Managing File Extensions

> You can prevent specific file extensions from being uploaded in FileCloud 10.0 and later.
>
> Existing files cannot be renamed to use a restricted file extension in FileCloud 17.3 and later.
>
> You can create a list of only the file extensions you want to allow to be uploaded in FileCloud 19.1 and later.

> Prior to FileCloud Version 21.2, **Disallowed File Extensions** listed **php** and **php5** by default; from Version 21.2 on, it lists **php**, **php5**, **phar**, and **phtml**. If you are using a version of FileCloud earlier than 21.2, you are advised to add **phar** and **phtml** to the **Disallowed File** list. See Advisory 2021-09 Upload of Potentially Unsafe File Types for more information.

For security reasons you may want to create a set of rules for the working environment where many users have access to a central resource, such as files and folders in FileCloud Server.

- You can either create a list of file extensions to restrict, or create a list of file extensions to allow.
- If you create an Allowed list of file extensions, then any settings in the Disallowed list will be ignored.
- These restrictions help to prevent users from uploading malicious attachments and viewing them.
- By default FileCloud restricts users from uploading any files with php extensions. This is to prevent any code injection.

Allowed File Extensions

Specify file extensions that will be allowed for uploading (only files of those extensions will be accepted). Use '|' as the delimiter.

Disallowed File Extensions

php|php5|phar|phtml

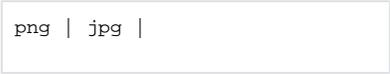Specify file extensions that will be prevented from uploading. Use '|' as the delimiter.

Which list should I use? The Allowed or Disallowed?

- If you know which file types you don't want to allow and this list is short, you can use the Disallowed setting.
- If you want to allow only a few file types to be uploaded, you can use the Allowed setting.
- If you create an Allowed list of file extensions, then any settings in the Disallowed list will be ignored.

What Do You Want to Do?

> ⊘ If you leave an empty space in your list, then you will allow files that don't have an extension to be uploaded.
>
> - An empty space is defined as a delimiter character followed by no value.

Examples	Description	Impact on Uploading Files
`png	jpg |`	Allow 3 types of files to be uploaded with an extension of: • png • jpg • *empty*	Only the following files can be uploaded by users: • Portable Network Graphics • Joint Photographic Experts Group • Any file without an extension (for example, a file named *config*)
`png	jpg`	Allow 3 types of files to be uploaded with an extension of: • png • jpg	Only the following files can be uploaded by users: • Portable Network Graphics • Joint Photographic Experts Group

FileCloud Version	Method	Instructions	Notes
19.1	Admin Portal	To manage extension in the Admin Portal: 1. Log into *Admin Portal*. 2. From the left navigation panel, select **Settings**. 3. **On the Settings screen, select the Misc. tab, and then the General tab.** 4. Scroll down until you see the *Allowed File Extensions* box. 5. In the *Allowed File Extensions* box, specify the allowed extensions, using the "|" character to separate each extension.	⚠ If you add extensions to the **Allowed File Extensions** list, then any extensions in the **Disallowed File Extension** list will be ignored. ⚠ If you leave an empty space in your list, then you will allow files that don't have an extension to be uploaded. Allowed File Extensions — Specify file extensions that will be allowed for uploading (only files of those extensions will be accepted). Use '|' as the delimiter. This list of extensions must use the following character as the delimiter: • '|' • For example, to restrict the mp4 and mp3 extensions: `mp4	mp3`

FileCloud Version	Method	Instructions	Notes

Earlier than 17.3	Direct Coding		This list of extensions must use the following character as the delimiter:⚠️
		1. Open the following file ``` WWWROOT\config\cloud config.php ``` 2. Add the following code ``` define ("TONIDOCLOUD_DISALL OWED_RESTRICTIONS", "php|php5|phar|phtml "); ``` To remove all file extension restrictions: 1. Open the following file ``` WWWROOT\config\cloud config.php ``` 2. Edit the code to match this: ``` define ("TONIDOCLOUD_DISALL OWED_RESTRICTIONS", ""); ```	• '|' • For example, to restrict php extensions: `php|php5|phar|phtml`
17.3 and later	Admin Portal Direct Coding	To manage extensions in the Admin Portal: 1. Log into Admin Portal. 2. From the left navigation panel, select **Settings.** 3. **On the Settings screen, select the Misc. tab, and then the General** tab. 4. Scroll down until you see the **Disallowed File Extensions** box. 5. In the **Disallowed File Extensions** box, add the additional restricted extensions.	⚠️ If you add extensions to the **Allowed File Extensions** list, then any extensions in the **Disallowed File Extension** list will be ignored. Disallowed File Extensions: php|php5|phar|phtml — Specify file extensions that will be prevented from uploading. Use '|' as the delimiter. This list of extensions must use the following character as the delimiter: • '|' • For example, to add restrictions for mp3 and mp4 to the list of disallowed extensions: `php|php5|phar|phtml|mp3|mp4`