

A-Click Backup Manager v7 Microsoft System Backup and Restore Guide

Ahsay Systems Corporation Limited

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Revision History

Date	Descriptions	Type of modification
28 Jul 2016	First Draft	New
3 Feb 2017	Added instructions and screen shots for Encryption key handling in Ch. 5.1	New
5 Apr 2017	Added Encryption Type option in Ch. 5.1 Create a MS Windows System Backup Set.	New
3 Nov 2017	Updated screen shot for Ch5.1	Modified

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Introduction

The MS Windows System Backup module of AhsayACB provides you with a set of tools to protect your personal computers on Windows operating system platforms.

This includes an image-based / bare-metal backup feature, that leverages Microsoft's native Wbadmin command-line tool (<u>http://go.microsoft.com/fwlink/?LinkId=140216</u>), and recovery feature, to ensure that your computers are protected even if they are lost or destroyed entirely. The image can be recovered onto a new device if necessary.

Overview

This document contains information that are essential for understanding the MS Windows System backup and recovery process:

- 1. Requirement and Limitation
- 2. Best Practice and Recommendation
- 3. <u>Restore Consideration</u>
- 4. Starting AhsayACB
- 5. Configuring a MS Windows System Backup Set
- 6. Overview on the Backup Process
- 7. Running a Backup
- 8. Restore with a MS Windows System Backup Set

1 Requirements and Limitations

1.1 Hardware Requirement

Refer to the following article for the list of hardware requirements for AhsayACB: <u>FAQ: Ahsay</u> <u>Hardware Requirement List (HRL) for version 7.3 or above</u>

1.2 Software Requirement

Refer to the following article for the list of compatible Windows operating systems platforms: FAQ: Ahsay Software Compatibility List (SCL) for version 7.3 or above

1.3 Other Requirements and Limitations

Ensure that the following requirements are met:

AhsayACB Installation

Make sure that AhsayACB is installed on the computer to be backed up.

• Add-on Module Requirement

Make sure that the Windows System Backup add-on module is enabled for your AhsayACB user account. Contact your backup service provider for more details.

Backup Quota Requirement

Make sure that your AhsayACB user account has sufficient backup storage quota assigned to accommodate the storage for the system backup. Contact your backup service provider for details.

Latest Service Packs from Microsoft

Ensure that you have the latest service packs installed.

Updates to the Windows operating system improve its performance and resolve known issues with Windows Server Backup.

Temporary Storage Location

Make sure that the storage location configure for the system image is set to a supported location.

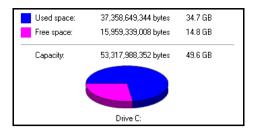
Refer to the following KB article for details on the restriction: https://forum.ahsay.com/viewtopic.php?f=196&t=16301

Disk Space Available in Temporary Storage Location

Make sure that there are sufficient disk spaces available in the storage location for the backup set.

For a system backup, it will typically require disk space of the total used size of all volumes selected for backup.

Note: Used space, not free space of all volumes selected for backup.



• Maximum Supported Disk Size

For Windows Vista / 7, source volumes with size greater than 2 TB (e.g. 2040 GB - 2 MB = 2088958 MB) are not supported.

This limitation is related to the .vhd file size limit.

Note: This limitation does not apply to Windows 8 or newer releases of Windows.

2 Best Practice and Recommendation

Please consider the following recommendations:

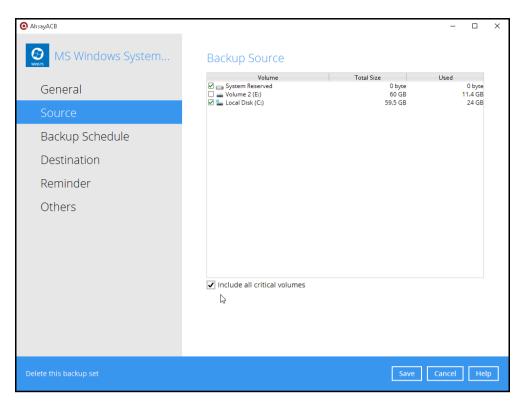
 It is recommended that the latest version of AhsayACB is installed on the computer to be backed up.

User should also stay up-to-date when newer version of AhsayACB is released. To get our latest product and company news through email, please subscribe to our mailing list via http://www.ahsay.com/jsp/en/home/subscribe_mail_list.jsp

 For best performance, It is recommended that the temporary storage location of a MS Windows System backup set is set to a supported local volume, and not to a network volume (e.g. to improve I/O performance).

O AhsayACB	– 🗆 X
MS Windows System	General
General	Name
Source Backup Schedule Destination Reminder Others	MS Windows System Backup Set Owner Win10 Windows System Backup Specify the location where you want to store the system backup Volume 2 (E:) Windows User Authentication Domain Name (e.g Ahsay.com) / Host Name csv2012.local User name Administrator Password ••••••
Delete this backup set	Save Cancel Help

It is highly recommended to enable the Include all critical volumes option to select all critical volumes for backup automatically.



This will ensure that the backup image can be used for full-system / bare-metal recovery.

Memory setting

For best performance, consider to increase the memory allocation setting for AhsayACB (Java heap space)

Refer to the following KB article for further instruction: https://forum.ahsay.com/viewtopic.php?f=206&t=14117

Not a Replacement for File Backup

An image-based / bare-metal backup should never be considered a replacement for a nightly data backup plan.

Firstly, image-based backups do not lend themselves easily to recovery of a single file. The nature of image-based backup requires a complete restore of the system image file, even if you only want to recover a single file.

System Recovery Plan

Consider performing routine system recovery test to ensure your system backup is setup and performed properly. Performing system recovery test can also help identify potential issues or gaps in your system recovery plan.

For best result, it is recommended that you should keep the test as close as possible to a real situation. Often times when a recovery test is to take place, user will plan for the test (e.g. reconfiguring the test environments, restoring certain data in advance). For real recovery situation, you will not get a chance to do that.

It's important that you do not try to make the test easier.

3 Restore Consideration

Please consider the following before performing a restore:

Windows Account Permission

To perform a full-system recovery, the operating system account that you use, must be a member of the Backup Operators or Administrators group.

Disk Size

For recovery of operating system to a new hard disk, ensure that the disk that you restore to is at least the size of the disk that contained the volumes that were backed up, regardless of the size of those volumes within.

For example, if there was only one volume of size 100 GB created on a 1 TB disk during backup, then you should use a disk that is at least 1 TB when recovering.

Caution on Recovery to Dissimilar Hardware

This recovery method requires the restore target system to have similar hardware and the exact same boot type as the source system from which the backup was taken. Disk adapters are especially sensitive. If dissimilar hardware is used, the restored system might not be boot.

For example, if the system backup image was taken from a BIOS-based system, the recovery environment must be booted in BIOS mode.

O BitLocker Drive

For computer with BitLocker Drive Encryption enabled, make sure to re-apply BitLocker Drive Encryption to the volume after a restore.

This will not happen automatically, it must be enabled explicitly.

For instructions, refers to the following: http://go.microsoft.com/fwlink/?LinkID=143722

4 Starting AhsayACB

4.1 Login to AhsayACB

1. Login to the AhsayACB application user interface.

Double click the AhsayACB desktop icon to launch the application.

💽 AhsayACB			-	×
		Englis	ih 🗸	
	Login			
	Login name acb			
	Password Save password			
	Forgot password			
	Show advanced option	ОК		

- 2. Enter the Login name and Password of your AhsayACB account.
- 3. Click **OK** afterward to login to AhsayACB.

5 Configuring a MS Windows System Backup Set

5.1 Create a MS Windows System Backup Set

1. In the AhsayACB main interface, click **Backup Sets**.



- 2. Create a MS Windows System backup set by clicking the "+" icon next to Add new backup set.
- 3. Select **MS Windows System Backup** as the **Backup set type**; then enter a **Name** for your backup set.

AhsayACB		_		\times
	Create Decluse Cat			
	Create Backup Set			
	Name			
	MS Windows System Backup Set			
	Backup set type			
	O MS Windows System Backup 🖌			
	Specify the temporary location for the system backup			
	Local Disk (C:)			
	Next C	ancel	Help	

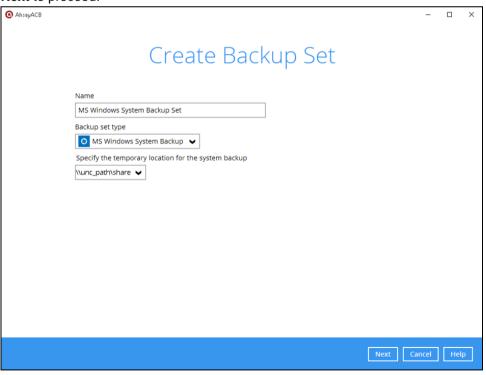
4. Select the location where you would like to store the system image before generating the backup data.

AhsayACB		-		×
Create Backup Set				
Name MS Windows System Backup Set Backup set type MS Windows System Backup ♥ Specify the temporary location for the system backup Local Disk (C:) Volume 2 (E:) ►				
	Next	Cancel	Hel	р

Select a local volume from the dropdown menu. Click **Next** to proceed.

-OR-

Enter the UNC path to a network volume that is accessible to the client computer. Click **Next** to proceed.



Note: Make sure that the storage location configure for the system image is set to a supported location.

Refer to the following KB article for details on the restriction: <u>https://forum.ahsay.com/viewtopic.php?f=196&t=16301</u>

5. In the Backup Source menu, select the volume(s) which you would like to backup.

Enable the **Include all critical volumes** option to select all critical volumes for backup automatically. This will ensure that the backup image can be used for full-system / bare-metal recovery. Click **Next** to proceed.

AhsayACB							-		×
	В	ackup	Sou	rce					
	Volume		Total Size	0 byte 60 GB 59.5 GB	Used	0 byte 16.9 GB 12.5 GB			
	Include all critical volumes								
					Previous	Next	ancel	Hel	р

6. In the Schedule menu, configure a backup schedule for backup job to run automatically at your specified time interval. Click **Add** to add a new schedule, then click **Next** to proceed afterward.

7. In the Destination menu, select a backup destination where the backup data will be stored. Click the "+" icon next to **Add new storage destination / destination pool**.

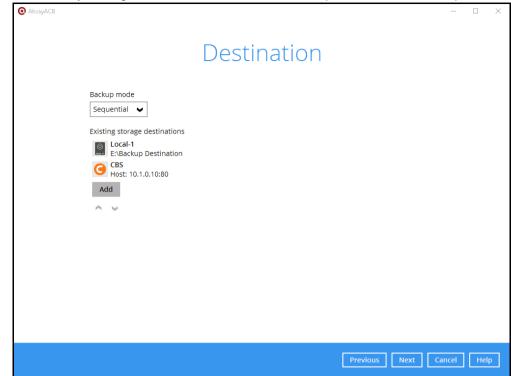
AhsayACB		_		×
	Destination			
	Backup mode Sequential Existing storage destinations Add new storage destination / destination pool			
	Previous Next Ca	ncel	Hel	þ

Note: For more details on Backup Destination, refer to the following KB article for details: <u>https://forum.ahsay.com/viewtopic.php?f=186&t=14049</u>

For more details on configuration of cloud storage as backup destination, refer to the <u>Appendix</u> section in this guide.

New Storage Destination / Destination Pool			
Name			
CBS			
Туре			
 Single storage destination 			
O Destination pool			
Destination storage			
G CBS ✓			
C CBS			
Local / Mapped Drive / Removable Drive			
△ 中国电信天翼云			
Amazon Cloud Drive			
📬 Amazon S3			
🔐 AWS S3 Compatible Cloud Storage			
🚫 Google Cloud Storage 🗸			
ОК	Cancel	Help	n

8. Enter a **Name** for the backup destination, and select the **Type** and **Destination storage**.



9. Continue by adding another destination for the backup set, or click **Next** to proceed.

Note: Multiple backup destinations can be configured for a single backup set.

10. In the Encryption window, the default **Encrypt Backup Data** option is enabled with an encryption key preset by the system which provides the most secure protection.

	Encryption	
Encrypt Backup Data On	3	
Encryption Type		
Default User password Custom		

You can choose from one of the following three Encryption Type options:

- Default an encryption key with 44 alpha numeric characters will be randomly generated by the system
- User password the encryption key will be the same as the login password of your AhsayACB at the time when this backup set is created. Please be reminded that if you change the AhsayACB login password later, the encryption keys of the backup sets previously created with this encryption type will remain unchanged.

Custom – you can customize your encryption key, where you can set your own algorithm, encryption key, method and key length.

En	cryption
Encrypt Backup Data On Encryption Type Custom V Algorithm AES V Encryption key	

Re-enter encryption key	

Method ECB CBC Key length 128-bit 256-bit	

Note: For best practice on managing your encryption key, refer to the following KB article. <u>https://forum.ahsay.com/viewtopic.php?f=169&t=14090</u>

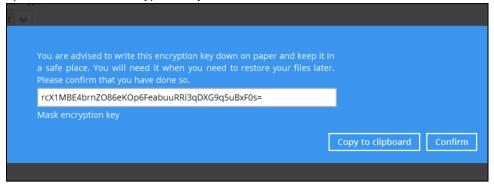
Click Next when you are done setting.

11. If you have enabled the Encryption Key feature in the previous step, the following popup window shows, no matter which encryption type you have selected.

	Encryption	
Encrypt Backup Data On Encryption Type Default		
You are advised to a safe place. You	write this encryption key down on paper and kee will need it when you need to restore your files t you have done so.	
Unmask encryptio	n kev	
		Copy to clipboard Confirm

The pop-up window has the following three options to choose from:

Unmask encryption key – The encryption key is masked by default. Click this option to show the encryption key.



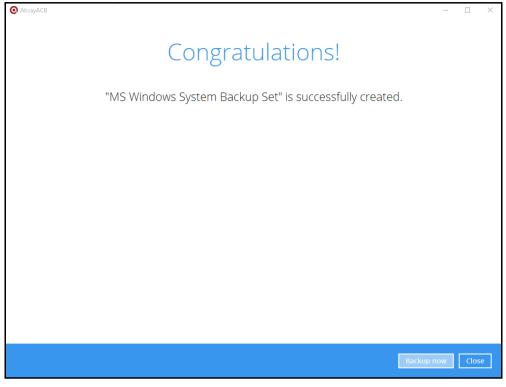
- Copy to clipboard Click to copy the encryption key, then you can paste it in another location of your choice.
- > Confirm Click to exit this pop-up window and proceed to the next step.
- 12. Enter the **Domain Name / Host Name** of the computer, **User Name** and **Password** of the Windows account that will be running the backup.

(C) AhsayACB	Jws account that will be furning the backup.	-		×
	Windows User Authentication			
	Domain Name (e.g Ahsay.com) / Host Name			
	csv2012.local			
	User name			
	Administrator			
	Password			
	•••••			
	Previous Next	Cancel	Help)

Note: This menu will only be displayed if a backup schedule is configured in the previous step.

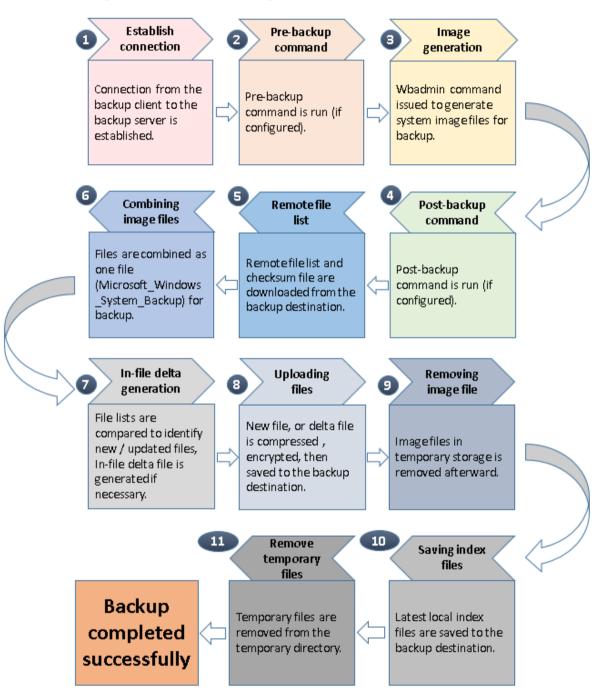
13. Click **Next** to create the backup set.

14. The following screen is displayed when the new MS Windows System backup set is created successfully.



6 Overview on the Backup Process

The following steps are performed during a MS Windows System backup job.



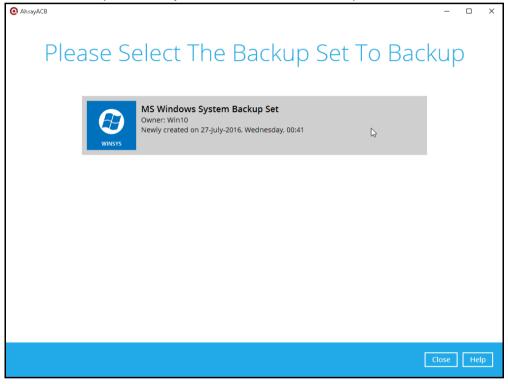
7 Running a Backup

7.1 Start a Manual Backup

1. Click the **Backup** icon on the main interface of AhsayACB.



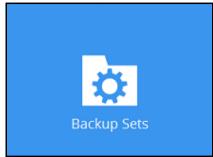
2. Select the backup set which you would like to start a backup for.



- 3. If you would like to modify the In-File Delta type, Destinations and Retention Policy Settings, click **Show advance option**.
- 4. Click **Backup** to start the backup.

7.2 Configure Backup Schedule for Automated Backup

1. Click the Backup Sets icon on the AhsayACB main interface.



- 2. Select the backup set that you want to create a backup schedule for.
- 3. Click **Backup Schedule**, then create a new backup schedule by clicking **Add**.
- 4. Configure the backup schedule settings, then click **OK** to proceed.
- 5. Click **Save** to confirm your settings.

8 Restore with a MS Windows System Backup Set

8.1 Login to AhsayACB

Login to the AhsayACB application according to the instruction provided in the chapter on <u>Starting AhsayACB</u>.

8.2 Restore the System Image

1. Click the **Restore** icon on the main interface of AhsayACB.



2. Select the backup set that you would like to restore the system image from.

AhsayACB	· · · · ·		- 🗆 X
Please	Select The Backup	o Set To Rest	ore
	MS Windows System Backup Set Owner: Win10 Last Backup: 27-July-2016, Wednesday, 04:06	Ç₃	
		[Close Help

3. Select the backup destination that contains the system image that you would like to restore.

O AhsayACB		- 🗆 X
Select The Destir	nation From Which	To Restor
MS Windows Syst	em Backup Set	
E:\Backup Destination	₿	
G CBS Host: 10.1.0.10:80		
	L	Previous Cancel Help

- 4. Select to restore from a specific backup job, or the latest job available from the **Select** what to restore drop down menu.
- 5. Select Microsoft_Windows_System_Backup, then click Next to proceed.

AhsayACB			- 🗆	×
	Select Yo	ur Files To Be Restored		
	Select what to restore Choose from files as of job Show filter	♥ 2016-07-27 ♥ Latest ♥		
	Folders E Gal-1 - 1 Win10	Name Size Creation Time ☑ ☐ Microsoft_Windows_System_Backup 11,982,048 KB 2016-07-27 04:10 ☐		
	Search	Items per page 50 V Page 1 / 1 V		
		Previous Next C	ancel He	lp



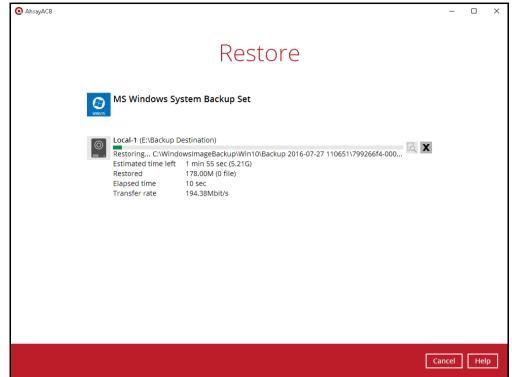
6. Select to restore the system image to a local volume or to a removable drive. Click **Next** to proceed.

AhsayACB	- 🗆	×
Choose Where The Files To Be Resto	red	
Restore files to		
Local Disk (C:)		
Local Disk (C:)		
Volume 2 (E:)		
Previous Next C	Cancel He	lp

7. Select the temporary directory for storing temporary files.

Temporary Directory	
Temporary Directory	
remporary breetory	
Temporary directory for storing restore files	
C:\Users\administrator\temp Browse	
Previous Restore Cancel Hel	P

8. Click Restore to start the restoration.



9. The following screen is displayed when the system image files are restored successfully.

AhsayACB			-		×
		Restore			
		stem Backup Set			
	Local-1 (E:\Backup D Restore Complete Estimated time left Restored Elapsed time Transfer rate	d Successfully			
			Close	Hel	р

10. The restored system image files are stored in the **WindowsImageBackup** folder in the restore location.

🏪 🛃 📕 🗧 Local Disk (C:)					-	×
File Home Share View						~ 🕐
← → → ↑ 🏪 → This PC → Local Dis	ik (C:) →			~ Ö	Search Local Disk (C:)	Q
Name	Date modified	Туре	Size			
PerfLogs	7/10/2015 4:04 AM	File folder				
Program Files	7/26/2016 2:48 AM	File folder				
Program Files (x86)	7/25/2016 9:21 PM	File folder				
Users	7/25/2016 9:03 PM	File folder				
		File folder				
	7/26/2016 3:21 AM	File folder				
	7/27/2016 4:38 AM	File folder				
7 items 1 item selected						

Important: In addition to the system image files, the **WindowsImageBackup** folder includes catalog files that contain information about all backups in there up to the current backup, and Mediald, that contains the identifier for the backup storage location.

This information is required to perform a recovery. <u>Do not</u> alter the directory structure or delete any file / folder within the **WindowsImageBackup** folder.

11. Copy the **WindowsImageBackup** folder with its content to the server that you want to perform the restore for, or copy the folder to a network drive that is accessible to the server that you want to perform the restore for.

WindowsImageBackup folder must be stored at the root level of a volume (e.g. topmost level), unless you are copying the folder to a network drive.

12. Continue to the next section of the guide.

8.3 Recovering Your Server

You can recover perform a full-system (bare-metal) with the following tools:

ΤοοΙ	What you can recover
Advanced startup option (in safe mode)	Full system recovery.
Advanced startup option (Windows installation media)	Full system recovery.

Note: You can also perform the above tasks using wbadmin command. For the syntax of the command, refer to the following: <u>http://go.microsoft.com/fwlink/?LinkId=140216</u>

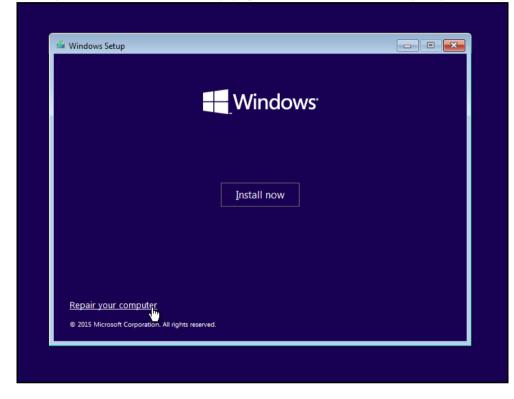
8.3.1 Recover a Full System

You can recover a full system using the advanced startup option by:

Booting from a Windows installation media

Insert the installation media that has the same architecture of the system that you are recovering, and restart your computer. Press the required key to boot from the disc.

When you see the Windows Setup page, click Next, then click Repair your computer.



Starting Windows in safe mode

Press the **Power** button at the Windows login screen. In the Start menu or in the Setting screen, press and hold the SHIFT key on the keyboard and click **Restart**.

Once you are in the Startup Option menu, perform the following steps.

1. Click Troubleshoot.

Continue		
Exit and continue to Win	ows 10	
Troubleshoot Refresh or reset your PC, advanced tools		
Turn off your P		
_		

2. Click Advanced options.

¢	Troubleshoot	
	Reset your PC If you want to remove all of your files, you can reset your PC completely	
	Advanced options	

3. Click System Image Recovery.

ر ا	Advar	nced optior	IS		
	💦 Us	/stem Restore e a restore point recorded on your t o restore Windows	C:\	Command Prompt Use the Command Prompt for advanced troubleshooting	
		ystem Image ecovery cover Windows using a specific tem image file			
	Fix Fix	utomatic Repair problems that keep Windows from Iding			

4. Log in with an administrative account by clicking on Administrator.



5. Click Select a system image, then click Next.

This computer will	tem image backup be restored using the system image, computer will be replaced with the system image.
	formation for BMR: t.com/fwlink/p/?LinkId=225039
○ <u>U</u> se the latest a	available system image(recommended)
Location:	Volume 2 (D:)
Date and time:	7/25/2016 9:10:03 PM (GMT-8:00)
Computer:	Win 10
Select a system	n image
	< Back Next > . Cancel

6. Select the location that contains the system image to restore from.

	If the backup for the computer y is on an external device, attach the esh.	
	s on a DVD, insert the last DVD from the etwork location or install a driver for a MT-8:00	
Location	Most recent system image	Computer
Volume 2 (D:)	7/25/2016.9:10:03 PM	Win 10
Advanced		Refresh
	< Back	Next > Cancel

If you do not see the image available, then

 Click Advanced, and install the required driver for the removable drive to be accessed, if the system image was copied to a removable drive attached to the server.

To install a driver, the driver must be located on the local system. You cannot install a driver from the network.

 Click Advanced, and browse to the remote shared folder which contains the system image, if the system image was copied to a network path.

For domain environment, if the backup storage location is on a computer that is a member of that domain, then the computer containing the storage location should be on the IPsec boundary, to be accessible by non domain computer.

When a computer boots into Windows Recovery Environment, it becomes a non domain computer, therefore, cannot access the usual network shares. Only those computers that allow non domain computers to access the share can be used as a backup storage location in this way.

7. Select the system image to restore, then click **Next** to proceed.

elect the date and time of If more than one system ima restore, choose the most re	age is available and you're not sure which one to
Backups available for Win10 o Current time zone: GMT-8:00	
Date and time	Drives in backup
7/25/2016 9:10:03 PM	\\?799266f4-0000-0000-0000-1000000000
<	>
	< Back Next > Cance

8. On the **Choose additional restore options** page, click **Install drivers** to install device drivers for the hardware that you are recovering to.

Choose additional restore options		ų.
Format and repartition disks Select this to delete any existing partitions and reform	nat all disks	Exclude disks
	37 	
If you're unable to select an option above, installing t for the disks you are restoring to might solve the prol		Install drivers
		Advanced
		> Cancel

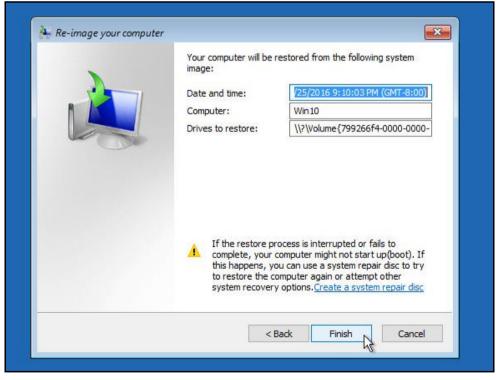
Click **OK** to add drivers.

Choose addition	al restore options			
000000				
Format and re	partition disks			
Select this to on this compu	Add Drivers		xd	ude disks
	Insert the installation dick OK to select the o		ce and	
If you're una			ancel	
for the disks y	vou are restoring to might s	olve the problem.	Inst	all <mark>d</mark> rivers
			<u>A</u> d	vanced
		< <u>B</u> ack	Next >	Cancel

Click **Advanced** to specify whether the computer is automatically restarted and the disks are checked for errors immediately after the recovery.

oose additional restore options	W
Re-image Your Computer	×
Automatically restart this computer	r after the restore is complete
	e restarting this computer, clear this check box.
Automatically check and update dis	sk error information
This might take several minutes to information manually, dear this che	complete. To check disks and update error eck box.
	OK Cancel
	Auvanceu

9. Confirm the details for the restoration, and then click **Finish** to start the recovery process.



Important: Do not interrupt the restore process.

The recovery will succeed as long as all the critical volumes (e.g. volumes containing operating system components) are recovered.

Appendix

Appendix A Cloud Storage as Backup Destination

For most cloud storage provider (e.g. Dropbox, Google Drive ... etc.), you need to allow access AhsayACB to access the cloud destination. Click OK / Test, you will be prompted to login to the corresponding cloud service.

Important: The authentication request will be opened in a new tab / window on the browser, ensure that the pop-up tab / window is not blocked (e.g. pop-up blocker in your browser).

- Ahsay would like to:	
View and manage the files in your Google Drive	(j)
By clicking Allow, you allow this app and Google to use your information with their respective terms of service and privacy policies. You can cha other Account Permissions at any time.	
Deny	Allow

Click Allow to permit AhsayACB to access the cloud storage:

Enter the authentication code returned in AhsayACB to complete the destination setup.

Note: A backup destination can be set to a supported cloud storage, backup server, FTP / SFTP server, network storage, or local / removable drive on your computer.

Multiple backup destinations can be configured for a single backup set. In fact it is recommended for you to setup at least 2 backup /;;'destinations for your backup set.

For more details on backup destination, for example which cloud service providers are supported, destination type, or limitation, you can refer to the following KB article: https://forum.ahsay.com/viewtopic.php?f=169&t=14049

Appendix B Uninstall AhsayACB

Refer to the Appendix of the AhsayACB Quick Start Guide for the corresponding operating system for details on how to uninstall AhsayACB:

https://www.ahsay.com/jsp/en/home/index.jsp?pageContentKey=ahsay_downloads_documentation_g uides

Technical Assistance

To contact Ahsay support representatives for technical assistance, visit the following website: https://www.ahsay.com/jsp/en/contact/kbQuestion.jsp

Also use the Ahsay Knowledge Base for resource such as Hardware Compatibility List, Software Compatibility List, and other product information: <u>https://forum.ahsay.com</u>

Documentation

Documentations for all Ahsay products are available at:

https://www.ahsay.com/jsp/en/home/index.jsp?pageContentKey=ahsay_downloads_documentation_g uides

You can send us suggestions for improvements or report on issues in the documentation, by contacting us at:

https://www.ahsay.com/jsp/en/contact/kbQuestion.jsp

Please specify the specific document title as well as the change required / suggestion when contacting us.