

Configuration Guide



Amazon S3 How-To Guide

Overview

Amazon S3 (Simple Storage Service) is an online storage service offered by AWS (Amazon Web Services), providing a simple web services interface that can be used to store and retrieve any amount of data, at any time, from anywhere on the web. With Amazon S3 support, you can easily upload and download data to and from your ShareCenter™ to Amazon S3.

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This Amazon S3 How-To Guide will show you how to:

- Create your AWS Account to access the Amazon S3 services.
- Create a bucket on the Amazon S3 Server where you can upload and download your ShareCenter data to and from.
- Create an Amazon S3 Scheduled Backup on your ShareCenter to automatically upload any ShareCenter Network Share to the Amazon S3 service.

Creating an Amazon S3 Account

To use Amazon S3, you will need an AWS account if you don't already have one, you will be prompted to create one when you sign up for Amazon S3.

In a web browser, open the following URL:

<http://aws.amazon.com/s3>

Click on 'Sign-up for Amazon S3 service' and follow the on-screen instructions. When you have completed registering, you should get an e-mail from AWS stating that can begin using your account.

Make sure to remember the access key and secret access key which allows your ShareCenter to access the AWS services.

For example the access key might be: *WKEAIBWLXWBDNBGTVX9C*

and the secret access key might be: *CbnCDVM+CggC5w7CqXLOaO5LYI0svc1Yrqwe9jkj*

Creating an Amazon S3 Bucket

Once you have logged into Amazon AWS, click the **'create bucket'** button and in the dialog window type in a bucket name to identify your data and select the region server best suited for your location (to minimize transfer delay). The ShareCenter does not support underscore characters (**_**) in the bucket name.

Click the Create Bucket button to launch the Create Bucket dialog box.



A bucket is a container for objects stored in Amazon S3. When creating a bucket, you can choose a Region to optimize for latency, minimize costs, or address regulatory requirements. For more information regarding bucket naming conventions, please visit the [Amazon S3 documentation](#).

Type in the Bucket name here; avoid using underscores. Click the drop-down arrow next to the Region selection and select the appropriate region.

Bucket Name:

Region:

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Once the bucket is created you will see it in the **Buckets** column on the left of the Amazon S3 page. Click it to see the contents of the bucket. It should be empty until your next ShareCenter Amazon S3 backup.



Creating an Amazon S3 Scheduled Backup on the ShareCenter

Click on the ShareCenter's **Applications** tab and then click the **Amazon S3** icon to launch the Amazon S3 configuration window.



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To create a scheduled backup from the ShareCenter to the Amazon S3 bucket, click on the **Create** button to launch the step by step configuration wizard.



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There are 6 steps in creating the Amazon S3 Backup:

1. Define name

Set a user defined name for the backup job.

2. Configuring Amazon S3

Enter your Amazon S3 credentials and configure the bucket name and regional Amazon server.

3. Backup type and direction

Set the type and direction of the backup.

4. Configure local network share

Configure the local network share from where data will be backed-up to or from.

5. Schedule Backup

Set when the backup will be performed.

6. Review all your settings.

This first window of the configuration shows an overview of the 6 steps. In each window click the **Next** button to proceed to the next window if you are satisfied with your settings. Click the **Previous** button if you want to go back to check your settings in prior windows, and finally if you want to exit the wizard without making changes click the **Exit** button.



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Input a **Job Name** for this backup. Make sure to name the backup in a way that you can identify it in case you decide to create multiple backups on your ShareCenter.



Step 1: Job Name Settings

Input a 16 character string that identifies either the upload to cloud or download from cloud job to be created. The string cannot contain spaces and the following characters are allowed: a-z, A-Z, 0-9.

Job Name

Previous Next Exit

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You should have received an **Access Key** and **Secret Access Key** in the e-mail from Amazon AWS services when you first registered for your account. Input the two keys along with the name of the **bucket** (Remote Path) and Region server. Click **Next** to proceed.

Step 2: Remote Settings

Input your Amazon S3 assigned **Access Key ID** and **Secret Access Key** which will allow your ShareCenter access to your Amazon S3 Cloud Storage. In the **Remote Path** field, input a new or already existing Amazon S3 **Bucket** name. This is a folder on the Cloud Storage that your data will be written to or read from. Finally select the appropriate region which will give you the best service for reading from or writing to the Amazon S3 Cloud.

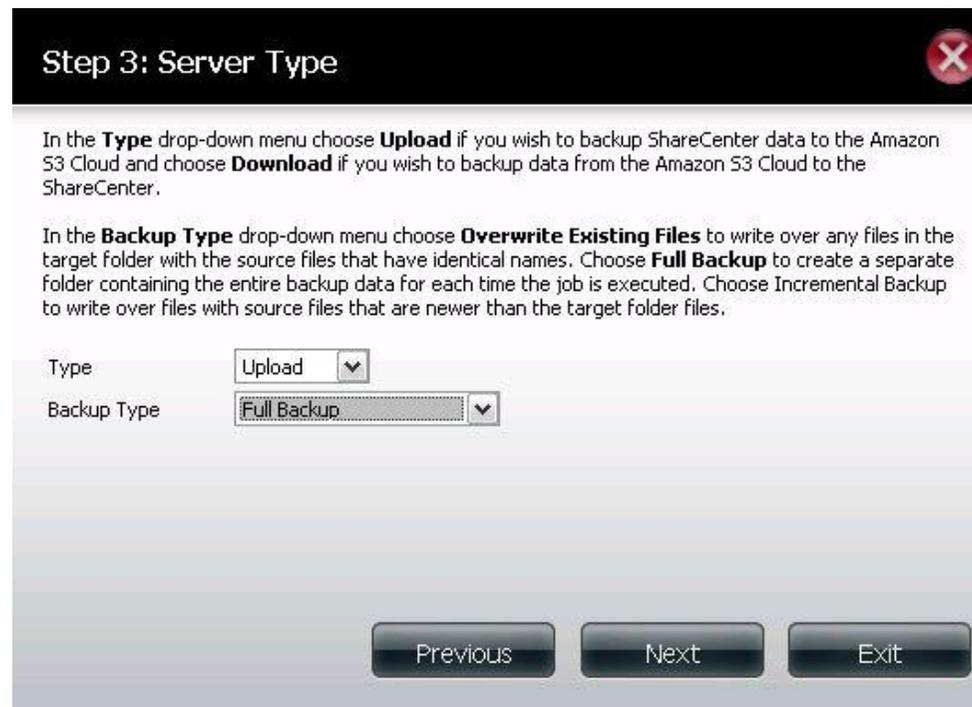
Access Key ID	<input type="text" value="BK1B1BUAXUJUANBHKJSSD2E"/>
Secret Access Key	<input type="password" value="....."/>
Remote Path	<input type="text" value="shareCenterPhotos"/>
Region	<input type="text" value="United States"/> 

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In Step 3 of the wizard, set the direction of the backup using the **Type** parameter. You can select **Upload** to backup from the ShareCenter network share to the Amazon S3 bucket or **Download to backup** from the Amazon S3 bucket to the ShareCenter network share.

Set the **Backup Type** parameter to set the Backup job to:

- **Overwrite Existing Files** to write over any files in the target folder with the source files that have identical names.
- **Full Backup** to create a separate folder containing the entire backup data for each time the job is executed.
- **Incremental Backup** to write over files with source files that are newer than the target folder files



Step 3: Server Type

In the **Type** drop-down menu choose **Upload** if you wish to backup ShareCenter data to the Amazon S3 Cloud and choose **Download** if you wish to backup data from the Amazon S3 Cloud to the ShareCenter.

In the **Backup Type** drop-down menu choose **Overwrite Existing Files** to write over any files in the target folder with the source files that have identical names. Choose **Full Backup** to create a separate folder containing the entire backup data for each time the job is executed. Choose Incremental Backup to write over files with source files that are newer than the target folder files.

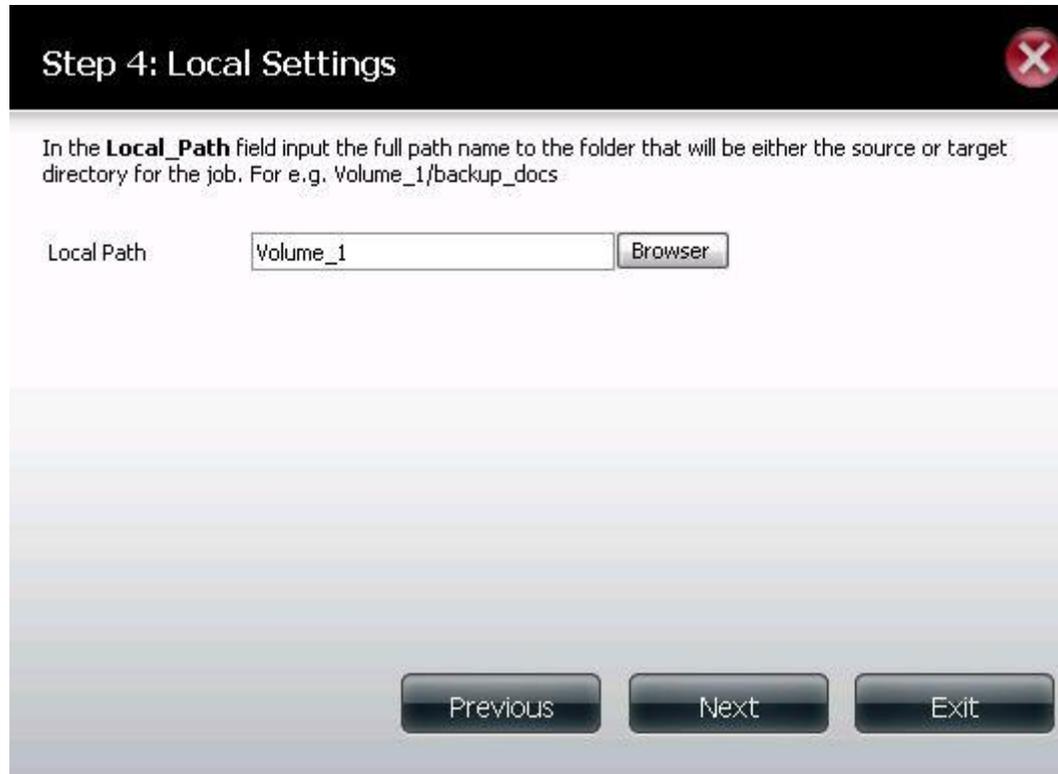
Type: Upload

Backup Type: Full Backup

Previous Next Exit

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In Step 4 of the wizard, you can set the local path. Click on the **Browser** button to browse to the network share of the ShareCenter where the data will be backed up to or from.



The screenshot shows a wizard window titled "Step 4: Local Settings" with a red close button in the top right corner. Below the title bar, there is a text instruction: "In the **Local_Path** field input the full path name to the folder that will be either the source or target directory for the job. For e.g. Volume_1/backup_docs". Below this instruction, there is a label "Local Path" followed by a text input field containing "Volume_1" and a "Browser" button. At the bottom of the window, there are three buttons: "Previous", "Next", and "Exit".

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In Step 5, select one of the **Schedule Mode** options to set when to perform the backup. Click on **Manual** to start the backup later using a button that must be manually clicked on. Click on **Once** to schedule a date and time to run the job one time only. Click on **Schedule** to set a daily time when the job is to be run.

Step 5: Schedule Settings ✕

Select the appropriate **Schedule Mode** to set when the job is to be executed. Click on **Manual** to start the job later using a button that must be manually clicked on. Click on **Once** to schedule a date and time to run the job one time only. Click on **Schedule** to set a daily time when the job is to be run.

Schedule mode Manual Once Schedule

Daily

Time :

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In Step 6 review all your settings and click **Previous** to go back to make any changes. Click **Exit** to exit the wizard without saving the job. Click **Finish** to save the job and exit the wizard.

Step 6: Finish

Review all your settings and click **Previous** to go back to make any changes. Click **Exit** to exit the wizard without saving the job. Click **Finish** to save the job and exit the wizard.

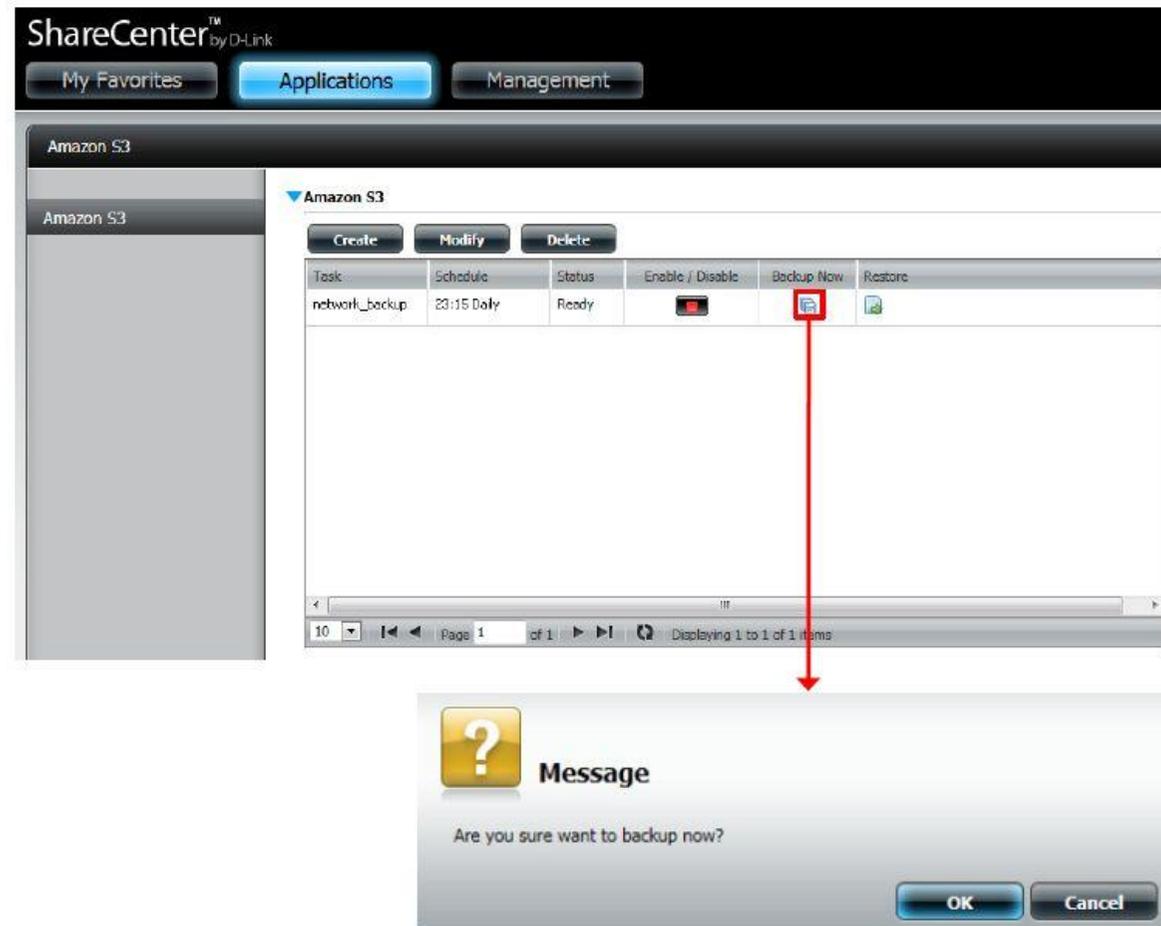
The setting is complete. Click **Finish** to save the current settings.

Job Name	network_backup
Remote Path	shareCenterPhotos
Region	United States
Type	Upload
Backup Type	Full Backup
Local Path	Volume_1
Schedule	23 : 15 / Daily

[Previous](#) [Finish](#) [Exit](#)

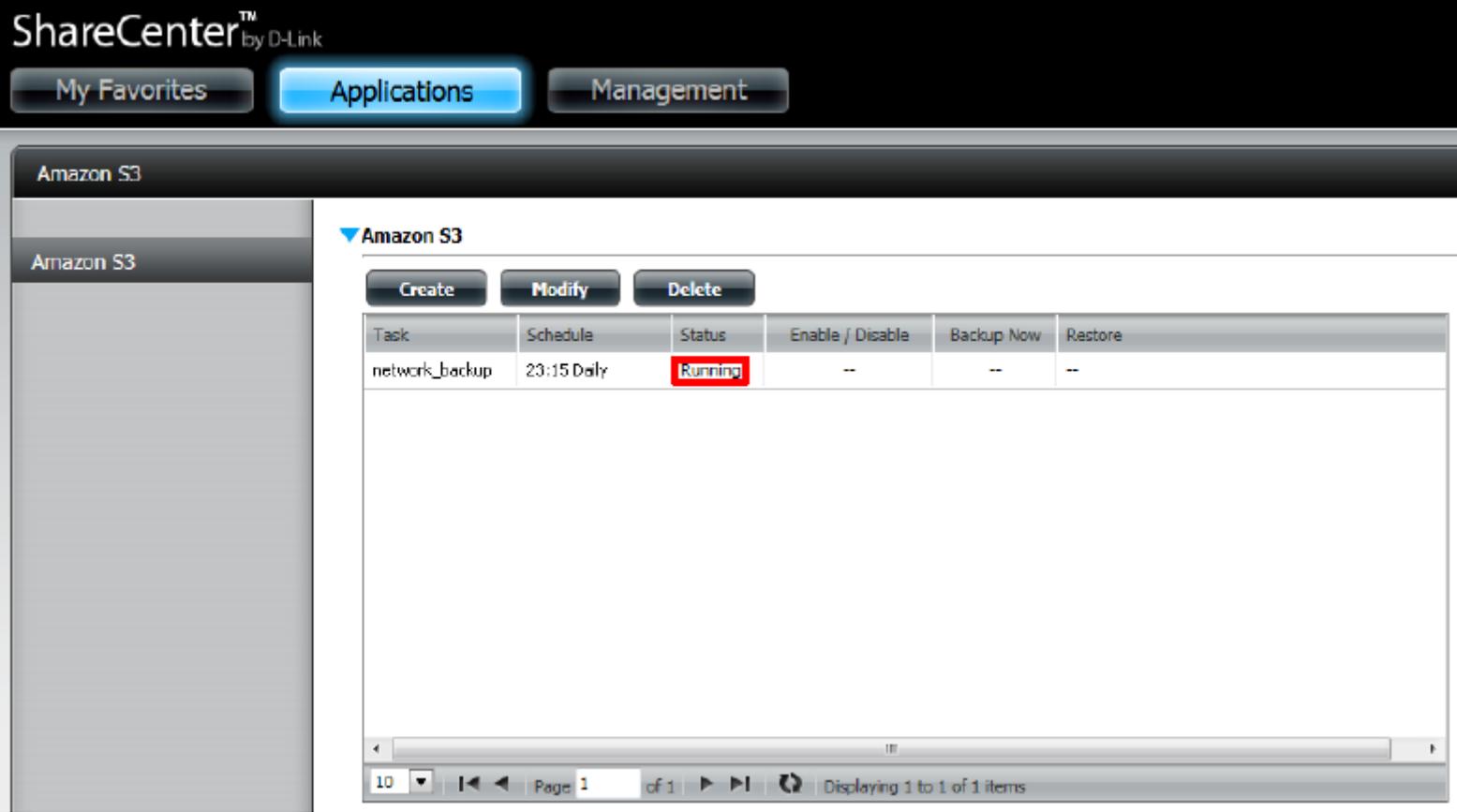
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Now that you have created an Amazon S3 Task, you can either wait for the Task to begin as scheduled or click the **Backup Now** icon to begin the process immediately. A dialog box will ask you to confirm the backup as shown below.



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When the backup is underway, the Status field should say **Running**.

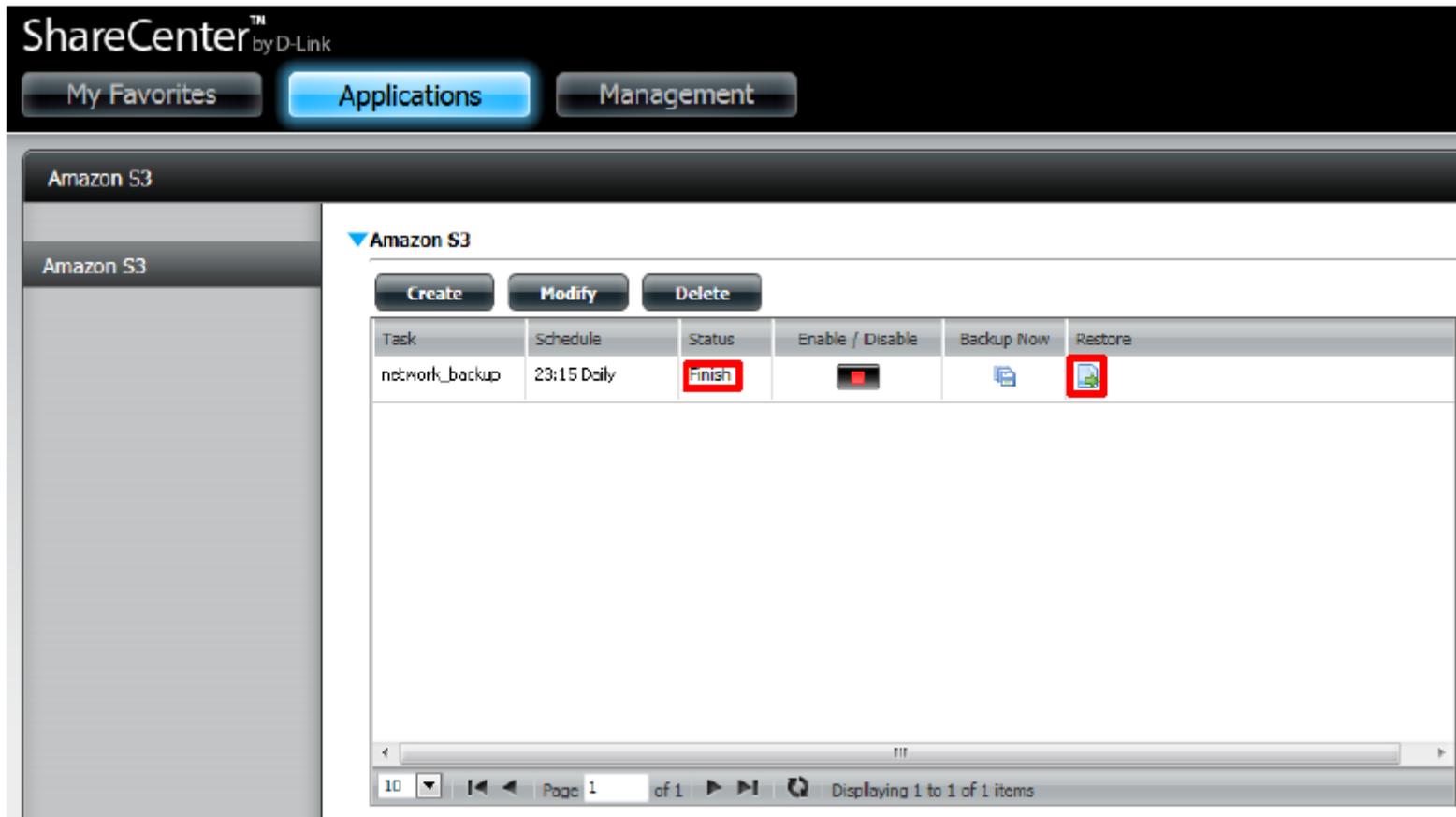


The screenshot displays the ShareCenter™ by D-Link web interface. At the top, there are navigation buttons for "My Favorites", "Applications" (which is highlighted), and "Management". Below this, the "Amazon S3" section is active. On the left, there is a sidebar with "Amazon S3" selected. The main content area shows a table of backup tasks. Above the table are buttons for "Create", "Modify", and "Delete". The table has the following columns: Task, Schedule, Status, Enable / Disable, Backup Now, and Restore. A single task named "network_backup" is listed with a schedule of "23:15 Daily" and a status of "Running", which is highlighted with a red box. The "Enable / Disable", "Backup Now", and "Restore" columns for this task contain "--". At the bottom of the table, there is a pagination bar showing "Page 1 of 1" and "Displaying 1 to 1 of 1 items".

Task	Schedule	Status	Enable / Disable	Backup Now	Restore
network_backup	23:15 Daily	Running	--	--	--

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When the backup is complete, the **Status** field will display **Finish**. If your source files ever go missing or become damaged, you can click the **Restore** icon in the Amazon S3 Task table to restore your files. When you click the **restore** button in the table, a dialog window will ask you to choose which **Backup date** you wish to restore to (see the next page).



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After clicking the **Restore** icon in the Amazon S3 Tasks table, the **Restore** window below will appear. Click the **Apply** button next to the backup date that you wish to use in restoring your data from.

The screenshot shows the Amazon S3 console interface. The main window displays a bucket named 'shareCenterPhotos' containing two objects: 'test1_20110519031535' and 'test1_20110519031644'. A 'Restore' dialog box is open on the right side of the screen. The dialog box has a title bar with a close button (X) and a table with the following data:

Seq.	Backup Date/time	Action
1	2011-05-19T11:17:50CST	Apply
2	2011-05-19T11:19:00CST	Apply

At the bottom right of the dialog box, there is an 'Exit' button.