



Backup S<mark>tandard Back</mark>up Manager (B247LITE) v9

Microsoft System Backup and Restore Guide



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Revision History

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1 Overview

1.1 What is this software?

Backup247 brings you specialized client backup software, namely Backup247 Standard Backup Suite (B247LITE), to provide a comprehensive backup solution for your MS Windows System backup. The MS Windows System Backup module of Backup247 Standard Backup Suite (B247LITE) 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 native WBAdmin feature. that leverages Microsoft's command-line tool (http://go.microsoft.com/fwlink/?LinkId=140216), 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.

1.2 System Architecture

The following high-level system architecture diagram illustrates the major elements involved in the backup process of a MS Windows System backup with Backup247 Standard Backup Suite (B247LITE) and B247CBS.

In this user guide, we will focus on the software installation, as well as the end-to-end backup and restore process using the Backup247 Standard Backup Suite (B247LITE) as a client backup software.





2 Requirements

2.1 Hardware Requirement

Refer to the following article for the list of hardware requirements for Backup247 Standard Backup Suite (B247LITE):

FAQ: Backup247 Hardware Requirement List (HRL) for version 9.1 or above

2.2 Software Requirement

Refer to the following article for the list of compatible Windows operating systems platforms: <u>FAQ:</u> <u>Backup247 Software Compatibility List (SCL) for version 9.1 or above</u>

2.3 Antivirus Exclusion Requirement

To optimize performance of Backup247 Standard Backup Suite (B247LITE) on Windows, and to avoid conflict with your antivirus software, refer to the following link for the list of processes and directory paths that should be added to all antivirus software white-list / exclusion list: FAQ: Suggestion on antivirus exclusions to improve performance of Backup247 software on Windows

2.4 Backup247 Standard Backup Suite (B247LITE) Installation

Make sure that the latest version of Backup247 Standard Backup Suite (B247LITE) is installed on the computer to be backed up.

2.5 Backup247 Standard Backup Suite (B247LITE) Add-on Module Configuration

Make sure that the **Windows System Backup** add-on module is enabled for your Backup247 Standard Backup Suite (B247LITE) user account. Please contact your backup service provider for more details.





2.6 Backup Quota Requirement

Make sure that your Backup247 Standard Backup Suite (B247LITE) user account has sufficient backup storage quota assigned to accommodate the storage for the system backup. Contact your backup service provider for details.

2.7 Java Heap Size

The default maximum Java heap size on a 64bit Windows machine is 2048M. For better performance especially for in-file delta generation of large image files it may be advantageous to increase the maximum Java heap size.

For best performance, consider increasing the memory allocation setting for Backup247 Standard Backup Suite (B247LITE) (Java heap space)

Refer to this link for more details about the modification of the java heap size setting for Backup247 Standard Backup Suite (B247LITE):

FAQ: How to modify the Java heap size setting of Backup247 Advanced Client (B247PRO) / Backup247 Standard Backup Suite (B247LITE)?

2.8 License Requirement

Backup247 Standard Backup Suite (B247LITE) licenses are calculated on a per device basis:

- To back up users with 1 backup client computer (e.g. 1 Backup247 Standard Backup Suite (B247LITE) installed), 1 Backup247 Standard Backup Suite (B247LITE) license is required.
- To back up users with multiple backup client computers, the number of Backup247 Standard Backup Suite (B247LITE) licenses required is equal to the number of devices. For example, if there are 10 users to be backed up with 3 backup client computers, then 3 Backup247 Standard Backup Suite (B247LITE) licenses are required. Please contact your backup service provider for more details.

2.9 Windows Requirement

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.



2.10 Temporary Volume

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

	Create Backup Set
Name MS Windows System	Backup Set
Backup set type O MS Windows Sy	stem Backup 🖌
Specify the temporar	/ location for the system backup
Local Disk (C:) 🛛 🗸	
Local Disk (C:)	
Temp1 (E:)	
Temp2 (F:)]
	Next Cancel Help

The temporary storage location is required by the WBADMIN utility to temporarily store the image file during the backup job.

The machine requires an additional drive to accommodate the spooling of the System State image file. As you can see in our sample screenshot above, we have three (3) drives in total, Local Disk C:, Temp1 E:, and Temp2 F:

If the machine has only one (1) drive, then one of the following options will need to be implemented to create the temporary volume.

- A USB drive needs to be connected
- The existing C: drive will need to be repartitioned to create an additional drive, i.e., D:
- On extra physical drive will need to be installed
- Set up a network drive (the least preferred option as it will affect the backup performance)

For more details about the restrictions, please refer to the following link:

FAQ: Restrictions on the temporary storage location for the Windows System State and System backup image file

Disk Space Available in Temporary Storage Location

Make sure that there is sufficient disk space 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 platforms.





3 Best Practices and Recommendations

The following are some best practices or recommendations that we strongly recommend, before you start any Microsoft System backup and restore:

• Temporary Directory Folder Location

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). The temporary storage location is highly recommended to be set in a directory with sufficient free disk space and located in another location other than Drive C: (e.g. Drive E:).

MS Windows System	General
General	Name MS Windows System Backup Set
Source	Owner KMT-W10-2
Backup Schedule Destination	Windows System Backup
Reminder	Temp1 (E:)
Others	Windows User Authentication
	example.com
	User name
	username
Delete this backup set	Save Cancel Help

Backup Destination

To provide maximum data protection and flexible restore options, it is recommended to configure:

- At least one offsite or cloud destination
- At least one local destination for fast recovery

Backup Frequency

MS Windows System backup should be performed at least once per week.

Performance Recommendations

Consider the following best practices for optimized performance of the backup operations:

- Enable schedule backup jobs when system activity is low to achieve the best possible performance.
- Perform test restores periodically to ensure your backup is set up and performed properly. Performing recovery test can also help identify potential issues or gaps



in your recovery plan. It's important that you do not try to make the test easier, as the objective of a successful test is not to demonstrate that everything is flawless. There might be flaws identified in the plan throughout the test and it is important

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

Back	up Sourc	е
Volume	Total Size	Used
 System Reserved Local Disk (C:) 	38.7GE	3 0B 3 26GB
	0E	0B 23.6GB
Temp2 (F:)	80GE	25.00B
✓ Include all critical volumes		
	Previous	Cancel Help

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

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 performs 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 when a recovery test is to take place, administrators 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, as the objective of a successful test is not to demonstrate that everything is flawless. There might be flaws identified in the plan throughout the test and it is important to identify those flaws.



• Restore to Alternate Computer

You can restore a system backup to the same physical computer from which the system backup was created, or to a different computer that has the same make, model, and configuration (identical hardware). Microsoft does not support restoring a system backup from one computer to a second computer of a different make, model, or hardware configuration.

Please refer to the following article for more details:

http://support.microsoft.com/kb/249694

Periodic Backup Schedule

The periodic backup schedule should be reviewed regularly to ensure that the interval is sufficient to handle the data volume on the machine. Over time, data usage pattern may change on a production server, i.e., the number of new files created the number of files which are updated/deleted, and new users may be added etc.

Consider the following key points to efficiently handle backup sets with periodic backup schedule.

- Hardware to achieve optimal performance, compatible hardware requirements is a must. Ensure you have the backup machine's appropriate hardware specifications to accommodate frequency of backups:
 - so that the data is always backed up within the periodic backup interval
 - so that the backup frequency does not affect the performance of the production server
- Network make sure to have enough network bandwidth to accommodate the volume of data within the backup interval.
- Retention Policy also make sure to consider the retention policy settings and retention area storage management which can grow because of the changes in the backup data for each backup job



4 Restore Consideration

Please consider the following before performing a MS System 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 able to boot.

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

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



5 Configuring a MS Windows System Backup Set

Create a MS Windows System Backup Set

1. Log in to Backup247 Standard Backup Suite (B247LITE).

For instructions on how to log in, please refer to Chapter 8 of the Backup247 Standard Backup Suite (B247LITE) v9 Quick Start Guide for Windows.

2. In the Backup247 Standard Backup Suite (B247LITE) main interface, click **Backup Sets**.



3. Create a MS Windows System backup set by clicking + next to Add new backup set.

Backup Sets	Sort by
Add new backup set	Creation Time V



4. Select **MS Windows System Backup** as the **Backup set type**; then enter a **Name** for your backup set.

	Create Backup Set
Na M Ba	ame IS Windows System Backup Set ckup set type
Sp	ecify the temporary location for the system backup ew Volume (D:)
	Next Cancel Help



٦

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

Select a local volume from the dropdown menu.

Create Backup Set
MS Windows System Backup Set Backup set type MS Windows System Backup Specify the temporary location for the system backup Local Disk (C:) New Volume (D:)
Next Cancel Help
Enter the UNC path to a network volume that is accessible to the client computer.
Create Backup Set
Name MS Windows System Backup Set Backup set type MS Windows System Backup Specify the temporary location for the system backup
Nunc_path\share
Next Cancel Help

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

Refer to the link to know the restrictions on the temporary storage location for Windows System State and System Backup Image File



FAQ: Restrictions on the temporary storage location for the Windows System State and System backup image file

Click Next to proceed.

	Create Backup Set
Name	
[Exception] storage loc	Insufficient disk space available for backup. Please select another backup tion with larger disk space. Space required at least: 25.2 GB
	ок
	Next: Cancel Help

Note: If the disk you selected has insufficient space then this alert message will be displayed.

6. In the Backup Source menu, select the volume(s) which you would like to back up.

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.

	Backup	Source		
Volume System Reserved New Volume (D:) Cal Disk (C:)		Total Size 0B 120GB 79GB 0B	Used 0B 57.1GB 59.5GB 0B	Â
Include all critical volume	25			~
		Pre	vious Next Car	ncel Help



7. 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.

Schedule	
Run scheduled backup for this backup set On Existing schedules Backup Schedule Daily (Everyday at 20:00) Add	
Previous Next Cancel	Help
Name Daily-1 Type Daily Start backup at 18 18 : 00 Stop until full backup completed Run Retention Policy after backup	
OK Cancel	Help
Převlous Next Cancel	Help

NOTE

For more details on the different settings of the backup schedule, please refer to Ch. 6.2 Configure Backup Schedule for Automated Backup.



8. 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**.

Destination
Backup mode Sequential Constraints Existing storage destinations Add new storage destination / destination pool
Previous Next Cancel Help

Note: For more details on the Backup Destination, refer to following link: FAQ: Frequently Asked Questions on Backup Destination

For more details on configuration of cloud storage as backup destination, refer to the Appendix A.

9. Select the Destination storage.

New Storage Destination / Destination Pool		
B247CBS		
Destination storage		
G 8247CBS		
@ B247CBS		
Local / Mapped Drive / Network Drive / Removable Drive		
🕹 Google Drive		
ConeDrive		
FTP FTP		



You can choose a storage combination of Local / Mapped Drive / Network Drive / Removable Drive, Cloud storage or FTP. Click **OK** to proceed when you are done with the settings.

If you have chosen the Local / Mapped Drive / Network Drive / Removable Drive option, click Change to browse to a directory path where the backup data will be stored. Click "This share requires access credentials" if credentials are needed to access the storage. Click Test to validate the path. A message of Test completed successfully will show when the validation is done.

New Storage Destination / Destination	ition Pool	
Name		
Local-1		
Destination storage		
Local / Mapped Drive / Network Drive / Removal	le Drive 🖌	
Path (Input local / network address or click [Change])		
Ch	ange	
This share requires access credentials		
Test		
	OK	He
	Previous Next Cancel	Не

10. You can add multiple storage destinations. The backup data will be uploaded to all the destinations you have selected in the order you added them. Press the icon to alter the order. Click **Next** to proceed when you are done with the selection.



Next Cancel

Previous

Destination



11. 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		
Encryption Type]	
Default •		
User password		
Custom		

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

- Default an encryption key with 44 alphanumeric characters will be randomly generated by the system
- User password the encryption key will be the same as the login password of your Backup247 Standard Backup Suite (B247LITE) at the time when this backup set is created. Please be reminded that if you change the Backup247 Standard Backup Suite (B247LITE) 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.

	Encryption
Encrypt Backup Data On Encryption Type	
Algorithm AES Encryption key	
Re-enter encryption key	

Method CBC Key length 128-bit 256-bit	

Note: For best practice on managing your encryption key, refer to the following wiki article:

FAQ: Best practices for managing encryption key for Backup247 Advanced Client (B247PRO) or Backup247 Standard Backup Suite (B247LITE)

Click Next when you are done setting.

12. If you have enabled the Encryption Key feature in the previous step, the following pop-up window will show regardless of the selected encryption type.

Encryption	
Encrypt Backup Data On Encryption Type Default	
You are advised to write this encryption key down on paper and keep it in a safe place. You will need it when you need to restore your files later. Please confirm that you have done so.	
•••••• Unmask encryption key	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.





 Enter the Domain Name / Host Name of the computer, User Name and Password of the Windows account that will be running the backup. Click Next to create the backup set.

Domain Name (e.g. Absay com) / Host Name		
example.com		
User name		
username		
Password		

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

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

Congratulations!	
"MS Windows System Backup Set" is successfully create	d.
Backup nd	w Close



15. It is highly recommended to set the temporary directory to another location other than Drive C: (e.g., Drive E:). To do this, go to **Others > Temporary Directory** and click the **Change** button to browse for another location.

MS Windows System	Temporary Directory Temporary directory for storing backup files
General	E:\temp Change Change
Source	Remove temporary files after backup
Backup Schedule	Compressions
Destination	Select compression type
Reminder	Fast with optimization for local
Others	Encryption
	Encryption key •••••• Copy to clipboard Unmask encryption key
	Algorithm AES 🗸
Delete this backup set	Save Cancel Help

16. Optional: Select your preferred **Compression** type. By default, the compression type is Fast with optimization for local.

Go to **Others > Compressions**, then select from the following:

- No Compression
- Normal
- Fast (Compressed size larger than normal)
- Fast with optimization for local

Backup Schedule	Compressions		
Destination	Select compression type		
Reminder	Fast with optimization for local No Compression		
Others	Normal Fast (Compressed size larger than normal)		
	Fast with optimization for local		



6 Running a Backup

6.1 Start a Manual Backup

The following steps are performed during a backup job. For an overview of the detailed process for Steps 3, 4, 10, and 12, please refer to the following chapters of the Backup247 Standard Backup Suite (B247LITE) v9 Quick Start Guide for Windows.

- Periodic Data Integrity Check (PDIC) Process (Step 3) <u>Chapter 12.1</u>
- Backup Set Index Handling Process
 - Start Backup Job (Step 4) Chapter 12.2.1
 - Completed Backup Job (Step 12) Chapter 12.2.2
- Data Validation Check Process (Step 10) Chapter 12.3





1. Click the **Backup** icon on the main interface of Backup247 Standard Backup Suite (B247LITE).



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





3. Click the **Show advanced option** in case you want to modify the Destinations, Migrate Data and Retention Policy options.

Choose Your Backup Options
MS Windows System Backup Set
Backup set type Volume Show advanced option
Previous Backup Cancel Help

4. When the advanced options are shown, it is recommended to enable the **Run Retention Policy after backup**. This will help you save hard disk quota in the long run.

Choose Your Backup Options
MS Windows System Backup Set
Backup set type Volume Destinations B247CBS (Host: 10.3.121.17:80) C B247CBS (Host: 10.3.121.17:80) C C B247CBS (Host: 10.3.121.17:80) C B247CBS (Host: 10.3.121
Previous Backup Cancel Help
NOTE When the Migrate Data option is enabled, the existing data will be migrated to the latest version during a backup job. This option is disabled by default. Backup job(s) for backup sets with Migrate Data enabled may take longer to finish. For more information about this feature,

5. Once done with the settings, click the **Backup** button to start the backup job.

refer to B247CBS v9 New Features Supplemental document.



Choose Your Backup	Options
MS Windows System Backup Set	
Backup set type Volume Show advanced option	

6. The following screen will be displayed to indicate that the backup job is successfully completed. You may click the 🖸 button to check for the backup log.

	,			<u> </u>
		Ba	ackup	
() WINS 15	MS Windows Sys	tem Backup S	et	
() 111 -	Local-1 (D:\) ✓ Backup Complete Estimated time left Backed up Elapsed time Transfer rate	d Successfully 0 sec 56.16GB (1 file, 1 1 hr 48 sec 104.14Mbit/s	directory, 0 link)	C
				Close Help



7. Once you are done with checking the backup log, click the **Close** button to return to the previous screen.





View Report

To view the backup report(s), go back to the Backup247 Standard Backup Suite (B247LITE) main interface, then click **Report > Backup**.



In the Backup Report screen, you will see the backup set with corresponding destination, completion date and time, and status. Click the backup report to display the summary of the backup.





Report	Backup Report			
	Buchup hepore			
	From To			
Backup	20 🗸 Jan 🖌 2022 🗸 27 🗸 Jan 🗸	2022	Go	
				1
Restore	Backup set V Destination V Completion	n	Status	~
	Backup set O MS Windows Sys	tem Back	up Set	X
Usage	Destination			
	lob 01/27/2022 09:46			
	Time Today 09:46 - 10:47 (0	CST)		
	Status Completed succes	sfully		
	New files * 1 [56 2GB/56 2GB (0%	31		
	Undated files * 0			
	Attributes Changed Files * 0			
	Moved files t			
	Moved files * 0			
	Deleted files ~ 0			
	Decupe saving 12.1G/56.1G [21.5%]			
	* Unit = No of files [Total zipped size / Total unzippe	d size (co	mpression ratio)]
	View log			
	No of records per page 50		Page 1/1	
	No. of records per page			•
Papart				
N PI II II I	Packup Bapart			
Rennin	Packup Roport			
Backup set MS Windows System Backup Se	Rachun Ronort	Destina	tion Local-1	~
Backup set MS Windows System Backup Ser	Rackup Roport	Destina Show	tion Local-1	~ ~
Backup set MS Windows System Backup Se Log 01/27/2022 09:46	Dackup Roport	Destina Show	tion Local-1	•
Backup set MS Windows System Backup Se Log 01/27/2022 09:46 V Type Start [B247Lite v9.1.0.1]	Dackup Roport	Destina Show 01/27	tion Local-1 All Time /2022 09:46:44	•
Backup set MS Windows System Backup Set Log 01/27/2022 09:46 ✓ Type Start [B247Lite v9.1.0.1] Saving encrypted backup set encryption keys to	Dackup Roport	Destina Show 01/27	tion Local-1 All 70022 09:46:44 72022 09:46:44	,
Backup set MS Windows System Backup Set Log 01/27/2022 09:46 ▼ Type Start [B247Lite v9.1.0.1] Saving encrypted backup set encryption keys to Start Backup [Deduplication: enabled, Dedup Start Backup [Deduplication: enabled, Dedup Usine Temporary Directory C \Userstylereduming	Log o server plication scope: All files within the same backup set, Migrate rater's achiermol 1643247770735\Local@1643247986358	Destina Show 01/27 01/27 01/27	tion Local-1 All 7022 09:46:44 72022 09:46:44 72022 09:46:46 72022 09:46:46	• •
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Click the **View Log** button; this will redirect you to the log summary of your backup.

You can also search for backup reports from a specific period of date. For example, we have the **From** date which is, **01 Jan 2022** and the To date which is, **10 Jan 2022**. Click the **Go** button to generate the available reports.



From	То
01 🗸 Jan 🖌 2022 🗸	10 ✔ Jan ✔ 2022 ✔ Go

If this is a valid range of dates, then backup report(s) will be displayed unless there were no backup running on the specified dates. A message of **No records found** will be displayed.

Report	Backup Report
Backup	From To 01 V Jan V 2022 V 10 Jan V 2022 V Go
Restore	Backup set V Destination V Completion Status V
Usage	No records found
	No. of records per page 50 V Page - V
	Close Help



6.2 Configure Backup Schedule for Automated Backup

1. Click the **Backup Sets** icon on the main interface of Backup247 Standard Backup Suite (B247LITE).



2. All backup sets will be listed. Select the backup set that you would like to create a backup schedule for.

	Backup Sets	Sort by Creation Time 🗸
Add	MS Windows System Backup Set Owner: w10-pro Last Backup: Tuesday, July 21, 2020 18:08	
		Close Help

3. Go to the **Backup Schedule** tab. If the **Run scheduled backup for this backup set** option is Off, switch it **On**. Existing schedules will be listed if there is any. Click the **Add** button to add a new backup schedule.





4. The New Backup Schedule window will appear.

New Backup Schedule
Name
Daily-1
Type Daily V Start backup at V 15 V: 00 V
Stop until full backup completed 🖌
Run Retention Policy after backup

- 5. In the New Backup Schedule window, configure the following backup schedule settings.
 - Name the name of the backup schedule.
 - Type the type of backup schedule. There are four (4) different types of backup schedule: Daily, Weekly, Monthly and Custom.
 - **Daily** the time of the day or interval in minutes/hours when the backup job will run.

	New Backup Schedule	
	Name	
	Daily-1	
	Туре	
	Daily 🖌	
	Start backup	
	at 🗸 15 🖌 : 00 🗸	
	Stop	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	until full backup completed 🖌	
	Run Retention Policy after backup	

• Weekly – the day of the week and the time of the day or interval in minutes/hours when the backup job will run.

New Backup Schedule
Name
Weekly-1
Type Weekly
Backup on these days of the week
Start backup at V 23 V: 00 V
Stop
until full backup completed 🖌
Run Retention Policy after backup



• **Monthly -** the day of the month and the time of that day which the backup job will run.

Nar	ne
M	onthly-1
Tvn	P
М	onthiv 🖌
Bac	kup on the following day every month
۲	Day Last 🖌
0	First 🖌 Sunday 🖌
Sta	rt backup at
23	· ↓ : 00 ↓ on the selected days
Sto	p
lun	til full backup completed

 Custom – a specific date and the time of that date which the backup job will run.

New Backup Schedule	
Name	
Custom-1	
Type Custom Backup on the following day once 2020 July 30 Start backup at	
23 • : 59 • Stop	
until full backup completed 🖌	
Run Retention Policy after backup	

- Start backup the start time of the backup job.
 - at this option will start a backup job at a specific time.
 - every this option will start a backup job in intervals of minutes or hours.





Here is an example of backup set that has a periodic and normal backup schedule.

New Backup Schedule	New Backup Schedule
Name	Name
Weekly-1	Weekly-2
Type Weekly 🗸	Type Weekly 🗸
Backup on these days of the week Sun 🖌 Mon 🖌 Tue 🖌 Wed 🖌 Thu 🖌 Fri 🗌 Sat	Backup on these days of the week Image: Support of the sector o
Start backup every 🖌 4 hours 🖌	Start backup
Stop until full backup completed	Stop until full backup completed 🖌
Run Retention Policy after backup	Run Retention Policy after backup



0



Figure 1.1 – Periodic schedule every 4 hours Monday - Friday during business hours

Figure 1.2 – Normal schedule runs at 21:00 or 9:00 PM on Saturday & Sunday during weekend non-business hours

Stop – the stop time of the backup job. This only applies to schedules with start backup "at" and is not supported for periodic backup schedule (start backup "every")

- until full backup completed this option will stop a backup job once it is complete. This is the configured stop time of the backup job by default.
- **after (defined no. of hrs.)** this option will stop a backup job after a certain number of hours regardless of whether the backup job has completed or not. This can range from 1 to 24 hrs.

The number of hours must be enough to complete a backup of all files in the backup set. For small files in a backup, if the number of hours is not enough to back up all files, then the outstanding files will be backed up in the next backup job. However, if the backup set contains large files, this may result in partially backed up files.

For example, if a backup has 100GB file size which will take approximately 15 hours to complete on your environment, but you set the "stop" after 10 hours, the file will be partially backed up and cannot be restored. The next backup will upload the files from scratch again.

The partially backed up data will have to be removed by running the Data Integrity Check.

As a general rule, it is recommended to review this setting regularly as the data size on the backup machine may grow over time.

Run Retention Policy after backup – if enabled, the Backup247 Standard Backup Suite (B247LITE) will run a retention policy job to remove files from the backup destination(s) which have exceeded the Retention Policy after performing a backup job. To save hard disk quote in the long run, it is recommended to enable this option.



As an example, the four types of backup schedules may look like the following:

Schedule
Run scheduled backup for this backup set
Existing schedules
Daily-1 Daily (Everyday at 15:00)
Weekly-1 Weekly - Saturday (Every week at 23:00)
Monthly-1 Monthly - The Last Day (Every month at 23:00)
Custom-1 Custom (07/30/2020 at 23:59)
Add
24/7

6. Click **Save** to confirm your settings once done.





7 Restore with a MS Windows System Backup Set

7.1 Login to Backup247 Standard Backup Suite (B247LITE)

Log in to the Backup247 Standard Backup Suite (B247LITE) application according to the instructions provided in Chapter 8 of the Backup247 Standard Backup Suite (B247LITE) v9 Quick Start Guide for Windows.

7.2 Restore the System Image

1. Click the **Restore** icon on the main interface of Backup247 Standard Backup Suite (B247LITE).



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





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

Select From Where To Res	tore	е	
MS Windows System Backup Set			
D:\			
Pr	evious	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.

Select what to restore Choose from files as of job Show filter	01/27/2022 V Latest V
Folders - Q Local-1 - () KMT-W10-2	Name Size Creation Time Image: Microsoft_Windows_System_Backup 56.16GB 01/27/2022 10:15
Search	Items per page 50 V Page 1 / 1 V



Select Your Files To Be Restored
Select what to restore Choose from files as of job Image: O1/27/2022 Latest Show filter
Folders Name Size Creation Time Image: System_Backup Dir27/2022 10:15 Dir27/2022 10:15
Search Items per page 50 V Page 1/1 V

Select to resto<mark>re the system image to a</mark> local volume or to a removable drive. Click **Next** 6. to proceed.

Choo	ose Where The Files To Be Restored
Res	store files to
Lo	cal Disk (C:)
Lo	cal Disk (C:)
Ne	w Volume (D:)
	Previous Next Cancel Help



7. Click **Show advanced option** to configure other restore settings.



Choose Where The	e Files To
Restore files to New Volume (D:)	
Verify checksum of in-file delta files during Hide advanced option	restore

Verify checksum of in-file delta files during restore

By enabling this option, the checksum of in-file delta files will be verified during the restore process. This will check the data for errors during the restore process and create a data summary of the in-file delta files which will be included in the report.

8. Select the temporary directory for storing temporary files.

Temporary Directo	ry	
Temporary directory for storing restore files		
D:\Temporary Directory	Browse	



9. Click **Restore** to start the restoration process.

Temporary directory for storing restore files		
D:\Temporary Directory	B	rowse

10. The following screen will be displayed to indicate that the restore job is successfully completed. You may click the log button to check for the restore log.

Restore				
MS Wind	lows System Backup Set			
Local-1 (D Stimated Restored Elapsed ti Transfer ti	:') e Completed Successfully time left 0 sec 56.16GB (1 file) me 1 hr 23 min 23 sec ate 96.38Mbit/s		۵	
			Close Help	



11. Once you are done with checking the restore log, click the **Close** button to return to the previous screen.

		Show	All	~
Type	Lag		Time	
0	Stan[B247Lit v9.1.0.1]	01/27	2022 11:19:	2
0	Downloading "D'Microsoft, Windown, System, Backup" (Total 56.16G tytes)	01/27	2022 11:19	a 🖸
0	Downloading*D:WindowsImageBackup/KMT-W10-2* (Total 0 bytes)	01/27	2022 11:19:	3
0	Downloading*D:WedowsknageBackup/AMT-W10-21Backup 2022-01-27 014704* (Total 0 bytes)	01/27	2022 11:19:	3
0	Downloading*D'WindowslinageBackup/KMT-W10-2/Backup 2022-01-27 014704/87954854-0000-0000-0000-100000	01/27	2022 11:19:	3
0	Downloading "D'WindowsImageBackup/KMT-W10-2/Backup 2022-01-27 014704/0795d85d-0000-0000-0000-501100	01/27	2022 11:19;	21
0	Downloading "D:WindowslinageBackup/KMT-W10-2/Backup 2022-01-27 014704/8795d85d-0000-0000-0000-0008181	01/27	2022 12:41	12
0	Downloading "D'WedowslinageBackup/RMT-W10-2/Backup 2022-01-27 014704/BackupSpecs.xml" (Total 1,792 bytes)	01/27	2022 12:42	13
0	Downloading. "D'WindowsImageBackup/KMT-W10-2/Backup 2022-01-27 014704/e9/e5421-8e8/457d-a745-0fi1d4a"	01/27	2022 12:42:	0
0	Downloading "D'WindowsImageBackup/#MT-W10-2/Backup 2022-01-27 014704/e/He8421-8e8F457d-a745-0f61d4a	01/27	2022 12:42:	13
0	Downloading*D*Windows/magelbackup/RMT-W10-2/Backup 2022-01-27.01470/ie9/e6421-8e8f-457d-a745-0f0144a	01/27	2022 12:42	13
0	Disenloading 'D'WindowslinageBackup/RMT-W10-2/Backup 2022-01-27 014794/e9fe8421-8e8f-457d-a745-0f0144a	01/27	2022 12:42:	13
0	Downloading "D:WindowshnageBackup/KMT-W10-2/Backup 2022-01-27 014701/e94s8421-8e8f-457d-a7d5-0f61d4a	01/27	2022 12:42	13
0	Downloading"D'WindowslinageBackup/KMT-W10-2/Backup 2022-01-27 014704/e9He8421-8e8H457d-a745-0f61d4a	01/27	2022 12:42:	13
0	Downloading "D/WindowsImageBackup/RMT-W10-2/Backup 2022-01-27 014704/e9/e8421-8e8/-457d-a745-0/0144a	01/27	2022 12:42	13
0	Downloading . "D'WindownlmageBackup/#MT-W10-2/Backup 2022-01-27 014704/e9fe8421-8e8f-457d-a745-0f61d4a	01/27	202212:42	13
0	Downloading*D:WedowsImageBackup/KMT-W10-21Backup 2022-01-27 014704ie9He8421-8e8F457d-a745-0%144a	01/27	2022 12:42:	13
0	Downloading "D.'WindowslimageBackup/KMT-W10-2/Backup 2022-01-27 01470Fie9fe8421-8e8f-457d-a7d5-0f61d4a	01/27	2022 12:42:	13
0	Downloading*D:WindowslimageBackup/RMT-W10-25Catalog* (Total 0 lynes)	01/27	2022 12:42	13 V
0	Downloading "D/WindowsImageBackup/KMT-W10-2/Catalog/BackupGloba/Catalog" (Total 7,976 bytes)	01/27	2022 12:42:	13
ogs p	per page 50 V		Page 1	11 -
	en 1946 (10. 1971)		and the	





View Report

To view the restore report(s), go back to the Backup247 Standard Backup Suite (B247LITE) main interface, then click **Report > Restore**.



In the Restore Report screen, you will see the backup set with corresponding destination, completion date and time, and status. Click the restore report to display the summary of the restore.





Report	Restore Report
Backup	
Restore	20 V Jail V 2022 V 21 V Jail V 2022 V GO
Usage	Backup set
	No. of records per page 50 V Page 1 / 1 V Close Help

Click the **View Log** button; this will redirect you to the log summary of the restore report.







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

■ 🗹 📜 = D:\ File Home Share View			_	□ × ~ ?
\leftarrow \rightarrow \checkmark \uparrow \checkmark \rightarrow This PC \rightarrow New	Volume (D:) Volume (D:)	Search New Volume (D:)		
🖈 Quick access	Name	Date modified 01/27/2022 1:16 PM	Type File folder	Size
🧢 This PC	WindowsImageBackup	01/27/2022 11:19 AM	File folder	
 New Volume (D:) New folder WindowsImageBackup Network 				
2 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.

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. top-most level), unless you are copying the folder to a network drive.

Continue to the next section of the guide.

7.3 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: http://go.microsoft.com/fwlink/?LinkId=140216



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**.

	DSE AN OPTION Continue Evit and continue to Windows 10
IY	Troubleshoot Refresh or reset your PC, or use advanced tools
Ċ	Turn off your PC

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.

System Restore Use a restore point recorded on your PC to restore Windows System Image Recovery Recover Windows using a specific system image file Automatic Repair Fix problems that keep Windows from	otions	
System Image Recovery Recover Windows using a specific system image file Automatic Repair Fix problems that keep Windows from	sd on your C:\ C:\ C:\	System Restore Use a restore point recorded on your PC to restore Windows
Automatic Repair	pecific 🔖	System Image Recovery Recover Windows using a specific system image file
cading	ir idows from	Automatic Repair Fix problems that keep Windows from loading

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

Choose an account to continue.		
Administrator		
Forgot your password or	don't see your account?	



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

A Re-image your computer			×				
	Select a system image backup						
	This computer will be restored using the system image. Everything on this computer will be replaced with the information in the system image.						
	Troubleshooting information for BMR: http://go.microsoft.com/fwlink/p/?LinkId=225039						
	○ <u>U</u> se the latest a	available system image(recommended)					
	Location:	Volume 2 (D:)	1				
	Date and time:	7/25/2016 9:10:03 PM (GMT-8:00)					
	Computer:	Win 10					
	Select a system	n image					
		< <u>Back N</u> ext > Cano	el				

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

If the system image is Advanced to add a ne	on a DVD, insert the last DVD from the twork location or install a driver for a	ne system image backup. Clic backup device if it does not s
up in the list below. Current time zone: Gl	4Т-8:00	
Location	Most recent system image	Computer
Volume 2 (D:)	7/25/2016 9:10:03 PM	Win 10

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 a 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 nondomain 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.

Re-image your computer		— ×
Select the date and time of If more than one system im restore, choose the most re	system image to restore age is available and you're not sure which one to ecent one.	è
Backups available for Win10 c Current time zone: GMT-8:00	on Volume 2 (D:)	
Date and time	Drives in backup	
7/25/2016 9:10:03 PM	\\?799266f4-0000-0000-0000-10000	00000
<		>
	< Back Next >	Cancel
	4	



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		2
		W.
Format and repartition disks		
Select this to delete any existing parti on this computer to match the layout o	tions and reformat all disks of the system image.	Exclude disks
If you're unable to select an option ab for the disks you are restoring to migh	ove, installing the drivers It solve the problem.	Install drivers Advanced
	< Back N	lext > Cancel
OK to add drivers.		4
OK to add drivers.		
OK to add drivers. <i>Re-image your computer</i> Choose additional restore options		
OK to add drivers. Re-image your computer Choose additional restore options		
OK to add drivers. Re-image your computer Choose additional restore options Eormat and repartition disks Select this to on this compu		xclude disks
OK to add drivers. Re-image your computer Choose additional restore options Eormat and repartition disks Select this to on this compu Insert the installati click OK to select th	on media for the device an	d
OK to add drivers. Re-image your computer Choose additional restore options Eormat and renartition disks Select this to on this compl Add Drivers Insert the installati dick OK to select th	on media for the device an ne driver.	xdude disks

< <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.

Re-image Your	Computer				×
Automatical	y <u>r</u> estart this comp	uter after the re	store is comp	lete	
To make add	litional changes bet	fore restarting th	is computer,	clear this cl	neck box.
Automatical	y check and update	e disk error inforn	nation		
This might ta information r	ke several minutes nanually, clear this	to complete. To check box.	check disks	and update	error
			OK		Cancel

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.



8 Contact Backup247

8.1 Technical Assistance

To contact Backup247 support representatives for technical assistance, visit our website https://backup247.com.au/Support.php

8.2 Documentation

Documentations for all Backup247 modules, user guide and QuickStart are available on our website. Alternatively, email us on support@backup247.com.au for technical demo.





Appendix

Appendix A Cloud Storage as Backup Destination

For most cloud storage provider (e.g., Dropbox, Google Drive ... etc.), you need to allow access Backup247 Standard Backup Suite (B247LITE) to access the cloud destination. Click **OK** / **Test** to be prompted to log in 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).

Click Allow to permit Backup247 Standard Backup Suite (B247LITE) to access the cloud storage:

Sign in v	with Google					
	bac	сир <mark>247</mark>		<u></u>		
	B247 wants	to access your		7		
	Google	Account				
	A	@gmail.com				
This wi	Il allow B247 to	:				
🔥 Se Di	ee, edit, create, and rive files	delete all of your Google	(j			
Make s	ure you trust B24	17				
You may can alwa	y be sharing sensitiv ays see or remove a	e info with this site or app. ccess in your Google Acc o	. You ount.			
Learn ho	ow Google helps you	ı share data safely.				
See Ahs	ay's Privacy Policy	and Terms of Service.				
	Canaal	Allow				
	Cancel	Allow				

Enter the authentication code returned in Backup247 Standard Backup Suite (B247LITE) 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 set up 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 this link: FAQ: Frequently Asked Questions on Backup Destination