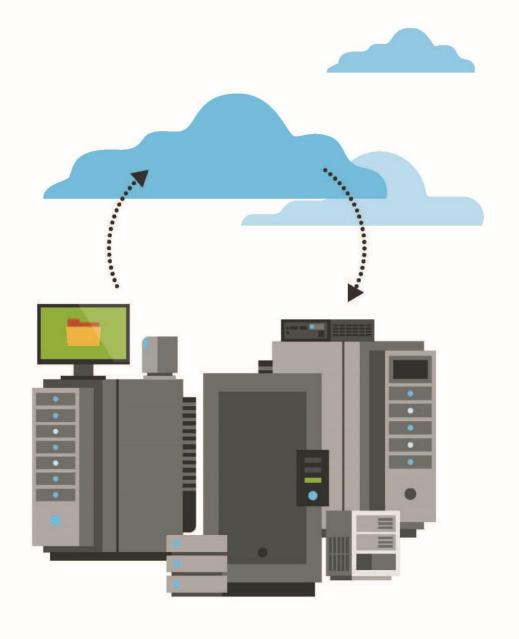


Carbonite Server Backup Oracle Plug-in 8.7

User Guide



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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	November 2018	Initial guide provided for Oracle Plug-in 8.7x.

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1 Introduction to the Oracle Plug-in

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

The Plug-in provides ARCHIVELOG-based, non-RMAN backups of whole online database instances. All non-temporary tablespaces and instance parameter files are automatically backed up. Full and partial databases are restored through normal user-managed Oracle recovery mechanisms.

Database passwords are encrypted for enhanced security over script-based methods. 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 Limitations

- Only local, single-instance, disk-based databases are backed up.
- Database clusters are not backed up.
- Raw devices are not backed up.
- Remote databases are not backed up.
- The database must run in ARCHIVELOG mode, and the user under which the backup is configured must have SYSDBA privileges.

2 Add an Oracle database backup job

After a Windows computer with the Oracle Plug-in is added in Portal, you can create a backup job for one or more Oracle databases. In the backup job, you must specify which databases to back up, where to save the backup data, and credentials for the Agent to use to connect to the Oracle server.

To back up the data, you can run the backup job manually, or schedule the backup job to run. See <u>Run and schedule backups and synchronizations</u>.

The Oracle Plug-in performs what Oracle Corporation deems an "inconsistent" whole database backup, requiring that the database be run in ARCHIVELOG mode. The database administrator must ensure that the database is in ARCHIVELOG mode.

The Oracle Plug-in backs up redo and archive logs that are created while the database backup job is running. For example, if an Oracle database backup job runs from 22:00 to 01:00 each day, the plug-in backs up redo and archive logs that are created between 22:00 and 01:00. To back up logs that are created after the Oracle database backup job runs, we recommend running a Local System or Image job at another time each day. Using the Local System or Image job, you will be able to recover the database to a point in time that is later than the time when the Oracle database backup job ran.

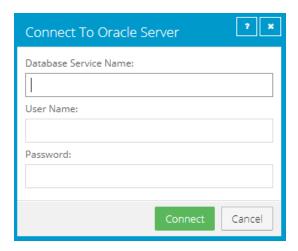
To ensure that archived log files do not take up too much disk space on your system, the Oracle Plug-in can delete archived redo logs older than a certain number of days (e.g., 7 days) after a successful database backup.

To add an Oracle database backup job:

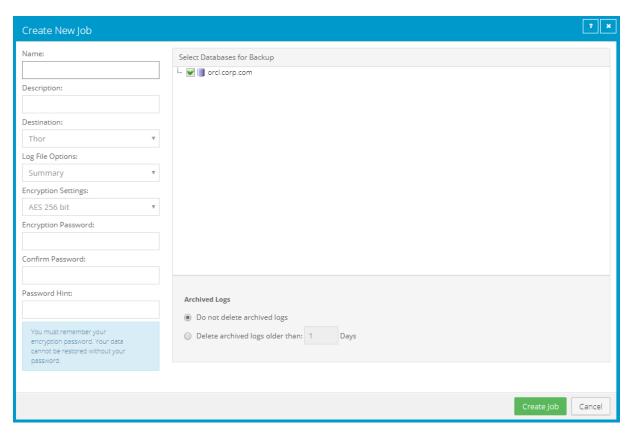
- On the navigation bar, click Computers.
 The Computers page shows registered computers.
- 2. Find a computer with the Oracle Plug-in, and expand its view by clicking the computer row.
- 3. Click the **Jobs** tab.

If a valid vault connection is not available for the computer, you cannot access the **Jobs** tab.

- 4. In the **Select Job Task** menu, click **Create New Oracle Job**.
- 5. In the **Connect to Oracle Server** dialog box, specify the following information:
 - In the **Database Service Name** box, type the service name of the database that you want to back up.
 - In the **User Name** box, type the name of a user who has sysdba privileges.
 - In the **Password** box, type the password for the specified user.



- 6. Click Connect.
- 7. 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 new backup jobs, the encryption method is AES 256 bit. Existing jobs can have other encryption methods.
 - In the **Password** and **Confirm Password** boxes, enter an encryption password. You can also enter a password hint in the **Password Hint** box.



- 8. In the **Select Databases for Backup** box, select the database to back up.
- 9. Do one of the following:
 - To leave Oracle archived redo logs on the system, click **Do not delete archived logs.**
 - To delete Oracle archived redo logs after a successful backup, click **Delete archived logs older** than [...] days. Enter the number of days after which archived logs can be deleted.

10. Click Save.

The job is created, and the **View/Add Schedule** dialog box appears. Now you can 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 synchronizations</u>.

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. 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.
- 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.

For computers with Windows or Linux Agent version 8.60 or later, you can specify whether scheduled backups should automatically retry if they do not run successfully. You can also specify how many times a scheduled backup should retry after a failed attempt, and specify the amount of time between retries. See Specify whether scheduled backups retry after a failure.

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 Synchronize a job.

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:

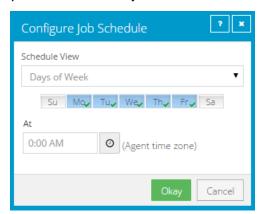
- 1. Do one of the following:
 - On the navigation bar, click Computers. Find the computer with the backup job that you want to schedule, and click the computer row to expand its view. On the Jobs tab, find the job that you want to schedule. In its Select Action menu, click View/Add Schedule.
 - Create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

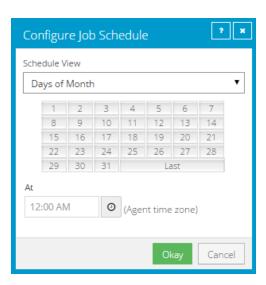
- 3. In the new schedule row, in the **Retention** list, click a retention type.
- 4. In the **Schedule** box, click the arrow.

The Configure Job Schedule dialog box opens.

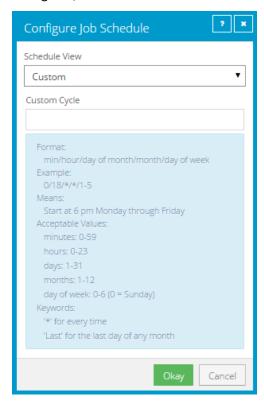
- 5. In the **Configure Job Schedule** dialog box, do one of the following:
 - To run the backup on specific days each week, select Days of Week in the Schedule View list.
 Select the days when you want to run the job. Then use the At field to specify the time when you want to run the job.



To run the backup on specific dates each month, select 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.



• To create a custom schedule, select **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.



6. Click Okay.

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

- 7. 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.
- 8. 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.

- 9. To run the job on the specified schedule, select the **Enable** check box near the end of the row.
- 10. If an Automatic Retry for Scheduled Backups section appears at the bottom of the View / Add Schedule dialog box, you can specify whether scheduled backups should retry after a failed backup. See Specify whether scheduled backups retry after a failure.
- 11. Click Save.

3.2 Specify whether scheduled backups retry after a failure

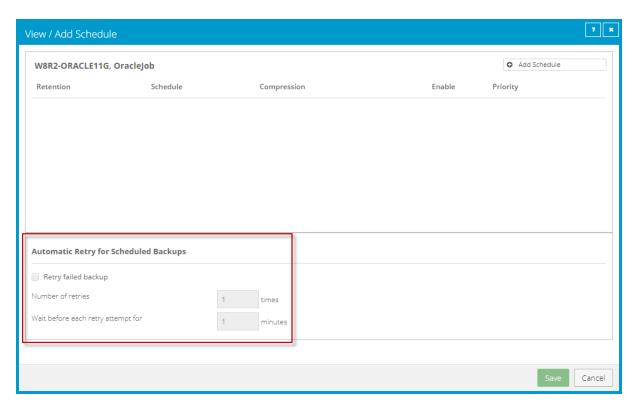
You can specify whether scheduled backups automatically retry if they do not run successfully.

You can also specify how many times a scheduled backup should retry after a failed attempt, and specify the amount of time between retries.

Note: Automatic retry settings only apply to scheduled backups. A backup will not retry automatically after a failed ad-hoc backup attempt.

To specify whether scheduled backups retry after a failure:

- 1. Do one of the following:
 - On the navigation bar, click Computers. Find the computer for specifying automatic retry settings, and click the computer row to expand its view. On the Jobs tab, in the Select Action menu for a job, click View/Add Schedule.
 - Create a new backup job. The View/Add Schedule dialog box appears when you save the job.
- 2. In the Automatic Retry for Scheduled Backups section, do one of the following:
 - To specify that scheduled backups should not retry after failed backup attempts, clear the Retry failed job check box.
 - To specify that scheduled backups should retry after failed backup attempts, select the Retry
 failed job check box. In the Number of retries box, enter the number of times the backup
 should try again. In the Wait before each retry attempt for [] minutes box, enter the number of
 minutes that the Agent should wait before the next backup attempt.



3. Click Save.

3.3 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. When running an ad-hoc backup, you can back up the data to a vault or to SSI files (safeset image) on disk.

To run an ad-hoc backup:

- 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. 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 process information for a job</u>.

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

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.
- 2. Find the computer with the job that you want to synchronize. Expand its view by clicking its row.
- 3. Click the Jobs tab.
- 4. 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.

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

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

4 Restore Oracle databases

After backing up an Oracle database using the Oracle Plug-in, you can restore the database.

You might also need to recover the entire system, by performing a "bare metal restore" (installing the OS, applications, and then the full database (plus any transaction logs) onto a new system).

If there is an Oracle backup and a full-system backup:

- 1. Restore the system (putting back the contents of ORACLE_HOME specifically the database installation). If you like, you can exclude the data files and archive logs that are backed up by the plug-in.
- Restore the Oracle backup, and then copy the required components to the appropriate directories.
 Follow the standard user-managed Oracle recovery procedure from the Oracle backup and recovery guide (available from Oracle) that is appropriate for the operating system.

An Oracle restore process is performed by a Database Administrator. Briefly, the steps are:

- Shut down the database.
- Restore the files.
- If necessary, reset the control information for the database.
- Start and recover the database.
- Re-open the database for use.

The Plug-in does not do table-level restores.

To restore an Oracle database:

- 1. On the navigation bar, click **Computers**.
 - A grid lists available computers.
- 2. Find the computer with the Oracle database that you want to restore, and expand its view by clicking the row for the computer.
- 3. Click the Jobs tab.
- 4. Find the job with the database that you want to restore, and click **Restore** in the **Select Action** menu for the job.

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

- 5. To restore the database 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 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: If SSI files were created by a backup to a directory on disk, you cannot restore from the SSI files until they have been imported into the vault and you have synchronized the Agent with the vault.

- 6. In the **Files to Restore** box, select the items that you want to restore.
- 7. Select a **Restore Destination** option.
 - To restore files and folders to the location where they were backed up, select **Restore files to** their original location.
 - To restore files and folders to a different location, select Restore files to an alternate location.
 Click the folder button.
 In the Select Folder dialog box, select the location where you want to restore, and click Okay.
- 8. Select a **File Overwrite** option. This option specifies how to restore a file to a location where there is a file with the same name.
 - To overwrite existing files with restored files, select Overwrite existing files.
 Note: If you try to restore multiple files with the same name to an alternate location and select
 Overwrite existing files, only the last file restored will remain. Other files with the same name will be overwritten.
 - To add a numeric extension (e.g., .0001) to a *restored* file name, select **Do not overwrite existing files**. For example, if you restore a file named "filename.txt" to a location where there is a file with the same name, an extension is added to the *restored* file name (e.g., "filename.txt.0001").
 - To add a numeric extension (e.g., .0001) to an *existing* file name, select **Rename existing files**. For example, if you restore a file named "filename.txt" to a location where there is a file with the same name, an extension is added to the *existing* file name (e.g., "filename.txt.0001"). The name of the restored file continues to be "filename.txt".
- 9. To change the log detail level or bandwidth settings, click **Advanced Restore Options**. Specify settings in the **Advanced Restore Options** dialog box, and click **Okay**. See <u>Advanced restore options</u>.
- 10. 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.

11. To close the **Process Details** dialog box, click **Close**. If the restore is running, it will continue to run. **Note:** For a full disaster recovery (in which the full database instance is restored), be careful when you

recover the database because the plug-in does not back up TEMPORARY tablespaces.

4.1 Advanced restore options

When restoring data, you can specify the following options:

Log Options

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.

Performance Options

To use all available bandwidth for the restore, select **Use all available bandwidth**.

Bandwidth throttling settings specify the amount of bandwidth consumed by an Agent for backups. For example, you might want to restrict the amount of bandwidth used for daytime backups so that online users are not affected, and allow unlimited bandwidth usage at night so that scheduled backups run as fast as possible.

Bandwidth settings include:

- Maximum bandwidth (upper limit), in megabits per second, to be consumed by the Agent for all backups and restores
- Period of time during the day that throttling is in effect. Only one time window can be specified. Outside the window, no throttling takes place.
- Days of the week that throttling is in effect

If the bandwidth throttling time period begins when a backup is underway, the maximum bandwidth is applied dynamically to the running backup. Similarly, if the bandwidth throttling time period ends when a backup is running, bandwidth throttling is ended for the backup.

If you edit an Agent's bandwidth settings while a backup is running, the new Agent settings do not affect the backup that is running. Bandwidth settings are applied when a backup starts, and are not applied to backups that are already running.

5 Monitor computers, jobs 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>. You can also access logs for unconfigured
 computers from this page. See <u>View an unconfigured computers logs</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>.
- Email notifications. To make it easier to monitor backups, users can receive emails when backups finish or fail. See <u>Monitor backups using email notifications</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>.

5.1 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 Agents.

The **Availability** column indicates whether each Agent 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.
- OK with warnings Indicates that one or more of the computer's jobs completed with warnings.
- • Attention Indicates that one or more of the computer's jobs failed or completed with errors.
- Unconfigured Indicates that no jobs have been created for the computer.
- 2. Find the Agent 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 \mathfrak{S} 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.

- Never Run Indicates that the backup job has never run.
- 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.
- Failed Indicates that the backup failed and no safeset was created.
- Oancelled
- © Scheduled for Deletion Indicates that the job is scheduled to be deleted from Portal and job data is scheduled to be deleted from all vaults on the date shown in the Date column. This backup status is only possible in Portal instances where the data deletion feature is enabled.

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

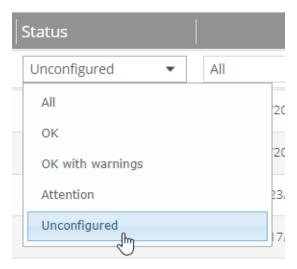
5.2 View an unconfigured computer's logs

You can view logs for unconfigured computers that are online. Unconfigured computers do not have any backup jobs.

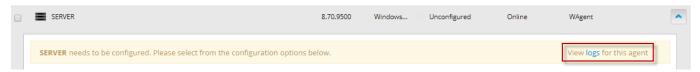
To view an unconfigured computer's logs:

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

The Computers page shows registered computers. To only show unconfigured computers, click "Unconfigured" in the **Status** filter.

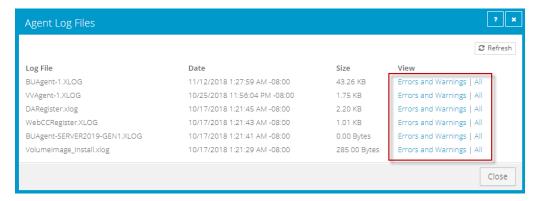


2. Find an unconfigured computer that is online, and expand its view by clicking the computer row.



3. Click the logs link for the unconfigured computer.

The Agent Log Files window shows a list of logs for the computers. Links to the logs appear at the right side of the window.



- 4. Do one of the following:
 - To only view errors and warnings in a log, click **Errors and Warnings** for the log.

• To view an entire log, click All for the log.

The log appears in a new browser tab.

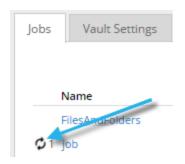
```
Log Name: BUAgent-1.XLOG
25-Nov 06:21:49 AGNT-I-04314 Agent Version 8.30.7893 Nov 16 2016 14:12:22
25-Nov 06:21:49 AGNT-I-08103 Executing agent as SYSTEM
25-Nov 06:21:49 AGNT-I-08199 Agent with Id 216bbd19-cbb7-4176-8dfe-be885ee7ecf7 will connect to server qa.corp.com on port 8086
25-Nov 06:21:49 AGNT-I-07466 WIN-4 thread started
25-Nov 06:21:49 AGNT-I-08200 Agent HTTP thread started
25-Nov 06:21:49 AGNT-I-08200 Agent HTTP thread started
25-Nov 06:21:49 AGNT-I-08200 Agent HTTP thread started
25-Nov 06:21:50 AGNT-I-08323 Agent is being redirected to server qa.corp.com on port 8087
25-Nov 06:21:50 AGNT-I-09400 Agent HTTP binding to 127.0.0.1:8031
25-Nov 06:21:50 AGNT-I-09400 Agent HTTP binding to :8031
25-Nov 06:21:54 AGNT-I-07466 WIN-4 thread started
25-Nov 06:21:55 AGNT-E-08307 Failed to set the Agent status to offline.
25-Nov 06:22:01 AGNT-E-08307 Failed to set the Agent status to offline.
25-Nov 06:22:11 AGNT-E-08307 Failed to set the Agent status to offline.
25-Nov 06:22:16 AGNT-I-08914 Agent type set to SERVER
25-Nov 06:22:16 AGNT-E-07514 Failed to Upload System Info in Notification Thread
25-Nov 06:22:21 AGNT-E-07514 Failed to Upload System Info in Notification Thread
25-Nov 06:22:26 AGNT-E-07514 Failed to Upload System Info in Notification Thread
25-Nov 06:22:31 AGNT-E-07477 Failed to Upload Feature Options in Notification Thread
25-Nov 06:22:36 AGNT-E-07477 Failed to Upload Feature Options in Notification Thread
25-Nov 06:22:41 AGNT-E-07477 Failed to Upload Feature Options in Notification Thread
25-Nov 06:22:46 AGNT-E-07476 Failed to Upload Job Types in Notification Thread
```

5.3 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.

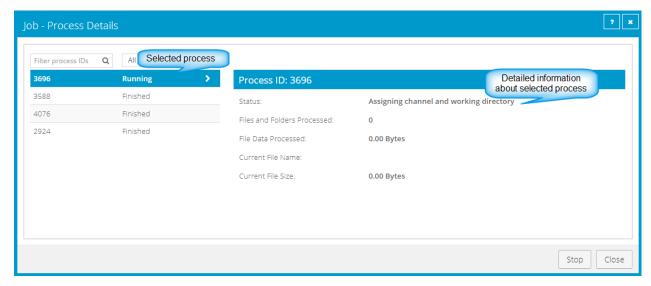


On the Monitor page, click the "In Progress" symbol

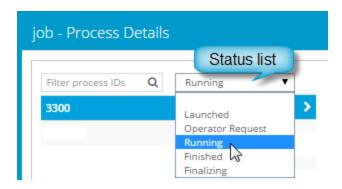
 beside the job name.



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.



- 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**.



5.4 Monitor backups using email notifications

To make it easier to monitor backups, users can receive emails when backups finish or fail. Admin users and regular users in Portal can set up email notifications for a computer. See <u>Set up email notifications for backups on a computer</u>.

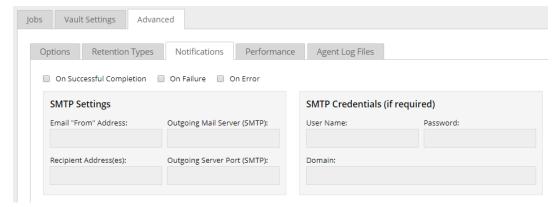
In some Portal instances, email notifications are configured centrally for Windows systems with Agent version 8.0 or later, instead of separately for each computer. See <u>Set up email notifications for backups on multiple computers</u>.

5.4.1 Set up email notifications for backups on a computer

To set up email notifications for a computer:

- 1. On the navigation bar, click **Computers**.
- Find the Agent for which you want to configure email notifications, and click the row to expand its view.
- 3. On the **Advanced** tab, click the **Notifications** tab.

If the **Notifications** tab appears, but a policy is assigned to the Agent, you cannot change values on the **Notifications** tab. Instead, notifications can only be modified in the policy.



Select one or more of the following checkboxes:

• **On failure**. If selected, users receive an email notification when a backup or restore fails. If a backup fails, you cannot recover any files from the backup.

- On error. If selected, users receive an email notification when a backup or restore completes with errors in the log file. You cannot recover files that are backed up with errors, but you can restore other files from the backup (safeset).
- On successful completion. If selected, users receive an email notification when a backup or restore completes successfully. You can recover files from a backup that completes, even if there are warnings in the log file.

Email notifications are sent separately for each backup and restore. For example, if three backup jobs fail on a computer and **On failure** is selected for the computer, three notification emails are sent.

If users will receive email notifications after backups and restores, specify the following email notification information:

Email "From" Address	Email address from which email notifications will be sent.
Outgoing Mail Server (SMTP)	Network address of the SMTP that will send the email.
Recipient Address(es)	Email notification recipient email addresses, separated by commas. These should be real, valid email addresses. If one or more is not valid, the transmission to those addresses will fail, and errors will appear in the log files.
Outgoing Server Port (SMTP)	Port number for sending email notifications.
SMTP Credentials	If required, SMTP username, domain, and password.

4. Click Save.

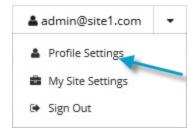
5.4.2 Set up email notifications for backups on multiple computers

By default in some Portal instances, Admin users receive emails when backups fail, or are cancelled, deferred, missed or completed. Admin users can select backup statuses for which they want to receive email notifications. These email notifications are sent for Windows systems with Agent version 8.0 or later, instead of separately for each computer.

For other computers, and in Portal instances where Admin users do not automatically receive email notifications, notifications must be configured separately for each computer. See <u>Set up email notifications</u> <u>for backups on a computer</u>.

To set up email notifications for backups on multiple computers:

When signed in as an Admin user, click your email address at the top right of the Portal page.
 The user menu appears.



2. Click **Profile Settings**.

Your user profile appears. If your profile includes an Email Notification Settings section with a list of backup events (e.g., Backup Canceled, Backup Completed), you can select events for which you want to receive emails.



If Email Notifications Settings do not appear, you must set up notifications separately for each computer. See Set up email notifications for backups on a computer.

- 3. In the Email Notification Settings list, select any of the following events for which you want to receive emails:
 - Backup Cancelled
 - Backup Completed
 - Backup Completed with Errors
 - Backup Completed with Warnings
 - Backup Deferred
 - Backup Failed
 - Backup Missed
- 4. Click **Update notifications**.

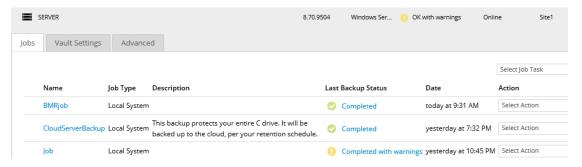
5.5 View a job's process logs and safeset information

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

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.

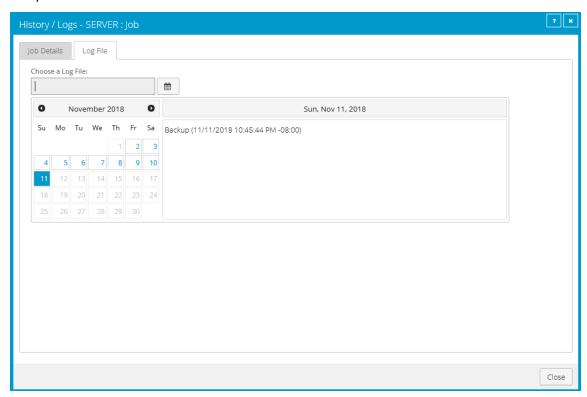
To view a job's process logs and safeset information:

- 1. On the navigation bar, click **Computers**.
 - The Computers page shows registered Agents.
- 2. Find the Agent 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.



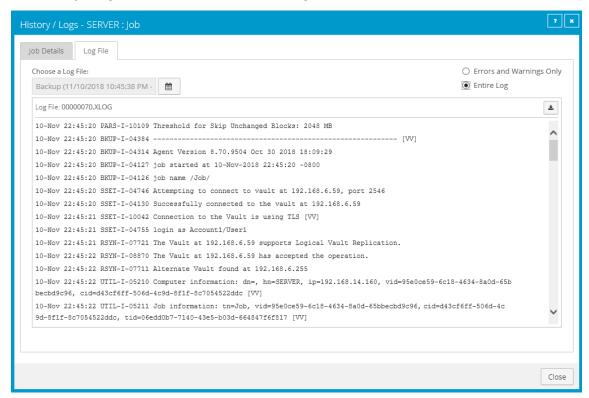
- 3. To view log files for a job, do one of the following:
 - In the job's Select Action menu, click History / Logs.
 - In the Last Backup Status column, click the job status.

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



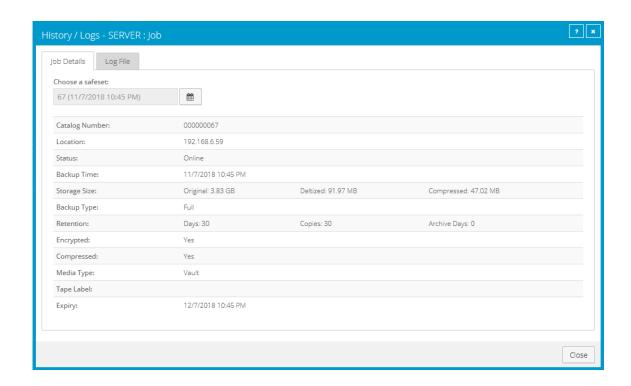
4. To view processes for a different day, click the calendar button. in the calendar that appears, click the date of the log that you want to view.

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.



- 6. To only show errors and warnings in the log, click the **Errors and Warnings Only** option at the top right of the window.
- 7. 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.



5.6 View and export recent backup statuses

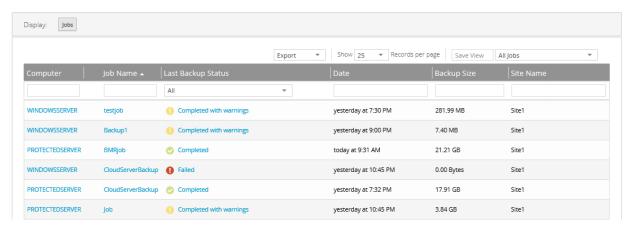
You can view recent backup statuses for computers on the Monitor page in Portal. You can also export the information in comma-separated values (.csv), Microsoft Excel (.xls), or Adobe Acrobat (.pdf) format.

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.



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)

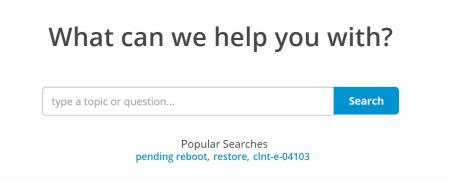


The data file is downloaded to your computer in the specified format.

6 Carbonite Server Backup Support

If you have a question about Carbonite Server Backup that isn't covered in this guide, our frequently-updated 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



6.1 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: http://support.carbonite.com/evault



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.