

BackupAssist™

BackupAssist v7

# Backup Tab User Guide

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# 1. Introduction



Backup

The Backup tab provides access to a set of powerful backup tools, which are used to protect both data and applications, including Exchange, SQL, SharePoint, Active Directory and Hyper-V environments.

## Documentation

This whitepaper covers all aspects of the BackupAssist Backup tab, and can be used in conjunction with other BackupAssist guides, which provide a comprehensive documentation set.

- For information on the BackupAssist Restore tab, see the [BackupAssist Restore Tab User Guide](#)
- For information on the BackupAssist Recover tab, see the [BackupAssist Recover Tab User Guide](#)
- For information on BackupAssist Remote Access, see the [Central Administration User Guide](#)

## Licensing

BackupAssist requires a license once the initial trial period has expired. Please contact your local BackupAssist reseller or distributor for pricing information, or visit [www.BackupAssist.com](http://www.BackupAssist.com).

For instructions on how to activate / deactivate license keys, visit out [Licensing BackupAssist page](#).

## Overview

The Backup tab has four menu items used to *create, manage, monitor* and *report* on backups.

The **New** option is used to access the five types of backup jobs that can be run. These backup jobs are documented in their own whitepapers and a summary of each is provided below. The **Manage**, **Monitor** and **Reports** options are documented in detail in this whitepaper.

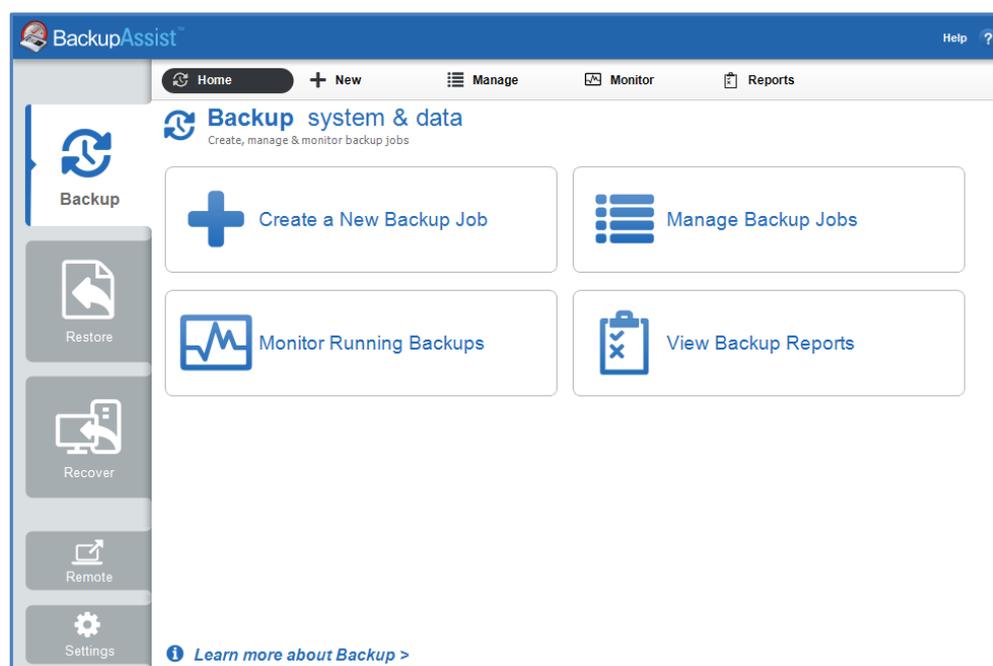


Figure 1: BackupAssist Backup tab

## 2. Create a New Backup

The *New* menu will open the *Create a new backup job* screen. There are 5 types of backups to choose from, and a description of each type is provided below. All of these backup types are administered using the *Manage*, *Monitor* and *Reports* menus.

BackupAssist is VSS-aware, so File Protection, File Archiving and System Protection backups can detect and backup Volume Snapshot Service (VSS) applications such as Exchange, SQL and SharePoint.

- **System Protection**

This feature creates an image backup that can be used to restore files and applications. Depending on the data selection made, it can also be used to perform a bare-metal recovery, when used with a bootable media created using RecoverAssist. System Protection backups apply to installations of BackupAssist on Windows 2008 or later machines. Older versions of Windows will use NTBackup.

- **File Protection**

This feature backs up data using file replication and includes support for Rsync, a technology that can back up data to a host across the internet. Rsync requires the *BackupAssist for Rsync Add-on*.

- **File Archiving**

This feature compresses data as it is backed up and saves it as a ZIP file. This saves space and allows for the use of encryption and password protection on the archive file. The feature includes the ability to back up to tape media, which requires an add-on license.

- **Exchange Mailbox Protection**

Exchange Mailbox Protection (Exchange Mailbox Add-on) is fully supported but superseded by Exchange Granular Restore (licensed as the Exchange Granular Add-on). Exchange Granular Restore uses System Protection, File Protection and File Archiving backups to restore mail items.

- **SQL Server Protection**

This feature backs up SQL Server databases. These backups can be used to restore individual databases to a specific point in time, or an entire SQL server (including the Master Database). SQL Server Protection requires the *BackupAssist SQL Add-on*.

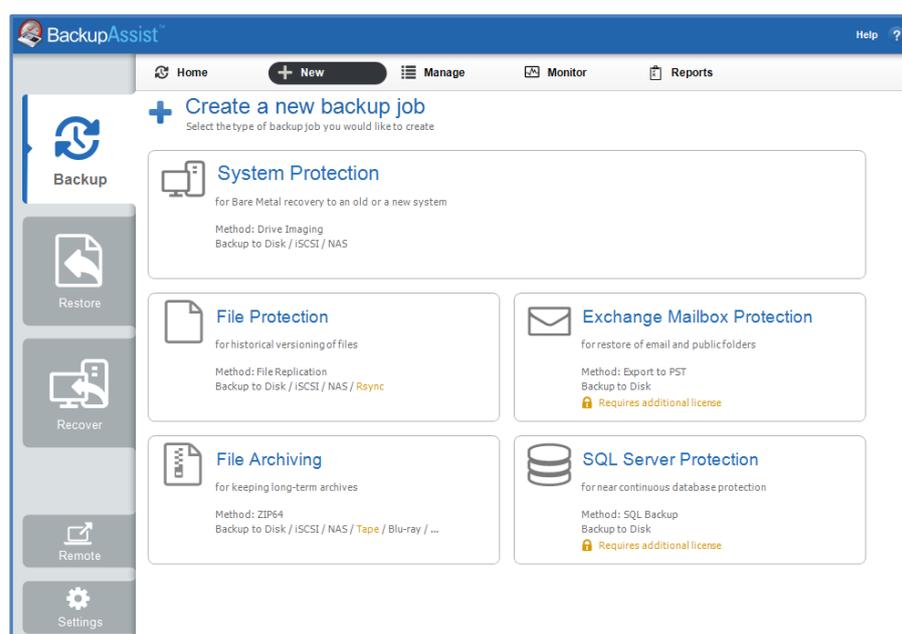


Figure 2: BackupAssist Backup tab – Create a new backup job screen

### 3. Manage backup jobs



The **Manage** menu is used to run and administer your backups. The options include configurations that are not available during the creation of the backup job.

When the **Manage** menu is selected, a list of all backup jobs will be displayed, along with the results of the last backup, when the backup started, its duration and if the backup job is currently active or disabled.

Name	Last backup	started	duration	Next backup
Archive to Tape	✓ Successful	7/02/2013 10:00 PM	21s	Disabled
Exchange mailbox	✓ Successful	3/01/2013 1:05 PM	24s	Disabled
Exchange Server backup	✓ Successful	4/01/2013 3:37 PM	5s	Disabled
File Archiving - Local Directory	✓ Successful	22/01/2013 4:09 PM	9s	Disabled
File Protection - Network Locati...	⚠ Minor warnings	22/01/2013 4:15 PM	3s	Disabled
File Protection - RDX	✗ Errors occurred	7/02/2013 10:00 PM	0s	Disabled
File Protection - RSync backup	✗ Errors occurred	27/12/2012 10:00 PM	50m 32s	Disabled
File Protection local	✓ Successful	7/02/2013 10:00 PM	4s	Disabled
SQL Database - Full Offsite	✗ Errors occurred	Today 12:00 AM	0s	Tomorrow 12:00 AM
SQL Database backup - Daily	✓ Successful	8/02/2013 10:28 AM	5s	Disabled
SQL File Archiving	✓ Successful	8/02/2013 10:00 PM	21s	Today 10:00 PM
SQL File Protection	✓ Successful	8/02/2013 9:56 AM	16s	Disabled

**Exchange mailbox**  
 Destination: C:\ProgramData\BackupAssist v7\temp\Exm  
 Scheme: Daily  
 Last 5 backups: ✓✓✓✗✗  
 Modified: 9/01/2013 11:40 AM

Figure 3: BackupAssist Backup tab – Manage screen

The **Manage** menu can be used to action the selected backup job, as follows:

- **Report** will open the most recent backup report for the selected backup job.
- **Run** will start the backup job. You will be prompted to *Rerun a past backup* or to *Run a future backup now*. If you select a future backup, you will be asked to provide the date. Once the backup has started, the screen will change to the *Monitor* view.
- **Enable / disable** will change the active status of the backup job. This option can be used to *disable* a backup job so it will not run, or to *enable* a job so it will run as scheduled.
- **Edit** is used to change the backup job's configurations. The selections made during the creation of the backup job can be changed here. This menu is examined in detail in the next section.
- **Clone** will create a copy of the backup job, and provide a field to enter a new name.
- **Delete** will delete the backup job from BackupAssist.

## Using the Edit menu

The *Edit* option gives you access to the backup configurations that were set during the creation of your backup job. It also gives access to additional configurations that were not available during the creation of your backup job.

1. Select the BackupAssist **Backup tab**.
2. Select **Manage** from the top menu.
3. Select the backup job, and click **Edit**. A list of configuration types will be displayed on the left pane.
4. Select the required configuration option, and the details of that selection will be displayed.

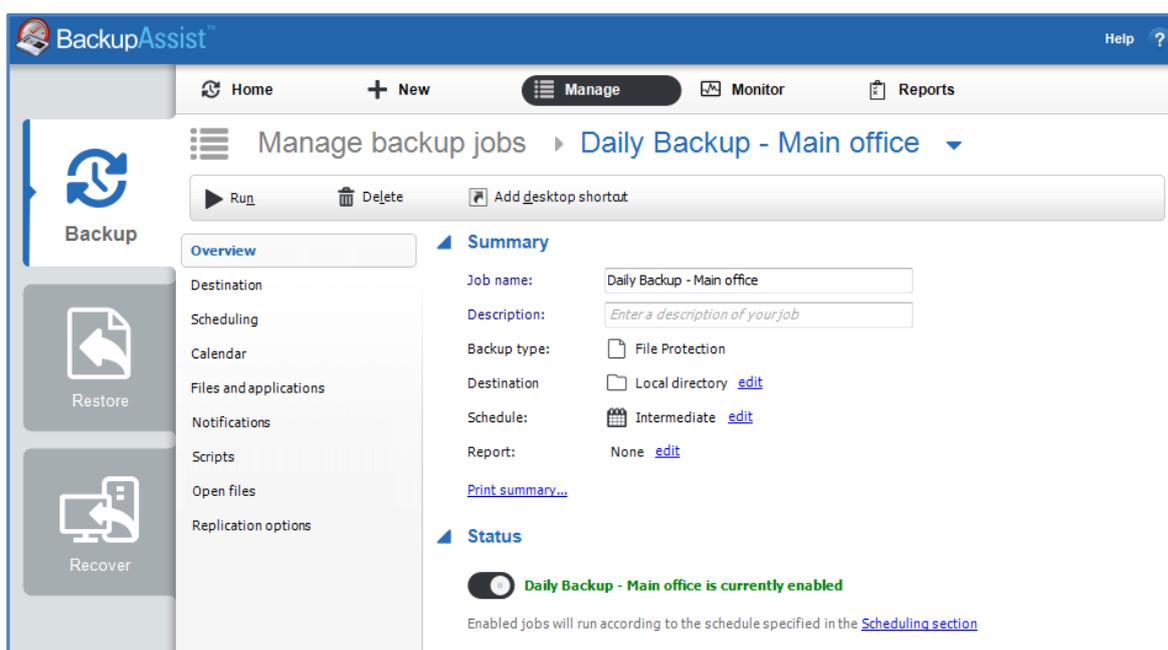


Figure 4: BackupAssist Manage menu – Edit option

Some configuration options are common to all backup jobs. Some configuration options are unique to the backup type, and explained under the **Manage** section of each backup type's whitepaper.

**Below is a description of each standard Edit screen:**

### Overview

This screen displays a summary of the backup job's settings, and the status of the job.

### Destination

This screen displays the destination configurations that were defined during the destination stage of the backup job's creation. For SQL and Exchange Servers, it can be used to configure how the data is saved. For Rsync, it can be used to change the connection settings.

### Calendar

This screen gives a month-by-month view of your current schedule, and it can be used to verify that the schedule is configured correctly. Different icons will appear on the calendar's 'backup days' to represent different configurations and settings. Select the *Key* button for a guide to the symbols used.

## Scheduling

This option is used to modify your backup schedule. A backup schedule determines when your backup jobs run and whether the backup is a daily or an archive backup. Combinations of daily and archive backups provide the most flexible and robust data protection.

**Archive backups** (not to be confused with the [File Archiving](#) backup type) are run periodically (e.g. weekly, monthly) and retained for long periods. They provide a secure, historical backup and the ability to restore early versions of data a long time after the backup was made.

**Daily backups** are run through the week (e.g. Monday to Friday) and provide backups that can be used to restore recent data. They are often overwritten during each media rotation.

- If you have scheduled jobs overlapping, they will be placed in a queue and run one at a time.
- Backups run after midnight are usually for data from the previous day, to be part of the previous day's backup. To ensure the correct backup applies to the correct day, BackupAssist treats a day as being 6.00am to 5.59am (not 12.00am to 11.59pm). E.g. 2.30am on Tuesday is considered Monday.

BackupAssist provides a selection of schemes to select from during the creation of your backup job. These schemes provide popular combinations of daily and archive backups that can be customized using the *Scheduling* screen. This screen contains *Scheduling options* and *Archiving options* to modify your existing scheme, and two pop-up windows: *Select new a schedule* and *Customize schedule*.

### Scheduling options

This option allows you to set the time and the days of the week that your backups take place. Your selections will apply to both daily and archive backups (which run in place of daily backups).

### Archiving options

The selection will appear if your current scheme includes archive backups. There will be runtime options for each type of archive backup in your scheme (e.g. weekly, monthly). When you select the day you wish your archive backup job to run, it will run in place of the daily backup for that day (weekly runs in place of daily, monthly runs in place of a weekly etc.). The day selected must also be ticked under *Scheduling options*.

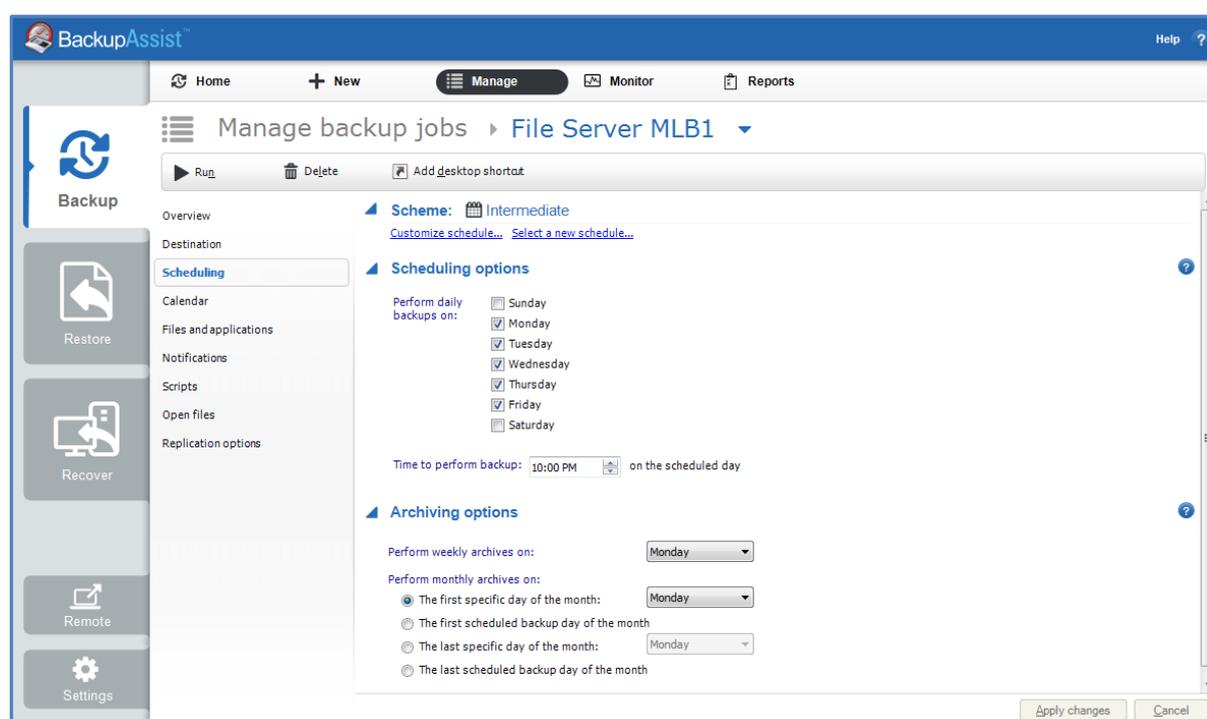


Figure 5: Manage backup job - Edit Schedule screen

## Select a new schedule

This will display the list of pre-configured backup schemes you chose from during the creation of your backup. You can select a different scheme using this option.

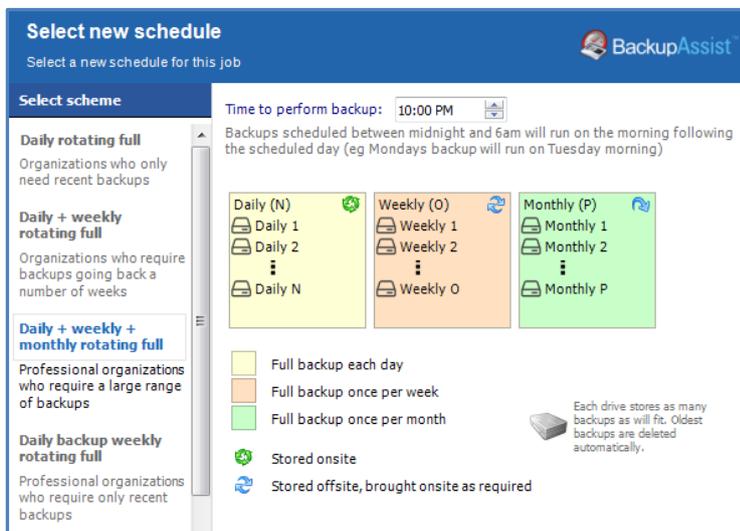


Figure 6: BackupAssist Manage menu - select schedule screen

## Customize schedule

This window can be used to modify each scheduled backup. The customizations available will depend on the backup type (*File Archiving, System Protection* etc.). To customize a schedule:

- Select **Customize schedule** to open the customization window.
- Make your modifications. E.g. rename a label, change the backup Method, set a media to eject.
- Once you have customized your schedule, click **OK** and then click **Apply changes**.
- Select **Calendar** from the left menu to verify that your schedule is configured correctly.

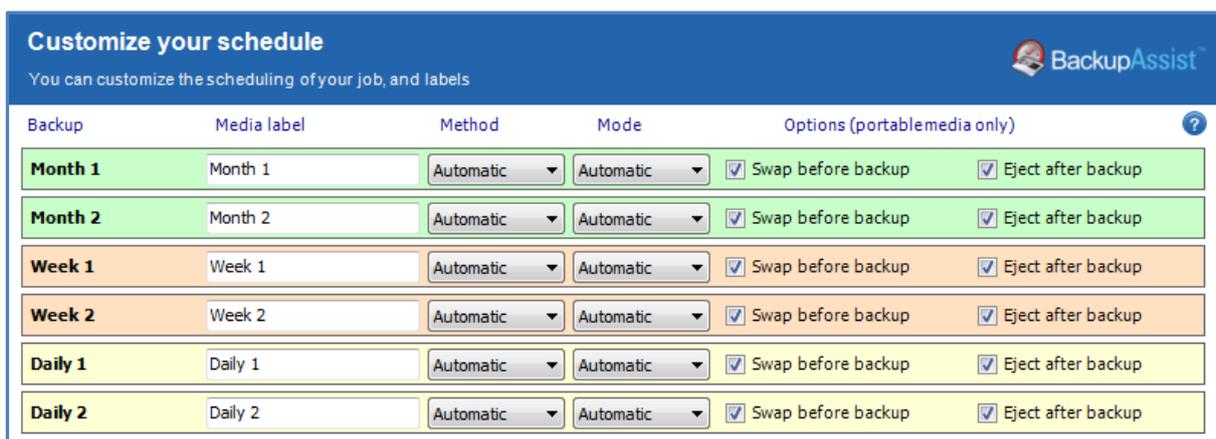


Figure 7: BackupAssist Manage menu – Edit Schedule screen

- For *File Protection* backups, the *Method* will be fixed to automatic because it is managed by BackupAssist due to the incremental imaging technology used.
- For *File Archiving* backups, you can change the *Method* used (e.g. full, differential & incremental).
- For *File Protection* backups, the *Method* can only be set to *Automatic* because *Single Instance Store* (SIS) is used. SIS can provide the benefits of an incremental backup in a full backup format.

**!** For more information about scheduling, see our scheduling blog articles [part 1](#) and [part 2](#).

## Notifications

There are two types of notifications that can be configured for a backup job:

- **Report notifications**

Once a backup has finished, BackupAssist can inform you of the result. You can receive reports for all backups that have completed or only for backups that have failed. Report notifications can be emails, printed reports or saved files.

- **Maintenance notifications**

Some devices need regular maintenance, like tape cleaning and drive defragmentation. Maintenance notifications can remind you to perform these tasks. Maintenance notifications can only be sent as emails.

Before emails can be used for notifications, some configurations need to be made using the BackupAssist *Settings* tab. There are two items on this tab that apply to email notifications:

- **Email server settings**

To send emails, BackupAssist needs an SMTP server. Use this menu item to enter the details of the SMTP mail server to be used for the email notifications.

- **Email address list**

This option is used to define and store email addresses. This list will be used to populate the recipient list when configuring an email notification. Email addresses can also be added using the notification configuration wizard, and these addresses are automatically added to the *Email address list*.

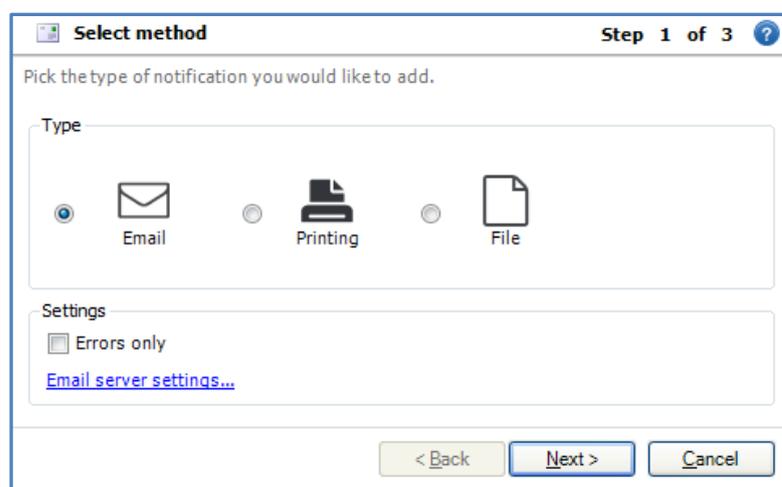
For information about *Email server settings* and *Email address list*, see the [Backup Settings whitepaper](#).

The following steps describe how to set up and configure a notification.

1. Select **Notifications**, from the left pane.
2. Click **Add notification** for either:

*Report notifications*, which will display the Email, Printing and File notification options.

*Maintenance notifications*, which will display the Email notification option.



**Figure 8: Notification method selection – Report notifications**

3. Select **Email**, **Printing** or **File** for the notification type.

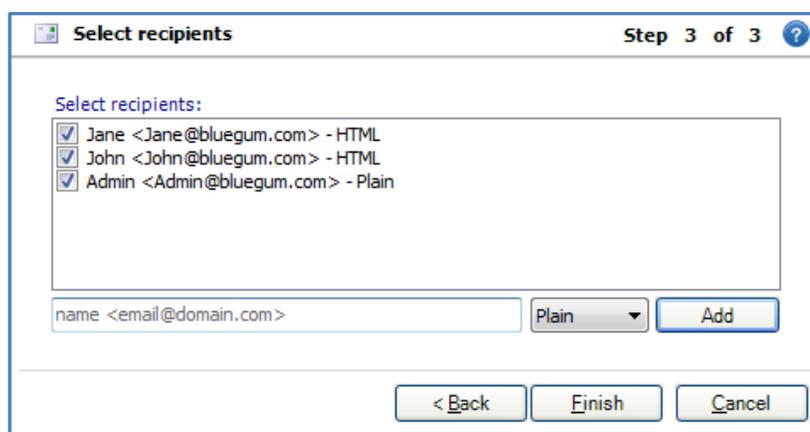
#### 4. Configure the notification

The instructions below are for the configuration of each notification type:

- **Email**

BackupAssist can use your email server to send notifications to any number of recipients. The SMTP server to be used must be entered into the BackupAssist *setting* tab item, *Email server settings*.

- Select **Email**, and click **Next**.
- Create a subject line for the report. You can use custom variables to have a dynamic subject line, such as the job name, the status of the job and the date. The window will present the format, %JOB\_NAME% : %STATUS%. Custom variables can be selected from the list. Click next.
- Specify the recipients for the backup report.



**Figure 9: Backup notification configuration – email recipient selection**

You can select email recipients for this backup report, using the list provided. This list is taken from the *Email address list*, option in the BackupAssist *Settings* tab. The *Select recipients* window can also be used to add new email addresses.

- **Printing**

Reports can be sent to a printer to provide you with a hardcopy of the backup result. The printer must be set up in Windows under Control Panel > Printers & Faxes.

Be sure the Backup User Identity (BUI) has the printer defined and accessible. When defining a job under another user, a printer may show up but not when the job is executed under the BUI, unless it is defined.

Select the printer(s) you want to print to.

- **File**

BackupAssist can export the report as a file. This can be useful for servers that may not have email or printer access. You can export the file to a directory for later access or for the purpose of archiving.

- Set your file name. You can use custom variables to have a dynamic subject line, such as the job name, the status of the job and the date. Similar to "Email: Step b)"
- Specify the location for the file to be saved to. You can also specify the format the file is saved in: HTML or Text.

#### 5. Click Finish, once the notification type has been configured.

## Scripts

Most users should be able to use BackupAssist without adding custom scripts. The software was designed to include all the options needed to set up a best-practice backup strategy. Before adding custom scripts, please check the options in the console and the help files. It could be the case that the function you require is already available elsewhere in the program. Where possible, you should use inbuilt options rather than custom scripts. If you think your requirement is common enough that it should be in the program, please send us an email at [support@backupassist.com](mailto:support@backupassist.com).

Some users will have requirements specific to their backup strategy. For those users we have provided the ability to add custom scripts to BackupAssist. Custom scripts can be used for a number of purposes: to copy or compress backup files, to integrate with command line programs, to restart services, authenticate to remote machines and deleting files from a directory

There are four separate sections for adding scripts to BackupAssist:

- **Before each backup** - This script runs before any other step of the backup. You can add scripts here for authenticating to network resources, setting up backup folders or suspending programs that could interfere with the backup, such as anti-virus applications.
- **After each backup** - This script runs after all the other steps in the backup process have been completed. You can add scripts here to disconnect from network resources, restart any programs that were previously suspended, or to perform any number of post-backup operations.
- **After each successful backup** - This script runs before the 'After each backup' script, but only if the backup completed successfully. You can enter commands here that you only want executed if the backup succeeded, such as copying the backup file to another location, or compressing the backup file.
- **After each failed backup** - This script runs just before the 'After each backup' script, but only if the backup fails to complete. This is useful if you want to send a network broadcast alerting someone quickly to a failed backup, or to clean-up folders and quarantine failed backups.

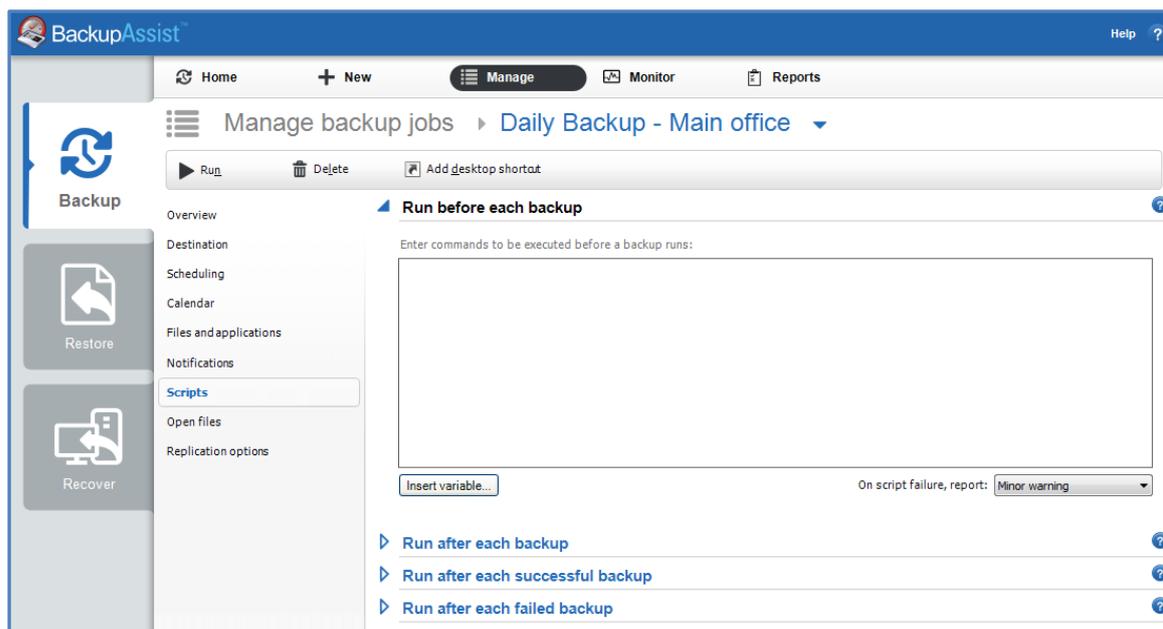


Figure 10: Manage jobs menu – scripts screen

**Variables:** BackupAssist also offers users a number of environment variables that can easily be incorporated into scripts. These variables help you to powerfully customize backup scripts and perform different commands depending on conditional variables.

1. Click Insert variable. (You can insert as many additional variables as required.)
2. Choose a variable from the list. The variable will be inserted into your script, with percentage signs.

Scripts that are run before each backup can make use of any of the following variables:

**COMPUTER\_NAME** - the name of the computer performing the backup.  
**JOB\_NAME** - the name of the backup job set in the 'Overview' section.  
**TIME** - the current time, e.g. '11:30:00 AM'.  
**DAY** - the day of the month, e.g. '12' for the twelfth day of the month.  
**MONTH** - the month of the year, e.g. '5' for May.  
**YEAR** - the year e.g. '2007'  
**DATE** - the date using your system's date format, e.g. '08/24/2007' for America.  
**FILE\_DATE** - a file friendly year - month - day format for the date, e.g. '2007-08-24'.  
**FILE\_TIME** - a file friendly 24 hour time format e.g. '15.09' for 9 minutes past 3pm.  
**WEEKDAY** - a short description of the current day of the week e.g. 'Mon'  
**BACKUP\_LABEL** - the label that BackupAssist has given this backup; this does not necessarily match tape labels or filenames. E.g. 'Week 2', 'Monday' or 'Month 1'.  
**BACKUP\_METHOD** - a variable describing whether the backup's is overwrite or append.  
**FREQUENCY\_TYPE** - whether this is a monthly, weekly, yearly, quarterly or daily backup.  
**IS\_MEDIA\_CHANGE** - whether the media was to be changed before the backup.  
**EJECT\_AFTER\_BACKUP** - whether the media is to be ejected after the backup ('true' or 'false').  
**MEDIA\_LABEL** - same as the backup label.  
**BACKUP\_FILENAME** - the filename of the backup including the full path e.g. 'D:\Backups\Monday.bkf'  
Scripts that are run after each backup can make use of the following variables:  
**BACKUP\_SIZE** - the size of the backup in bytes.  
**RUN\_LENGTH** - the amount of time the backup took to run.  
**STATUS** - whether the backup succeeded or failed.

You should typically test all scripts in a command prompt environment before entering them into your backup job's configuration. See the in-screen help option to scripting guidelines.

**Reporting:** You can determine how a failed script is flagged within the backup report by using the *On script failure* report drop-down menu. The options available are:

**No error-** If the script fails to execute the overall status of the backup job will not be affected.  
**Minor warning:** If the script fails to execute a minor warning will be logged and then displayed in the backup report.  
**Major warning:** If the script fails to execute a major warning will be logged and displayed in the backup report.  
**Error-** If the script fails to execute an error will be logged and then displayed in the backup report. The job will also terminate at this point before completing any further processes. This is useful for the Before backup script if you want to stop the backup job from running if the script fails.

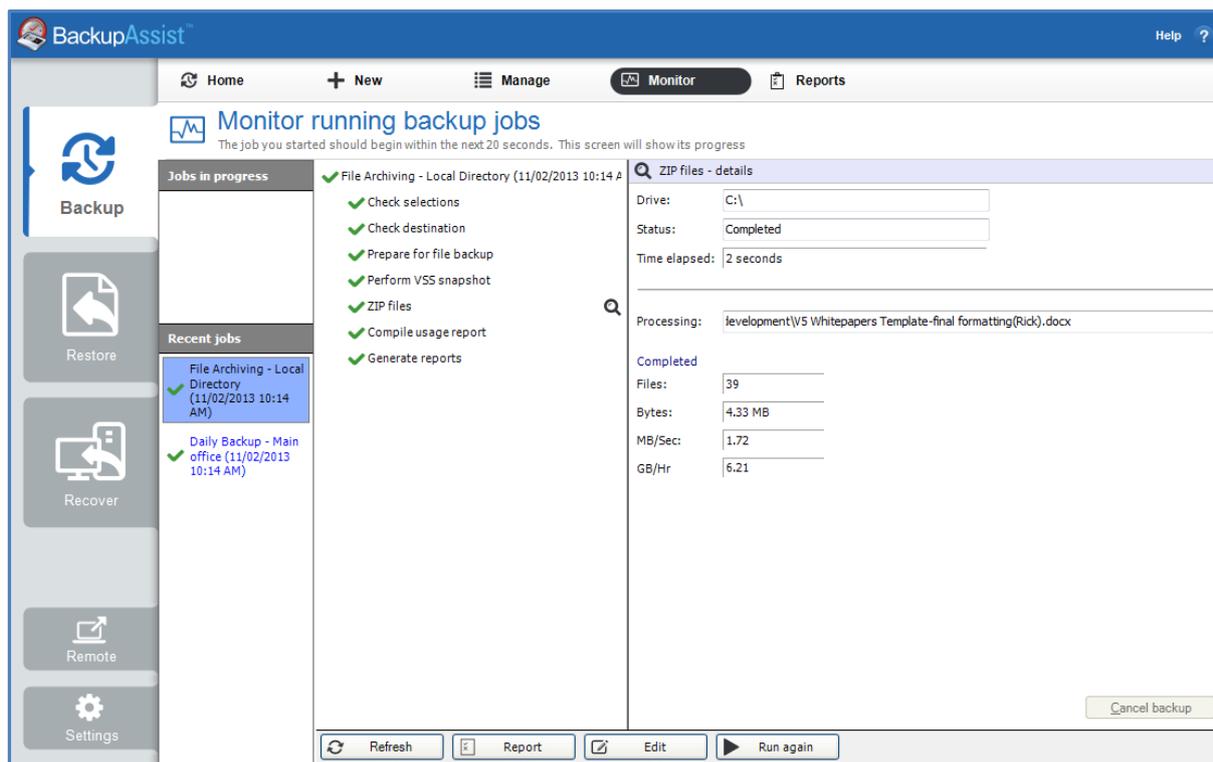
Important: Once a backup job has been created with scripting, it should be tested. To test your backup job, manually create a backup using the Run option in the Manage screen.

## 4. Monitor live backups



The **Monitor** menu will display the details of a backup job running in real-time. It can also be used to view the progress information of completed backup jobs.

This is the default screen when a scheduled backup is run, or when a backup is run ad-hoc. The information is displayed in real-time and any checks, changes and error are displayed as they occur.



**Figure 11: BackupAssist - Monitor Running Backup Jobs screen**

Below is a description of each key function:

- **Jobs in Progress** will display the currently running backup. The progress of the backup will be displayed in the middle pane. If multiples jobs are scheduled to run on the same installation of BackupAssist, the jobs will be queued and run in the order they were submitted.
- **Recent jobs** will show the progress summary and the details summary that were created when the backup job was run. Once a backup job has completed, it will move to the recent jobs list.
- **Cancel backup** can be used to stop a backup that has started running.
- **The refresh button** can be used to update the information displayed. Although real-time progress is shown when a backup job runs, this option can force a display update.

## 5. View backup reports



When the **Reports** option is selected, a list of all the backup jobs that have run will be displayed. Double clicking on a backup job, will open the backup report.

These reports can also be sent as notifications, as explained in the notifications section. The backup report should be checked after each backup has been run, to verify that your job ran as intended.

The *Date*, *Name*, *Label*, *Computer* and *Status* columns can be used to sort the reports. The filter bars at the top can be used to filter the reports by month, day, job name, computer name and backup result.

Date	Name	Label	Computer	Status
11/02/2013 10:14 AM	File Archiving - Local Directory	Week 2	WS-RICK	Successful
11/02/2013 10:14 AM	Daily Backup - Main office	Week 2	WS-RICK	Successful
11/02/2013 12:00 AM	SQL Database - Full Offsite	Monday	WS-RICK	Errors occurred
8/02/2013 10:00 PM	SQL File Archiving	Friday	WS-RICK	Successful
8/02/2013 4:07 PM	SQL Database - Full Offsite	Monday	WS-RICK	Successful
8/02/2013 10:34 AM	SQL File Archiving	Friday	WS-RICK	Successful
8/02/2013 10:29 AM	SQL Database - Full Offsite	Friday	WS-RICK	Successful
8/02/2013 10:28 AM	SQL Database backup - Daily	Friday	WS-RICK	Successful
8/02/2013 9:59 AM	SQL System Protection	Friday	WS-RICK	Errors occurred
8/02/2013 9:57 AM	SQL System Protection	Thursday	WS-RICK	Errors occurred
8/02/2013 9:56 AM	SQL File Protection	Mirror	WS-RICK	Successful
7/02/2013 10:01 PM	Archive to Tape	Thursday	WS-RICK	Successful
7/02/2013 10:00 PM	new file protection	Mirror	WS-RICK	Successful
7/02/2013 10:00 PM	File Protection - RDX	Daily 1	WS-RICK	Errors occurred
7/02/2013 10:00 PM	File Protection local	Thursday	WS-RICK	Successful
6/02/2013 10:01 PM	Archive to Tape	Wednesday	WS-RICK	Successful

Figure 12: BackupAssist Backup tab – Reports menu

The report will provide different information for different types of backup jobs, but all the reports will provide a summary, a detailed analysis of the process, a destination check and a description of any errors that occurred.

Below are two examples of the sections contained in a backup report.

**"Exchange mailbox" Report** Backup to: Exchange mailbox directory  
Date: Thursday, 3 January 2013 1:06:05 PM

✓ "Exchange mailbox" Successful

▲ Errors / Warnings  
No errors or warnings to report.

▲ Backup Job

Item	Details / Results
BackupAssist Version	7.0.0b309
Computer Name	WS-RICK
Backup User	CORTEXT\rick.dwjyer
Backup Destination	Exchange mailbox directory
Backup Label	Manual backup
Start Time	Thursday, 3 January 2013 1:05:40 PM
End Time	Thursday, 3 January 2013 1:06:05 PM
Duration	24 seconds

▲ Process Summary

Process	Status
✓ Destination Check	Successful ✓
✓ Exchange Mailbox for TESTINGSBS08: January - March 2013	Successful ✓

▲ Destination Check

The Destination Check task has status: Successful ✓

Media	Result
Available	Media that were successfully tested: ✓ C:\ProgramData\BackupAssist v7\temp\Exmergel
Unavailable	Media that could not be accessed: (none)

▲ Exchange Mailbox for TESTINGSBS08: January - March 2013

The Exchange Mailbox for TESTINGSBS08: January - March 2013 task has status: Successful ✓

View the original log file.

Mailbox	Folders	Messages (successful/failed)	Errors
largemail	9	0/0	*
Public Folders - Administrator@testingsbs.local	10	0/0	*
blue	16	0/0	*
admin	25	0/0	*
smallmail	16	0/0	*

## 6. Support and Resources

### Contacting Technical Support

Should you have any questions regarding either BackupAssist or the Backup tab, please email [support@backupassist.com](mailto:support@backupassist.com) and we will respond to you as soon as possible.

Similarly, if you have any suggestions for additional functionality in BackupAssist, or new products or add-ons, please also forward your feedback to [support@backupassist.com](mailto:support@backupassist.com)

### Learn more – The Welcome Screen

Each tab in BackupAssist includes a “Learn More” link on the tab’s **Home** page.

Selecting the **Learn more about Backup** link will open the **Welcome Screen** with the Backup introduction selected. This screen provides an overview of the tab’s functions and features, and links to documentation and resources.

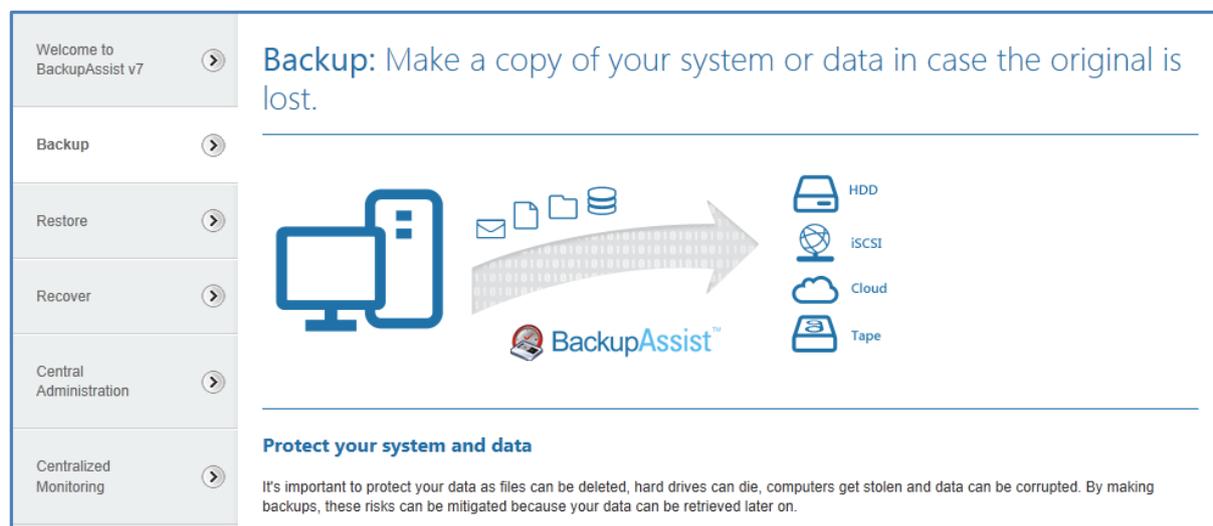


Figure 13: Backup tab – Welcome Screen