures that you have a genuine copy of Farstone software. Farstone does not receive or use any personal data during activation.
10	Activation from Internet
	Click the Activate Now button below to activate product via the Internet. Note: Activation cannot be cancelled once started.
	Other activation options
	☐ I will activate this product from the main user interface
🗢 FARSTO	ONE Quit Activate Later Activate Now

Click Activate Now to activate the product, then click Next.

Skip the following steps unless you plan to activate the product through email.

You may also activate Total Backup Recovery 10.5 Server via email by hitting **other activation options**. A dialog box will pop up:

	Email Activation
	1. You need to send the Serial Number and Mac Address (below) to the Activation Email Address.
	S/N: ***** ***** ***** ***** ***** Mac Address: BC-AE-C5-A8-C0-D9
	Copy to clipboard
Change -	Activation E-mail Address: Activation@farstone.com
	2. Please insert the Activation Code in the text frame below after you receive the Activation Code via e-mail.
	2. Please insert the Activation Code in the text frame below after you receive the Activation Code via e-mail. Activation Code:
	2. Please insert the Activation Code in the text frame below after you receive the Activation Code via e-mail. Activation Code: 3.Click the Activation Now button below to activate Total Backup Recovery 10 Server via e-mail.

1. Click **Copy to clipboard** button to copy the serial number and Mac address and send them to: <u>Activation@farstone.com</u>.

2. Our technical support engineer will send you the Activation Code via e-mail; enter the activation code to the specified frame.

3. Click Activate Now.

4.1.2 Deactivation

Deactivation steps:

1. Click **Help** on the main console, select **Deactivation**, and you will see the following dialog box:

	Deactivation
	Deactivating this software will allow you to install and activate Total Backup Recovery 10 Server on another computer.
	Deactivation affects all Total Backup Recovery 10 Server components on this computer. You will not be able to run any Total Backup Recovery 10 Server components on this computer unless you decide to reactivate. Deactivation requires an Internet connection and cannot be cancelled once started.
	☑ Erase my serial number from this computer after deactivation completes
EADSTO	Cancel Deactivate

2. Click Deactivation.

3. Click **Yes** to deactivate successfully, and then click **Quit** to finish deactivation.



Тір

If you want to run the activated program on other computers with the same serial number, please run deactivation program from this computer.

4.2 One-Click Backup

When running Total Backup Recovery 10.5 Server for the first time, the program will pop up one-click backup window automatically.

1. Click **One-Click Backup** icon **W** on the main console. You can also find the icon in the top pane.

2. A box will pop up for you to set backup options.

👩 Total Backup Recovery 10.10 Server					
	One-Click	Backup			
	OneClick Cor	mputer Backup		_	
	Job Name: My Computer Backup201508060108				
	Source:	1 Volume (160G)/C:(C:)	<u>Change</u>		
	Last Backup:				
	Backup Destinat	tion			
	Destination:	Required	<u>Change</u>		
			Start Now Cancel		

A. **OneClick Computer Backup**: check **OneClick Computer Backup** to back up your computer. The source disk is defaulted as C: you can click **Change** to change the source disk.

🖰 Tot	al Bac <mark>k</mark> up R	ecovery 10.1	0 Server	x
One-Click Backup				
Select the volume(s) ye	ou want to b	ackup.		
Partition	Capacity 365.25 G 100.00 M 100.00 G 300.00 M	Used Size 174.43 G 100.00 M 78.76 G 240.18 M	Status System Active	Type NTFS FAT32 NTFS NTFS
			ОК	Cancel

Select the partitions you want to backup, then you may proceed after selecting a destination.

4.3 Back Up

Click "back up" to enter following window.



4.3.1 Backup Disk/Volume(s)

1. Click **Backup Now** to start disk/volume(s) backup.

(C)	Total Backup Recovery 10.10 Server	- 🗆 🗙
File Tools Settings Help		
🔊 🚱 🌛 🍛	🔊 🗇 🖉	ARSTONE [®]
Client List	Back Up	
DAVID-T Back Up Restore G Task List	Choose the Disk/Volume(s) to backup. Online 240.17 M Used 100.00 M Used 128.00 M Used 65.43 G Used 268.95 G Used Normal Partition Used Space Free Space	372.14 M Use
	Destination(Device)	
	Backup Destination Required	
	Schedule	
	Schedule Settings Back Up Now	
	Advanced	
	Advanced Settings Please specify	
	Exclude	
	File Exclusions Please specify	
Total Backup Recovery*	Start Now	Cancel

2. Modify job name, the default one is made up of date and time when you created this job.

۲	Total Backup Recovery 10.10 Server	_
File Tools Settings Help		
🔊 🗟 🍣 🍣		FARSTONE [®]
Client List	Welcome to use: WIN-ANKNBCRLEQ8	
	Please choose a backup listed below. Backup Disk/Volume(s) Backup Now Recurring backup	Backup File(s) Backup Now Recurring backup
	Backup to Hyper-v Backup Now Recurring backup	Backup to VMware Backup Now Recurring backup
	Backup Hyper-V VM Backup Now Recurring backup	
Total Backup Recovery*		

3. Check the partition you want to back up.

Тір
If want to use Dissimilar Restore later, you must choose the system partition (e.g. C:) to be backed up.

4. **Destination**: choose or enter a storage destination. You can add more than one backup destinations such as local path or network path.

Enter the storage path and click **OK**. Or select a destination on a hard drive, an USB storage medium, or a network location

5. Schedule – please refer to 4.5

6. **Advanced** – please refer to <u>4.6</u>

7. **Exclude**: Click **File Exclusions** to exclude files from your backup image. After this was done, click **OK** to return to the backup interface.

8. Click **Next** to continue.

9. Click **Finish** to complete.

4.3.2 Backup File(s)

1. Click **Backup Now** to start files backup.

2. Modify job name, the default one is made up of date and time when you created this job.

Ø	Total Backup Recovery 10.10 Server	_ _ X
File Tools Settings Help		
🔊 🗟 🍣 🍣		
Client List	Back Up	
	Choose the Disk/Volume(s) to backup.	
Restore	Job Name: File201507081338	
Task List	Backup Content	
	Backup Type File	
	Back up File:	
		=
	Destination(Device)	
	Backup Destination	
A CONTRACT	Schedule	
Total Backup Recovery °		Start Now Cancel

Select the checkbox for type of folders or files you would like to backup. Add New Type and Add Files/folders can add greater flexibility to the type of files/folders you would like to backup.



Click **Add New Type** or **Add Files/Folders** to add new file types, folders or individual files. Click **OK** to continue.

Add Files/Folders: Allows you to backup specific files or folders you wish by browsing from the Windows[®] Explorer.

Add New Type: Allows you to add more file types. All file type with the extensions added will be backed up. See below

3 Add New File Type(s)	×			
Select file types that you want to backup				
If the file type you want to include is not listed, click "Add New Type." If y group of file types, click "Add New Type" and then "Add Group". You mugroup you create.	rou want to create a st add file types to the			
 Video Files Document Files E-mail Financial Files Vieta Files Vieta Files Vieta Files Vieta Files 				
<u>SelectAll DeselectAll Delete Type</u>	Add New Type			
	OK Cancel			

- a. Click **Select All** to select all the types.
- b. Click **Deselect All** to clear all the types you have selected.
- c. Click **Delete Type** to remove file type you don't want to back up.

d. Click **Add New Types** to create a new file type group. You will need to enter a group name and choose an icon. Or click **Add New Type** to add a new file type into the backup list. Under such circumstances, a file type extension and a file type description are needed.

o	Total Backup Recovery 10.10 Server
	Add Group Add File Types
G	Sroup Name:
J	
Ic	con: Browse
	OK Cancel

3. **Destination**: You can add more than one backup destinations such as local path or network path.

Click **Backup Destination** to enter the storage path.

Enter the storage path and click **OK**. Or select a destination on a hard drive, an USB storage medium, or a network location

4. **Schedule**: please refer to <u>4.5</u>

5. **Advanced**: please refer to <u>4.6</u>

6. **Exclude**: Click **File Exclusions** to exclude files from your backup image. After this is done, click **OK** to return to the backup interface.

😁 Tot	al Backup Recovery 10.10 Server	x
Set file exclus	sions	
Specify files you want	to exclude from the backup image	_
Exclude all hidden files	and folders	
Exclude files matching	the criteria below	
	Exampl	e
	Ad	ł
	Edi	t
	Remo	ove
	OK Cano	:el

7. Click **Finish** to complete.

Updating a File Backup Job:

- 1. Launch Total Backup Recovery 10.10 Server.
- 2. Select Task List.
- 3. Select an existing job from the Job List that you want to update.
- 4. Select **Backup Now** and an incremental backup will start immediately.
- 5. Click **Finish** to return to the main console.

4.3.3 Backup to VMware

1. Start the Total Backup Recovery Server Program. Select **Back Up**, and then click **Backup Now** under **Backup to VMware**.

2. In below dialog box, the CPU number and Memory Size should be as same as destination VMware configurations.

Backup your hard drive to	a virtual machine, and you car	n run it directly in any VMware
Type: VMware Virtua	I Disk(.vmdk)	
Cpu Number: Cpu Number: 1	•	
Memory Size: Memory Size:		256 MB
Туре:		
VMware 8.0	VMware 9.0	VMware 10.0
		OK Cancel

- 3. Select VMware type you want to backup, and click **OK** thereafter.
- 4. Check the partition you want to back up, and enter a storage path.
- 5. Schedule: Please refer to 4.5
- 6. Click **Next** to launch process.
- 7. Click **Finish** to complete operation.

4.3.4 Backup to Hyper-v

1. Start the Total Backup Recovery Server Program. Select **Back Up**, and then click **Backup Now** under **Backup to Hyper-v**.

0		Total Backup Re	ecovery 10.10 Ser	ver		_ D X
File Tools Settings Help						
🔊 🔮 🍣 🏖					Ø	FARSTONE®
Client List	Back Up					
E-S WIN-ANKNBCRLEQ8	Backup your hard d	rive to Microsoft	Virtual Disk forma	it(*.vhd), and you	load it in HyperV e	nvironment.
Restore	Job Name:	VHD20150708134	1			
	Backup Content					
	Backup Type	VHD	-			
	Partition	Capacity	/ Used Size	Status	Туре	
		01ACA 465.76 365.25	G 293.42 G G 214.21 G	System	NTFS	
	□ @D	100.00	M 100.00 M	Active	FAT32	=
		300.00	M 240.18 M		NTFS	
	🗌 🧼 System Re	eserved 128.00	M 128.00 M			
	👄 Disk	(r.)	(5)	Custors Detentio	(6.)	(5.)
	Basic 465.76 G	(F:) 300.00 M NTFS	100.00 M FAT32	128.00 M	365.25 G NTFS	100.00 G NTFS
	Online	240.18 M Used	100.00 M Used	128.00 M Used	214.21 G Used	78.76 G Used
						3
	Normal Partition	📕 Used Spa	:e 🛛 🌌 Fre	e Space		П
						~
Total Backup Recovery °					Start Nov	w Cancel

- 2. Check the partition you want to back up, and enter a storage path.
- 3. **Schedule**: Please refer to <u>4.5</u>
- 4. Click **Start Now** to launch process.
- 5. Click **Finish** to complete operation.

4.3.5 Backup Hyper-V VM

1. Start the Total Backup Recovery Server Program. Select **Back Up**, and then click **Backup Now** under **Backup Hyper-V VM.**

8	Total Backup Recovery 10.10 Server	= 0 X
Rie Tools Settings Help		
B & 3 3		FARSTONE
Client List	Back Up	
B 😴 WIN-ANKNBCRLEQB	Choose VMs in the Hyper-V host computer to backup.	
- Restore	Job Name: HyperV201506301211	<u>^</u>
- Co Task List	Backup Content	
	Backup Type Hyper-v	
	Name Status	
		в
	Destination(Device)	
E	Backup Destination Required	
	Schedule	
Total Backup Recovery*		Card Lines
rour backup recordly		Start Now Sancer

2. **Name:** all Virtual machines in the computer will be listed here. You may check any VM you want to back up.

3. **Destination (Device)**: You can add more than one backup destinations such as local path or network path.

Click **Backup Destination** to enter the storage path.

Enter the storage path and click **OK**. Or select a destination on a hard drive, an USB storage medium, or a network location.

4. **Schedule**: automatically back up your VMs according to your schedule settings. Please Please refer to 4.5 for details.

5. **Advanced**: configure advanced backup settings. please refer to 4.6 for details.

6. Click **Start Now** to start backup process.

7. Then, click **Finish** to complete operation.
4.4 Restore

After clicking the **Restore** icon, the following window will pop up.



4.4.1 Restore Files

1. Click the downward-pointing triangle to show a drop list of previous file backup jobs.

Ø	Total Backup Recovery 10.10	Server – 🗆 🗙
File Tools Settings Help		
🔊 🗟 🍣 🍣		
Client List	Restore	
DAVID-T Back Up Restore Task List	Select a previous job File201507082300 🔹	or "Browse" for an image.
	 Job Name: File201507082300 	
	 Source Type: File 	
	Schedule: Back Up Now	
	 Description: 	
	Date and time Backup location	
	7/8/2015 11:02:47 PM E:\DriversBackup\File20150	17082300\20150708230247\File2015070823001.tbr
	< compared with the second sec	>
S	Preview restore files with Windows Explorer (re	commended)
	○ Find file to restore	
	O Browse and Select file to restore	
Total Backup Recovery*		Next Cancel

2. Once a file backup image was chosen, the program will list its detailed information. **Preview restore Files with Windows Explore (recommende** is default option. If you know exactly what the file name is, check **Find file to restore** or check **Browse and Select file to restore**.

A. Check **Preview restore Files with Windows Explore (recommended)** and click **Next** and then

Windows Explore will pop up to display detailed content in the backup image.

If the image you want to restore from is not listed, please click **Browse** to manually select a file image.

B. Check Find file to restore and click Next.

a. Enter name of the file you want to restore, click **Search** to search the file. Then the file will be listed in the panel.

b. Check the files you want to restore.

c. Select a location to save the restored files:

If **New Desktop Folder** is selected, the restored files will be saved in a new folder on the client's desktop with the folder hierarchy preserved exactly as when it was backed up.

If **Original Location** is selected, the restored files will be saved to their original folder and overwrites existing files in that folder with the same name.

If **Another Folder** is selected, click **Select a folder** to browse a folder on the network. The restored files will be kept in their original folder hierarchy.

d. Click **Next**. Carefully read the note, Click **OK** to continue.

e. Click **Next** to start restoration process.

f. Click **Finish** to complete.

C. Check Browse and Select file to restore and click Next.

a. All files will be listed, please select the files you want to restore.

b. Select a location to save the restored files:

If **New Desktop Folder** is selected, the restored files will be saved in a new folder on the client's desktop with the folder hierarchy preserved exactly as when it was backed up.

If **Original Location** is selected, the restored files will be saved to their original folder and overwrites existing files in that folder with the same name.

If **Another Folder** is selected, click **Select a folder** to browse a folder on the network. The restored files will be kept in their original folder hierarchy.

c. Click **Next**. Carefully read the note, Click **OK** to continue.

d. Click **Next** to start restoration process.

e. Click **Finish** to complete.

4.4.2 Restore My Computer

1. Click the downward-pointing triangle to show a drop list of previous file backup jobs. If the image you want to restore from is not listed, please click **Browse** to manually select a backup image.



2. Once a file backup image was chosen, the program will list its detailed information. **Preview restore Files with Windows Explore (recommended** is default option.

A. Check **Preview restore Files with Windows Explore (recommended)** and click **Next** and then

Windows Explore will pop up to display detailed content in the backup image.

B. Check Restore partitions/disks the whole system

- 1.Click **Next** to continue.
- 2. Select a source and a destination.

3. Check **Rapid Restore** if you only need to restore the changed files of destination computer.

4. Uncheck Normal Restore, and click Start Now.

5. **Boot order information**: it's available if your motherboard is UEFI, click it to check your UEFI computer's boot order.

Device Type	Device ID	
Boot order information	{3a97f8c3-62f1-11e4-9494-806e6f6e6963}	
Boot order information	{3a97f8c4-62f1-11e4-9494-806e6f6e6963}	
UEFI:Network Device	{3a97f8c5-62f1-11e4-9494-806e6f6e6963}	

Disk Manager: check your disk layout here.

6. Check **Rapid Restore** if you only need to restore the changed files of destination computer.

Check Image: you're strongly recommended to check image integrity before restoration.



Тір

Rapid Restore and Normal Restore can't be checked at same time.

7. Click Start Now.



Тір

The restoration process will require your computer to reboot into the

FarStone Recovery Manager Environment.

8. Click **OK** to enter the FarStone recovery environment to complete the restoration process. Your computer will reboot automatically.

4.4.3 Preview Backup Images with Windows File Explorer

Double-click a FarStone backup image to view its contents. You can browser, open, and copy files & folders.



The above is an example screenshot of a backup image. You can browse through folders hierarchy to view, copy, or restore specific files and folders.

4.4.4 Perform Dissimilar Restore

1. Enter Total Backup Recovery 10.5 Server main console and select **Restore**.

2. Click downward-pointing triangle to select a previous disk backup job to restore from. If the image you want to restore from is not listed, please click **Browse** to select a disk/volume image.

- 3. Click **Next** to continue.
- 4. Select a source and a destination.

5. **Boot order information**: it's available if your motherboard is UEFI; click it to check your UEFI computer's boot order.

evice Type	Device ID	
Boot order information —		
JEFI:CD/DVD Drive	{3a97f8c3-62f1-11e4-9494-806e6f6e6963}	
Boot order information —		
/EFI:Removable Device	{3a97f8c4-62f1-11e4-9494-806e6f6e6963}	
Boot order information —		
/EFI:Network Device	{3a97f8c5-62f1-11e4-9494-806e6f6e6963}	

Disk Manager: check your disk layout here.

6. Check Normal Restore, click Start Now thereafter.

Check Image: you're strongly recommended to check image integrity before restoration.

Tip

The restoration process will require your computer to reboot into the FarStone Recovery Environment.

7. Click **OK** to enter the FarStone recovery environment to complete the restoration process automatically.

8. If your target computer needs a driver that is not included in the image, the following popup will remind you the device's ID and Type; you'll have to manually add the driver.



9. Choose the driver's path. If not available, please download the corresponding driver. Click **OK** to add.

Recovery Manager	43	×
Dissimilar Restore		
Please select the file path where driver of above device is located. Be sure the driver is with Windows Operating System where backup image was created.	compatible	2
Please specify a shared folder.		
Name		
Desktop		
0 @C:		
My Network Places		
		_)
OK	Cancel	

Your computer will restart to complete the restoration.



Note

Dissimilar Restore supports most hardware or PCs, but not all of them.

Here are some suggestions if the Dissimilar Restore failed

1. Make sure you have added a corresponding driver (last step in Dissimilar Restore);

2. Use a similar PC (disk and motherboard with the same model) to try again;

3. Double-click image in Windows, and restore files in the image directly; Or Browse image in PE, and check "Displayed based on file", select files to restore.

There are three types of Dissimilar Restore (UEFI) :

1. Restore MBR image to partition or disk based to an UEFI. After restoration, the target computer can boot normally.

2. Restore GPT format (UEFI based) image to partition or disk based on another UEFI. You cannot boot target computer directly. Please enter Recovery Manager (PE) through a bootable media (refer to 4.10.3), and set this hard drive to be bootable in Tools tab.

3. GPT format (UEFI based) image to MBR partition or disk based are not supported.

4.4.5 Restore Hyper-V VM

8	To	tal Backup Recovery 10.10 Server	×
File Tools Settings Help	-		
B & 3 3			FARSTONE
Client List	Restore		
B WIN-ANKINDCRLEQ8	Select a previous job	HyperV201507011347 • or "Browse" for an image	<u>1</u>
니운3 View Logs	 Job Name: Source Type: 	HyperV201507011347 Hyper-v	
	· Schedule:	Back Up Now	
	 Description: 		
	Date and time	Backup location	
	7/1/2015 1:46:28 PM	E:\Hyper-V\HyperV201506161041(20150616)\HyperV2	01507011347\201507011348
Total Backup Recovery*			Next Cancel

1. Click dropdown list to show previous file backup jobs. If the image you want to restore from is not listed, please click **Browse** to manually select a backup image.

2. Once a backup image was chosen, the program will list its detailed information.

8	Total Backup Recove	ery 10.10 Server	- 0 X
File Tools Settings Help			
8 2 3 3			<i>S</i> FARSTONE
Client List	Restore		
WIN-ANKNBCRLEQ8 Back Up Restore	Restore Hyper-V Virtual Machine		
- Cash List - Control View Logs	Name		
0			
	Another Folder Select a folder	Original Location	
Total Backup Recovery*	Startup the VM after restoration		Previous Start Now Cancel

If **Another Folder** is selected, click **Select a folder** to browse a local or network folder.

If **Original Location** is selected, the restored files will be saved to their original folder and overwrites existing files in that folder with the same name.

Check **Start the VM after restoration** if you want to automatically start the VM after restoration.

Click **Start Now** to start restoration process.

Click **Finish** to complete.

4.5 Recurring backup/Schedule

0	Total Backup Recover	y 10.10 Server		
Schedule Setti	ngs			
Backup scheme Schedule Back Up Now Manual start	Run the task Daily Weekly Monthly One time only	Others Others If the computer shuts down, run the missed tasks when it boots up next time. Local Admin account 		
Schedule		Clean up archive		
Start Time: 00 🗸 H	Hour(s) 00 🗸 Minute(s)	Do not clean up		
Every: 1 v Day(s)		 Retention rules Delete the oldest backups 		
		■ Backup older than: 30 v Day(s)		
Hourly backup		Number of backups in the 30 v		
The first day will run fu	ull backup.	◯ Keep 3 v backup set		
Type: Incremental Ba	ickup 🗸	Skip other schedule backups until the first full backup		
		OK Cancel		

The default schedule setting is **Backup Now**.

There are two types of schedules: simple schedule scheme and advanced schedule scheme.

A. Simple schedule scheme

Select simple schedule scheme to set the retention rules, and schedule when and how often to back up data.

a. Choose a cycle (daily, weekly, monthly and one-time only) to back up in the **Run the task** column. In Weekly and Monthly options, you can pick a precise time in the **Schedule** column to backup files. The backup set is created in the beginning of each cycle.

b. Clean up archive: Click Retention Rules to set a term on deleting the

oldest backups. The retention rules are applied after backup creation. The **Do not clean up** is set by default, which means that older backups will not be deleted unless specified.

c. **Backup type**: There are 2 backup types at available: full backup and incremental backup.

Full backup: selected as default for all backup locations.

Incremental backup: please refer to <u>3.3</u> for more details.



Note

On a weekly or monthly basis, the program will make a full (base) backup at 1st day of each week or each month. Additional backup to the same job before the next full (base) backup are called incremental backup, and each full (base) backup and all of its incremental backup files will be kept in one backup set.

If you set the **Retention Rules** to "Keep 3 Backup Sets", then the program will reserve 3 backup sets (backup setting number is 99).

For example: If you schedule a monthly backup with "Keep 3 Backup sets" retention rules, then the program will only keep 3 months' worth of backups. Oldest backup will be deleted to make room for the newest one under this circumstances

B. Advanced schedule scheme

This schedule type is a compound of full backup, incremental backup and differential backup. It is a complete backup plan that also allows for quicker restoration time by alternating differential backups and incremental backup.

Retention rules are applied when you want to delete legacy backups in order to reserve enough storage space for your future backups.

Example

In the below example, we have scheduled a full backup on the first day of every month, and also create differential backup every day.

We also choose "Keep 3 backup set" for Retention rules. This means that we only keep three months backup data, and backup data older than 3 month will be automatically deleted.

Backup scheme Schedule Back Up Now Manual start	Run the task Daily Weekly Monthly One time only	Others If the computer shuts down, run the missed tasks when it boots up next time. Local Admin account
Schedule Start Time: 00 • V 1 V 2 V 3 V 8 V 9 V 10 V 15 V 16 V 17 V 22 V 23 V 24 V 29 V 30	Hour(s) $00 \rightarrow \text{Minute(s)}$ $\checkmark 4 \checkmark 5 \checkmark 6 \checkmark 7$ $0 \checkmark 11 \checkmark 12 \lor 13 \checkmark 14$ $7 \checkmark 18 \checkmark 19 \lor 20 \lor 21$ $4 \checkmark 25 \lor 26 \lor 27 \lor 28$	Clean up archive Do not clean up Retention rules Delete the oldest backups Backup older than: 30 Day(s) Number of backups in the archive exceeds
Type: Differential B	ackup 👻	 Keep 3 backup set Skip other schedule backups until the first full backup

Backup scheme	Run the task	Others
 Schedule Back Up Now Manual start 	 Daily Weekly Monthly One time only 	 If the computer shuts down, run the missed tasks when it boots up next time. Local Admin account
Schedule		Clean up archive
Start Time: 00 → V 1 V 2 V V 8 V 9 V 10 V 15 V 16 V 17 V 22 V 23 V 24 V 29 V 30	Hour(s) 00 ▼ Minute(s) ▼ 4 ▼ 5 ▼ 6 ♥ 7 ♥ 11 ♥ 12 ♥ 13 ♥ 14 ♥ 18 ♥ 19 ♥ 20 ♥ 21 ♥ 25 ♥ 26 ♥ 27 ♥ 28	 Do not clean up Retention rules Delete the oldest backups Backup older than: 30 - Day(s) Number of backups in the archive exceeds Keep 3 - backup set
Type: Differential Bac	kup 👻	Skip other schedule backups until the first full backup

Note

For users that have simultaneous backups running on the same LAN, please make sure you don't have all your full backups set to run at the same time, It may affect performance.

4.6 Advanced

	Total Backup Recovery 10.10) Server	
Advanced Set	tings		
Choose the Compression	Mode		^
🔘 None	Low	🔿 High	
Backing up without con time to complete, but i	npression takes the shortest time to complete. t reduces the demand on disk space.	High compression requires the most	
Offsite Copy			
Enable offsite copy			
-Check Integrity after bac	kup		
Auto checking of image	age integrity after backup is completed.		
Password Protection			
Enable Password Pro	tection AES Encryption	Set Password	
Image Splitting			
Automatic 🗸	Please set a limit for each image file size, and all according to it.	backup images will be splited	
Backup Priority			
None	O Low	🔘 High	
-Network Connection Spe	ed		
0			~
		OK Can	cel

When backing up files, volume or disk, you can set advanced settings in the **Advanced** column.

1. **Choose the compression mode**: None, Low or High mode are available. Backing up without compression takes the shortest time to complete. High compression requires the longest time to complete, but it reduces the demand on disk space.

2. **Offsite Copy**: Enabling offsite copy will greatly reduce the risk of data loss by backing up your data to an offsite location.

(1) **FTP connection**: Enter the **Default FTP address** and **Port**.

For user name and password, you can enter the **Default username** and **Default password**, or select **Anonymous** if the FTP server is shared to all users on the network.

(2) Data connection type: PASV or PORT.

(3) **Operating in the backup fails**: **Enter Retry attempts** (Maximum of 100 times), and **interval between retries** (Maximum of 600s).

(4) **Restore Defaults**: Clear all FTP settings.

Tip

This feature only supports local image files. If want to use the image file on the network or disc, you should save it on the local computer first.

The entire FTP upload process executes in the background. If the program fails to upload backup data onto FTP server, it will be recorded in the logs. Total Backup Recovery will retry three times as default on the next startup.

3. **Password Protection**: Check it to enable password protection.

4. **Image Splitting**: You can set a limit for image file size. Once this value is reached, a new image file will be created and the operation will continue.

5. **Backup Priority**: You can set backup priority as None, Low or High as you need.

6. **Network Connection Speed**: You can set transfer speed of the backup data over the network.

7. **E-mail Notifications**: By configuring these settings, Total Backup Recovery Server will send an E-mail to your specified E-mail account after backup is completed.

E-mail configuration: Enter preferred E-mail address and other server settings.

Send test e-mail: Click here to test proper settings functionality. Specify the events for which you would like to receive notification via E-mail regarding the backup operation.

8. **Pre/Post commands**: Set commands you want to execute before or after the backup process.

9. **Advanced Settings**: Check smart backup and rapid restore on your own needs.

Click **OK** to confirm all settings, and then you will return to the backup interface.

4.7 Recent log

This column displays all Total Backup Recovery Server events over the last 30 days, including warnings, errors and operations.

Click downward-pointing triangle to select a type of logs you want to check.



4.8 Task List

Click Task List icon in the Client List to enter task list.

C	Total Backup Recovery 10.10 Server	_ D X
File Tools Settings Help		
N 🔒 🍣 🏖		
Client List	Task List	
WIN-ANKNBCRLEQ8 Back Up Restore Gask List	Source Type: View All	
🧭 view Logs	ID Job Name St Create Time Last Backup Time State 29 HyperV201506 Idle 6/29/2015 11:10 6/29/2015 3:01:3 6/29/2015 3:01:45 PM Successfully 30 File201506301 Idle 6/30/2015 3:01:3 6/30/2015 3:01:45 PM Successfully 31 HyperV201506 Idle 6/30/2015 4:07:0 6/30/2015 4:46:43 PM Successfully 32 DiskVolumes20 Idle 7/1/2015 11:09:0 7/1/2015 11:09:06 AM Successfully 33 DiskVolumes20 Idle 7/1/2015 11:19:5 7/1/2015 11:19:56 AM Successfully 34 HyperV201507 Idle 7/8/2015 10:17:1 7/8/2015 10:17:33 AM Successfully 35 HyperV201507 Idle 7/8/2015 1:23:14 7/8/2015 1:25:17 PM Successfully 36 My Computer B Idle 7/8/2015 1:23:14 7/8/2015 1:25:17 PM Successfully	Backup Plan Operati Back Up Now Delete Back Up Now Delete Schedule Delete Back Up Now Delete
	Detail E-mail Notifications History Basic information	^
	Job Name: HyperV201506291109 Create Time: 6/29/2015 11:10:32 AM Job Comment: Instant Second S	=
Total Backup Recovery*	Backun information	`

The **Task List** will display all backup jobs in the computer. In the colume "State", we'll show the job's current state such as Successfully, Failed and N/A.

You can also conveniently track, back up, and restore files/images within the **Task List**. You can also view details, edit, do offsite copy settings, and more.

1. **Backup Now**: Click **Backup Now** to back up your chosen file or disk image immediately.

2. **Restore**: Click **Restore** to restore your backup file or disk image immediately.

3. Edit: Click Edit to set schedule settings.

4. **Details Preview**: Click **Details Preview** to check detailed information of the chosen job.

5. **Offsite Copy Setting**: Click **Offsite Copy Setting** to back up your files or images to an offsite location in order to reduce the risk of data loss.

6. Add Files: add a files backup to the list.

- 7. Copy Job: copy a chosen job to a new one.
- 8. Export all jobs: export all jobs in *.xml format to save for later reference.
- 9. **Import all jobs**: import all jobs in *.xml format into program.

4.9 View Logs

Click **View Logs** in the **Client List** to check all Total Backup Recovery Server's events, including backup, restore, job, VM conversion and so on.



Select the type you want to view in the **Type** tree views, and the corresponding log source will be shown in the right panel. For example, if **backup** in the **Type** tree view is selected, the **view logs** window will show all backup logs.

Delete: delete logs some days earlier.

Export all logs to Excel: export all logs as excel file to save for later reference.

4.10 Tools Bar

You can access and run all Total Backup Recovery 10.5 Server's functions in the Tools Bar, located at top panel of the main console.

4.10.1 One-Click Backup

Looking up One-Click Backup, please refer to 4.2

4.10.2 Mount Image

Choose "Mount image" entry in the File menu, and then you can check files/folders to be restored to some specific path.

0	Total	Backup Reco	overy 10.10 S	erver		×
Mount Ima	ige					
Please select a th	r image file you v	want to Mou	nt			
C:\Users\test\Desk	ор					
Name						
 My Doci My Corr My Netro FSCaption New fold Stimulation Screens 	uments puter vork Places ure77 der hots					
					ок	Cancel

1. Please specify the file location, and then click **OK**.

2. Once a file backup image was chosen, the program will list its detailed information. If you know exactly what the file name is, check **Find file to restore** or check **Browse and Select file to restore**.

A. Check **Find file to restore** and click **Next**.

a. Enter name of the file you want to restore, click **Search** to search the file. Then the file will be listed in the panel.

b. Check the files you want to restore.

c. Select a location to save the restored files:

If **New Desktop Folder** is selected, the restored files will be saved in a new folder on the client's desktop with the folder hierarchy preserved exactly as when it was backed up

If **Original Location** is selected, the restored files will be saved to their original folder and overwrites existing files in that folder with the same name.

If **Another Folder** is selected, click **Select a folder** to browse a folder on the network. The restored files will be kept in their original folder hierarchy.

d. Click Next. Carefully read the note, Click OK to continue.

- e. Click Start to start restoration process.
- f. Click **Finish** to complete.
- B. Check Browse and Select file to restore and click Next.

a. All files will be listed, please select the files you want to restore.

b. Select a location to save the restored files:

If **New Desktop Folder** is selected, the restored files will be saved in a new folder on the client's desktop with the folder hierarchy preserved exactly as when it was backed up.

If **Original Location** is selected, the restored files will be saved to their original folder and overwrites existing files in that folder with the same name.

If **Another Folder** is selected, click **Select a folder** to browse a folder on the network. The restored files will be kept in their original folder hierarchy.

c. Click **Next**. Carefully read the note, Click **OK** to continue.

d. Click Start to start restoration process.

e. Click **Finish** to complete.

4.10.3 Create a Self-Bootable Rescue Media

Rescue Media is a self-bootable image on a CD/DVD, USB flash or PXE server. Rescue Media allows you to restore files/folders or full system from PC failure, to reset forgotten Windows password, to do cold disk imaging, or to rescue files on a corrupted system.

Click **Create a Bootable Rescue Media** icon , the following window will appear.

0	Total Backup Recovery 10.10 Server	- 🗆 ×
File Tools Settings Help		
🔊 🙆 🍣 🍛		FARSTONE®
Client List	Create a Bootable Rescue Media	
AVID-T Back Up Restore Go Task List View Logs	Insert a blank CD/DVD or USB flash, and then select the corresponding DVD writer or USB or refresh after you insert CD/DVD or USB to find the devices	devices. Hit
	CD/DVD writer:	
	USB Device:	
	Motherboard/Bootable Type:	
	Note: Select "UEFI" (new motherboard) or "MBR" (traditional board).	
	Net	xt Cancel
Total Backup Recovery *		

1. Insert a blank Disc or USB device.



Tip

Should there be any data on the inserted device, you will be prompted to erase the data. Click **Erase** to continue. Or you may insert another blank CD/DVD or USB device and click **OK** to continue.

If your computer is an EFI/UEFI based computer in GPT format, please select "UEFI" when selecting a bootable type. Otherwise, choose default "MBR" type.

2

Tip

Creating a bootable rescue media with Total Backup Recovery Server allows you to choose the bootable CD/DVD or USB device in BIOS-based system; in general, the default is MBR bootable type. But when creating a bootable USB media, you must choose UEFI because UEFI environment only supports GTP format hard drive.

- 2. Click **Next** to create bootable disk.
- 3. Click **Finish** to complete the process.

4.10.4 Enable Recovery Manager

Click enable recovery manager icon to add recovery manager into the boot menu, thus allowing your computer to be recovered at boot item before operating system starts.



After this was enabled, you can enter recovery manager by pressing the Up/Down arrow keys during computer boot up.

Click recovery manager icon once again to disable the feature.

0	Total Backup Recovery 10.10 Server ×
Q	Recovery Manager Recovery Manager allows you to recover your computer at boot time before the operating system starts.
Disable Remove	e e Recovery Manager from boot entry.
	Disable Cancel

4.10.5 Check Image Integrity

Use this function to check if a complete backup image file is valid and restorable.

1. Click **Check Image Integrity** icon², then the following window will appear.

0	Total Backup Recovery 10.10 Server	_ 🗆 🗙
File Tools Settings Help		
🔊 🗟 🌛 🍛		FARSTONE [®]
Client List	Check Image	
■-♥ DAVID-T Back Up 	Check the integrity of a backup image to ensure the data is not corrupt.	Goto
View Logs	Name	
23%) ⁺ 0.3K/5 1.5K/5		
Total Backup Recovery *		Next Cancel

2. Enter the storage path of the image you want to check, and click **Goto** to select the image. You can also select **the** storage path of the image you want to check directly by browsing and click **Next**.

3. Select to validate the Complete or Incremental backup image, and click **Next** to continue.

4. After validating the backup image, click **Finish** to complete the Image Integrity Check.

4.10.6 Fix PC Boot Problems

Should Windows have boot failure issue with the cloned disks, this function will help you repair and fix booting issues.

1. Click Fix PC Boot Problems



	Total Backup Recovery 10.10 Server			
CPC Boot Problems				
Locate installed Windows operating	systems on g	your PC.(Syste	m Partition)	
Description	Version	Drive Letter	Path	
Disk1 VMware Virtual S <250.00 G>				
Windows 8.1 N X64	6.3	E:	E:\Windows	
Select which partition your PC shoul	ld boot from.(Active Partition	1)	
Drive Letter	File System	Disk ID	-	
Drive Letter Disk1 VMware Virtual S <250.00 G>	File System	Disk ID		
Drive Letter Disk1 VMware Virtual S <250.00 G> <no name=""></no>	File System	Disk ID VMware Virtu	Jal S	
Drive Letter Disk1 VMware Virtual S <250.00 G> <no name=""></no>	File System	Disk ID VMware Virtu	ual S	
Drive Letter Disk1 VMware Virtual S <250.00 G> <no name=""></no>	File System	Disk ID VMware Virtu	ual S	
Drive Letter Disk1 VMware Virtual S <250.00 G> <no name=""></no>	File System FAT32	Disk ID VMware Virtu	ual S	
Drive Letter Disk1 VMware Virtual S <250.00 G> <no name=""></no>	File System	Disk ID VMware Virtu Please press th	ual S ne Next button to continue.	
Drive Letter Disk1 VMware Virtual S <250.00 G> <no name=""></no>	File System	Disk ID VMware Virtu Please press th	ual S ne Next button to continue.	
Drive Letter Disk1 VMware Virtual S <250.00 G> <no name=""></no>	File System FAT32	Disk ID VMware Virtu Please press th	ual S ne Next button to continue.	Cancel
Drive Letter Disk1 VMware Virtual S <250.00 G> <no name=""></no>	File System	Disk ID VMware Virtu Please press th	ual S ne Next button to continue. Next	Cancel
Drive Letter Disk1 VMware Virtual S <250.00 G> <no name=""></no>	File System	Disk ID VMware Virtu Please press th	ual S ne Next button to continue. Next	Cancel

2. Select the installed Windows operating system on your PC.

3. Choose a partition that your PC should boot from (in general, this partition resides in the same hard drive of the system partition), and click **Next** to continue.

4. Check items you would like to fix, such as Boot Configuration Database and BOOT.INI, partition boot code, Master Boot Record (MBR) and boot disk unique ID (GUID).



Note: For most cases, check the first three options will fix boot issues.

5. Click **Start** and then **Finish** once it is completed.

4.11 Menu

The Menu column is located at Total Backup Recovery Server's top pane.

4.11.1 File Menu

Click File in the menu column

2	Mount Image	Alt+M	
1	Back Up	Alt+B	
9	Restore	Alt+R	
×	Exit	Alt+F4	

You can run these functions either with respective shortcut key combinations or icon in the interface.

For **mount image**, please refer to <u>4.10.2</u>

For **back up**, please refer to <u>4.3</u>

For **restore**, please refer to <u>4.4</u>

Click **Exit** to exit the program.

4.11.2 Tools Menu

Click **Tools** in the menu column.

9	iSCSI Initiator	Alt+I	
3	Export PXE Image	Alt+E	
Q	Check Image Integrity	Ctrl+Alt+C	
-	Convert Backup to Virtual Disk	Ctrl+Alt+O	
2	Create a Bootable Rescue Media	Ctrl+Alt+E	

4.11.2.1 iSCSI Initiator

First, make sure that the iSCSI initiator is installed on the machine. On Windows Vista, it is installed by default; however, other Windows systems require downloading and manual installation. With iSCSI Initiator, Users may connect to the iSCSI device and access a great deal of information and configuration options.

1. Click iSCSI Initiator icon

2. Select the **Discovery** tab.

3. Click **Add** and enter **IP address or DNS name** and **Port number** for the Target Portal on which you would like to log.

4. If your Target Portal requires Chap for authentication, click **Advanced**. Then select the **Chap logon information** option and enter the **Target secret**. Click **OK** twice to return to the iSCSI Initiator Properties dialog.

5. Verify the **Target Portals** properties displayed on the Discovery tab.

6. Select the **Targets** tab to view a list of available targets on which you can log. Note that the **Status** for these targets is shown as **Inactive** prior to login.

Tip

a. If targets are not listed in the Targets tab, you can verify discovery and successful login by repeating Steps 3 through 6.

b. If successfully log into the Target portal but the target is still not listed,

verify that the target has Logical Unit Numbers (LUNs) assigned to the

server. c. If the target is still not listed, check the System Event Log for errors, resolve any issues noted in the log, and repeat Steps 2 through 5 to log on to the Target Portal.

- 7. Select the target that you want to log on to and click Log On.
- 8. Click **Advanced** and enter username and password of the iSCSI target.
- 9. Verify that your target indicates "Connected" in the Status column.

4.11.2.2 Export PXE Image

If want to export the PXE image to restore system without using a Bootable



0	Total Backup Recovery 10.10 Server	_ 🗆 🗙
File Tools Settings Help		
🔊 🚳 🍣 🚳		
Client List	Export PXE Image	
	Specify the destination path to save the PXE image	
Restore	C:\Users\test\Desktop	Goto
With Edgs	Name	
	Pesktop Wy Documents My Computer My Network Places My Documents Backup201505312211(20150531)	
Total Backup Recovery °		Next Cancel

4.11.2.3 Check Image Integrity

Looking up Check Image Integrity, please refer to 4.10.5

4.11.2.4 Convert a Disk Backup to Virtual Disk Format

0	Total Backup Recovery 10.10 Server – 🗖		_ 🗆 🗙
File Tools Settings Help			
🔊 🔮 🍣 🍛	<i>i</i>		FARSTONE [®]
Client List	Convert Backup to Virt	ual Disk	
□	Select a virtual machine type. VMware Virtual Disk(.vmdk)	O Microsoft Virtual Disk(.vhd)	
🧞 View Logs	Please select a disk image file.		
	C:\Users\test\Desktop		Goto
	Name		
	·		
Total Backup Recovery °			Next Cancel

After converting the complete backup image as *.vmdk or *.vhd format, you can conveniently load it as a new hard disk on a virtual machine or Microsoft virtual machine. Once completed, all data on the original hard disk will be available.

2	Тір
	If you did not install VMware Virtual Disk Development Kits, this
	function shall be disabled by default. You can visit the provided link to
	download VMDK.

1. Select the virtual machine type you want to convert to: **VMware Virtual Disk** or **Microsoft Virtual Disk**.

2. Enter storage path of the backup image and click **Go to.** You may also select it locally or remotely, and click **Next.**

3. Select a complete backup image or an incremental backup image, and click **Next**.

- 4. Select to convert a single partition or an entire hard drive, and click **Next**.
- 5. Select a local path to save the conversion backup.



Note

Only local path is accepted for VMware conversion due to VDDK limitation.

6. Confirm all information of this conversion. Click **Next** to launch the conversion process.

7. Click **Finish** to return to the main console when the process completes.

4.11.2.5 Create a Self-Bootable Rescue Media

Looking up create a self-bootable rescue media, please refer to 4.10.3

4.11.3 Settings Menu

Click **Settings** in the menu column to do advanced settings and enable recovery manager.



4.11.3.1 Advanced Settings

)	Total Backup Recovery 10.10 Server	r	
Advanced Settings			
Offsite Copy			^
Enable offsite copy			
E-mail Notifications			
Email account			
Please enter an e-mail account t	o receive notifications of backup and restore	e operations.	
Receiver E-mail address:		Add More E-mail	
Sender E-mail Address:]	
Sender Mail Server Settings			
Outgoing mail server (SMTP):]	
Port:	25]	
Type of encrypted connection			
None 🗸			
Authentication			
SMTP authentication			~
		ОК	ancel

Click **Settings** to set advanced settings.

1. **Offsite Copy**: Backing up your data to an offsite location.

It is recommended to enable Offsite Copying as it would greatly reduce the risk of data loss

(1) FTP connection: Enter the Default FTP address and Port.

As to user name and password, you can choose to enter the **Default username** and **Default password**, or select **Anonymous** if the FTP server is shared to all users in the network.

(2) Data connection type: PASV or PORT.

(3) Failed in ftp backup: Enter Retry attempts (Maximum of 100 times), and interval between retries (Maximum of 600s).

(4) **Restore Defaults**: Clear all FTP settings.



Тір

This feature only supports local image files. If want to use image file on the network or disc, you should save it in local computer first.

The entire FTP upload process executes in background. If program fails to upload backup data onto FTP server, it will be recorded in logs that can be verified through View Logs. If failed, Total Backup Recovery Server will retry three times automatically on the next startup.

2. **E-mail Notifications**: By configuring below settings, Total Backup Recovery Server will send an E-mail to your specified E-mail account after the backup is completed.

E-mail account: Enter preferred E-mail address.

Add more : you can add multiple Email accounts according to your requirements.

Server settings: Enter outgoing mail server and port.

Type of encrypted connection: None or SSL.

Authentication settings: you can choose to enter SMTP authentication or skip this step.

Send test e-mail: Click here to test proper setting functionality. Specify the events for which you would like to receive notification via E-mail regarding the backup operation.

Click **OK** to confirm all settings, and then you will return to the main console.

4.11.3.2 Recovery Manager

Looking up recovery manager, please refer to 4.10.4

4.11.4 Help Menu

The **Help** menu have license, register activate, get technical support and other options available.

Help	F1
Home page	Ctrl+H
Technical Support	Ctrl+Alt+T
Obtain License	Alt+O
Register Activate	Alt+R
Updates Promotion	ns Alt+U
About	Ctrl+Alt+A

Chapter 5: Recovery Manager

5.1 Enter Recovery Manager

You can enter Recovery Manager via following means: Rescue Media (CD/DVD, USB drive & USB key) or Windows Boot Menu.

5.1.1 Boot from a Bootable Rescue Media

1. Insert the Bootable Rescue Media and restart your computer, and then enter BIOS to set CD/DVD-ROM as first boot device.

2. After entering Recovery Manager main console, you can backup and restore the computer, clone a hard disk, and run many other powerful functions.

5.1.2 Boot from USB Device

With a USB device (USB hard drive or USB key), you can restore the entire system from Recovery Manager environment:

1. Connect the USB device. Start your computer, enter BIOS and set the USB device as first bootable option, then save your settings.
2. Restart system and boot from USB device.

5.1.3 Boot from the Boot Menu

Once a backup completed successfully in Windows, click enable recovery

manager icon store to add recovery manager into boot menu, thus your computer can be recovered at boot item before the operating system starts.



In the process of starting computer, press **Up/Down** Arrow Keys to enter recovery manager.

5.2 Recovery Manager Main Console

After entering Recovery Manager, you will see following window.

Sear Stone®	Recovery Manager	×
		About
Main Restore	Restore Computer Restore entire disk/volume from a backup.	Backup System Backup computer(disk image).
	Tools	
	Add Driver	Open Command Shell Window
	Check Image Integrity	Set Bootable Hard Disk for UEFI/EFI Motherbord
	Network Adapter Configuration	Open Disk Management
	Map Network Drive	Open Explorer

5.2.1 Quick Start

Restore Computer: Click here to restore computer from a backup image.

Backup System: Click here to back up the entire computer.

Add Driver: Click here to install a third party driver if Total Backup Recovery Server cannot detect a compatible one for the application you need.

Open Command Shell Window: Click here to create and edit batch files (also called scripts) to automate routine tasks.

Check Image Integrity: Click here to check if the backup data in your backup image file are valid.

Set Bootable Hard Disk for UEFI/EFI Motherboard: Click here to make target hard disk bootable.

Network Adapter Configuration: Click here to configure the IP Address Settings and DNS Server Settings.

Open Disk Management: Click here to manage disk storage systems.

Map Network Drive: Click here to use the network folder as a local.

Open Explorer: Click here to browse all the files and folders on your computer without booting into operating system.

5.2.2 Restore Computer

1. Click **Restore Computer** and you will enter following interface.

C FARSTON	🖉 Recovery Manager 🔭	×
		<u>About</u>
Main	Restore Computer	
Restore	RESET my ENTIRE computer	
	Restore everything on your computer, including Windows, applications, settings and personal files. All data on the current hard drive will be reverted back to the date of backup.	
	Restore from	Browse
	Next	Cancel

2. Default restoration is to restore the entire system. Please select a backup image to restore from, and click **Next** once confirmed.

3. Select a restoration source and destination disk, click **Next** to continue.

4. Check **Rapid Restore** if needed, and click **Next** after confirming restoration information.

5. The destination partition/disk shall be formatted, click Yes to start

restoration.

6. Hit **Finish** to finish restoration.

5.2.3 Dissimilar Restore

1. Click **Restore Computer** and you will enter following interface.

Secovery Manager	×
	About
Main Restore Computer	
Restore RESET my ENTIRE computer	
Restore everything on your computer, including Windows, applications, setting and personal files. All data on the current hard drive will be reverted back to th date of backup.	s
Restore from	Browse
N	ext Cancel

2. Default restoration is to restore the entire system. Please select a backup image to restore from, and click **Next** once confirmed.

- 3. Select a restoration source and destination disk, click **Next** to continue.
- 4. Check **Dissimilar Restore** and click Next to continue.



5. The destination partition/disk shall be formatted, click **Yes** to start restoration.

6. Hit **Finish** to finish restoration.

Here are some suggestions if the Dissimilar Restore failed:

1. Make sure you have added a corresponding driver (last step in Dissimilar Restore);

2. Use a similar PC (disk and motherboard with the same model) to try again, or install corresponding target storage drivers into the source computer before backup;

There are three types of Dissimilar Restore (UEFI):

1. Restore MBR image to partition or disk based to an UEFI. After restoration, the target computer can boot normally.

2. Restore GPT format (UEFI based) image to partition or disk based on another UEFI. You may not boot target computer directly. Please set this hard drive to be bootable in **Set Bootable Hard Disk for UEFI/EFI Motherboard** tab.

3. GPT type (UEFI-based) image to MBR partition/disk is not supported.

5.2.4 Backup System

1. Click **Backup System** and you will enter following interface.

Main	Backup System				
store	Backup Type Partition	Capacity	Used Size	Status	Type
	- VMware Virtual S	40.00 G	16.87 G	Active, System	1700
	Local Disk(C:)	40.00 G	16.87 G	System, Active	NTFS
	E	60.00 G	14.45 G	System	
	Local Disk(E:)	60.00 G	14.45 G	System	NTFS
	Destination				Browse
					Browse

2. **Backup Type**: choose to back up system partition or the entire system hard drive.

3. **Destination**: click **Browse** to locate a backup destination path. You can add more than one backup destinations such as local path or network path.

Enter the storage path and click **OK**. Or select a destination on a hard drive, an USB storage medium, or a network location

4. **Advanced Settings**: choose compression mode and set password protection here.

Choose the Compression Mode, None, Low and High mode are available. Backing up without compression takes the shortest time to complete. High compression requires the longest time to complete, but it reduces the demand on disk space.

Password Protection: check it to enable password protection, and then click **Set Password** to set a password for backup images.

Image Splitting: You can set a limit for image file size. Once this value is reached, a new image file will be created and the operation will continue.

Backup Priority: set backup priority as None, Low or High as you need.

- 5. Click **Next** to launch the backup task.
- 6. Click **Finish** to complete backup.

5.2.5 Add Driver

If Total Backup Recovery Server cannot detect a compatible or available driver for the application you needed, please install and add a third party driver manually.

1. Click Add Driver icon



Look in:	📕 System32	🔄 G 😰 🖻 🛄 -
2	Name 🔺	↓ Date modified ↓ Type
2	0409	7/13/2009 7:03 PM File folder
cent Places	AdvancedInstallers	7/13/2009 6:33 PM File folder
	퉲 ar-SA	7/13/2009 6:33 PM File folder
	🍌 bg-BG	7/13/2009 6:33 PM File folder
Libraries	📕 Boot	7/13/2009 7:03 PM File folder
-	atroot 🔒	7/13/2009 6:36 PM File folder
	Latroot2	7/13/2009 6:33 PM File folder
Computer	CodeIntegrity	7/13/2009 6:33 PM File folder
comparei	Com	11/3/2014 11:54 File folder
	l config	7/13/2009 7:01 PM File folder
	cs-CZ	7/13/2009 6:33 PM File folder
	📕 da-DK	7/13/2009 6:33 PM File folder
	de-DE	7/13/2009 6:33 PM File folder
	Jism 🔒	7/13/2009 7:03 PM File folder
	drivers	11/3/2014 11:55 File folder
	•	
	File name:	✓ Open

3. Click **OK**.

The added driver(s) will now work with the matched applications.

5.2.6 Open Command Shell Window

This tool executes programs and displays their output on the screen by using individual characters similar to the MS-DOS command interpreter Command.com. You can use it to create and edit batch files (also called scripts) and to automate routine tasks; you can perform operations more efficiently by using batch files.

- 1. Click run command prompt icon
- 2. Put in command in the pop-up window and press **Enter** key.



3. Type exit and press **Enter** key to return to main console.

5.2.7 Check Image Integrity

Looking up Check Image Integrity, please refer to 4.10.5

5.2.8 Set Bootable Hard Disk for UEFI Motherboard

For dissimilar restore, run this tool to make target hard disk bootable.



1. Click Set Bootable Hard Disk for UEFI Motherboard icon

2. Choose an UEFI-based hard drive in the dropdown menu to make it bootable, click **Set** to make it bootable.

5.2.9 Network Adapter Configuration

Total Backup Recovery Server can back up to, or restore from a network location. To use this feature, you should first configure the network settings. From here, you can configure the **IP Address Settings** and **DNS Server Settings**.



Natural Adventures Tettal/03.0	D.O. (1000 M	Thiskus	de Canada		
Network Adapters: Jintel(K) P	'RO/1000 M	i netwo	rk Conne	cuon	-
IP Address					
Obtain an IP address at	utomatically				
C Use the following IP ad	dress:				
IP Address:		18	4		
Subnet Mask:		- 10	3		
Default Gateway:	×	- 0	×		
DNS Server					
 Obtain DNS server addr 	ess automa	tically			
$\mathbb C$ Use the following DNS s	erver addre	ss:			
Preferred:		- Ç	•		
Aller and an			4	_	

You can setup the network adapter, IP address, Subnet mask and Default gateway from here.

If you have more than one network adapter on your system, please select an adapter to be used from dropdown menu.

IP Address Settings:

Obtain an IP address automatically: If your network supports DHCP (Dynamic Host Configuration Protocol), this option will obtain an IP address automatically from a DHCP server or a Point-to-Point Protocol (PPP) dial-up network access server. Total Backup Recovery Server Client sets DHCP as the default option.

IP address:

Manually specify an IP address for your network. This option should be used once obtaining an IP address fails or if there is an IP address conflict.

If your computer is on a Local Area Network (LAN), please configure the LAN settings to back up images to or restore from a network location.

DNS Server Settings:

Obtain a DNS server address automatically: DNS (Domain Name System) is an internet service that translates domain names into IP addresses. It is a system for name resolution, suitable for network computers with fixed IP addresses. Total Backup Recovery Server sets DHCP as the default option.

Use the following DNS server address: Manually specify the DNS server address if needed. You can enter a preferred one and an alternative one (if the former one becomes unavailable).

5.2.10 Open Disk Management

This is a disk tools for dividing or formatting a hard drive/partitions, assigning partition letter, view disk information, modifying partitions and so on.

5.2.11 Map Network Drive

Total Backup Recovery Server allows you to treat network folder as local, and you can assign a drive letter to it. By doing so, you can access the image files in that folder directly.

After the network resource is connected successfully, you can access all data in it as if they were in a local computer.

1. Click Map Network Drive.

2. Select a drive letter from the drop-down list to map the shared resource.

3. Enter computer share name of the resource in this format: **\\Server** name\share name.

4. Click Save.

5. In the User name and password dialogue box, type your user name in this format: **domain name\username.** Enter password if prompted.

Note

All mapped drive(s) will be removed if you reboot or shut down this computer.

5.2.12 Open Explorer

In this section, you can check all files and folders on your computer without booting into the operating system.



manipulate the files and folders.

Chapter 6: The Admin Console

To launch the Admin Console, double-click the **Total Backup Recovery 10 Console** icon on your desktop, or select **Start - All Programs - FarStone Total Backup Recovery - Total Backup Recovery 10 Console**.

6.1 Main Console



6.1.1 Quick Start

Manage Single Computer: Click this to connect to a remote client computer by entering its user name and password.

Manage Multiple Computers: Click this to allow all computers in a computer group to run backup jobs together.

6.1.1.1 Manage Single Computer

If choose Manage Single Computer, you will see following interface.

0	Total Backu	up Recovery 10.10 Admin Console	×
1	Manage Single (Computer	
I	(nput Computer Name/I	P Address.	
(Computer:		Browse
	User Name:		
	Password:		
		Save Password	
		OK	Cancel

Enter computer name or IP address, or click **Browse** to add one computer listed to connect.

Once the computer to be connected was selected, please type its user name and password.

Click **OK** to continue.

0	Total Ba	ackup Recovery 10.10 Admin Console Connected To The WIN-GJJJ2V2EGLL Machine	- 🗆 🗙
File Settings Help			
چ 🍣			RSTONE [®] Backup Recovery
Client List	5	Welcome to use:DAVID-T	
B-0€ WORKGROUP B-S CARL-PC(Offlin 8-S WIN-GJJ2V2E	e) GLL(Ready	Back Up Restore Choose the Disk/Volume(s) to backup. Restore an entire Disk/Volume backup.	e or files from a
		Recent log:	
		Display View All • events in recent 30 days	
٢	>	Type Log Time Log Information ii) 8/4/2015 9:00:22 PM Restore files of job HyperV201508041925 successfully. ii) 8/4/2015 8:39:17 PM Begin disk image HyperV201508041925 restoration. ii) 8/4/2015 8:39:17 PM Begin disk image HyperV201508041925 restoration. iii) 8/4/2015 8:29:04 PM Backup job HyperV201508041925 (Now) was completed successfull iiii) 8/4/2015 7:50:49 PM Backup job (HyperV201508041925) was started iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	
Total Backup Recov	/ery °		

You can run backup and restoration in that computer once it was added successfully.

Backup: Manually select back up disk/volume/file and back up to VMware/ Hyper-v at set intervals.

Restore: Recover disk/volume/file(s) from a previous image.

Task List: View details of previous jobs, and run incremental backup for an existing job.

View Logs: View log information of backup, restore and other types.

6.1.1.2 Manage Multiple Computers

If select Manage Multiple Computers, you will see following interface.

<u>о</u> т	otal Backup Recovery 10.10 Admin Consc	le Connected To The	WIN-GJJJ2V2EGLL Ma	chine – 🗆 🗙
File Settings Help				
, 🌍 🌭 🗟	<i>₽ ₽</i>			FARSTONE [®]
Client List	Back Up Computer(s)			
	Please select the computer(s) to be	included in this job.		
	Name	IP	Connection State	Authorization Status
		172.16.0.12	(Ready)	Registered
	Select All Deselect All			
Total Backup Recover	y°			Next Cancel

Operating Admin Console for the first time, a box will pop up to remind you of setting a default backup shared folder after choosing a management option.

	Total Backup Recovery 10.10 Admin Console	×
0	A default shared folder has not been configured. Specify a shared folder by clicking the "YES" button below. You'll need to create or locate a network share that allows full Read and Write permissions for all network clients. This share has to be created within Windows and not from the Total Backup Recovery Admin Console.	
	Yes No	

Click **Yes** to set it.

6.1.2 Group Jobs

After a Complete Backup is created, you can perform following functions by clicking **Group Jobs**.

Backup Now: Click here to run the backup immediately.

Edit Schedule: Change the schedule settings for the clients in this group job.

Offsite Copy: Set the remote FTP server to save the backup image.

Advanced: Receive the backup reports from Total Backup Recovery to your specified email address. Choose to execute operations before or after the backup. Users may select to perform the operations **before the command's execution is complete**; or **if the command's execution fails**, you can select to perform the operations after the command's execution is complete.

Resend Job: Select the Client Module(s) and resend accidentally deleted jobs back to the selected one(s).

Delete All: Delete all jobs.

6.1.3 Group Logs

This feature displays all of the Total Backup Recovery events, including warnings, errors, and operations. You can double-click any event log to view its detail.

6.1.4 Client List

To make any computer on the network under control, click on **Manage Single Computer** to enter the computer name/ the IP address, or click **Browse** to search the client computer through the network. And then click **OK** to access it.

Each Client is represented by an icon showing its Connection status, along with its IP address.

Connection Status: each client's accessibility will be indicated as follows:

• **Ready**: the client is online and the Remote Console can manage this client.

• **Inaccessible**: the client is online, but the Remote Console cannot control the client.

• Offline: the client is not connected to the Admin Console currently.

Properties: Right-click on a client and select **Properties** to view client details like the computer name, workgroup, IP address, and connection status.

6.2 Back up Single Client

Total Backup Recovery backs up partitions or an entire hard drive as an image file, which can be used to restore a system. The image file can be saved on a local hard drive or network share. It supports file systems like FAT16, FAT32, and NTFS, and data compression of up to 60%.

6.2.1 Backup Disk/Volumes

1. Launch the Admin Console.

2. Click Manage Single Computer to add one client needs backup.

3. Click **Backup Now** under **Backup Disk/Volume(s)** to launch the job.

4. Modify job name, the default job name is created according to the date and time you create this job.

5. Select the **Disk** or **Volume** that you would like to back up.

6. **Destination**: you need to choose a destination to save backup image.You can add more than one backup destinations such as local path or network path.

Enter the storage path and click **OK**. Or select a destination on a hard drive, an USB storage medium, or a network location

Click **Backup Destination** to choose a storage path.

Store in a network share: Select a computer from the displayed list and enter a user name and password.

Store locally on the client computer: Follow the given example to enter a storage path for your disk backup.

7. **Schedule**: please refer to <u>4.5</u>

8. Advanced: please refer to 4.6

9. **Exclude**: exclude the unnecessary files from backup image.

10. Review your information and settings. Click **Next** to launch the backup process. Click **Task List** to monitor the backup progress.

To avoid backup job in client disturb (slow the speed or fail to backup) backup schedule in Admin Console, please choose to disable client UI.



11. Click **Finish** to return to the main console.

6.2.2 Backup Files

- 1. Launch the Admin Console.
- 2. Click Manage Single Computer to add one client needs backup.

3. Click **Backup Now** under **Backup File(s)** to launch the job. There will be an interface popup for you to select files to be backed up.



Select the file(s) you want to back up. You can also click **Add Files/Folders** or **Add New Type** to add file type, folder or individual file to back up according to your preference. Click **Next** to continue.

Add Files/Folders: Click this to select the files or folders you want to add from Windows[®] Explorer.

Add New Type: Click this to enter the Select File Types interface, as shown below.

a. Click **Delete Type** to remove file types you don't want to back up.

b. Click **Add New Type** to add new file type into the backup list. You will need to enter a file type extension and a description. Or click **Add Group** to create a new file type group. You will need to enter a group name.

4. Modify job name, the default job name is created according to the date and time you create this job.

5. Click **Backup Destination** to choose a storage path. You can add more than one backup destinations such as local path or network path.

Enter the storage path and click **OK**. Or select a destination on a hard drive, an USB storage medium, or a network location

Store in a network share: Select a computer from the displayed list and enter a user name and password.

Store locally on the client computer: Follow the given example to enter a storage path for your file backup.

- 6. **Schedule**: please refer to <u>4.5</u>
- 7. Advanced: please refer to 4.6

8. **Exclude**: exclude the unnecessary files from backup image.

9. Review your information and settings. Click **Next** to launch the backup process. Click **Task List** to monitor the backup progress.

To avoid backup job in client disturb (slow the speed or fail to backup) backup schedule in Admin Console, please choose to disable client UI.



10. Click **Finish** to return to the main console.

6.2.3 Backup to VMware

Looking up Backup to VMware, please refer to 4.3.3

6.2.4 Backup to Hyper-v

Looking up Backup to Hyper-v, please refer to 4.3.4

6.2.5 Backup Hyper-V VM

Looking up Backup Hyper-V VM, please refer to 4.3.5

6.3 Back up Multiple Clients

- 1. Launch the Admin Console.
- 2. Click Manage Multiple Computers.
- 3. Check computers to be included in this job, and click **Next** thereafter.





Note

The computers to be included in this backup job shall all be Ready (Connection State) for operations.

4. Modify job name, the default job name is created according to the date and time you create this job.

5. Choose to back up System Partition/Entire hard drive/file on your own needs.

6. **Destination**: you need to choose a destination to save backup image. Click **Backup Destination** to choose a storage path.

Store in a network share: Select a computer from the displayed list and enter a user name and password.

Store locally on the client computer: Follow the given example to enter a storage path for your backup.

- 7. **Schedule**: please refer to <u>4.5</u>
- 8. **Advanced**: refer to <u>4.6</u>.

9. Review your information and settings. Click **Next** to launch the backup process. Click **Task List** to monitor the backup progress.

To avoid backup job in client disturb (slow the speed or fail to backup) backup schedule in Admin Console, please choose to disable client UI.



10. Click **Finish** to return to the main console.

6.4 Restore Clients

The restoration option is only available for **Managing Single Computer**. Total Backup Recovery can restore the connected client's system from an existing image file partition(s) or from an entire hard drive. The image file can be stored on a local hard drive or a shared network.

To restore disk/volume or files on a client computer, please launch Admin Console, and then click **Manage Single Computer** to add one client needs restored.

For subsequent operations, please refer to 4.4

6.5 Tools Tab

6.5.1 Convert Backup to Virtual Disk

Looking up Convert Backup to Virtual Disk, please refer to 4.11.2.4

6.5.2 Create a Bootable Rescue Media

Looking up Create a Bootable Rescue Media, please refer to 4.10.3

6.5.2.1 Change boot sequence in the BIOS

Boot from Rescue CD or Rescue USB device

By changing the boot sequence your computer will be able to boot from a CD/DVD drive, an USB flash key, or even from the network.

Step1: Enter BIOS setup utility.

Press a certain key or combination of keys (**Del, F1, F2, Esc, Ctrl+Alt+Esc, Ctrl+Esc**, or others) during computer boot up.

Step 2: On the BIOS screen, select Boot feature or something like Advanced

BIOS, First Boot Device, Boot Order, Boot Management, Boot Sequence, etc. You will have a BIOS that looks like this:

	PhoenixBIOS Setup Utility							
Main	Advanced	Security	Power	Boot	Exit			
CD.	DOM Durium				Item Specific Help			
+Rer +Har Net	-Kun Drive novable Devices nd Drive twork boot				Keys used to view or configure devices: <enter> expands or collapses devices with a + or - <ctrl+enter> expands all <shift +="" 1=""> enables or disables a device. <+> and <-> moves the device up or down. <n> May move removable device between Hard Disk or Removable Disk <d> Remove a device that is not installed.</d></n></shift></ctrl+enter></enter>			
F1 He Esc Exi	lp 14 Select it ↔ Select	Item -/+ Menu Enter	Change U Select ►	alues Sub-Me	F9 Setup Defaults mu F10 Save and Exit			

The instructions for changing the boot order are in the sidebar, but usually it requires pressing the + or – buttons to move items up and down in the order list. The first item in the list is what will be scanned first when booting. If boot media is not found, it will try the second device and so on.

Finally, go to Exit and make sure you choose **Yes** to the **Save configuration** changes and exit now.

6.5.2.2 Change boot sequence in the UEFI BIOS

Boot from Rescue USB device

Step 1: Enter UEFI BIOS setup utility.

Press a certain key or combination of keys (**Del, F1, F2**, or others) during computer boot up.

Step 2: On the UEFI BIOS screen, select Boot or something like Boot Priority, Advanced BIOS, First Boot Device, Boot Order, Boot Management, Boot Sequence, etc. You will have a UEFI BIOS that looks like this:

ISUS EFI BIOS Util	ily - EZ Mod	e		1 m	_	9	總尚/高級要求	٤
18:89	P8P67 P80 BIDS版本 I 040 处理备共型 I 2 总内容 I 4056	02 Intel(R) HB (DOR:	Core(TH) 15- 1 1333HHz)	2500K CPU 4	3.30GHz j	■1立日期 : 1 創成 : 3300)	唐件中文 0/27/2010 942	
l'az	* 46							
040 +116.6 F7441.0 C	00	1.2087	sv	5.200V	CPU_FAN	1336RPH	HR.FM	8/6
±. +67.6*F/+32.0*C	3.3V	3.4087	12V	12.288V	CHA_FAN1	N/A (CHA_FAK2	
G. 系统性能								
ян ни 🗡 .	TR	-#	(-)				(-);	-
し、自动戦争								
1					1	2		
使用象标拖先或键盘操作未决。	2开机机中							
					自由	RAL(ra)	MKK (PS)	

You can click **Boot option #1** through keyboard or mouse; select the first boot device you want to set. Or as the window above shows, drag the UEFI-based USB to the first place to be the first bootable device. The first item in the list or the UEFI-based USB in the first place is what will be scanned first when booting. If boot media is not found, it will try the second device and so on.

Finally, go to Exit and make sure you choose **Save Changes & Reset**.

6.5.3 Export PXE Image

Looking up Export PXE Image, please refer to 4.11.2.2

6.5.4 Check Image Integrity

Looking up Checking Image Integrity, please refer to 4.10.5

6.5.5 iSCSI Initiator

Looking up iSCSI Initiator, please refer to 4.11.2.1

6.6 File Menu

Export Settings: export all group settings in *.fsb format and save it for later reference.

Import Settings: import group settings in *.fsb format into the program.

6.7 Settings Menu

Settings: configure some system options.

3	Total Backup Recovery 10.10 Admin Console
\$	Settings
	Default Backup Location
	Please enter your network share path for the default backup location in the following text box.
	Browse
	Log Size
	Maximum size of log file: 50 MB
	Deactivate Clients
	Disconnect clients if they haven't been activated for 7 Day(s).
	Global Accounts
	User Name: Password:
	Please enter the Administrator account for client authentication. All clients will be authenticated through this default account when login into the Total Backup Recovery Administration Console for the first time.
	Broadcast
	Broadcast On Turn Off
	Turning on the Broadcast allows all clients to connect to this Console automatically. Otherwise, you will need to specify the IP address manually. Modifications will take effect from next startup.
	OK Cancel

Default Backup Location

1. Click **Browse** to change the default backup location.

2. Select a computer from the list.

3. If required, enter a valid user name and password, and then click **OK**.

4. Select an existing folder or create a new subfolder by typing the new folder name, and then click **Create New folder**.

5. Click **OK** to accept the new setting.

Log Size: specify the maximum size of the log file.

Deactivate Clients: remove inactive clients from the client list according to your setting.

Global Account: enter an administrator account as the default authentication account.

Broadcast: enable/disable the Broadcast functionality. If there is more than one Admin Console in the LAN, you must disable the broadcast and manually connect the Client Module by clicking **Manage Single Computer**.

Chapter 7: Glossary

Total Backup Recovery Server Image

A Total Backup Recovery Server image is a file containing a complete copy of a computer's hard drive or partitions on that hard drive. With this image, you can transfer the contents of a hard drive to a portable medium such as a recordable CD/DVD, USB drive, another hard drive, and SSD, for later restoration when needed.

Recovery CD/DVD

The Recovery CD/DVD allows users to restore their system by inserting this disc into their CD/DVD-ROM drive. Once the system is booted up, the Recovery CD/DVD will

restore the system automatically based on the content contained on the Recovery CD/DVD.

Clone (Copy) Partition/Drive

The term "cloning" refers to the physical reading of all sectors of a source partition/ disk and the subsequent writing of this raw sector information to the corresponding sectors of a destination partition or disk. The size, file system formats, brand of the source partition/disk and target partition/disk can be different.

System Partition

The system partition refers to the disk volume that contains the hardware-specific files that are needed to launch Windows (for example: Ntldr, Boot.ini, and Ntdetect.com). On dynamic disks, this is known as the system volume.

Boot Partition

The boot partition refers to the disk volume that contains the Windows operating system files (by default, in the WINDOWS folder) and its support files (by default in the WINDOWS\System32 folder). The boot partition can, but is not required, to be the same partition as the system partition. There will be one (and only one) system partition, but there will be one boot partition for each operating system in a multi-boot system. On dynamic disks, this is known as the boot volume.

Dissimilar Restore

Dissimilar Restore allows you to restore your system partition and active partitions to different hardware configurations or virtual machines, such as a replaced motherboard or hard drive controller.