

Amazon AWS S3 CDN & Cloudflare R2 media server cloud

PrestaShop module

Compatibility

PrestaShop 1.7 - 9.x

Goal

Amazon AWS S3 CDN & Cloudflare R2 media server is PrestaShop module of PrestaShop which speeds up your online store by transferring most of your store files to CDN and keep loading them from Amazon AWS S3 cloud & Cloudflare R2. Module replaces standard media server and provides much more flexible system of settings and file control.

Benefits for Merchants

- admin can determine which files need to be placed in the cloud: by category (theme, modules, etc), by type, by extension;
- finely manage files that need to be loaded from server or cloud;
- admin can upload any file from cloud back to the server if necessary;
- admin can use AWS S3 Bucket or AWS Cloud Front;
- admin can use Cloudflare R2;
- use for FRONT-END files only without any risks for back-end functionality;
- budget-reduction for store comparatively with regular hosting, high scalability, security and durability of AWS.

Benefits for customers

- customer will get parallel content loading streams while opening the site, so the speed will be higher comparatively with pure hosting-located files of the site;
- security and accessibility of files, located on AWS / Cloudflare R2 – content will be available 100% of time even if hosting could not respond due to high load, etc;
- speed of store loading is the benefit for any customer.

Features

- admin can upload all or selected files to AWS cloud or Cloudflare R2. It's possible to determine which files need to be uploaded there (by extension or type, etc). Admin is allowed to upload theme files to cloud, but keep modules files on hosting, so the settings are very flexible;
- admin can return any selected file from cloud so that this file will be loaded from hosting. It's possible to get this file back to cloud anytime;
- files source links in HTML code will be automatically updated according to location of the files: cloud or own hosting. In case admin changes settings (replaces source from cloud to hosting or vice versa), source links will be updated accordingly, so no broken images, links, etc. will occur;

Module settings

1. "Configuration" tab

The screenshot shows the PrestaShop interface with the 'Configure' tab selected for the 'Amazon AWS S3 CDN cloud media server' module. The left sidebar contains navigation links for 'WELCOME', 'Dashboard', 'Care Center', 'SELL' (Orders, Catalog, Customers, Customer Service, Stats), and 'IMPROVE' (Modules, Design, Shipping, Payment). The main content area has three tabs: 'General', 'Configuration' (active), and 'Cron jobs'. The 'Configuration' tab contains the following settings:

- Storage service:** A dropdown menu set to 'Amazon AWS S3'.
- Bucket name:** A text input field with the placeholder 'Enter bucket name'.
- Access key:** A text input field with the placeholder 'Enter access_key'.
- Secret key:** A text input field with the placeholder 'Enter secret_key'.
- Location:** A dropdown menu set to 'Select Location'.
- Use Cloudfront:** Radio buttons for 'Yes' and 'No', with 'No' selected.
- Test storage connection:** A black button with white text.

- **Storage service** – possibility to choose the bucket service (AWS S3 or Cloudflare R2)
- **Bucket name** – your Bucket name of Amazon S3 service
- **Access key** – access key of your Amazon account
- **Secret key** – secret key of your Amazon account
- **Location** – AWS server location
- **Use Cloudfront** – (Yes/No) use Cloudfront. All links to files in Bucket will go through Cloudfront then
- **Cloudfront ID** – your Cloudfront ID
- Button **Test link to AWS** – button to validate data and test connection to bucket

Selecting files to upload to AWS and use on the site:

This screenshot shows the 'Configuration' tab for the 'Amazon AWS S3 CDN cloud media server' module, focusing on file synchronization settings. A 'Test link to AWS' button is at the top right. The settings are organized into three sections:

- Synchronize Images:**
 - Radio buttons: ☒ Custom select, ☐ Check all, ☐ Uncheck all
 - ☒ Product Images: ☒ Yes (Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud), ☐ No (Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud)
 - ☒ Category Images: ☒ Yes (Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud), ☐ No (Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud)
 - ☒ Manufacturer Images: ☒ Yes (Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud), ☐ No (Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud)
 - ☒ Modules Images
 - ☐ Other Folders Images
- Synchronize CSS:**
 - Radio buttons: ☒ Custom select, ☐ Check all, ☐ Uncheck all
 - ☒ Main Files CSS
 - ☒ Theme Files CSS
 - ☒ Modules Files CSS
 - ☐ Other Folders CSS
- Synchronize JS:**
 - Radio buttons: ☒ Custom select, ☐ Check all, ☐ Uncheck all
 - ☒ Main Files JS
 - ☒ Theme Files JS
 - ☒ Modules Files JS
 - ☐ Other Folders JS

- **Synchronize Images** – upload style files to AWS
 - **Product Images** – all product images
 - **Category Images** – all category images
 - **Manufacturer Images** – images (logos) of manufacturers
 - **Modules Images** – images of modules on the site (sliders, banners, etc.) *
- **Synchronize CSS** – upload style files to AWS
 - **Main Files CSS** – core files (located in /js)
 - **Theme Files CSS** – your Theme Files
 - **Modules Files CSS** - files of your modules
- **Synchronize JS** – upload JavaScript files to AWS:
 - Main Files JS – main files (located in /js)
 - Theme Files JS – your theme JS files
 - Modules Files JS – JS files for your modules

New uploaded files management:

Synchronize Images: ☒ Custom select ☐ Check all ☐ Uncheck all

☒ **Product Images**

☒ Yes Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud

☒ **Category Images**

☐ No Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud

☒ **Manufacturer Images**

☐ No Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud

☐ Modules Images

☐ Other Folders Images

Added a switcher to automatically delete new files from the Prestashop server after uploading to Amazon AWS S3 for images of:

- Products
- Categories
- Manufacturers

Cloudflare R2 configuration:

Modules > Configure

Configure

Amazon AWS S3 CDN cloud media server

General Configuration Cron jobs

Storage service: Cloudflare R2

Bucket name:

Access key:

Secret key:

R2 account ID:
Found in Cloudflare dashboard: R2 → S3 API → Account ID.

Public CDN domain:
Hostname only, without https:// – required for storefront URLs when using R2.

[Test storage connection](#)

- **Bucket name** – your Bucket name of Cloudflare R2 service
- **Access key** – access key of your Cloudflare account
- **Secret key** – secret key of your Cloudflare account
- **R2 account ID** – a unique identifier assigned to a specific R2 bucket when it is created, which can be found on the bucket's dashboard page.
- **Public CDN domain** - public domain name that will be used to link to files uploaded to the bucket

2. “General” tab

PRESTASHOP 9.0.0 Quick Access Search

Modules > Configure

Configure
Amazon AWS S3 CDN cloud media server

General Configuration Cron jobs

Upload NEW files to AWS Upload UPDATED files to AWS DELETE files from AWS

Files uploaded to AWS

Files site	Prestashop	Type	Category	Date upload	Date edit
--	--	--	--	--	--
☐ themes/hummingbird/assets/cache/bottom-27dae823.js	Yes	js	theme	04/29/2026	04/29/2026
☐ themes/hummingbird/assets/cache/theme-9dd67224.css	Yes	css	theme	04/29/2026	04/29/2026
☐ themes/hummingbird/assets/cache/bottom-1f5cb323.js	Yes	js	theme	04/29/2026	04/29/2026

Buttons functionality:

- **Upload NEW files to AWS** – upload all files that match the settings on the Configuration tab
- **Upload UPDATED files to AWS** – upload only files that have been created and/or modified
- **DELETE files from AWS** – clear the entire cloud

Files table taking into account the specified settings:

Files uploaded to AWS						
Files site	Prestashop	Type	Category	Date upload	Date edit	
--	--	--	--	--	--	--
☐ themes/hummingbird/assets/cache/bottom-27dae823.js	Yes	js	theme	04/29/2026	04/29/2026	

- **Files site** - path to file from the root of the site
- **Prestashop** - whether the file is physically present on the Prestashop server
- **Type** - file type (image, css, js)
- **Category** - category of the file (product, category, manufacturer, modules, theme, main)
- **Date upload** - date the file was uploaded to AWS server
- **Date edit** - date the file was modified on server

File management buttons: delete file from AWS server

Files uploaded to AWS						
Files site	Prestashop	Type	Category	Date upload	Date edit	
--	--	--	--	--	--	--
☐ themes/hummingbird/assets/cache/bottom-27dae823.js	Yes	js	theme	04/29/2026	04/29/2026	
☐ themes/hummingbird/assets/cache/theme-9dd67224.css	Yes	css	theme	04/29/2026	04/29/2026	
☐ themes/hummingbird/assets/cache/bottom-1f5cb323.js	Yes	js	theme	04/29/2026	04/29/2026	
☐ themes/hummingbird/assets/cache/bottom-553bb323.js	Yes	js	theme	04/29/2026	04/29/2026	

Advanced settings in Configuration:

The screenshot shows the 'Configure' page for the 'Amazon AWS S3 CDN cloud media server'. The left sidebar contains navigation menus: 'WELCOME' (Dashboard, Care Center), 'SELL' (Orders, Catalog, Customers, Customer Service, Stats), 'IMPROVE' (Modules, Design, Shipping, Payment, International, Marketing), and 'CONFIGURE' (Shop Parameters, Advanced Parameters). The main content area is titled 'Configure' and 'Amazon AWS S3 CDN cloud media server'. It includes checkboxes for 'Modules Files CSS' (checked), 'Other Folders CSS' (unchecked), 'Synchronize JS:' (Custom select, Check all, Uncheck all), 'Main Files JS' (checked), 'Theme Files JS' (checked), 'Modules Files JS' (checked), and 'Other Folders JS' (unchecked). An 'Advanced settings' dropdown is expanded, showing 'Developer tools' (unchecked), 'File extensions Images:' (jpg; png), 'File extensions CSS:' (css; woff; woff2; otf), and 'File extensions JS:' (js). A 'Save changes' button is at the bottom. Below the configuration area, a green box titled 'Output hook position' contains a checkmark and the text 'Module is last in hook actionOutputHTMLBefore.'

You can change or add file extensions that will be uploaded to the AWS server.
Output hook position – the module checks if it is in the last position in the queue.

3. Product page:

The screenshot shows the 'Product page' for 'Hummingbird notebook' in PrestaShop 9.0.0. The top bar includes the 'PRESTASHOP 9.0.0' logo, 'Quick Access', and a search bar. The left sidebar shows navigation menus: 'WELCOME' (Dashboard, Care Center), 'SELL' (Orders, Catalog, Products, Categories, Monitoring, Attributes & Features, Brands & Suppliers, Files, Discounts, Stock), and 'Customers'. The main content area shows the product details for 'Hummingbird notebook' (EN). It includes a 'Product with combinations' toggle (Online) and tabs for 'Description', 'Details', 'Combinations', 'Shipping', 'Pricing', 'SEO', and 'Options'. The 'Description' tab is active, showing a product image and a 'Cover' label. Below the image, a red box highlights two settings: 'Upload new files immediately to Amazon AWS Cloud' (Yes) and 'Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud' (Yes).

- **Upload new files immediately to Amazon AWS Cloud** – upload picture immediately to AWS
- **Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud** – delete image from PrestaShop server after upload to AWS S3

5. Category page

PRESTASHOP 9.0.0 Quick Access Search (e.g.: product reference, customer name...)

WELCOME

- Dashboard
- Care Center

SELL

- Orders
- Catalog**
 - Products
 - Categories**
 - Monitoring
 - Attributes & Features
 - Brands & Suppliers
 - Files
 - Discounts
 - Stock
- Customers
 - Customer Service
 - Stats
- IMPROVE
 - Modules
 - Design
 - Shipping
 - Payment

Catalog > Categories

Editing category Art

Additional description

EN FR

Text that is usually displayed after the product list on category page. It's a good place to put longer SEO related content. Invalid characters: <

Enabled ☒ Yes

Category cover image ☒ Yes Upload new files immediately to Amazon AWS Cloud

☒ Yes Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud ⓘ

Choose file(s)

Category image that is usually displayed on the category page next to description, depending on your theme.

Category thumbnail

Choose file(s)

Miniature image that is used when displaying subcategories. Could be also used in menus and other places, depending on your theme.

SEO preview

http://prestashop9.local: 9-art :
Art

Here is a preview of how your page will appear in search engine results.

Meta title

To have a different title from the category name, enter it here.

0 of 70 characters

- **Upload new files immediately to Amazon AWS Cloud** – upload picture immediately to AWS
- **Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud** – remove image from PrestaShop server after upload to AWS S3

6. Brand page

PRESTASHOP 9.0.0 Quick Access Search (e.g.: product reference, customer name...)

WELCOME

- Dashboard
- Care Center

SELL

- Orders
- Catalog**
 - Products
 - Categories
 - Monitoring
 - Attributes & Features
 - Brands & Suppliers**
 - Files
 - Discounts
 - Stock
- Customers
 - Customer Service
 - Stats
- IMPROVE
 - Modules
 - Design
 - Shipping
 - Payment

Brands & Suppliers > Brands

Editing brand Studio Design

Brands Suppliers

Description

EN FR

Studio Design offers a range of items from ready-to-wear collections to contemporary objects. The brand has been presenting new 2012.

Logo ☒ Yes Upload new files immediately to Amazon AWS Cloud

☒ Yes Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud ⓘ

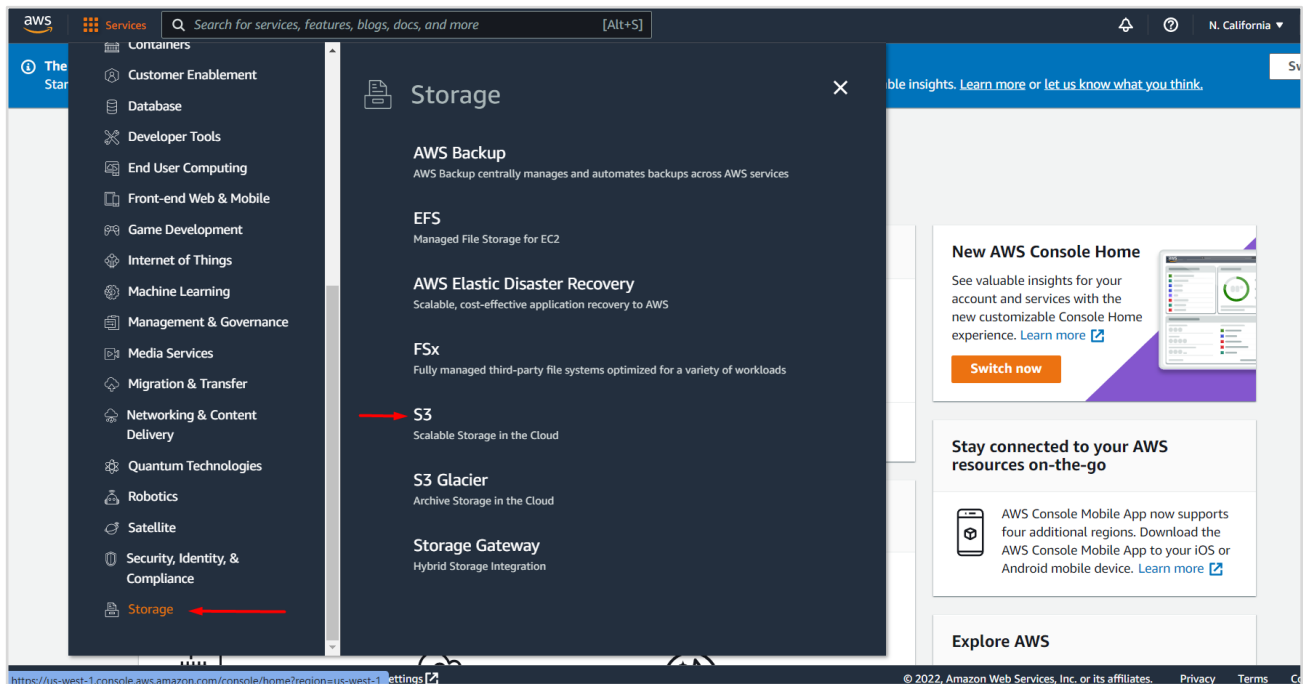
Choose file(s)

- **Upload new files immediately to Amazon AWS Cloud** – upload picture immediately to AWS
- **Delete new files from PrestaShop and keep exclusively on Amazon AWS Cloud** – remove image from PrestaShop server after upload to AWS S3

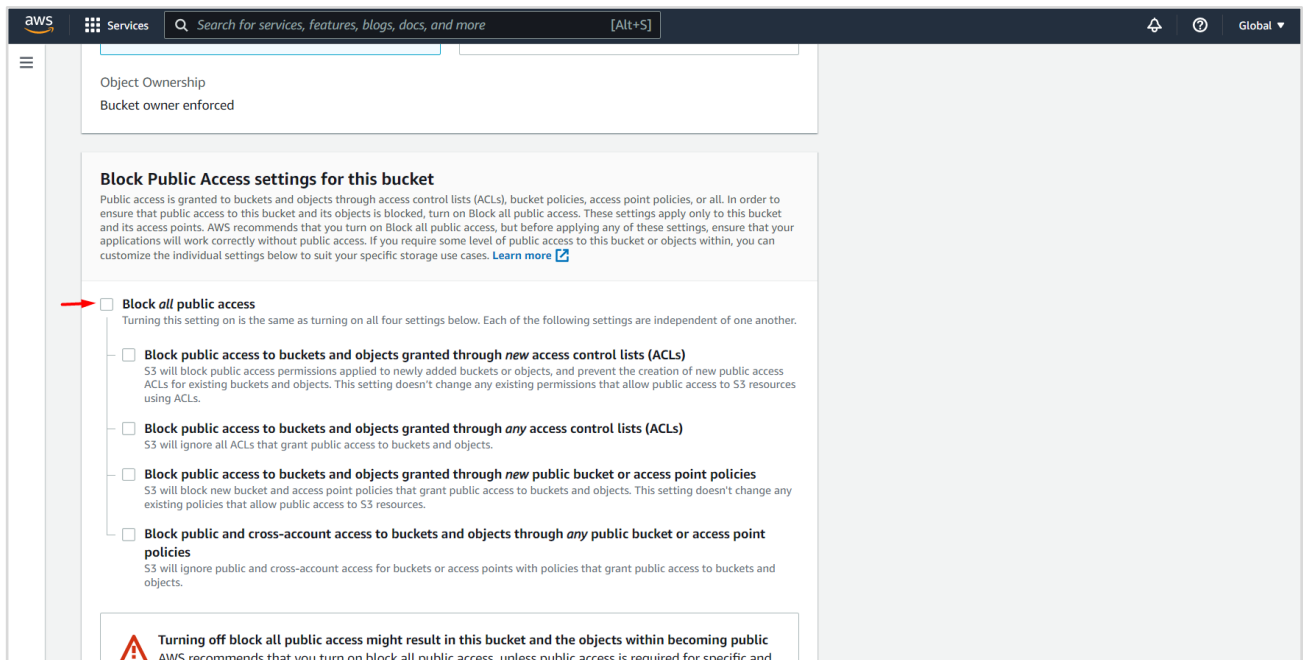
Attention! Keep in mind that if you select the 'Yes' option, all new media files will only be stored in the Amazon AWS Cloud and not on your PrestaShop store hosting! You must be aware of the implications of this setting and the risk of file loss.

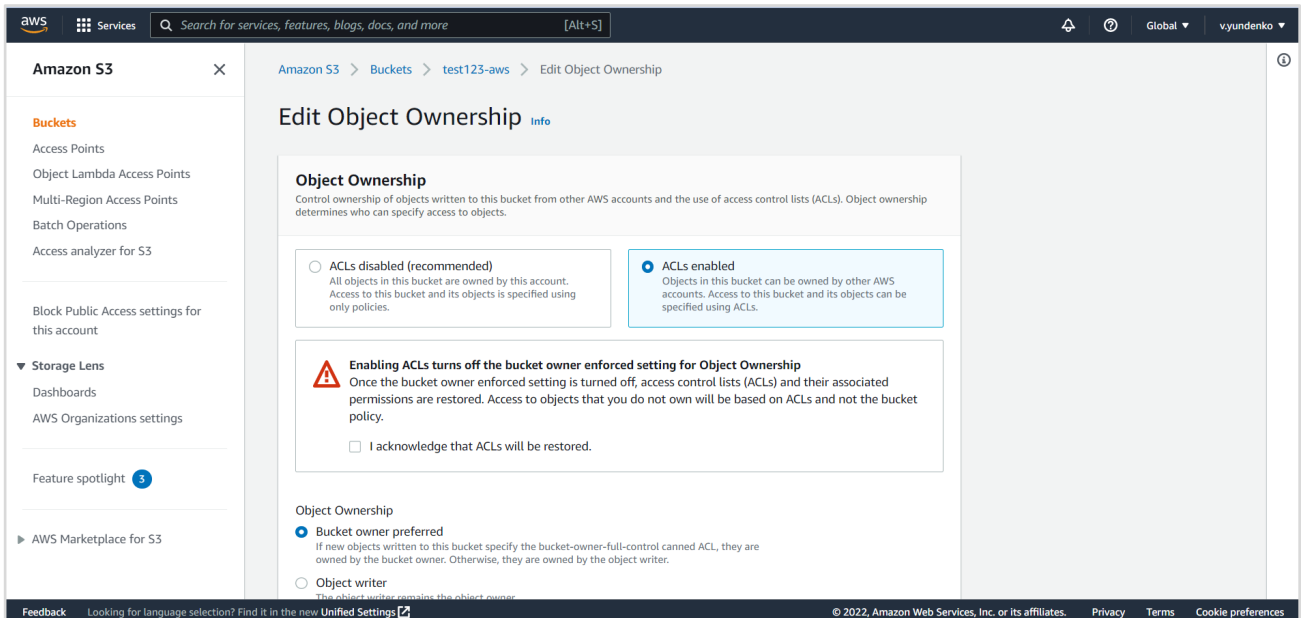
Setting up AWS S3

1. Register at <https://aws.amazon.com/>
2. Go to the console and in the Services menu select Storage-> S3 (<https://s3.console.aws.amazon.com>)

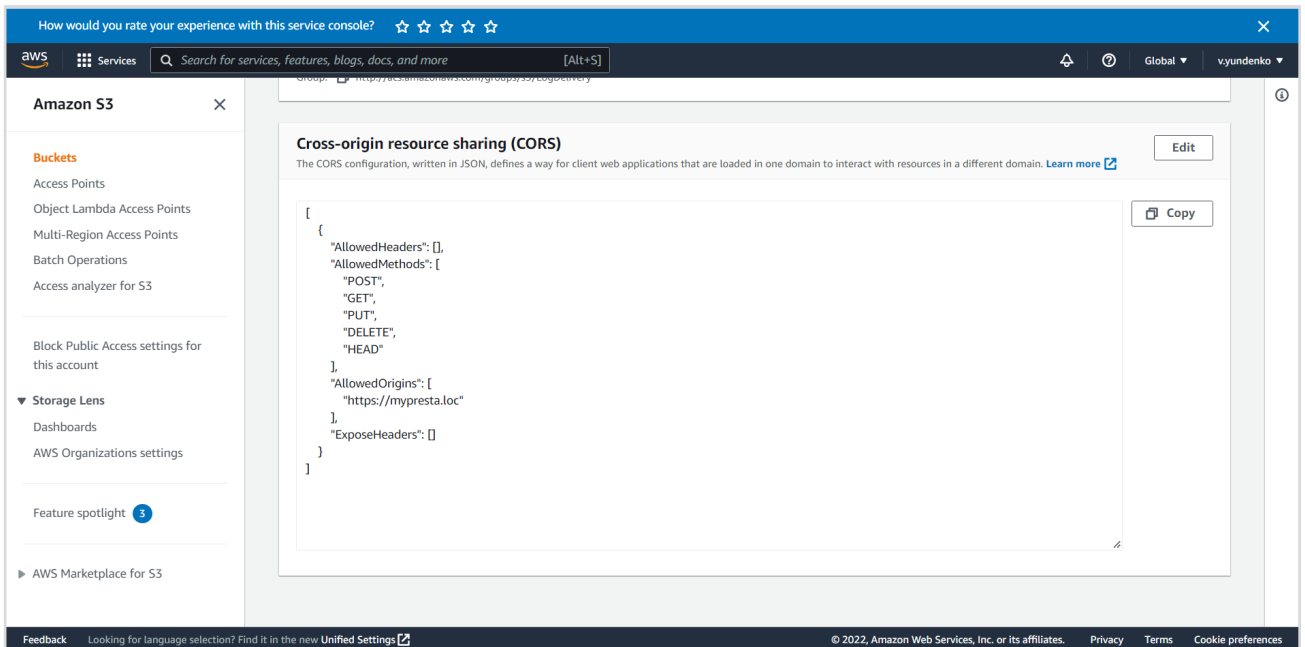


3. Create your Bucket (Create bucket)
4. Be sure to clear the checkbox when creating **Block all public access**





5. After creating a **Bucket**, please open it and go to the tab **Permissions** > section **Cross-origin resource sharing (CORS)**



Click the **Edit** button and set up CORS (JSON format):

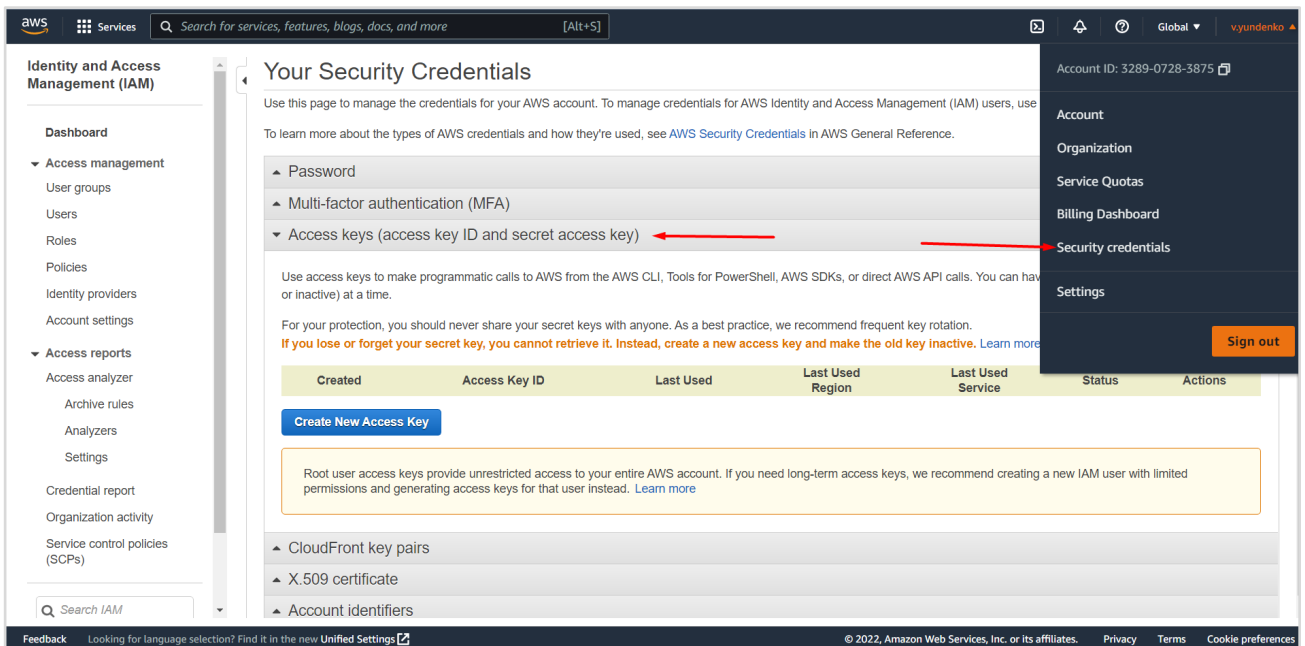
```
[
  {
    "AllowedHeaders": [],
    "AllowedMethods": [
      "POST",
      "GET",
      "PUT",
      "DELETE",
      "HEAD"
    ]
  }
]
```

```

    ],
    "AllowedOrigins": [
      "https://mypresta.loc"
    ],
    "ExposeHeaders": []
  }
]

```

Where **AllowedOrigins** is your site URL.
Obtaining access keys:



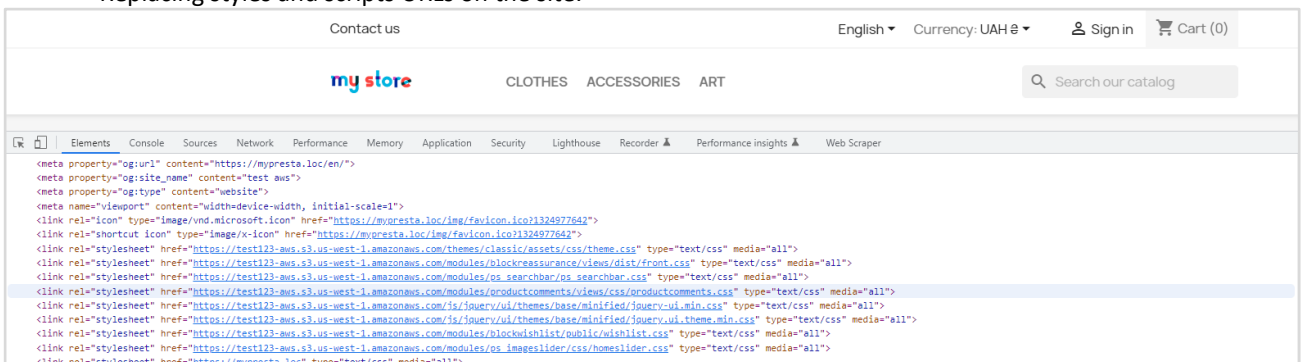
- 1) Go to **Security credentials** -> **Access Keys**
- 2) Click on **Create New Access Key**
- 3) Modal window will appear with a suggestion to save the key in a CSV file. Keep this file in a safe place. You will find **Access key**, **Secret key** in the file needed to configure the module.

Installation

- Upload the module through the Backoffice (Modules > Add New Module) or using FTP client
- Hit **Install** it and enter the configuration

Other remarks

Replacing styles and scripts URLs on the site:

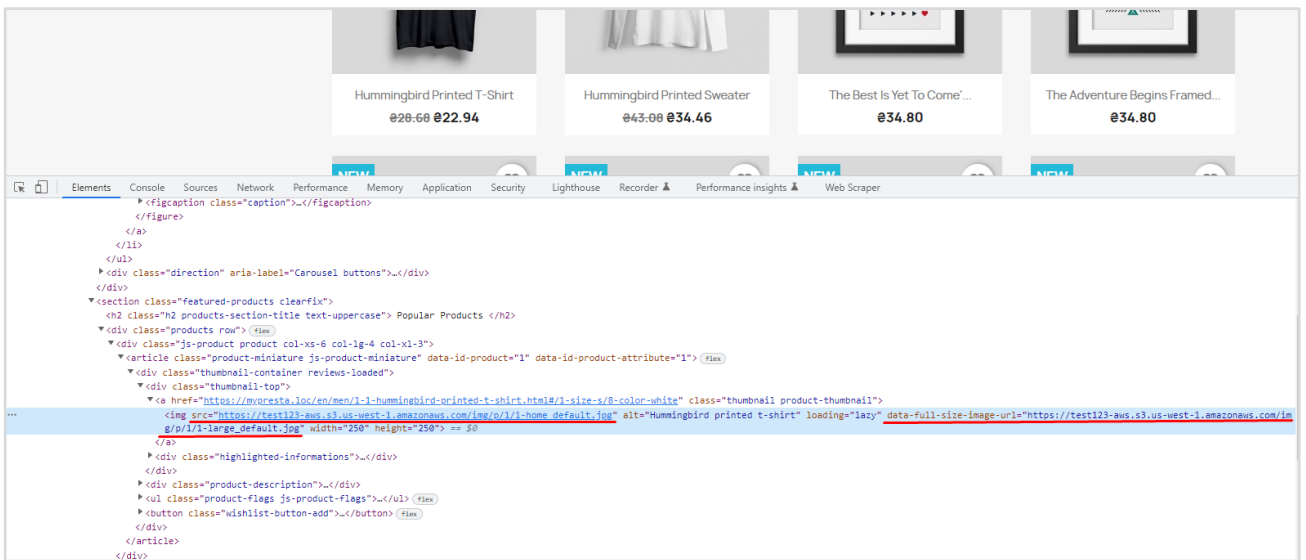


```

<body id="index" class="lang-en country-ua currency-uah layout-full-width page-index tax-display-enabled" style="=>
  <main>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/themes/core.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/themes/classic/assets/js/theme.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/os_emailsubscription/views/js/os_emailsubscription.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/blockreassurance/views/dist/front.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/os_facebook/views/js/front/conversion-aid.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/productcomments/views/js/jquery.rating.plugin.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/productcomments/views/js/productlistingComments.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/js/jquery/ui/jquery-ui.min.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/blockwishlist/public/product.bundle.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/os_imageslider/js/responsiveSlides.min.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/os_imageslider/js/homeslider.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/os_searchbar/os_searchbar.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/os_shoppingcart/os_shoppingcart.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/blockwishlist/public/graball.js"></script>
    <script type="text/javascript" src="https://test123-mus.s3.us-west-1.amazonaws.com/modules/blockwishlist/public/vendors.js"></script>
    <script type="text/javascript" src="https://myoresta.loc"></script>
    <ul class="ui-autocomplete ui-front ui-menu ui-widget ui-widget-content ui-corner-all searchbar-autocomplete" id="ui-id-1" tabindex="0" style="display: none;"></ul>
  </body>
</html>
html |body#index.lang-en.country-ua.currency-uah.layout-full-width.page-index.tax-display-enabled

```

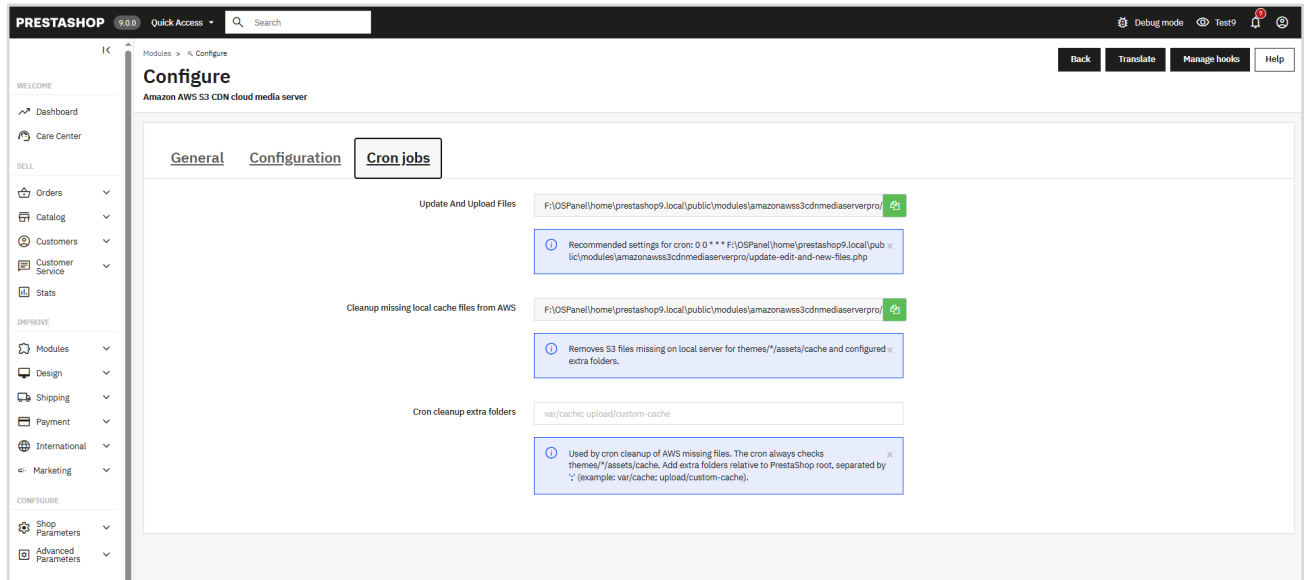
Replacing the url of images on the site:



Attention! Module has console command to push on AWS. You can start updating the modification date of files, searching for new files (according to the module settings) and uploading them to the AWS cloud through the command

line by running the file:
amazonawss3cdnmediaserver/update-edit-and-new-files.php

CRON jobs:



Update And Upload Files – script for updating files on AWS (new and changed)

Cleanup missing local cache files from AWS – cleaning up files on AWS that are no longer used in Prestashop

Cron cleanup extra folders – additional folders to clean up on AWS if files are missing from the Prestashop server

Prestashop Multishop

- Physical URL: supports
- Virtual URL: supports

Each store needs to set its own settings.