

How to Integrate FileCloud with Alibaba Cloud Object Based Storage



FileCloud officially supports only Amazon S3 storage.

- *Other Amazon S3 compatible storage systems are supported through our Amazon S3 drivers, including:*
 - *Digital Ocean S3 object storage*
 - *Scality*
 - *Wasabi*
 - *Alibaba Cloud S3 object storage*
- The robustness of these S3 compatible storage systems depends on their compatibility with Amazon S3 API.

Administrators can change the FileCloud storage type after FileCloud has been installed but BEFORE any data has been stored.

- When changing the storage type from local to Alibaba Cloud object storage, the files and folders that have been already stored in the local storage will not be automatically moved to S3 storage.
- In this case, the administrator has to manually export files and folders from local storage before changing the storage type, and manually import them after changing the storage type.



WARNINGS:

- Only change the FileCloud storage type for new installations.
- Do not change the FileCloud storage type if FileCloud has been in use and data is already stored.
- **Be very careful when changing the storage path, if done improperly it could lead to data loss.**
- The Alibaba cloud Bucket should NEVER be modified outside of FileCloud subsystem
- Do not add, edit, or modify files directly using Alibaba cloud tools. Doing so will destabilize your FileCloud installation.

To change the FileCloud storage path from LOCAL to Alibaba Cloud object storage:

NOTES:

Although FileCloud does not have an explicit connector for Alibaba cloud object storage, the Amazon S3 connector can be used.

In this step you will need to access **WWWROOT**. It is typically located at:

Windows	Linux (later than Ubuntu 14.04)	Linux (earlier than Ubuntu 14.04)
c:\xampp\htdocs	/var/www/html	/var/www

To enable Alibaba cloud object storage as the backend:

1. To make sure that your server does not have any time variations, set up the time on your server to be synchronized.
 - a. [Configure an authoritative time server in Windows Server.](#)
 - b. [Synchronize Time with NTP in Linux.](#)
2. Open the following file for editing:

```
WWWROOT/config/cloudconfig.php
```

3. Find the following line:

```
define("TONIDOCLOUD_STORAGE_IMPLEMENTATION", "local");
```

4. Change it to this line:

```
define("TONIDOCLOUD_STORAGE_IMPLEMENTATION", "amazons3");
```

5. Save and close the file.
6. Find the following file:

```
WWWROOT/config/amazons3storageconfig-sample.php
```

7. Rename it to:

```
WWWROOT/config/amazons3storageconfig.php
```

 **Nothing needs to be added or edited in amazons3storageconfig.php**

After you set up the storage implementation key in Step 1, configure the following credentials:

Field	Description
S3 Key	Your Alibaba cloud authentication key.
S3 Secret	Your Alibaba cloud authentication secret.
S3 Bucket Name	<p>Provide a bucket name. The bucket should be new (in some circumstances, a previously used bucket in FileCloud can be used).</p> <p>It is very important that the S3 bucket is never modified outside of the FileCloud subsystem,</p> <p>The bucket name is case sensitive. Make sure you are using the exact name of the bucket.</p>
S3 Storage Folder	Optional: Root storage folder that stores all files. (Will be created automatically).
S3 Region	Optional: The region string.
S3 End Point URL	The S3 endpoint. Note that for each region there is a specific Endpoint URL.

Manage Settings

Server **Storage** Authentication Admin Database Email Endpoint Backup License

My Files Network

S3 Compatible Storage Settings (My Files)

S3 Key
S3 account key

S3 Secret
S3 account secret

S3 Bucket Name
(Optional) Bucket name. Leave empty to autogenerate. Must be globally unique and cannot be changed once created.

S3 Storage Folder
(Optional) Folder name to place the files
(Optional) Folder name. If specified, a folder with this name will be created in the bucket and files will be placed under it. Once configured, this cannot be changed.

S3 Region
(Optional) AWS S3 region. Default region is 'us-east-1'. Must be a valid region string as published by Amazon and cannot be changed once the bucket is created

S3 End Point URL
(Optional) AWS S3 end point. Leave it empty if using Amazon's S3 service. The region string will automatically select the correct Endpoint. End point cannot be changed once the bucket is created

Save Settings
Verify S3 settings and auto-configure any needed S3 configuration

To configure Digital Ocean S3 Credentials

1. Open a browser and log into *Admin Portal*.
2. In the left navigation panel, under *SETTINGS*, select *Settings*.
3. On the *Manage Settings* screen, select the *Storage* tab.
4. Type in or select the settings for your environment.
5. Click *Save*.

Troubleshooting:

If you are having problems previewing images, add a line to the .htaccess file.

To add a line to the .htaccess file:

1. Open the following file:
 - a. Windows: C:\xampp\htdocs\.htaccess
 - b. Linux: /var/www/html/.htaccess
2. Add the following line:

```
Header set Content-Security-Policy: "default-src 'self' *.live.com; style-src 'unsafe-inline' 'self'; script-src 'unsafe-inline' 'unsafe-eval' 'self'; font-src 'self' data:; img-src 'self' *.live.com data: *.duosecurity.com *.aliyuncs.com"
```

If you are having problems playing mp4 videos, add a line to the .htaccess file.

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live.com data: *.duosecurity.com *.aliyuncs.com"
```