

Carbonite Server Backup Exchange Plug-in 8.3





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Acknowledgements: Two encryption methods, DES and TripleDES, include cryptographic software written by Eric Young. The Windows versions of these algorithms also include software written by Tim Hudson. Bruce Schneier designed Blowfish encryption.

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The Carbonite Server Backup Agent, Carbonite Server Backup CentralControl, and Carbonite Server Backup Director applications have the encryption option of AES (Advanced Encryption Standard). Advanced Encryption Standard algorithm (named Rijndael, pronounced "Rain Doll") was developed by cryptographers Dr. Joan Daemen and Dr. Vincent Rijmen. This algorithm was chosen by the National Institute of Standards and Technology (NIST) of the U.S. Department of Commerce to be the new Federal Information Processing Standard (FIPS).

The Carbonite Server Backup Agents and Carbonite Server Backup Director applications also have the added security feature of an over the wire encryption method.

Document History

Version	Date	Description
1	October 2017	Carbonite Server Backup- branded Exchange Plug-in 8.3x guide.

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1 Introduction to the Exchange Plug-in

To protect Microsoft Exchange databases, install the Exchange Plug-in with the 64-bit Windows Agent on the server where Exchange is running. You can then add and run backup jobs that specify which Exchange databases to back up, and where to save the backup data.

After an Exchange database is backed up, you can:

- Restore the database to its original location, to an alternate Exchange database location or to flat files.
- Restore mailboxes, messages, and other Exchange objects using the plug-in and the Granular Restore for Microsoft Exchange application.

For installation and configuration information, see the Windows Agent guide or Portal online help. For supported platform information, see the Windows Agent release notes.

1.1 Required permissions

In addition to permissions required for the Windows Agent, the account specified during the Agent and Exchange Plug-in installation must belong to the following groups:

- Exchange Organization Administrators
- Group Policy Owners
- Schema Admins
- Enterprise Admins
- Domain Admins

2 Add an Exchange backup job

After a Windows computer with the Exchange Plug-in is added in Portal, you can create a backup job for one or more Microsoft Exchange databases. The backup job specifies which databases (Exchange 2010, 2013 and 2016) or storage groups (Exchange 2007) to back up, and where to save the backup data.

When running or scheduling an Exchange backup job, you can specify whether to run a Full or Incremental backup and whether to validate the Exchange data. See <u>Run and schedule backups and synchronizations</u> and <u>Plan Full and Incremental Exchange backups</u>.

After an Exchange backup job runs successfully, transaction logs for databases in the job are truncated so that the logs only contain changes that occurred after the backup.

When an Exchange server has multiple databases (Exchange 2010, 2013 and 2016) or storage groups (Exchange 2007), you can put the databases and storage groups into separate jobs and run the jobs simultaneously. Do not create parallel jobs for the same database (Exchange 2010, 2013 and 2016) or storage group (Exchange 2007) or conflicts could prevent the jobs from completing successfully. Conflicts could also occur if you create backups using third-party applications or Agents on other Database Availability Group members.

With Exchange 2007, your high-availability solution can affect the backup strategy. When Cluster Continuous Replication (CCR) is used, a backup only succeeds if there is only one database in the storage group in the backup job. You can run backups on either the Active or Passive node, but running backups on the Passive node is recommended. When Local Continuous Replication (LCR) is used, you can specify whether to back up data on the active copy of each storage group or on the replica copy. The replica copy can only be used for a backup if LCR is enabled for all storage groups in the job. If LCR is not enabled for all storage groups, the active copy is used for the backup.

When an Exchange backup job runs, databases in the job that are mounted or healthy are backed up. Other databases are skipped. If a database is skipped when a job runs but is mounted or healthy for the following run, the database backup does not reseed during the following run. However, if a database is skipped in two or more consecutive runs, the database backup reseeds during the next backup when the database is mounted or healthy. If no databases in a backup job are mounted or healthy when the job runs, the backup fails.

To add an Exchange backup job:

1. On the navigation bar, click **Computers**.

The Computers page shows registered computers.

- 2. Find a Windows computer with the Exchange Plug-in, and expand its view by clicking the computer row.
- 3. Click the **Jobs** tab.

If a valid vault connection is not available for the computer, you cannot access the **Jobs** tab. For more information, see the Portal online help or Windows Agent guide.

- 4. In the Select Job Task menu, click Create New Exchange Server Job.
- 5. In the **Create New Job** dialog box, specify the following information:
 - In the **Name** box, type a name for the backup job.
 - In the **Description** box, optionally type a description for the backup job.
 - In the **Destination** list, select the vault where you want to save the backup data.

A vault only appears in the list if it assigned to the user, or if the user added it on the computer's Vault Settings tab.

- In the Log File Options list, select the level of detail for job logging. For more information, see Log file options.
- For new backup jobs, the encryption method is AES 256 bit. Existing jobs can have other encryption methods. See <u>Encryption settings</u>.
- In the **Password** and **Confirm Password** boxes, enter an encryption password. You can also enter a password hint in the **Password Hint** box.

Create New Job		• •
Name: Description:	Include in Backup Br III By EXCHANGE2010	Backup Set
Destination:		
Log File Options: Summary Encryption Settings: AES 256 bit		
Act 200 Dit		
Password Hint:		
You must remember your excryption password. Your data cannot be restored without your password.	mazie	
		Create job Cancel

- 6. In the Include in Backup box, do one of the following:
 - To add specific Exchange databases or storage groups to the backup job, select the check box for each database or storage group, and then click **Include**.
 - To back up Exchange databases or storage groups that match a filter when the job runs, select the check box for the server, and then click **Include**. An inclusion record appears in the **Backup Set** box.

In the **Filter** box, enter the names of databases or storage groups to back up. Separate multiple names with commas, and use asterisks (*) and question marks (?) as wildcard characters. For

example, to back up databases with names that end with "Management" or include the word "database" followed by a single character, enter the following filter: *management, database?

Note: Available items depend on the Microsoft Exchange version. You can select databases for Exchange 2010, 2013 and 2016. You can select storage groups for Exchange 2007.

Note: Filters in a backup job are applied when the job runs. New databases or storage groups that match the filters are automatically backed up when the job runs.

- 7. To back up data on an Exchange 2007 server where logical continuous replication (LCR) is enabled, do one of the following:
 - To only back up data from the active copy of each storage group, select **Only back up active** instance.
 - To back up data from the replica copy of each storage group, clear **Only back up active instance**.

Note: The replica copy can only be used for a backup if LCR is enabled for all storage groups in the job. If LCR is not enabled for all selected storage groups, the active copy of each storage group is used for the backup.

8. Click Create Job.

The job is created, and the **View/Add Schedule** dialog box appears. You can now create a schedule for running the backup. Click **Cancel** if you do not want to create a schedule at this time.

For information about how to run and schedule the backup job, see <u>Run and schedule backups and</u> <u>synchronizations</u>.

2.1 Log file options

When you create or edit a backup job, you can specify the level of detail for job logging. Select one of the following job logging levels from the list:

- **Files** Provides the most detailed information, and is typically used for troubleshooting. Provides information about files that are backed up.
- **Directory** Provides less detail than the Files logging level. Provides information about folders that are backed up.
- **Summary** Provides high-level information, including the vault and Agent version, and backup sizes.
- **Minimal** Provides high-level information, including the vault and Agent version.

Changing the logging level only affects log files that are created from that point and after. It does not affect previously-created log files.

2.2 Encryption settings

Encryption settings specify the encryption type for backup data at rest on the vault. AES 256 bit encryption is the only encryption type available for new backup jobs.

If an existing job uses another encryption type (e.g., AES 128 bit, Blowfish, DES, Triple DES, None), you can continue to encrypt the job using that type. However, if you change the encryption type for an existing job, you cannot change the encryption type back to the original type. Only AES 256 bit will be available.

If you change encryption options for an existing job, it will force a new full backup (i.e., a reseed). The next backup will take longer than previous delta backups, and the amount of data stored on the vault will increase temporarily, depending on your retention settings.

Encryption password

You must enter a password for the encrypted backup data. The password is case-sensitive. To recover the data, you must provide the encryption password that was entered when the files were backed up.

You can also enter a password hint. When restoring data, you can view the password hint to remind you of the encryption password for this job.

Important: If you forget the encryption password, you lose access to the data. You cannot retrieve the password from the system.

3 Run and schedule backups and synchronizations

After a backup job is created, you can run it manually (ad-hoc) at any time and schedule it to run.

When running or scheduling a backup, you can specify the following settings:

- Retention type.
- Deferring. You can use deferring to prevent large backups from running at peak network times. When deferring is enabled, the backup job does not back up any new data after the specified amount of time and commits the safeset to the vault, even if some data in the job is not backed up. Changes to data that was previously backed up will be backed up, regardless of the specified amount of time.

When the job runs again, the Agent checks for changes in data that was previously backed up, backs up those changes, and then backs up the remaining data.

Note: Incremental backups for Exchange cannot be deferred, even if deferring is enabled. Deferring can be applied to full backups for Exchange.

- For an Exchange Plug-in backup job, you can specify whether to:
 - Run a Full or Incremental backup. When the Full backup type is selected, the database files, checkpoint file and transaction logs are backed up. When the Incremental backup type is selected, the database files, checkpoint file and transaction logs are backed up in the first "seed" backup, but only the checkpoint file and transaction logs are backed up in subsequent runs. For more information, see <u>Plan Full and Incremental Exchange backups</u>.
 - Validate Exchange data during the backup. When this option is selected, a utility checks the Exchange data during the backup. If data corruption is detected, the backup fails and the corruption is reported.

When you schedule a job to run, you can also set the compression level for the data. The compression level optimizes the volume of data sent to the vault against the speed of processing. The default compression level is usually the optimal setting.

When a backup job first runs, all data selected in the job is backed up to the vault. This initial backup is called a "seed" backup. In subsequent backups, only data that has changed is backed up to the vault, unless a reseed is required (e.g., after a job's encryption password has changed). In a reseed, all data selected in a backup job is sent to the vault again, even though it has already been backed up.

After running a backup, you can view logs to check whether the backup completed successfully.

In some cases, you must synchronize a backup job before you run it or restore data from the job. When you synchronize a job, the Agent checks which safesets for the job are online and available for restore. See <u>Synchronize a job</u>.

3.1 Schedule a backup

After creating a backup job, you can add one or more schedules for running the job automatically.

You can create complex schedules for a job by creating multiple schedules. For example, you can schedule a backup job to run at midnight every Friday, and schedule the job to run at 8 pm on the first day of every month.

If a job is scheduled to start at exactly the same time by multiple schedules, the job only runs once at the scheduled time. If the jobs have different retention types, the retention type of the schedule that is highest in the list is applied to the resulting safeset. For example, in the following screenshot, the job is scheduled to run at 12 AM each Saturday with the Weekly retention type, and every day at 12 AM with the Daily retention type. On Saturdays, the job runs only once at 12 AM. Because the schedule with the Weekly retention type is higher in the list than the schedule with the Daily retention type, the Weekly retention type is applied to the safeset.

Note: If a job is scheduled to run at slightly different times, the Agent attempts to run the job according to each schedule. For example, if a job is scheduled to run at 11 PM by one schedule and 11:01 PM by another schedule, the Agent will attempt to run the job twice. Try to avoid overlapping schedules; problems can occur if a job is scheduled to run twice in a short period of time.

To schedule a backup:

- 1. Do one of the following:
 - On the navigation bar, click **Computers**. Find the computer with the backup job that you want to schedule, and click the computer row to expand its view. On the **Jobs** tab, find the job that you want to schedule. In its **Select Action** menu, click **View/Add Schedule**.
 - Create a new backup job. The View/Add Schedule dialog box appears when you save the job.
- 2. In the View/Add Schedule dialog box, click Add Schedule.

A new row appears in the dialog box.

- 3. In the new schedule row, in the **Retention** list, click a retention type.
- 4. If the schedule is for an Exchange database backup job, do the following:
 - In the **Backup Type** list, do one of the following:
 - To only back up transaction logs and the checkpoint file after the first "seed" backup, click **Incremental**.
 - To back up the database files, checkpoint file and transaction logs, click **Full**. For more information, see <u>Plan Full and Incremental Exchange backups</u>.
 - To validate Exchange data during the backup, select Validate Exchange database.
- 5. In the **Schedule** box, click the arrow.

The Configure Job Schedule dialog box opens.

6. In the **Configure Job Schedule** dialog box, do one of the following:

• To run the backup on specific days each week, in the **Schedule View** list, click **Days of Week**. Select the days when you want to run the job. Then use the **At** field to specify the time when you want to run the job.

Configure Job Schedule	? 🗙
Schedule View	
Days of Week	▼ Sa
At	55
0:00 AM (Agent time zone)	
Okay	Cancel

• To run the backup on specific dates each month, click **Days of Month** in the **Schedule View** list. On the calendar, select the dates when you want to run the job. Then use the **At** field to specify the time when you want to run the job.

Cor	nfigur	e Job	o Sch	edule			?	×			
Sche	dule V	iew									
Da	ays of	Month	1					•			
	1 2 3 4 5 6 7										
	8	9	10	11	12	13	14				
	15	16	17	18	19	20	21				
	22	23	24	25	26	27	28				
	29	30	31		La	ist		1			
At 12	:00 AN	1	Ø	(Ager	nt time	zone)					
					O	kay	Can	cel			

• To create a custom schedule, click **Custom** in the **Schedule View** list. In the **Custom Cycle** dialog box, enter a custom schedule. Be sure to follow the format and notation as described.

Configure Job Schedule
Schedule View
Custom
Custom Cycle
Format: min/hour/day of month/month/day of week Example: 0/18/*/*/1-5 Means: Start at 6 pm Monday through Friday Acceptable Values: minutes: 0-59 hours: 0-23 days: 1-31 months: 1-12 day of week: 0-6 (0 = Sunday) Keywords: '*' for every time 'Last' for the last day of any month
Okay Cancel

7. Click Okay.

The new schedule appears in the **Schedule** box.

- 8. In the **Compression** list, click a compression level for the backup data. Compression levels optimize the volume of data sent against the speed of processing.
- 9. Do one of the following:
 - To allow the backup job to run without a time limit, click **None** in the Deferring list.
 - To specify a maximum amount of time that the backup job can run, click **Minutes** or **Hours** in the **Deferring** list. In the adjacent box, type the maximum number of minutes or hours that the job can run.

Note: When deferring is used, the backup job does not back up any new data after the specified amount of time, even if some data is not backed up. Changes to data that was previously backed up will be backed up, regardless of the amount of time specified.

Note: Incremental backups for Exchange cannot be deferred, even if deferring is enabled. Deferring can be applied to full backups for Exchange.

- 10. To run the job on the specified schedule, select the **Enable** check box near the end of the row.
- 11. If there is more than one schedule row, you can use the **Priority** arrows to change the order of the schedule rows. Schedules higher in the list have a higher priority than schedules lower in the list.

If a job is scheduled to run at the same time by multiple schedules, the job only runs once at the scheduled time. If the schedules have different retention types, the job only runs with the retention type of the schedule that is highest in the list.

12. Click Save.

3.2 Run an ad-hoc backup

After a backup job is created, you can run the backup at any time, even if the job is scheduled to run at specific times.

To run an ad-hoc backup:

1. On the navigation bar, click **Computers**.

A grid lists available computers.

- 2. Find the computer with the backup job that you want to run, and expand its view by clicking the computer row.
- 3. Click the **Jobs** tab.
- 4. Find the job that you want to run, and click **Run Job** in its **Select Action** menu.

The **Run Job** dialog box shows the default settings for the backup.

Note: Beginning at this point, you can click **Start Backup** to immediately start the job. If you prefer, you can change backup options before running the job.

5. In the **Retention Scheme** list, click a retention type.

The retention type specifies the number of days a backup is kept on the vault, how many copies of a backup are stored online, and how long backup data is stored offline.

- 6. If you are backing up an Exchange database, do the following:
 - In the **Backup Type** list, do one of the following:
 - To only back up transaction logs and the checkpoint file after the first "seed" backup, click **Incremental**.
 - To back up the database files, checkpoint file and transaction logs, click Full.

For more information, see Plan Full and Incremental Exchange backups.

- To validate Exchange data during the backup, select Validate Exchange database.
- 7. Do one of the following:
 - To allow the backup job to run without a time limit, clear the **Use Deferring** check box.
 - To specify a maximum amount of time that the backup job can run, select the **Use Deferring** check box. From the **Backup time window** list, select **Minutes** or **Hours**. In the adjacent box, type the maximum number of minutes or hours that the job can run.

Note: When deferring is used, the backup job does not back up any new data after the specified amount of time, even if some data is not backed up. Changes to data that was previously backed up will be backed up, regardless of the backup time window.

Note: Incremental backups for Exchange cannot be deferred, even if deferring is enabled. Deferring can be applied to full backups for Exchange.

8. Click Start Backup.

The **Process Details** dialog box shows the backup progress, and indicates when the backup is completed. Other recent job processes might also be listed in the dialog box. See <u>View current</u> process information for a job.

- 9. If you want to stop the backup, click **Stop**.
- 10. To close the **Process Details** dialog box, click **Close**.

3.3 Plan Full and Incremental Exchange backups

When you run or schedule an Exchange database backup job, you can specify whether to run a Full or Incremental backup. In a Full backup, the database files, checkpoint file and transaction logs are backed up. In an Incremental backup, only the transaction logs and checkpoint file are backed up after the first "seed" backup.

An Incremental backup takes less time to run than a Full backup. However, the time required to recover an Exchange database increases with the number of consecutive Incremental backups. To reduce the amount of time required for a recovery, we recommend performing a Full backup periodically. For example, you could schedule an Exchange backup job to run frequently with the Incremental backup type and periodically (e.g., once per week) with the Full backup type. As shown in the following table, the appropriate backup schedule can also depend on the Exchange database size and traffic.

Exchange database description	Sample backup schedule
Low traffic – approximately 250 users,	Full backup every second Saturday night;
4 GB of data, 250 MB of daily data traffic	Incremental backup on other nights
Medium traffic – approximately 1000 users,	Full backup every Saturday night;
16 GB of data, 1 GB of daily data traffic	Incremental backup on other nights
High traffic – approximately 4000 users,	Full backup every Wednesday and Saturday
64 GB of data, 4 GB of daily data traffic	night; Incremental backup on other nights
High traffic – approximately 4000 users,	Full backup every Saturday night (which could
64 GB of data, 4 GB of daily data traffic, insufficient	be deferred to Sunday, if required);
bandwidth for large backups during the week	Incremental backup on other nights

You should always perform a Full backup after database repair, defragmentation or recovery. These processes significantly change Exchange databases.

Exchange maintenance can affect how much data is transferred during a Full backup. If you run daily maintenance on your Exchange server, the database will change considerably each day. When performing a Full backup, these changes are incorporated into the safeset and will result in longer Full backup times.

When scheduling backup jobs, consider the maintenance window. Backup jobs have priority over mailbox database maintenance. If a backup job runs at the same time as maintenance processes, maintenance will be put on hold until the backup is finished. A maintenance window usually provides enough time for

maintenance processes to finish after an Incremental backup, but a Full backup could prevent maintenance processes from running.

3.4 Synchronize a job

When a backup job is synchronized, the Agent checks which safesets for the job are online and available for restore.

A job is synchronized automatically when you restore data from the job. You can also synchronize a job manually at any time. A manual synchronization is recommended or required in the following cases:

- Before running backup jobs on reregistered computers.
- Before restoring data from jobs that are backed up to a Satellite vault and replicated to the cloud or another vault.
- To rebuild a delta (.dta) file for a job. If an error message in a log file says that the delta mapping file is corrupt, delete the delta (.dta) file from the job folder on the protected computer and then synchronize the job to rebuild the delta file.

To synchronize a job:

1. On the navigation bar, click **Computers**.

The Computers page shows registered computers.

- 1. Find the computer with the job that you want to synchronize. Expand its view by clicking its row.
- 2. Click the Jobs tab.
- 3. Find the job that you want to synchronize, and click **Synchronize** in its **Select Action** menu.

The **Process Details** dialog box shows the backup progress, and indicates when the backup is completed. Other recent job processes might also be listed in the dialog box. See <u>View current</u> process information for a job.

4. If you want to stop the backup, click **Stop**.

To close the **Process Details** dialog box, click **Close**.

4 Restore Exchange databases

You can restore a Microsoft Exchange database to its original location or to an alternate Exchange database (e.g., a recovery database in Exchange 2010, 2013 or 2016). To overwrite an existing database, the database must be unmounted and marked for overwrite.

When restoring an Exchange database, you can specify whether or not to replay transaction logs into the database and mount the database in Exchange. If this option is selected, the logs are rolled forward if they are in the original directory and no log files are missing or corrupt. If this option is not selected, transaction logs are restored to the system but are not replayed into the restored database. The Administrator must review the restored files and manually mount the database.

The process of restoring the database files to the system is recorded in the job logs. The process of replaying transaction logs into the database is recorded in the Windows Event Viewer.

For more information about Exchange restore strategies, see <u>Restore Exchange 2010, 2013 and 2016</u> <u>databases</u>, <u>Restore Exchange 2007 databases</u> and documentation from Microsoft.

To restore Exchange databases to flat files, see <u>Restore Exchange databases to flat files</u>.

To restore an Exchange database:

1. On the navigation bar, click **Computers**.

A grid lists available computers.

- 2. Find the computer with the Exchange database you want to restore, and expand its view by clicking the computer row.
- 3. Click the **Jobs** tab.
- 4. Find the job whose Exchange database you want to restore, and click **Restore** in the **Select Action** menu for the job.
- 5. In the Choose What You Want to Restore dialog box, select Exchange Databases, and click Okay.

The **Restore** dialog box shows the most recent safeset for the job.

- 6. To restore data from an older safeset or from SSI (safeset image) files, do one of the following:
 - To restore data from an older safeset, click the calendar button. In the calendar that appears, click the date of the safeset from which you want to restore. To the right of the calendar, click the specific safeset that you want to use.
 - To restore data from SSI (safeset image) files on disk, select Directory on disk from the Source Device list. Click the folder button.
 In the Select Folder dialog box, select the directory where the files are located, and click Okay.

SSI files are full backups exported from the vault or backed up from a computer to disk instead of to a vault. It can be quicker to save backup files on physical media and transport them to a location for a restore, than to restore data from a vault in a remote datacenter.

Note: You cannot restore from backups to disk (SSI files) until the safeset is imported into the vault and the Agent is synchronized with the vault.

- 7. In the Items to Restore box, select the check box for each database that you want to restore.
- 8. Select a Restore Destination option:
 - To restore data to the location where it was backed up, select **Restore files to their original location**.
 - To restore to an alternate Exchange database, select **Restore to an alternate Exchange** database. In the **Current Chosen Destination** box, click **Browse**. In the **Select Folder** dialog box, select the location where you want to restore, and click **Okay**.
- In the Encryption Password box, enter the data encryption password. To view the password hint, click the Hint button.
- 10. To change the log detail level, bandwidth throttling setting or hard recovery option, click **Advanced Restore Options**. In the dialog box, do one or more of the following:
 - In the Log Level Detail list, select the level of detail for job logging.
 - Select or clear the Use all available bandwidth option.
 - Select or clear the **Start Hard Recovery** option.

If the **Start Hard Recovery** option is selected, transaction logs are replayed after the database is restored and the restored database is mounted by Exchange. Logs are also rolled forward if they are in the original directory and no log files are missing or corrupt.

If the **Start Hard Recovery** option is not selected, transaction logs are restored to the system but are not replayed after the database is restored. The restored database is not mounted by Exchange. The Administrator must review the restored Exchange files and manually mount the database.

Click Okay.

11. Click Run Restore.

The **Process Details** dialog box shows the restore progress and indicates when the restore is completed. Other recent job processes might also be listed in the dialog box. See <u>View current</u> process information for a job.

To close the **Process Details** dialog box, click **Close**. If the restore is running, it will continue to run.

4.1 Restore Exchange 2010, 2013 and 2016 databases

In Exchange Server 2010, 2013 and 2016, you can only restore databases to the active copy in a Database Availability Group. If you restore to the replica copy, you will not be able to mount the database or make it active. You will need to copy the restored files to the active copy node in order to successfully mount (and take precedence over the other copies). You will also need to update each copy through the Exchange Management Console. For more information, see documentation from Microsoft.

If you are restoring to a new location and you want to mount the database, you must first create a recovery database through the Exchange Management Shell. For more information, see documentation from Microsoft.

To restore an Exchange 2010, 2013 or 2016 database to an alternate location on a non-Exchange server, you must clear the **Start Hard Recovery** option.

If a database's transaction log files are missing or damaged, an incremental backup after the recovery will not succeed. Perform a full backup before you attempt another incremental backup.

4.2 Restore Exchange 2007 databases

In Exchange Server 2007, you can only restore databases to the active node of an Exchange CCR cluster. Otherwise, the restore will fail.

If you are restoring to a new location and you want to mount the database, you must first create a database in a recovery storage group through the Exchange Management Shell. For more information, see documentation from Microsoft.

Restoring a single database to a storage group with more than one database could result in data loss from other databases.

If a database's transaction logs are missing or damaged, an incremental backup after the recovery will not succeed. Perform a full backup before you attempt another incremental backup.

4.3 Restore Exchange databases to flat files

On a computer where the Exchange Plug-in is installed, you can restore an Exchange database to flat files. The Eseutil utility can then be used to bring the data into a database.

To restore an Exchange database to flat files:

1. On the navigation bar, click **Computers**.

A grid lists available computers.

- 2. Find the computer with the Exchange database that you want to restore, and expand its view by clicking the computer row.
- 3. Click the **Jobs** tab.
- 4. Find the job with the Exchange database that you want to restore, and click **Restore** in the **Select Action** menu for the job.
- 5. In the Choose What You Want to Restore dialog box, select Restore to folder, and click Okay.

The **Restore** dialog box shows the most recent safeset for the job.

6. To restore data from an older safeset, or from SSI (safeset image) files, do one of the following:

- To restore data from an older safeset, click the calendar button. III In the calendar that appears, click the date of the safeset from which you want to restore. To the right of the calendar, click the specific safeset that you want to use.
- To restore data from SSI (safeset image) files on disk, select **Directory on disk** from the **Source Device** list. Click the folder button.
 In the **Select Folder** dialog box, select the directory where the files are located, and click **Okay**.

SSI files are full backups exported from the vault or backed up from a computer to disk instead of to a vault. It can be quicker to save backup files on physical media and transport them to a location for a restore, than to restore data from a vault in a remote datacenter.

Note: You cannot restore from backups to disk (SSI files) until the safeset is imported into the vault and the Agent is synchronized with the vault.

- 7. In the **Files to Restore** box, select the check box for each database or storage group that you want to restore.
- 8. In the **Encryption Password** box, enter the data encryption password. To view the password hint, click the **Hint** button.
- 9. Under **Restore Destination**, enter a path for the destination, or click the folder button. In the **Select Folder** dialog box, select the location where you want to restore, and click **Okay**.
- 10. To change the log detail level, bandwidth options or hard recovery option, click **Advanced Restore Options**. In the dialog box, do one or more of the following:
 - In the Log Level Detail list, select the level of detail for job logging.
 - Select or clear the Use all available bandwidth option.
 - Select or clear the **Start Hard Recovery** option.

If the **Start Hard Recovery** option is selected, transaction logs are replayed after backup data is restored. The restored storage database is prepared for use by Exchange, and logs are rolled forward if they are in the original directory and no log files are missing or corrupt. These processes are recorded in the Windows Event viewer.

If the **Start Hard Recovery** option is not selected, the storage group/database will not be available to Exchange after a restore. The Administrator must review the restored Exchange files and database and manually mount the database. For more information, see documentation from Microsoft.

Click Okay.

11. Click Run Restore.

The **Process Details** dialog box shows the restore progress and indicates when the restore is completed. Other recent job processes might also be listed in the dialog box. See <u>View current</u> process information for a job.

To close the **Process Details** dialog box, click **Close**. If the restore is running, it will continue to run.

5 Restore Exchange mailboxes, messages and other objects

If a Microsoft Exchange database is backed up using the Exchange Plug-in, you can restore mailboxes, messages, and other objects from the backup.

To restore items from a Microsoft Exchange backup, you must first use Portal to expose the Exchange safeset as a shared resource. You can then use the Granular Restore for Microsoft Exchange and SQL application to find and restore mailboxes, messages and other Exchange objects.

For more information, or to obtain the Granular Restore for Microsoft Exchange and SQL application, contact your service provider.

To restore Exchange mailboxes, messages and other objects:

1. On the navigation bar, click **Computers**.

A grid lists available computers.

- 2. Find the computer with Exchange objects that you want to restore, and expand its view by clicking the computer row.
- 3. Click the **Jobs** tab.
- 4. Find the job with Exchange objects (e.g., messages) that you want to restore, and click **Restore** in the **Select Action** menu for the job.

The Choose What You Want to Restore dialog box appears.

- 5. Select Mailboxes, messages and other Exchange objects, and click Okay.
- 6. In the **Restore** dialog box, choose a safeset from which to restore.
- 7. In the **Encryption Password** box, enter the data encryption password. To view the password hint, click the **Hint** button.
- 8. In the **Idle Time** box, enter the number of minutes of inactivity after which the share should automatically stop. The value can range from 2 to 180.
- 9. Select or clear the Use all available bandwidth option.
- 10. Click Share.

The **Process Details** dialog box shows the status of the share process. When the share is available, the share path appears at the right side of the dialog box.

- 11. Click the Copy Path to Clipboard button. The path to the safeset share is now available for you to paste into the Granular Restore application.
- 12. Launch the Granular Restore for Microsoft Exchange and SQL application. Paste the path to the Exchange safeset share into the Granular Restore application, and then select and restore your data. For more information, see the *Granular Restore for Microsoft Exchange and SQL User Guide*.

13. When you no longer need the safeset share, click **Stop**.

When you click **Stop** or the share idle time is reached, the **Current Process** information indicates that the share is no longer available.

6 Monitor computers and processes

You can monitor backups, restores, and protected computers using the following Portal features:

- Computer page. The Computer page shows status information for protected computers and their jobs. See <u>View computer and job status information</u>.
- Process Details dialog box. This dialog box shows information about all running, queued and recently-completed processes for a job. See <u>View current process information for a job</u>.
- Process logs and safeset information. Process logs indicate whether each backup and restore completed successfully, and provide information about any problems that occurred. You can also view information about the safeset created by a specific backup. See <u>View a jobs process logs and safeset information</u>.
- Monitor page. The Monitor page shows the most recent backup status for each job, and allows you to navigate to the computer and job for each backup. See <u>View and export recent backup statuses</u>.

6.1 View computer and job status information

On the Computer page in Portal, you can view status information for protected computers and their jobs.

To view computer and job status information:

1. On the navigation bar, click **Computers**.

The Computers page shows registered s.

The **Availability** column indicates whether each is online or offline. Online computers are in contact with Portal, while offline computers are not currently available. A computer can be offline if it is turned off, if the Agent has been uninstalled from the system, or if the system has been lost.

The Status column shows the status of each computer. Possible statuses include:

- 🤍 OK Indicates that all jobs on the computer ran without errors or warnings.
- 👴 Warning Indicates that one or more of the computer's jobs completed with warnings.
- **U** Attention Indicates that one or more of the computer's jobs failed or completed with errors.
- *O* Unconfigured Indicates that no jobs have been created for the computer.
- 2. Find the for which you want to view logs, and click the row to expand its view.
- 3. View the Jobs tab.

If a backup or restore is running for a job, an "In Progress" symbol C appears beside the job name, along with the number of processes that are running.



If you click the symbol, the **Process Details** dialog box shows information about running, queued and recently-completed processes for the job. See <u>View current process information for a job</u>.

The **Last Backup Status** column shows the result of the last backup attempt for each job. Possible statuses include:

- Completed Indicates that the last backup completed successfully, and a safeset was created.
- • Completed with warnings Indicates that the last backup completed and a safeset was created, but problems occurred during the backup. For example, a warning could indicate that a file or volume that was selected in the backup job was not available for backup.
- • Deferred Indicates that the last backup was deferred. A safeset was created, but not all data that was selected was backed up.
- Deferring is used to prevent large backups from running at peak network times. When deferring is enabled, a backup job does not back up any new data after a specified amount of time.
- **(**) Missed Indicates that the job has not run for 7 days.
- Completed with errors Indicates that the backup completed and a safeset is available for restore, but problems occurred. Typically, this status indicates that not all of the data was backed up.
- • Failed Indicates that the backup failed and no safeset was created.
- 🦉 Never Run Indicates that the backup job has never run.
- U Cancelled

To view logs for a job, click the job status. For more information, see <u>View a jobs process logs and</u> <u>safeset information</u>.

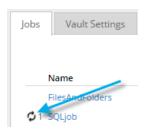
6.2 View current process information for a job

In the Process Details dialog box, you can view information about running, queued and recently-completed processes for a job. Processes include backups, restores and synchronizations. Process information is typically deleted within an hour after the process ends.

To view current process information for a job:

- 1. Do one of the following:
 - On the Computers page, on the Jobs tab, start a backup, restore or synchronization.

• On the Computers page, on the Jobs tab, click the "In Progress" symbol 😂 beside the job name.



• On the Monitor page, click the "In Progress" symbol 😳 beside the job name.

Computer	Job Name
TEST	O 1 SQLJob

The **Process Details** dialog box lists processes that are running, queued and recently completed for the job. Detailed information is shown for the process that is selected on the left side of the dialog box.

QLjob - Proc	cess Details		2 1
Filter proces	Selected process		Detailed information
3300	Running >	Process ID: 3300	about selected process
3568	Finished	Status	entering VSS quiescent state
1080	Finished	Files and Folders Processed:	0
		File Data Processed:	0.00 Bytes
		Current File Name:	
		Current File Size:	0.00 Bytes
			Stop Close

- To view information about a different process, click the process on the left side of the dialog box.
 Detailed information for the process is shown at the right side of the dialog box.
- 3. To show only some processes in the dialog box, do one of the following in the status list:
 - To only show queued processes, click Launched.
 - To only show processes that are waiting for user action, click Operator Request.
 - To only show processes that are in progress, click Running.
 - To only show completed processes, click **Finished**.
 - To only show processes that are finishing, click **Finalizing**.

SQLjob - Process Details							
	Status list						
Filter process IDs Q	Running						
3300	Launched						
	Operator Request						
	Finished						
	Finalizing						

6.3 View a job's process logs and safeset information

To determine whether a backup or restore completed successfully, or to determine why a process failed, you can view a job's process logs.

Note: When you run an Exchange database restore with the **Start Hard Recovery** option selected, the process of restoring database files is recorded in the process logs. The process of replaying transaction logs into the database is recorded in the Windows Event Viewer.

You can also view information about safesets created for the job. A safeset is an instance of backup data on the vault. For most Agents, one safeset is created by each successful backup.

To view a job's process logs and safeset information:

1. On the navigation bar, click **Computers**.

The Computers page shows registered s.

2. Find the for which you want to view logs, and click the row to expand its view.

On the Jobs tab, the Last Backup Status column shows the status of each backup job.

	8.31.7896 Windows Server 2012 R2 📀 OK	Online wault	
		Select Job Task	Ŧ
Description Last Backup Status	Last Run	Action	
🥝 Completed	yesterday at 11:49 PM	Select Action	*
Completed	today at 1:32 PM	Select Action	-
	Description Lest Backup Status	Description Last Backup Status Last Run	Description Last Backup Status Last Run Action © Completed yesterday at 11.49 PM Select Action

- 3. To view log files for a job, do one of the following:
 - In the job's **Select Action** menu, click **History / Logs**.
 - In the Last Backup Status column, click the job status.

The **History / Logs** window lists the most recent backups, restores and synchronizations on the computer.

ory /	/ Log	şs - E	EXCH	ANG	E20	10 :	test	7
Detr	ails	Ľ	og File	2				
hoose	a Lo	g file:						
							<u> </u>	
0		Febr	uary	2015		0	Thu, Feb 5, 2015	
Su	Mo	Tu	We	Th	fr.	Sa	Restore (2/5/2015 4:50:57 PM -05:00)	
								Close

4. To view processes for a different day, click the calendar button. In the calendar that appears, click the date of the log that you want to view. In the list of processes on the selected date, click the process for which you want to view the log.

The History / Logs window shows the selected log.

Vib Details Log File Croove at Log File Entrice Log Entrop Log
Backup (24/20015 M:M:29 AM.00X) Errors and Warning: Only Errors
Implies Construction for an intermediate interm
Girab Gilidid anyr-Cilli Agent verdin 7.34,400 Sep 2 5014 60:43:13 Girab Gilidid anyr-Cilli Agent verdin 7.34,400 Sep 2 5014 60:43:13 Girab Gilidid anyr-Cilli (b) Anna /test/ Girab Gilidid anyr-Cilli (b) Anna /test/ Girab Gilidid Serr-Cilli (b) Anna /test/ Girab Gilidid Serr-Cilli (c) Anna /test/ Girab Gilidid Anyr-Cilli (c) Anna /test/ Girab Gilidid Anyr-Cilli (c) Anna /test/ Girab Gilidid Anyr-Cilli Alternae vall a 132.163.0.300 Angenta Logical Vall Application. Girab Gilidid Anyr-Cilli Alternae vall a coffund (vv) Girab Gilidid Anyr-Cilli Alternae vall a coffund (vv) Girab Gilidid Anyr-Cilli Alternae vall a coffund (vv) Girab Gilidid Anyr-Cilli Alternae vall a coffund (vv)
G4-mab GitISIS sumprivGilli Agent version 7.34.4001 Sep 5 2014 00:43:13 G4-mab GitISIS sumprivGilli yob started at G4-mab-GOLS GitISIS -0500 G4-mab GitISIS sumprivGilli yob started at G4-mab-GOLS GitISIS -0500 G4-mab GitISIS sumprivGilli yob started at G4-mab-GOLS GitISIS -0500 G4-mab GitISIS SumprivGilli yob started at G4-mab-GOLS GitISIS -0500 G4-mab GitISIS SumprivGilli yob started at G4-mab-GOLS GITISIS -0500 G4-mab GitISIS SumprivGilli gob same /tast/ G4-mab GitISIS SumprivGilli gob same con/cas G4-mab GitISIS SumprivGilli tast 101.161.0.300 supports topical varit suplication. G4-mab GitISIS SumprivGilli tast 101.161.0.300 has accepted the operation. G4-mab GitISIS SumprivGilli tast 101.161.0.300 has accepted the operation. G4-mab GitISIS TastrivGilli tast 101.161.0.300 has accepted the operation. G4-mab GitISIS TastrivGilli tast 101.161.0.300 has accepted the operation. G4-mab GitISIS TastrivGilli tast 101.162.0.300 has accepted the operation. G4-mab GitISIS TastrivGilli tastrivGili tastrivGilli tastrivGilli tastrivGilli ta
04-reb 04:15:35 server-04137 job started at 04-reb-0515 04:15:55 -0500 04-reb 04:15:35 server-04137 job started at 04-reb-1015 04:15:55 -0500 04-reb 04:16:07 Server-04138 connection to the valit at 152.168.0.200 04-reb 04:16:07 Server-04138 login at con/ces 04-reb 04:16:07 server-04138 login at con/ces 04-reb 04:16:07 server-04139 reb valit at 152.168.0.200 supports togical valit sepileation. 04-reb 04:16:07 server-04139 reb valit at 152.168.0.200 has accepted the operation. 04-reb 04:16:07 server-04130 reb valit at 152.168.0.200 has accepted the operation. 04-reb 04:16:07 server-04130 reb valit at 152.168.0.200 has accepted the operation. 04-reb 04:16:07 server-04130 reb valit at 152.168.0.200 has accepted the operation. 04-reb 04:16:07 verter-05310 computer information: dm-00c0010, hm-00cemetaxsde0010, ip-152.168.2.112, vid-433618 04-160-0450-size-0004baladd, cid-0014047bit4a-0304-0060013bit6 (vv)
04-reb 04:15:35 mmy=r=04136 job name /rest/ 04-reb 04:15:07 Sherr=04136 comments to the walt at 132.168.0.300 04-reb 04:16:07 Sherr=04136 comments to the walt at using and entryption (vv) 04-reb 04:16:07 sherr=04135 login as com/com 04-reb 04:16:07 sherr=07137 the walt at 132.168.0.300 supports logical walt meplication. 04-reb 04:16:07 sherr=07137 the walt at 132.168.0.300 has accepted the operation. 04-reb 04:16:07 sherr=07137 has ready at 132.168.0.300 has accepted the operation. 04-reb 04:16:07 sherr=07137 sherr=0137 the valt at 132.168.0.300 has accepted the operation. 04-reb 04:16:07 sherr=07137 has ready at 132.168.0.300 has accepted the operation. 04-reb 04:16:07 sherr=07137 sherr=01310 forgute information in-0070100, ha=000000000000000000000000000000000000
04-reb 04:16:07 SErr-04130 connect to the yealt at 182.168.0.300 04-reb 04:16:07 SErr-04130 Connection to the yealt is using and encryption (vv) 04-reb 04:16:07 SErr-04130 Ingin as Conf.cm 04-reb 04:16:07 Advr-05101 the yealt at 182.168.0.300 supports topical yealt medication. 04-reb 04:16:07 Advr-05101 the yealt at 182.168.0.300 has accepted the operation. 04-reb 04:16:07 Advr-05101 Alternate yealt is not found (vv) 04-reb 04:16:07 vvr-05102 Alternate information: dn-0000100, hn-000excharde0010, ip-100.168.0.110, vid-033618 04-100-0400-410-0400-410-04000000000000
04-reb 00:10:07 District0430 Connection to the valit is using and entryption (vv) 04-reb 00:10:07 Bisrict0435 login as con/ces 04-reb 00:10:07 minrict0435 orbs valit at 100.100.020 supports togical valit replication. 04-reb 00:10:07 minrict0435 orbs valit at 100.100.020 has accepted the operation. 04-reb 00:10:07 minrict04310 computer information: dn-COS0000 has accepted the operation. 04-reb 00:10:07 voir=r04310 computer information: dn-COS0000 has accepted the operation. 04-reb 00:10:07 voir=r04310 computer information: dn-COS0000 has accepted the operation. 04-reb 00:10:07 voir=r04310 computer information: dn-COS0000 has accepted the operation.
04-reb 08:16:07 SErr-r04735 login as ccm/ccm 04-reb 08:16:07 sErr-r04735 login as ccm/ccm 04-reb 08:16:07 sErr-r04735 the valit at 182.168.0.200 supports logical valit meplication. 04-reb 08:16:07 sErr-r04775 the valit at 182.168.0.200 has accepted the operation. 04-reb 08:16:07 serr-r07713 Alternate valit a not found (vv) 04-reb 08:16:07 serr-r07713 Alternate information: dm-COEDID, ha-OCEExcEmanded010, ip-182.168.2.110, vid-833618 cf-11c0-485c-m182-c0048hbsed7, cid-00714847-b14x-435c-ma44-005dc532b236 (vv)
04-reb 08:18:07 ndrw-r-07731 the vault at 132.168.0.300 supports logical vault maplication. 04-reb 08:18:07 admw-r-08370 the vault at 132.168.0.300 has accepted the operation. 04-reb 08:18:07 admw-r-07713 alternate vault is not found (vv) 04-reb 08:18:07 value-r-0310 demptors information do-Colorbo, ha-Otorachasta0010, ip-183.188.3.113, vid-833818 07-21:07-4350-8157-05068hbs8047, rid-00714847-b148-4350-8440-05066f3356356 (vv)
04-reb 08:16:07 ndrw-r-08070 the valit at 182.168.0.200 has accepted the operation. 04-reb 08:16:07 ndrw-r-07112 Alternate valit is not found (vv) 04-reb 08:16:07 wrn-r-08010 Computer information: dn-OCO2010, hn-OCO2000Aax062020, ip-182.168.2.112, vid-833618 04-2100-0450-e1227-00040848404, cid-001404794164-0306-03060120616 (vv)
04-rmb 08:18:07 mBurr-07713 Alternate valit is not found (vv) 04-rmb 08:18:07 vrnr05910 Computer information: dn-OCE0010, hn-OCE0008, hp-180.188.3.113, vid-833618 cf-81c0-488c-4183-c606Babbesd7, cid-00714847-b14x-438c-4846-006665326836 (vv)
04-rmb 08:18:07 vrst-r-05310 Computer information: ds-00:0000, hs-00:smcmands0010, ip-100.168.0.110, vid-833810 c5-01:07-485c-8183-c00d8ab0e8d7, cid-00714847-b14s-435c-8s46-008d603206036 (vv)
c5-01c0-405c-m102-c50d0mb2m2d7, cid-00714047-b14m-435c-0m46-006dc032bb336 (vv)
04-reb 08:18:07 vrsi-1-05011 cob information: th-test, vid-833618c5-8100-405c-8182-000d8ab3e8d7, cid-00714847-b
14a-435c-8a46-006dc932b936, tid-988f2df9-1d15-4224-953a-44b014290d57 [vv]
04-reb 08:16:07 prot-r-05312 Original job information: tn-test, cid-00714847-b14a-435c-8a46-006dc832b436
04-reb 02:16:07 mRvm-z-04181 updating synch entry 00000001
Close

- 5. To only show errors and warnings in the log, click the **Errors and Warnings Only** option at the top right of the window.
- 6. To view safeset information for a particular backup, click the **Job Details** tab. The tab shows safeset information for the job's most recent backup.

To view information for a different safeset, click the calendar button. in the calendar that appears, click the date of the backup for which you want to view information. In the list of backups on the selected date, click the backup for which you want to view information. The tab shows safeset information for the selected backup.

ab Details Log File				
Choose a safeset: 6 (1/20/2016 12:15 AM)	 			
Catalog Number:	000000006			
Location:	BERT			
Status:	Online			
Backup Time:	1/20/2016 12:15 AM			
Storage Size:	Original: 27.68 GB	Deltized: 410.87 MB	Compressed: 74.49 MB	
Backup Type:	full			
Retention:	Days: 7	Copies: 7	Archive Days: 0	
Encrypted:	ND			
Compressed:	Yes			
Media Type:	Vault			
Tape Label:				
Expiry:	1/27/2016 12:15 AM			

6.4 View and export recent backup statuses

You can view recent backup statuses for computers on the Monitor page in Portal. You can also export the information in comma-separated values (.csv), Microsoft Excel (.xls), or Adobe Acrobat (.pdf) format.

From the Monitor page, you can navigate to related information on the Computers page or in the Logs window.

To view and export recent backup statuses:

1. On the navigation bar, click **Monitor**.

The Monitor page shows recent backup statuses for jobs in your site.

Display: Jobs						
Export • 1 2 3 4 > Show 25 • Records per page Save View All Jobs •						
Computer	Job Name .	Last Backup Status	Date	Backup Size	Site Name	
		All 🔹				
VRA-02		() Missed	on 3/6/2017	0.00 Bytes	vault	
QA-LOCALAGENT81	ada	0 failed	yesterday at 10:15 PM	0.00 Bytes	vault	
WIN-16MD8QH0E01	AllDbs	O Completed with warnings	an 9/11/2017	335.96 MB	vault	
W2K12R2-56	Appliance2	O Never Run			vault	
W2K12R2-56	Appliancejob1	⊘ Never Run			vault	
VRA-02	ь	0 Missed	on 3/6/2017	0.00 Bytes	vault	
WIN-M9ID4435OPK	Backup	() failed	on 7/24/2017	0.00 Bytes	zault	
014-7010-7H4QGX1	BERTHA-Backup	📀 Completed	an 9/11/2017	65.97 KB	vault	

- 2. To change which backup statuses appear on the page, click the views list at the top of the page, and then click the view that you want to apply.
- 3. To view information for a job or computer on the Computers page, click the name of an online computer or job.
- 4. To view the job's logs in the History/Logs window, click the job's last backup status.

- 5. To export backup status information from the page, click the **Export** box. In the list that appears, click one of the following formats for the exported data file:
 - CSV (comma-separated values)
 - XLS (Microsoft Excel)
 - PDF (Adobe Acrobat)

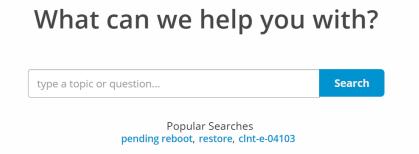
Export	•
Csv	
🖹 XLS	
🔎 PDF	

The data file is downloaded to your computer in the specified format.

7 Carbonite Server Backup Support

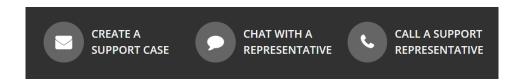
If you have a question about Carbonite Server Backup that isn't covered in this guide, our frequentlyupdated Knowledge Base contains comprehensive information. The Knowledge Base is your first stop when searching for any Carbonite Server Backup solutions you may need. We highly recommend searching here first for the quickest answers to your questions.

Knowledge Base: http://support.carbonite.com/evault



7.1 Contacting Carbonite

If you need live assistance from a qualified support agent, Carbonite Support is here for you 24 hours a day, 7 days a week (excluding US holidays). Please feel free to get in touch with us, and we'll help out any way we can! You can find the contact information for Carbonite Support in the Knowledge Base: <u>http://support.carbonite.com/evault</u>



Tip: When contacting Support with a technical issue, please have both the program's log files and the store you are having difficulty with ready.

To gather log files, click **File** menu and choose *Open log folder*. Compress the contents of the folder in a .zip file and attach it to your support request.

If the log archive and/or mail store exceeds 10MB, you may not be able to send them as an email attachment. In that case, upload instructions will be provided to you upon request.