



Managing Akamai® NetStorage Accounts

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Akamai NetStorage is a managed service that provides persistent, replicated storage for content such as images, streaming media files, software, documents, and other objects. NetStorage makes the content easily accessible to Akamai Edge servers, and thus complements Akamai's content delivery solutions.

This guide discusses using the EdgeControl® portal (<https://control.akamai.com>) to manage your NetStorage management accounts. You use the management interface to add and manage upload accounts, including restricting upload privileges to specific directories, and to set up purge routines.

About Akamai NetStorage Management

Storage Groups and the CVS

When you work with NetStorage accounts, the basic unit you work with is the Storage Group. The storage group is associated with a name, CP Codes, a designated CVS (Committed Volume of Storage), the contractual amount of storage space for the group, the replication locations that can be used, and the upload directories. A single customer can have up to 20 storage groups. After initial setup, Akamai provisions the group with the following properties:

- The replication set (e.g., West coast + East coast, East coast + Europe, etc.).
- The domain for the storage group, further described below.
- Upload accounts, which define the access allowed for uploading and downloading, also described later in this section. (You can also add upload accounts after the group is provisioned.)

Domains

The domain for a storage group is the name of the origin domain you upload to and download from. Akamai creates a NetStorage FTP site based on that name.

For instance, if your domain is example, Akamai will create upload and download directories in the form, <ftp://example.upload.akamai.com> and <http://example.download.akamai.com>.

The same domain name can be used with more than one storage group, but the replication set must be the same for each.

Upload Accounts

Upload accounts access the storage group, and they carry the following properties:

- An account user name and password.
- The default upload directory.
- Whether rsync transfer is allowed, and if so, a unique password for its use.
- Whether access is Read/Write or Read Only.
- Which directories and subdirectories the account may access.
- Any imposed IP ACL restrictions.
- All SSH keys uploaded for secure content management.

Accessing the NetStorage Main Page

To manage your NetStorage accounts:

1. Log in to the EdgeControl portal at <https://control.akamai.com>.
2. In the left-hand navigation menu, click **NetStorage** and then **Configuration** to display the **All Storage Groups** page.:

The screenshot displays the Akamai EdgeControl interface for the 'All Storage Groups' page. The header includes the Akamai logo, 'EdgeControl', and links for 'Support' and 'Log Out'. The left sidebar is divided into three sections: 'MY SERVICES' (with links for All Services, HTTP Content Delivery, HTTP Downloads, Live Streams, On Demand Streams, NetStorage, Site Delivery, Site Accelerator, and Web Analytics), 'ADMINISTRATION' (with links for Manage CP Codes, Edit your Profile, and Manage Users), and 'SUPPORT' (with links for Support Home, Documentation, Release Notification, Training Resources, Open/View Support Cases, Support Contacts, and Feedback). The main content area is titled 'Net Storage' and 'All Storage Groups' for 'Example.com'. It contains a text block explaining that the list shows storage groups associated with the account and that clicking 'View Details' provides more information. Below this is a table with columns: 'Storage Group Name', 'CP Codes', 'Status', 'Estimated Usage', and 'View Details'. The table lists one group, 'Example Storage Group', with CP Codes '9389(Example.com)', Status 'Provisioned', and Estimated Usage '1.0 GB'. Above the table are links for 'Manage Master Upload Accounts' and 'Add Storage Group'. The footer contains links for 'Contact Us', 'How Can We Serve You Better?', 'Legal & Privacy', and a copyright notice for Akamai Technologies, Inc.

Storage Group Name	CP Codes	Status	Estimated Usage	
Example Storage Group	9389(Example.com)	Provisioned	1.0 GB	View Details

Figure 1. The All Storage Groups Page

The **Status** column denotes whether the group is provisioned. If it is, you can click [View Details](#) to view or edit the group properties.

Viewing Storage Group Details

You can view the details of a storage group's settings by clicking [View Details](#) for the group on the **All Storage Groups** page (Figure 1).

Storage Group Details

[All Storage Groups](#) | **Example Storage Group**

To add a new upload account for this Storage Group, click **Add Upload Account**. To edit an existing upload account, click the **Edit** next to the account you would like to edit.

Storage Group Name: Example Storage Group [Edit Storage Group Name](#)

Estimated Usage : 1.0 GB

Upload Domain Name: example.upload.akamai.com

ARL Download Domain Name: example.download.akamai.com

CP Code Configuration

CP Code	Network/Auth Type	Directory Name(s)	
9391(Example.com Streaming)	All Content Types	/9391	Set Up Automatic Purge

Upload Directory Attributes

Root Directory	Index Name	Send MD5 Sum	Force Case	Propagation Status	
/9391	index.html	no	none	Propagated	Edit

Upload Accounts

Upload Account	Password	Last Change	Propagation Status	
user	*****		Propagated	Edit

Add Upload Account

Figure 2-1. Viewing Details of a Storage Group

Adding and Editing Upload Accounts

For a provisioned storage group, you can add new upload accounts, edit settings in existing accounts, and delete accounts.

Adding New Upload Accounts

To add an upload account:

1. Click [View Details](#) for the storage group on the **All Storage Groups** page (Figure 1 on page 2).
2. On the **Storage Group Details** page (Figure 2-1), click the **Add Upload Account** button.
3. On the **Add Upload Account** page that appears, enter a user name, password, whether the access is Read Only or Read/Write, whether rsync access is enabled, and which directories the account is allowed to access.



Note: If you enable rsync access, you must create an additional password to use with it. The upload account's password will not work with the rsync access method.

4. Click the **Save** button to complete the action.

The new upload account is listed on the **Storage Group Details** page.

Editing Existing Upload Accounts

To edit an upload account:

1. Click [View Details](#) for the storage group on the **All Storage Groups** page (Figure 1 on page 2).
2. On the **Storage Group Details** page (Figure 2-1), click [Edit](#) for the upload account you want to edit. This opens the **Edit Upload Account** page.

Edit Upload Account

Help

All Storage Groups | Adobe Prerelease | Edit user

Account Details

Change Password | Password History | Delete this Account

Storage Group: Example Storage Group

Username: user

CP Code: 9389

Change Directory Access

Last Change Propagation Status: Propagated

Default Upload Directory: /

Edit Default Upload Directory

Rsync Access: No

Enable Rsync Access

Access Privileges: Read / Write

Allow Read Only Access

Directory Limit: Disabled

Enable Directory Limit

To Change Root(CHROOT) when a user logs to NetStorage, enable Directory Limiting and change the default upload login directory to the required root.

Contacts

Edit Contacts

Primary Contact :

Secondary Contact :

Account Upload IP ACLs

Edit IP Addresses

Currently there are no IP ACL restrictions for this upload account.

SSH Keys

Edit SSH Keys

To associate one or more public keys of your SSH key pairs with this upload account, click **Edit SSH Keys**. This will secure the control channel to the Akamai network while this account is performing upload operations.

Currently there are no SSH keys associated with this upload account.


Subdirectory Restrictions

Edit Subdirectory Restrictions

CP Code	CP Code Description	Directory
9389	Example.com	/9389

Figure 2-2. Editing an Upload Account

Using the **Edit Upload Account** page shown in Figure 2-2, you can edit various account attributes, as discussed in the following sections.

Password	<p>To edit the account upload password, click Change Password, type a new password, and click the Save button.</p> <p>You can also view the password history—notes about when the password was last modified and by whom—by clicking Password History.</p>
Directory Access	<p>To enable or disable access to specific directories, click Change Directory Access.</p> <p>On the Edit Directory Access page that appears, enable or disable directory access for the upload account by checking or clearing, respectively, the applicable check box or boxes, and clicking the Save button.</p>
Default Upload Directory	<p>By default, the FTP client is logged into the root directory. You can change this default by clicking Edit Default Upload Directory.</p> <p>On the Edit Default Upload Directory page that appears, enter a directory name, with a leading slash, and click the Save button.</p>
Rsync Access	<p>To enable or disable rsync access, click Enable/Disable Rsync Access.</p> <p>On the Enabling Rsync page that appears, enter a password for use with rsync, and click the Save button.</p> <p> <i>Note: If you enable rsync access, you must create an additional password to use with it. The upload account's password will not work with the rsync access method.</i></p>
Access Privileges	<p>To change from Read Only access to Read/Write or vice versa, click Allow Read Only Access or Allow Read/Write Access and confirm your decision.</p>
Directory Limit	<p>To Enable or disable Directory Limit, click Enable/Disable Directory Limit, and confirm the change.</p> <p>When enabled, the default upload directory is treated as if it is the root directory from the upload account user's perspective, thus hiding the full path (including CP code) from anonymous users.</p>
Contact Information	<p>To add or change primary and secondary contacts, click Edit Contacts.</p> <p>On the Contacts page that appears, select the primary and secondary contacts and click the Save button.</p>
Account Upload IP ACLs	<p>By default, there are no restrictions on the client IPs from which the upload account can log in. You can add or edit restrictions by clicking Edit IP Addresses.</p> <p>On the Edit IP Addresses page that appears, enter the IP address(es) and click the Save button. To enter more than one address, separate them with semicolons (for example, "127.0.0.1;127.0.0.2").</p>

SSH Keys

You can optionally associate one or more public SSH keys with the upload account. To do so, click [Edit SSH Keys](#). Copy and paste the public SSH Key into the text box and click the **Save** button, or click the **Save and Add Another** button to repeat the operation for another key.



Note: Be aware, if you upload an SSH for an upload account, you will not be able to access it through nonsecure methods (e.g., FTP).

Detailed information regarding formatting requirements for your SSH keys can be found in Chapter 2 of the *NetStorage User Guide*.

Subdirectory Restrictions

You can constrain the upload account's access to specified subdirectories. To add or remove subdirectory restrictions, click [Edit Subdirectory Restrictions](#). Note the instructions on the **Edit Subdirectory Restrictions** page, then:

- To add access to a subdirectory, enter the subdirectory in the **Add Subdirectory** text box and click the **Save** button, or click the **Save and Add Another** button to repeat the operation for another subdirectory.
- To remove access to a subdirectory, click [Delete](#) for the subdirectory.

Deleting Upload Accounts



Note: Deleted upload account names cannot be reused. If you delete an upload account by mistake, you will be unable to re-create it using the same name. Also, some NetStorage features, when implemented, prohibit deletion of affected upload accounts. Your Akamai representative can delete upload accounts for you if you are unable.

To delete an upload account:

1. Click [View Details](#) for the storage group on the **All Storage Groups** page (Figure 1 on page 2).
2. On the **Storage Group Details** page (Figure 2-1 on page 3), click [Edit](#) for the account you want to delete.
3. On the **Edit Upload Account** page shown in Figure 2-2 on page 4, click [Delete this Account](#), and confirm your decision.

Editing Upload Directory Attributes

For each upload directory associated with a storage group, you can modify the index file name, choose whether to force a particular case, and choose whether to send an MD5 sum of the content in a response header.

To edit upload directory attributes:

1. When viewing the details of a storage group (Figure 2-1), in the **Upload Directory Attributes** section click [Edit](#) for the upload directory you want to edit, and the **Upload Directory Attributes** page appears:

Upload Directory Attributes

[All Storage Groups](#) | [Example Storage Group](#) | **Upload Directory Attributes**

?

Help

Edit the settings for this directory below. Please note that it may take up to **60 minutes** for these changes to propagate to the Net Storage network.

CP Code: 9389

Root Directory: /9389

Index Name:

Separate multiple index names by spaces.
Example: **index.html default.htm**

Force Case:

☒ Pass through all requests without modifying the case

☐ Convert all requests to lowercase

Note: If you choose this option, make sure that the Akamai Net Storage directories and filenames for this CP Code directory are all in lowercase. If a file or directory has any uppercase letters, access to it may be denied.

☐ Convert all requests to uppercase

Note: If you choose this option, make sure that the Akamai Net Storage directories and filenames for this CP Code directory are all in uppercase. If a file or directory has any lowercase letters, access to it may be denied.

MD5 Sum:

☐ Send the MD5 digest value of the content in the HTTP "Content-MD5" response header

☒ Do not send the MD5 digest value of the content in the HTTP "Content-MD5" response header

Default File Requests:

☒ Redirect requests for the default file

☐ List the contents of the directory when the default file is requested, but limit the number of files displayed

File Limit:

☐ List the entire contents of the directory when the default file is requested

Zip Download:

☐ Allow zip downloads

☒ Do not allow zip downloads

It may take up to 60 minutes for these changes to propagate to the NetStorage network.


Save

Cancel

Figure 2-3. Editing Upload Directory Attributes

2. Modify the attributes as desired:

- **Index Name.** The default index file name. This field works in conjunction with the **Default File Requests** field described below; selecting **Redirect requests for the default file** there displays the **Index Name** file in end users' browsers when they access the directory.
- **Force Case.** For uploads to the storage area; dictates whether the case of your content names should be forced to upper or lower, or not forced at all.

 *Note: Before modifying the case settings, note the warning on the page with regard to making sure your existing files conform with the setting. If the option is selected but existing files do not conform, a denial of service results for end users.*

- **MD5 Sum.** Determines whether the content's MD5 digest value is sent in the HTTP "Content-MD5" response header.
- **Default File Requests.** Controls what end users' browsers display when they access the directory:
 - **Redirect requests for the default file.** Display the file entered in the **Index Name** text box described above.
 - **List the content of the directory...but limit the number of files displayed.** Display a list of the directory's contents, limiting the on-screen number to that entered in the accompanying **File Limit** text box.
 - **List the entire contents of the directory....** Display a complete list of the directory's contents.
- **Zip Download.** If you select **Allow zip downloads**, you enable the Serve from Zip feature detailed in the *NetStorage User Guide*.

3. Click the **Save** button.

Setting Automatic Purge Routines

You can set up automatic purge routines for directories and subdirectories in a storage group. The purge is set for files that are older than a specified number of days when the directory reaches a specified number of bytes in size.

If none of the content is older than the specified number of days, no content will be purged even if the directory size exceeds the specified byte level. Also, an initiated purge stops once the directory size is reduced below the allowed size.

To set up automatic purges:

1. Click [View Details](#) for the storage group on the **All Storage Groups** page (Figure 1 on page 2).

- On the **Storage Group Details** page (Figure 2-1 on page 3), click [Set Up Automatic Purge](#) to open the **Set Up Automatic Purge** page:

Set Up Automatic Purge Help

[All Storage Groups](#) | [Example Storage Group](#) | **Set Up Automatic Purge**

This feature will automatically purge content in a certain directory when the directory reaches a certain size. Only content past a certain age will be purged - if all of the content is newer than the age you specify below, then the directory will be allowed to exceed the size limit.

The automatic purge only takes the files directly inside the specified directory into account when determining the size of the directory, and when purging. Files inside subdirectories of this directory will not be counted or purged.

Enter the size and age limits below and click **Save**. To set up automatic purge for another directory associated with this CP Code, click **Save and Add Another**.

CP Code: 9389(Example.com)

Directory: /9389/

Purge when the directory reaches: Bytes

Only purge content older than: days

Recursive Purge: ☐

It may take up to 60 minutes for these changes to propagate to the NetStorage network.

Figure 2-4. Setting Up Automatic Purge Routines

- Enter the directory, the size (in bytes) the directory can reach before the purge is initiated, the age in days for the content that will be purged, and whether to purge recursively.
- Click the **Save** button, or click the **Save and Add Another** button to add another purge routine.

