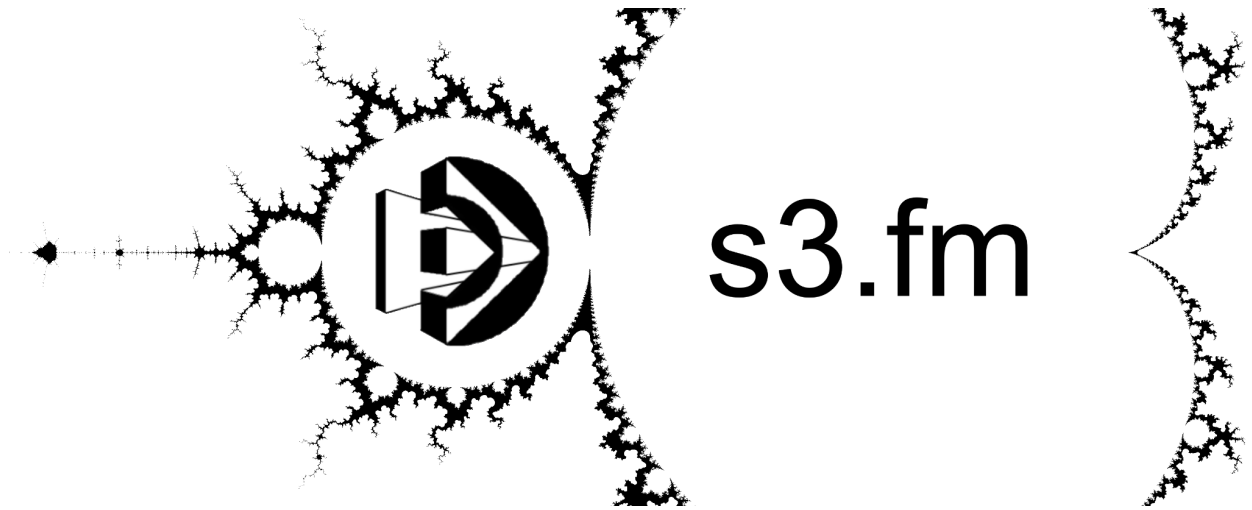




# **s3.fm REST API Documentation**

**August 2nd, 2021**

**v1.0**

# Errata

*This is a living document.*

*If you find an error in this documentation or experience an error you cannot find by searching this document, please let us know by emailing us at [support@s3.fm](mailto:support@s3.fm).*

# Contents

- [security](#)
- [authentication](#)
- [endpoints](#)
  - [/trial](#)
    - [/testkey](#)
    - [/storecreds](#)
    - [/upload](#)
  - [/write](#)
    - [/upload](#)
    - [/copy](#)
    - [/rename](#)
  - [/secret](#)
    - [/fm\\_credentials](#)
    - [/s3\\_credentials](#)
  - [/utility](#)
    - [/testkey](#)
    - [/presign](#)
    - [/makepublic](#)
    - [/delete](#)

*s3.fm stores your FM and AWS credentials using the highest standards.*

As of August 2nd, 2021, our credential storage meets the following compliance requirements:

- DoD CC SRG IL2
- DoD CC SRG IL4
- DoD CC SRG IL5
- FedRAMP
- HIPAA
- IRAP
- USPAR
- ISO/IEC 27001
- ISO/IEC 27017
- ISO/IEC 27018
- ISO 9001
- PCI-DSS
- SOC

*we can secure stored credentials but you still have to secure your data.*

Never host a solution without using Encryption At Rest.

Never leave a [Full Access] account without a strong password.

If you are invoking the s3.fm REST API from inside FileMaker by using the Insert From URL script step, ALWAYS select the option to "Verify SSL Certificates."

*follow the Principle of Least Privilege (PLP). Allow s3.fm to access only the bare minimum privileges required to complete its task.*

**Do not enable fmrest for the [Full Access] privilege set or users.**

Create a separate FileMaker user and privilege set that will be used exclusively by s3.fm.

This will be your "DATA API" user.

Use a strong password at least 16 characters long.

Enable the fmrest extended privilege for the DATA API user.

Disable access to layouts, records and fields that the DATA API user does not absolutely need.

Disable all other access to extended privileges, scripts, value lists, etc.

# authentication

*all API calls to s3.fm endpoints require an X-API-KEY header that contains your s3.fm API key.*

When you subscribe to s3.fm, you are issued an API key.  
Your key is used as a header for all requests to the s3.fm REST API.  
No further authentication is required.

It is your responsibility to keep your API key a secret.  
If you are storing your s3.fm API key in FileMaker, the most secure way to do so is in a text field in an encrypted database with strong passwords and limited access to the record and field.  
Don't forget that if you're hosting the solution, you'll have to close the file on your server and then open it locally to set the global field's value.  
If you are storing your s3.fm API key in another environment, store it as an environment variable.

There is no way to recover a lost or stolen API key.  
If you suspect your API key has been compromised, contact s3.fm from your subscriber email address and we will generate a new key for you, then invalidate your old key.

# endpoints/trial

/testkey

## Purpose:

Tests if you have entered your s3.fm key correctly.

method: **POST**

URL: `http://api.s3.fm/trial/testkey`

## Required Headers:

| HEADER       | VALUE                                   |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

Required body (JSON): none

## Successful responses:

|     |                                             |
|-----|---------------------------------------------|
|     | <b>API key valid</b>                        |
| 200 | <pre>{<br/>  "message": "trial"<br/>}</pre> |

## Failed responses:

|     |                                                 |
|-----|-------------------------------------------------|
|     | <b>API key not valid</b>                        |
| 403 | <pre>{<br/>  "message": "Forbidden"<br/>}</pre> |

# endpoints/trial

## /storecreds

### Purpose:

Stores your FileMaker database credentials in s3.fm's vault. Can also be used to determine if you have already stored credentials in s3.fm's vault.

method: **POST**

URL: `http://api.s3.fm/trial/storecreds`

Required Headers:

| HEADER       | VALUE                                   |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

Required body (JSON):

- **FQDN (string):** the fully qualified domain name of the FileMaker server.
- **database (string):** the name of the FileMaker database.
- **auth (string):** the auth string (credentials) to be stored. You must format the credentials as a base 64 encoded string "username:password". For example, if the username is "DATAAPI" and the password is "12345", the auth string is "REFUQUFQSToxMjM0NQ==". Use the FileMaker function Base64EncodeRFC ( 4648 ; "username:password" ) if you are unsure of how to generate an auth string.
- **action (string):** whether the credentials are "new" or "update". If you are adding new credentials or testing if credentials have been previously stored, use "new". If you are updating credentials, use "update".

Sample request payloads:

*add a new credential or check if credentials are already stored*

```
{
  "action": "new",
  "auth": "REFUQUFQSToxMjM0NQ==",
  "databaseName": "myDatabaseName",
  "FQDN": "host.example.com",
}
```

*update a credential previously stored*

```
{
```

```

    "action": "update",
    "auth": "REFUQUFQSToxMjM0NQ==",
    "databaseName": "myDatabaseName",
    "FQDN": "host.example.com",
}

```

### Successful responses:

|     | <b><i>credentials added or updated</i></b>  |
|-----|---------------------------------------------|
| 200 | {<br>"message": "Credentials added."<br>}   |
| 200 | {<br>"message": "Credentials updated."<br>} |

### Failed responses:

|     | <b><i>API key not valid</i></b>                                                        |
|-----|----------------------------------------------------------------------------------------|
| 403 | {<br>"message": "Forbidden"<br>}                                                       |
|     | <b><i>bad parameters</i></b>                                                           |
| 400 | {<br>"httpStatus": 400,<br>"errorType": "Action parameter must be new or update."<br>} |
| 400 | {<br>"httpStatus": 400,<br>"errorType": "Auth parameter missing."<br>}                 |
| 400 | {<br>"httpStatus": 400,<br>"errorType": "Database name parameter missing."<br>}        |
| 400 | {<br>"httpStatus": 400,<br>"errorType": "FQDN parameter missing."<br>}                 |
| 400 | {<br>"httpStatus": 400,<br>"errorType": "Action parameter missing."<br>}               |
|     | <b><i>database credentials not found in s3.fm vault</i></b>                            |
| 500 | {<br>"httpStatus": 500,<br>"errorType": "no matching FQDN found to update.",<br>}      |

|     |                                                                                                                                                |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre>       "error": "shost.example.com"     } </pre>                                                                                          |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "no matching database found at stored FQDN.",   "error": "myDatabaseName" } </pre>                 |
|     | <b><i>cannot overwrite unless action = update</i></b>                                                                                          |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "matching database found at FQDN but cannot overwrite with action: new",   "error": "new" } </pre> |

# endpoints/trial

## /upload

### purpose:

Uploads a file from a container in your FM database to the s3.fm public sandbox bucket. *For details on how to upload to your own bucket, see [/write/upload](#).*

### prerequisites:

Requires s3 credentials stored in the s3.fm vault.

### method: POST

URL: `http://api.s3.fm/trial/upload`

### Required Headers:

|              |                                         |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

### required body parameters (JSON):

- **fm.FQDN (string):** The fully qualified domain name of the FileMaker server to be queried.
- **fm.database (string):** The name of the database to be queried.
- **fm.container.layout (string):** The name of a FileMaker layout that displays the container field, primary key field and a return URL field.
- **fm.container.key.field (string):** The name of the primary key field. A primary key is a unique identifier, such as a UUID or serial number.
- **fm.container.key.value (string):** The matching primary key value for the record to be uploaded.
- **fm.container.field (string):** The name of the container field with the file to be uploaded.
- **fm.container.responseField (string):** The name of a field where s3.fm will insert it's response.

### optional body parameters (JSON):

- **fm.log.layout (string):** A layout where s3.fm will create a new record which logs the upload.
- **fm.log.field (string):** A field on the logging layout where s3.fm will write it's response.

### *body parameters that are disabled for trial subscriptions (JSON):*

- **s3.region (string):** The region of the S3 bucket. *For trial subscriptions, the value of this string will always be "us-east-1".*
- **s3.bucket (string):** The destination bucket for the file. *For trial subscriptions, the value of this string will always be "s3-fm-sandbox".*
- **s3.key (string):** The destination path of the file. This can be a simple filename such as "image.jpg" or include a folder structure such as "folder/subfolder/image.jpg". *For trial subscriptions, s3.fm assigns your file a random filename and sets its path to your folder in the sandbox bucket, such as "BF30/09BDC0AF.jpg". This folder is not private; anyone with the URL will be able to read and download the file.*
- **s3.makePublic (boolean):** Whether or not to make the uploaded file available to the public. *For trial subscriptions, the value of this boolean will always be true.*

## Example Request Payload:

*a standard upload from a trial subscriber (local logging disabled)*

```
{
  "fm": {
    "container": {
      "field": "image",
      "key": {
        "field": "PrimaryKey",
        "value": "CD3FA895-C5B5-B34F-9FE9-EE6F2994D2EF"
      },
      "layout": "Media"
    },
    "database": "myDatabase",
    "FQDN": "host.example.com",
    "responseField": "uploadedURL"
  }
}
```

*a logged upload from a trial subscriber*

```
{
  "fm": {
    "container": {
      "field": "image",
      "key": {
        "field": "PrimaryKey",
        "value": "CD3FA895-C5B5-B34F-9FE9-EE6F2994D2EF"
      },
      "layout": "Media"
    },
    "database": "myDatabase",
    "FQDN": "host.example.com",
    "log": {
      "field": "JSON",
      "layout": "log"
    },
    "responseField": "uploadedURL"
  }
}
```

Successful response:

|  |                                 |
|--|---------------------------------|
|  | <b><i>successful upload</i></b> |
|--|---------------------------------|

|     |                                                                                                                                                                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200 | <pre>{   "httpStatus": 200,   "message": "ok",   "URL":     "https://s3-fm-sandbox.s3.us-east-1.amazonaws.com/AFDC1238/253c8398.jpg",   "s3UploadResponse": {     "Expiration": "expiry-date=\\"Sat, 07 Aug 2021 00:00:00 GMT\\",     rule-id=\\"72hourDelete\\",     "ETag": "\\"133895f174308d98c7eaf6ebb80c3254\\",     "ServerSideEncryption": "AES256"   } }</pre> |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Failed responses:

|     |                                                                                                                                               |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|
|     | <b><i>API key not valid</i></b>                                                                                                               |
| 403 | <pre>{   "message": "Forbidden" }</pre>                                                                                                       |
|     | <b><i>FileMaker credentials not stored in s3.fm vault</i></b>                                                                                 |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "'s3 credentials incomplete or missing." }</pre>                                                   |
| 500 | <pre>{   "httpStatus": 500,   "errorType": "FQDN not found in credentials vault.",   "error": "host.example.com" }</pre>                      |
| 500 | <pre>{   "httpStatus": 500,   "errorType": "FileMaker database not found in credentials vault.",   "error": "myDatabase" }</pre>              |
| 500 | <pre>{   "httpStatus": 500,   "errorType": "FileMaker database credentials not stored in credentials vault.",   "error": "myDatabase" }</pre> |
|     | <b><i>bad request body parameters</i></b>                                                                                                     |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "fm JSON object missing." }</pre>                                                                  |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "fm.FQDN (FileMaker server location) parameter missing." }</pre>                                   |
| 400 | <pre>{</pre>                                                                                                                                  |

|     |                                                                                                                                     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre> "statusCode": 400, "errorType": "fm.container JSON object missing." } </pre>                                                  |
| 400 | <pre> {   "statusCode": 400,   "errorType": "fm.container.field (container field name) parameter missing." } </pre>                 |
| 400 | <pre> {   "statusCode": 400,   "errorType": "fm.container.key JSON object missing." } </pre>                                        |
| 400 | <pre> {   "statusCode": 400,   "errorType": "fm.container.key.field (container primary key field name) parameter missing." } </pre> |
| 400 | <pre> {   "statusCode": 400,   "errorType": "fm.container.key.value (container primary key value) parameter missing." } </pre>      |
| 400 | <pre> {   "statusCode": 400,   "errorType": "fm.container.layout (container layout name) parameter missing." } </pre>               |
| 400 | <pre> {   "statusCode": 400,   "errorType": "fm.database (database name) parameter missing." } </pre>                               |
| 400 | <pre> {   "statusCode": 400,   "errorType": "fm.log object specified with fm.log.field parameter missing." } </pre>                 |
| 400 | <pre> {   "statusCode": 400,   "errorType": "fm.log object specified with fm.log.layout parameter missing." } </pre>                |
| 400 | <pre> {   "statusCode": 400,   "errorType": "fm.responseField parameter missing." } </pre>                                          |
| 500 | <pre> {   "statusCode": 500,   "errorType": "AWS region does not exist.",   "error": "US-EAST-ONE" } </pre>                         |
| 500 | <pre> {   "statusCode": 500, </pre>                                                                                                 |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre> "errorType": "Local logging layout not found.", "error": {   "field": "log",   "layout": "JSON" } } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "Local logging field not found.",   "error": {     "field": "log",     "layout": "JSON"   } } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|     | <b><i>FileMaker Server is unavailable (not online)</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 500 | <pre> {   "message": "Internal server error" } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|     | <b><i>FileMaker Data API is disabled</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "A FileMaker Data API token could not be generated.",   "error": "&lt;!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN\" \\\"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd\"&gt;\\r\\n&lt;html xmlns=\\\"http://www.w3.org/1999/xhtml\\\"&gt;\\r\\n&lt;head&gt;\\r\\n&lt;meta http-equiv=\\\"Content-Type\\\" content=\\\"text/html; charset=iso-8859-1\\\"/&gt;\\r\\n&lt;title&gt;502 - Web server received an invalid response while acting as a gateway or proxy server.&lt;/title&gt;\\r\\n&lt;style type=\\\"text/css\\\"&gt;\\r\\n&lt;!--\\r\\nbody{margin:0;font-size:.7em;font-family:Ver dana, Arial, Helvetica, sans-serif;background:#EEEEEE;}\\r\\nfieldset{padding:0 15px 10px 15px;} \\r\\nh1{font-size:2.4em;margin:0;color:#FFF;}\\r\\nh2{font-size:1.7em;margin: 0;color:#CC0000;} \\r\\nh3{font-size:1.2em;margin:10px 0 0 0;color:#000000;} \\r\\n#header{width:96%;margin:0 0 0 0;padding:6px 2% 6px 2%;font-family:\\\"trebuchet MS\\\", Verdana, sans-serif;color:#FFF;\\r\\nbackground-color:#555555;}\\r\\n#content{margin:0 0 0 2%;position:relative;}\\r\\n.content-container{background:#FFF;width:96%;mar gin-top:8px;padding:10px;position:relative;}\\r\\n--&gt;\\r\\n&lt;/style&gt;\\r\\n&lt;/head&gt; \\r\\n&lt;body&gt;\\r\\n&lt;div id=\\\"header\\\"&gt;&lt;h1&gt;Server Error&lt;/div&gt;\\r\\n&lt;div id=\\\"content\\\"&gt;\\r\\n &lt;div class=\\\"content-container\\\"&gt;&lt;fieldset&gt;\\r\\n &lt;h2&gt;502 - Web server received an invalid response while acting as a gateway or proxy server.&lt;/h2&gt;\\r\\n &lt;h3&gt;There is a problem with the page you are looking for, and it cannot be displayed. When the Web server (while acting as a gateway or proxy) contacted the upstream content server, it received an invalid response from the content server.&lt;/h3&gt;\\r\\n &lt;/fieldset&gt;&lt;/div&gt;\\r\\n&lt;/div&gt;\\r\\n&lt;/body&gt;\\r\\n&lt;/html&gt;\\r\\n" } </pre> |
|     | <b><i>FileMaker database not open</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 500 | <pre> {   "httpStatus": 500, </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|     |                                                                                                                                                                                                                                                                 |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre> "errorType": "A FileMaker Data API token could not be generated.", "error": {   "messages": [     {       "code": "802",       "message": "Unable to open file"     }   ],   "response": {} } </pre>                                                      |
|     | <b><i>container not found or empty</i></b>                                                                                                                                                                                                                      |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "Cannot find container: No records match primary Key.",   "error": "WRONG-KEY-XXX-XXXXX" } </pre>                                                                                                                   |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "Primary key field not found on layout.",   "error": "wrongField" } </pre>                                                                                                                                          |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "Container layout not found in database.",   "error": "wrongLayout" } </pre>                                                                                                                                        |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "Multiple records found, primary key value not unique.",   "error": {     "field": "containerField",     "key": {       "field": "keyField",       "value": "*"     },     "layout": "containerLayout"   } } </pre> |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "No container found on layout.",   "error": {     "field": "wrongContainerField",     "key": {       "field": "keyField",       "value": "731"     },     "layout": "containerLayout"   } } </pre>                  |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "No container found on layout.",   "error": { </pre>                                                                                                                                                                |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre>         "field": "image",         "key": {           "field": "MediaID",           "value": "229"         },         "layout": "Media"       }     }   } </pre>                                                                                                                                                                                                                                                                                                                                                                                                |
|     | <b>Invalid AWS S3 username</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "s3 putObject error.",   "error": {     "message": "The AWS Access Key Id you provided does not exist in our records.",     "code": "InvalidAccessKeyId",     "region": null,     "time": "2021-08-03T05:58:50.721Z",     "requestId": "QNDDJQWXMEQ71BWZ",     "extendedRequestId": "hHgpx+NEhf2k1VUgssL+pYY/0sazQHvYf2MV5hqZUkqoJerkIYm9zYPLgXq/N1T5VEsgFdLuT D0=",     "statusCode": 403,     "retryable": false,     "retryDelay": 86.66657064035415   } } </pre>                                                     |
|     | <b>Invalid AWS S3 password</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "s3 putObject error.",   "error": {     "message": "The request signature we calculated does not match the signature you provided. Check your key and signing method.",     "code": "SignatureDoesNotMatch",     "region": null,     "time": "2021-08-03T05:59:42.910Z",     "requestId": "GDZFB8RF8PSW3199",     "extendedRequestId": "dao0CMqhJ7LHJzxLEH1FSFRPZ42zJMN3NZ3HVm9mdfFbV9MSLNXBnM7CoaHL2ebdlctrhCoV6 rY=",     "statusCode": 403,     "retryable": false,     "retryDelay": 28.120544342696885   } } </pre> |
|     | <b>FileMaker security errors (check the permission set for the s3.fm user)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 500 | <pre> {   "httpStatus": 500,   "errorType": "response field cannot be modified.",   "error": "s3url" } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|     |                                                                                                                                      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------|
| 500 | <pre>{   "httpStatus": 500,   "errorType": "Container layout not found in database.",   "error": "correctLayoutName" }</pre>         |
| 500 | <pre>{   "httpStatus": 500,   "errorType": "Primary key field not found on layout.",   "error": "correctPrimaryKeyFieldName" }</pre> |

# endpoints/write

## /upload

### purpose:

Upload a file from a container in your FM database to your own personal S3 bucket.

### prerequisites:

Requires a paid subscription to s3.fm.

Requires s3 credentials stored in the s3.fm vault.

### All /write endpoints expend one write operation per use.

Users with unlimited plans will be charged above and beyond their monthly subscription for writing more than 10,000 times in a month.

### method: POST

**URL:** `http://api.s3.fm/write/upload`

### Required Headers:

|              |                                         |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

### required body parameters (JSON):

All required body parameters from [/trial/upload](#) are also required by /write/upload. See [/trial/upload](#) for more details.

### Additional required body parameters:

- **s3.region (string):** The region of the S3 bucket.
- **s3.bucket (string):** The destination bucket for the file.
- **s3.key (string):** The destination path of the file. This can be a simple filename such as "image.jpg" or include a folder structure such as "folder/subfolder/image.jpg".
- **s3.makePublic (boolean):** Whether or not to make the uploaded file available to the public.

### optional body parameters (JSON):

- **fm.log.layout (string):** A layout where s3.fm will create a new record which logs the upload.
- **fm.log.field (string):** A field on the logging layout where s3.fm will write its response.

## Example Request Payload:

*a standard upload from a paid subscriber (local logging disabled)*

```
{
  "fm": {
    "container": {
      "field": "image",
      "key": {
        "field": "PrimaryKey",
        "value": "CD3FA895-C5B5-B34F-9FE9-EE6F2994D2EF"
      },
      "layout": "Media"
    },
    "database": "myDatabase",
    "FQDN": "host.example.com",
    "responseField": "uploadedURL"
  },
  "s3": {
    "region": "us-east-1",
    "bucket": "s3-fm-super-sandbox",
    "key": "test.jpg",
    "makePublic": false
  }
}
```

## Successful response:

|     | <b><i>successful upload</i></b>                                                                                                                                                                                                                             |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200 | <pre>{   "httpStatus": 200,   "message": "ok",   "URL":     "https://s3-fm-super-sandbox.s3.us-east-1.amazonaws.com/test.jpg",   "s3UploadResponse": {     "ETag": "\"924914ec90cd89f40aaccd9f7024c34d\"",     "ServerSideEncryption": "AES256"   } }</pre> |

Most failed responses are the same as [/trial/upload](#).

Failed responses not included in [/trial/upload](#):

|     | <b><i>API key not valid</i></b>                                                                 |
|-----|-------------------------------------------------------------------------------------------------|
| 403 | <pre>{   "message": "Forbidden" }</pre>                                                         |
|     | <b><i>missing parameters</i></b>                                                                |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "s3.makePublic (boolean) parameter missing." }</pre> |

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400                                        | <pre>{   "httpStatus": 400,   "errorType": "s3.key (destination file name) parameter missing." }</pre>                                                                                                                                                                                                                                                                                                                                                                     |
| 400                                        | <pre>{   "httpStatus": 400,   "errorType": "s3.bucket (s3 bucket name) parameter missing." }</pre>                                                                                                                                                                                                                                                                                                                                                                         |
| 400                                        | <pre>{   "httpStatus": 400,   "errorType": "s3.region (s3 region name) parameter missing." }</pre>                                                                                                                                                                                                                                                                                                                                                                         |
| <b><i>bucket missing or misspelled</i></b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 500                                        | <pre>{   "httpStatus": 500,   "errorType": "s3.putObject error.",   "error": {     "message": "The specified bucket does not exist",     "code": "NoSuchBucket",     "region": null,     "time": "2021-08-03T07:35:06.185Z",     "requestId": "XC6KYYYRCBAW83J2",     "extendedRequestId": "OMVXxOLYAnfuVixX84gycTfSzIdv7DNDSSGofDjCKqSNpRqLDbejNOYikM3ZMDQ07j0yH6MZS YM=",     "statusCode": 404,     "retryable": false,     "retryDelay": 78.26274570651029   } }</pre> |

# endpoints/write

/copy

## purpose:

Copies a file already in S3 to a different name in the same bucket. The new file is marked as private automatically.

## prerequisites:

Requires a paid subscription to s3.fm.

Requires s3 credentials stored in the s3.fm vault.

## All /write endpoints expend one write operation per use.

Users with unlimited plans will be charged above and beyond their monthly subscription for writing more than 10,000 times in a month.

method: PUT

URL: `http://api.s3.fm/write/copy`

## Required Headers:

|              |                                         |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

## required body parameters (JSON):

- **s3.region (string):** The region of the S3 bucket.
- **s3.bucket (string):** The destination bucket for the file.
- **s3.key (string):** The path of the source file.
- **s3.newkey (string):** The destination path of the copied file.

## Example Request Payload:

*copy the file test.jpg from the live folder in to the backups folder*

```
{
  "s3": {
    "region": "us-east-1",
    "bucket": "s3-fm-super-sandbox",
    "key": "live/test.jpg",
    "newKey": "backups/test.jpg"
  }
}
```

## Successful response:

|     |                                                                                                                                                                                                                                                                                                                                      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <b><i>successful copy</i></b>                                                                                                                                                                                                                                                                                                        |
| 200 | <pre>{   "httpStatus": 200,   "message": "ok",   "data": {     "ServerSideEncryption": "AES256",     "CopyObjectResult": {       "ETag": "\"924914ec90cd89f40aaccd9f7024c34d\"",       "LastModified": "2021-08-03T20:08:16.000Z"     }   },   "URL":     "https://s3-fm-super-sandbox.s3.us-east-1.amazonaws.com/test2.jpg" }</pre> |

### Failed responses:

|     |                                                                                                                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <b><i>API key not valid</i></b>                                                                                                                                                                                                                          |
| 403 | <pre>{   "message": "Forbidden" }</pre>                                                                                                                                                                                                                  |
|     | <b><i>missing or bad parameters</i></b>                                                                                                                                                                                                                  |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "missing s3 region parameter",   "message": {     "s3": {       "regions": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg",       "newKey": "backups/test.jpg"     }   } }</pre>  |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "missing s3 bucket parameter",   "message": {     "s3": {       "regions": "us-east-1",       "buckets": "s3-fm-super-sandbox",       "key": "test.jpg",       "newKey": "backups/test.jpg"     }   } }</pre> |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "missing s3 source key (folder/filename) parameter",   "message": {     "s3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "ekey": "test.jpg", </pre>                          |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre>         "newKey": "backups/test.jpg"       }     }   } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "missing s3 destination key (folder/filename) parameter",   "message": {     "s3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg",       "snewKey": "backups/test.jpg"     }   } } </pre>                                                                                                                                                                                                                             |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "missing s3 parameter object",   "message": {     "es3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "ekey": "test.jpg",       "newKey": "backups/test.jpg"     }   } } </pre>                                                                                                                                                                                                                                                       |
|     | <b><i>region misspelled</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "getSecretValue Error.",   "message": {     "message": "User: arn:aws:sts::048237466775:assumed-role/s3fm_copy-role-2r1l5gs6/s3fm_copy is not authorized to perform: secretsmanager:GetSecretValue on resource: S3FM-91192357",     "code": "AccessDeniedException",     "time": "2021-08-03T20:13:00.339Z",     "requestId": "8208101b-f8b7-40f7-b6c3-cd9f102ad7fc",     "statusCode": 400,     "retryable": false,     "retryDelay": 99.3540682119821   } } </pre> |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "copyObject error.",   "message": {     "message": "Inaccessible host: `s3-fm-super-sandbox.s3.us-east-1s.amazonaws.com`. This service may not be available in the `us-east-1s` region.",     "code": "UnknownEndpoint",     "region": "us-east-1s",     "hostname": "s3-fm-super-sandbox.s3.us-east-1s.amazonaws.com",   } } </pre>                                                                                                                                 |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre>         "retryable": true,         "originalError": {           "message": "getaddrinfo ENOTFOUND s3-fm-super-sandbox.s3.us-east-1s.amazonaws.com",           "errno": -3008,           "code": "NetworkingError",           "syscall": "getaddrinfo",           "hostname": "s3-fm-super-sandbox.s3.us-east-1s.amazonaws.com",           "region": "us-east-1s",           "retryable": true,           "time": "2021-08-03T20:15:49.201Z"         },         "time": "2021-08-03T20:15:49.201Z"       }     }   } </pre> |
|     | <b><i>bucket missing or misspelled</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "copyObject error.",   "message": {     "message": "The specified bucket does not exist",     "code": "NoSuchBucket",     "region": null,     "time": "2021-08-03T20:12:40.897Z",     "requestId": "BMD34Y0B1N7QT2QB",     "extendedRequestId": "Cj0dNHFcMjQFUwJREiFV/5jUeVzW00rHFGIAHMKDhT5n+frL07AUNQdha+B6f1GuYmlo2UIT1 Fs=",     "statusCode": 404,     "retryable": false,     "retryDelay": 64.57026113462881   } } </pre>                                                     |
|     | <b><i>source file not found in s3</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "copyObject error.",   "message": {     "message": "Access Denied",     "code": "AccessDenied",     "region": null,     "time": "2021-08-03T20:16:22.505Z",     "requestId": "4AGWTTA32S5Y6D8V",     "extendedRequestId": "AwqKqZvYVebgvEA+llfZ5yf6SgBT6N1JlbEtR/0eP7UeDIcsBm3Ej46uL7++LnCrDgUBHC7I4 tQ=",     "statusCode": 403,     "retryable": false,     "retryDelay": 10.509391060038453   } } </pre>                                                                          |

# endpoints/write

## /rename

### purpose:

Copies a file already in S3 to a different name in the same bucket, then deletes the source file. The new file is marked as private automatically. Also used to move files.

### prerequisites:

Requires a paid subscription to s3.fm.

Requires s3 credentials stored in the s3.fm vault.

### All /write endpoints expend one write operation per use.

Users with unlimited plans will be charged above and beyond their monthly subscription for writing more than 10,000 times in a month.

### method: PATCH

URL: `http://api.s3.fm/write/rename`

### Required Headers:

|              |                                         |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

### required body parameters (JSON):

- **s3.region (string):** The region of the S3 bucket.
- **s3.bucket (string):** The destination bucket for the file.
- **s3.key (string):** The path of the source file.
- **s3.newkey (string):** The destination path of the renamed file.

### Example Request Payload:

*rename the file test.jpg to schmest.jpg*

```
{
  "s3": {
    "region": "us-east-1",
    "bucket": "s3-fm-super-sandbox",
    "key": "test.jpg",
    "newKey": "schmest.jpg"
  }
}
```

move the file test.jpg to folder/test.jpg

```
{
  "s3": {
    "region": "us-east-1",
    "bucket": "s3-fm-super-sandbox",
    "key": "test.jpg",
    "newKey": "folder/test.jpg"
  }
}
```

Successful response:

|     | <b>successful rename</b>                                                                                                                                                                                                                                                                                                               |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200 | <pre>{   "httpStatus": 200,   "message": "ok",   "data": {     "ServerSideEncryption": "AES256",     "CopyObjectResult": {       "ETag": "\"924914ec90cd89f40aaccd9f7024c34d\"",       "LastModified": "2021-08-03T20:30:39.000Z"     }   },   "URL":     "https://s3-fm-super-sandbox.s3.us-east-1.amazonaws.com/schmest.jpg" }</pre> |

Failed responses:

|     | <b>API key not valid</b>                                                                                                                                                                                                                           |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 403 | <pre>{   "message": "Forbidden" }</pre>                                                                                                                                                                                                            |
|     | <b>missing parameters</b>                                                                                                                                                                                                                          |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "missing s3 parameter object",   "message": {     "as3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg",       "newKey": "schmest.jpg"     }   } }</pre> |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "missing s3 region parameter",   "message": {     "s3": {</pre>                                                                                                                                         |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre>         "sregion": "us-east-1",         "bucket": "s3-fm-super-sandbox",         "key": "test.jpg",         "newKey": "schmest.jpg"       }     }   } </pre>                                                                                                                                                                                                                                                                                                                                                                       |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "missing s3 bucket parameter",   "message": {     "s3": {       "region": "us-east-1",       "sbucket": "s3-fm-super-sandbox",       "key": "test.jpg",       "newKey": "schmest.jpg"     }   } } </pre>                                                                                                                                                                                                                                                                                     |
| 400 | <pre> "httpStatus": 400, "errorType": "missing s3 source key (folder/filename) parameter", "message": {   "s3": {     "region": "us-east-1",     "bucket": "s3-fm-super-sandbox",     "ekey": "test.jpg",     "newKey": "schmest.jpg"   } } </pre>                                                                                                                                                                                                                                                                                       |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "missing s3 destination key (folder/filename) parameter",   "message": {     "s3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg",       "snewKey": "schmest.jpg"     }   } } </pre>                                                                                                                                                                                                                                                          |
|     | <b><i>misspelled region</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | <pre> {   "httpStatus": 400,   "errorType": "copyObject error.",   "message": {     "message": "Inaccessible host: `s3-fm-super-sandbox.s3.us-east-1z.amazonaws.com'. This service may not be available in the `us-east-1z' region.",     "code": "UnknownEndpoint",     "region": "us-east-1z",     "hostname": "s3-fm-super-sandbox.s3.us-east-1z.amazonaws.com",     "retryable": true,     "originalError": {       "message": "getaddrinfo ENOTFOUND s3-fm-super-sandbox.s3.us-east-1z.amazonaws.com",       "errno": -3008, </pre> |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre>         "code": "NetworkingError",         "syscall": "getaddrinfo",         "hostname": "s3-fm-super-sandbox.s3.us-east-1z.amazonaws.com",         "region": "us-east-1z",         "retryable": true,         "time": "2021-08-03T20:28:34.148Z"       },       "time": "2021-08-03T20:28:34.148Z"     }   } </pre>                                                                                                                                                           |
|     | <b><i>bucket missing or misspelled</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 500 | <pre> {   "httpStatus": 400,   "errorType": "copyObject error.",   "message": {     "message": "The specified bucket does not exist",     "code": "NoSuchBucket",     "region": null,     "time": "2021-08-03T20:29:34.229Z",     "requestId": "9NJ223GQTT3EN29M",     "extendedRequestId":     "q+8qeWBT8hZklHmXRGrcMhanCh8RhVQlGxgrjP4jzg1cbF+EI0nTs/cUCU7g01jZIsQTZLHxn     3E=",     "statusCode": 404,     "retryable": false,     "retryDelay": 70.59325757330619   } } </pre> |
|     | <b><i>source file not found in s3</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | <pre> {   "httpStatus": 400,   "errorType": "copyObject error.",   "message": {     "message": "Access Denied",     "code": "AccessDenied",     "region": null,     "time": "2021-08-03T20:29:47.360Z",     "requestId": "7SA8S946HRTJ8RDA",     "extendedRequestId":     "D69Wlc6ZWayAYxjlBupka1FL0RKS/JumcM0bfbSTZGHPde+3NK/W3ZD2Y5uFbebaDFSjAIS5G     rs=",     "statusCode": 403,     "retryable": false,     "retryDelay": 24.740623825469132   } } </pre>                      |

# endpoints/secret

## /fm\_credentials

### **purpose:**

Stores or updates FileMaker user credentials. *For more information on how to generate user credentials, visit <https://aws.s3.fm/s3-bucket-setup>.*

### **prerequisites:**

Requires a paid subscription to s3.fm.

### **method:** POST

**URL:** `http://api.s3.fm/secret/fm_credentials`

### **Required Headers:**

|              |                                         |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

aside from the different URL, /secret/fm\_credentials is exactly the same as /trial/storecreds. see [/trial/storecreds](#) for more details.

# endpoints/secret

## /s3\_credentials

### purpose:

Stores or updates s3 user credentials. *For more information on how to generate user credentials, visit <https://aws.s3.fm/s3-bucket-setup>.*

### prerequisites:

Requires a paid subscription to s3.fm.

### method: POST

**URL:** `http://api.s3.fm/secret/s3_credentials`

### Required Headers:

|              |                                         |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

### required body parameters (JSON):

All required body parameters from `/trial/upload` are also required by `/write/upload`.

**Additional required body parameters:**

**s3\_user (string):** The IAM Access Key ID of a user of your personal bucket.

**s3\_pass (string):** The IAM Secret access key for a user of your personal bucket.

### Example Request Payload:

```
{
  "s3_user": "AKIAQWOZLNKSLVWBXECVJ",
  "s3_pass": "xWwJ5yePVFcif53oSEwcY068Jrzg9Yfhp5p9bWlp"
}
```

### Successful response:

|     |                                                         |
|-----|---------------------------------------------------------|
|     | <b><i>successfully added or updated credentials</i></b> |
| 200 | {<br>"message": "Credentials updated."<br>}             |

### Failed responses:

|     |                                                   |
|-----|---------------------------------------------------|
|     | <b><i>API key not valid</i></b>                   |
| 403 | {<br>"message": "Forbidden"<br>}                  |
|     | <b><i>missing parameters</i></b>                  |
| 400 | {<br>"message": "s3_user parameter missing."<br>} |
| 400 | {<br>"message": "s3_pass parameter missing."<br>} |

# endpoints/utility

## /testkey

### Purpose:

Tests if you have entered your s3.fm key correctly. Returns 200 on success, 403 on failure.

### prerequisites:

Requires a paid subscription to s3.fm.

### /utility endpoints have a default monthly usage cap.

The /utility cap is 1,000x your monthly /write usage cap.

To purchase additional cap space, contact us at [subscriptions@s3.fm](mailto:subscriptions@s3.fm).

method: **POST**

URL: `http://api.s3.fm/utility/testkey`

Required Headers:

| HEADER       | VALUE                                   |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

Required body (JSON): none

Successful responses:

|     |                                             |
|-----|---------------------------------------------|
|     | <b>API key valid</b>                        |
| 200 | <pre>{<br/>  "message": "trial"<br/>}</pre> |

Failed responses:

|     |                                                 |
|-----|-------------------------------------------------|
|     | <b>API key not valid</b>                        |
| 403 | <pre>{<br/>  "message": "Forbidden"<br/>}</pre> |

# endpoints/utility

## /presign

### purpose:

Generates a presigned URL for a file stored in your personal S3 bucket. The presigned URL allows read access to anyone with the URL without needing to make the file public. The URL can be set to expire up to 7 days after it is generated (60,480 seconds).

### prerequisites:

Requires a paid subscription to s3.fm.

Requires s3 credentials stored in the s3.fm vault.

### /utility endpoints have a default monthly usage cap.

The /utility cap is 1,000x your monthly /write usage cap.

To purchase additional cap space, contact us at [subscriptions@s3.fm](mailto:subscriptions@s3.fm).

### method: POST

URL: `http://api.s3.fm/utility/presign`

### Required Headers:

|              |                                         |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

### required body parameters (JSON):

- **s3.region (string):** The region of the S3 bucket.
- **s3.bucket (string):** The destination bucket for the file.
- **s3.key (string):** The path of the file.
- **expiry (number):** The number of seconds before the presigned URL expires. Can be up to 7 days.

### Example Request Payload:

*a request for a presigned URL that expires in 15 minutes*

```
{
  "s3": {
    "region": "us-east-1",
    "bucket": "s3-fm-super-sandbox",
    "key": "test.jpg"
  },
  "expiry": 900
}
```

a request for a presigned URL that expires in 7 days

```
{
  "s3": {
    "region": "us-east-1",
    "bucket": "s3-fm-super-sandbox",
    "key": "test.jpg"
  },
  "expiry": 60480
}
```

Successful response:

|     | <b>success</b>                                                                                                                                                                                                                                |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200 | <pre>{   "httpStatus": 200,   "message": "ok",   "URL":     "https://s3-fm-super-sandbox.s3.amazonaws.com/test.jpg?AWSAccessKeyId=AKIA     QWOZNKSLVWBXECVJ&amp;Expires=1628025877&amp;Signature=CxMrAs9rFoQV42YSzxKuMIhAfXU%     3D" }</pre> |

Failed responses:

|     | <b>API key not valid</b>                                                                                                                                                                                                                        |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 403 | <pre>{   "message": "Forbidden" }</pre>                                                                                                                                                                                                         |
|     | <b>expiry not specified - defaults to 900 seconds</b>                                                                                                                                                                                           |
| 200 | <pre>{   "httpStatus": 200,   "message": "ok",   "URL":     "https://s3-fm-super-sandbox.s3.amazonaws.com/test.jpg?AWSAccessKeyId=AKIA     QWOZNKSLVWBXECVJ&amp;Expires=1628026003&amp;Signature=6rXzBZklGcYL7rpUgJXc5i%2BDY3     M%3D" }</pre> |
|     | <b>missing parameters</b>                                                                                                                                                                                                                       |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "missing s3 parameter object",   "message": {     "s3a": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg"     },     "expiry": 900   } }</pre>          |
| 400 | <pre>{</pre>                                                                                                                                                                                                                                    |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre> "statusCode": 400, "errorType": "missing s3 region parameter.", "message": {   "s3": {     "region": "us-east-1",     "bucket": "s3-fm-super-sandbox",     "key": "test.jpg"   },   "expiry": 900 } </pre>                                                                                                                                                                                                                        |
| 400 | <pre> {   "statusCode": 400,   "errorType": "missing s3 bucket parameter",   "message": {     "s3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg"     },     "expiry": 900   } } </pre>                                                                                                                                                                                                 |
| 400 | <pre> {   "statusCode": 400,   "errorType": "missing s3 filename parameter.",   "message": {     "s3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg"     },     "expiry": 900   } } </pre>                                                                                                                                                                                              |
|     | <b><i>bucket missing or misspelled</i></b>                                                                                                                                                                                                                                                                                                                                                                                              |
| XML | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;Error&gt;   &lt;Code&gt;NoSuchBucket&lt;/Code&gt;   &lt;Message&gt;The specified bucket does not exist&lt;/Message&gt;   &lt;BucketName&gt;s3-fm-super-sandboxer&lt;/BucketName&gt;   &lt;RequestId&gt;8AG19CTV3R4Y07ZQ&lt;/RequestId&gt;    &lt;HostId&gt;tgmN70rZB2krwcGJSKtfbqMAv4dN4B9EO+adCgCVgR9ttrrumJK1R01irET+MKPKnxl   OATFAGWI8=&lt;/HostId&gt; &lt;/Error&gt; </pre> |
|     | <b><i>file missing or s3 credentials not entered</i></b>                                                                                                                                                                                                                                                                                                                                                                                |
| XML | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;Error&gt; </pre>                                                                                                                                                                                                                                                                                                                                                                 |

|                 |                                                                                                                                                                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <pre> &lt;Code&gt;AccessDenied&lt;/Code&gt; &lt;Message&gt;Access Denied&lt;/Message&gt; &lt;RequestId&gt;5D1PNQFAYJTH6H5A&lt;/RequestId&gt;  &lt;HostId&gt;5El57/PqzkZwAx8pKBdPtby0UPdMoe35xwDC5JLoaNpdt94EGqKJPDoapPko954TCF kW24NICxU=&lt;/HostId&gt; &lt;/Error&gt; </pre> |
|                 | <b><i>s3 region misspelled</i></b>                                                                                                                                                                                                                                             |
| getaddr<br>info | ENOTFOUND s3-fm-super-sandbox-s3.us.easte-1e.amazonaws.com                                                                                                                                                                                                                     |

# endpoints/utility

## /makepublic

### purpose:

Renders a previously uploaded file either public or private.

### prerequisites:

Requires a paid subscription to s3.fm.

Requires s3 credentials stored in the s3.fm vault.

### /utility endpoints have a default monthly usage cap.

The /utility cap is 1,000x your monthly /write usage cap.

To purchase additional cap space, contact us at [subscriptions@s3.fm](mailto:subscriptions@s3.fm).

### method: PATCH

**URL:** `http://api.s3.fm/utility/makepublic`

### Required Headers:

|              |                                         |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

### required body parameters (JSON):

- **s3.region (string):** The region of the S3 bucket.
- **s3.bucket (string):** The destination bucket for the file.
- **s3.key (string):** The path of the file.
- **makePublic (boolean):** Whether to make the file public or not.

### Example Request Payload:

*make a public file private*

```
{
  "s3": {
    "region": "us-east-1",
    "bucket": "s3-fm-super-sandbox",
    "key": "test.jpg"
  },
  "makePublic": false
}
```

*make a private file public*

```
{
```

```

    "s3": {
      "region": "us-east-1",
      "bucket": "s3-fm-super-sandbox",
      "key": "test.jpg"
    },
    "makePublic": true
  }
}

```

Successful response:

|     | <b><i>successfully changed to public or private</i></b>               |
|-----|-----------------------------------------------------------------------|
| 200 | <pre> {   "httpStatus": 200,   "message": "ok",   "data": {} } </pre> |

Failed responses:

|     | <b><i>API key not valid</i></b>                                                                                                                                                                                                               |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 403 | <pre> {   "message": "Forbidden" } </pre>                                                                                                                                                                                                     |
|     | <b><i>missing parameters</i></b>                                                                                                                                                                                                              |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "missing s3 parameter object",   "message": {     "s3s": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg"     },     "makePublic": true   } } </pre> |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "missing s3 region parameter",   "message": {     "s3": {       "Aregion": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg"     },     "makePublic": true   } } </pre> |
| 400 | <pre> { </pre>                                                                                                                                                                                                                                |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre> "statusCode": 400, "errorType": "missing s3 bucket parameter", "message": {   "s3": {     "region": "us-east-1",     "Abucket": "s3-fm-super-sandbox",     "key": "test.jpg"   },   "makePublic": true } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400 | <pre> {   "statusCode": 400,   "errorType": "missing s3 key (folder/filename) parameter",   "message": {     "s3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "Akey": "test.jpg"     },     "makePublic": true   } } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 400 | <pre> {   "s3": {     "region": "us-east-1",     "bucket": "s3-fm-super-sandbox",     "key": "test.jpg"   },   "makepublic": false } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | <b><i>region misspelled</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|     | <pre> {   "statusCode": 400,   "errorType": "putObjectAcl error.",   "message": {     "message": "Inaccessible host: `s3-fm-super-sandbox.s3.us-east-1e.amazonaws.com`. This service may not be available in the `us-east-1e` region.",     "code": "UnknownEndpoint",     "region": "us-east-1e",     "hostname": "s3-fm-super-sandbox.s3.us-east-1e.amazonaws.com",     "retryable": true,     "originalError": {       "message": "getaddrinfo ENOTFOUND s3-fm-super-sandbox.s3.us-east-1e.amazonaws.com",       "errno": -3008,       "code": "NetworkingError",       "syscall": "getaddrinfo",       "hostname": "s3-fm-super-sandbox.s3.us-east-1e.amazonaws.com",       "region": "us-east-1e",       "retryable": true,       "time": "2021-08-03T21:32:27.486Z"     },     "time": "2021-08-03T21:32:27.486Z"   } } </pre> |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <b><i>bucket missing or misspelled</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 500 | <pre> {   "httpStatus": 400,   "errorType": "putObjectAcl error.",   "message": {     "message": "The specified bucket does not exist",     "code": "NoSuchBucket",     "region": null,     "time": "2021-08-03T21:32:08.511Z",     "requestId": "SQ7Y2HGTXTS93XB",     "extendedRequestId": "EDdW+rV698gNFC17bBBcbou2Asv22k2DehPaRLQB9Wh0MHW7Q8wLX8qWwbAQZU/WgYQF3/5sF js=",     "statusCode": 404,     "retryable": false,     "retryDelay": 23.361614395477346   } } </pre> |
|     | <b><i>file missing</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     | <pre> {   "httpStatus": 400,   "errorType": "putObjectAcl error.",   "message": {     "message": "Access Denied",     "code": "AccessDenied",     "region": null,     "time": "2021-08-03T21:19:37.241Z",     "requestId": "JPCRVC1334YB2NSH",     "extendedRequestId": "LLLEGrS40V6lYcCiRgo37pDSXRK9T7HHWoUF3AfTAoiYPfePJy7enhSiaIBfmImd6JtBgvpwC/ Rk=",     "statusCode": 403,     "retryable": false,     "retryDelay": 69.66139291487896   } } </pre>                      |

# endpoints/utility

## /delete

### purpose:

Deletes a file.

### prerequisites:

Requires a paid subscription to s3.fm.

Requires s3 credentials stored in the s3.fm vault.

### /utility endpoints have a default monthly usage cap.

The /utility cap is 1,000x your monthly /write usage cap.

To purchase additional cap space, contact us at [subscriptions@s3.fm](mailto:subscriptions@s3.fm).

### method: DELETE

**URL:** `http://api.s3.fm/utility/delete`

### Required Headers:

|              |                                         |
|--------------|-----------------------------------------|
| X-API-KEY    | S3FM-XXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX |
| Content-Type | application/json                        |

### required body parameters (JSON):

- **s3.region (string):** The region of the S3 bucket.
- **s3.bucket (string):** The destination bucket for the file.
- **s3.key (string):** The path of the file.

### Example Request Payload:

*delete the file test.jpg*

```
{
  "s3": {
    "region": "us-east-1",
    "bucket": "s3-fm-super-sandbox",
    "key": "test.jpg"
  }
}
```

### Successful response:

|  |                          |
|--|--------------------------|
|  | <b>successful delete</b> |
|--|--------------------------|

|     |                                                                     |
|-----|---------------------------------------------------------------------|
| 200 | <pre>{   "httpStatus": 200,   "message": "ok",   "data": {} }</pre> |
|-----|---------------------------------------------------------------------|

### Failed responses:

|     |                                                                                                                                                                                                                                    |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <b><i>API key not valid</i></b>                                                                                                                                                                                                    |
| 403 | <pre>{   "message": "Forbidden" }</pre>                                                                                                                                                                                            |
|     | <b><i>missing parameters</i></b>                                                                                                                                                                                                   |
|     | <pre>{   "httpStatus": 400,   "errorType": "missing s3 parameter object",   "message": {     "s3e": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg"     }   } }</pre>                |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "missing s3 region parameter",   "message": {     "s3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "key": "test.jpg"     }   } }</pre>                 |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "missing s3 bucket parameter",   "message": {     "s3": {       "region": "us-east-1",       "buckete": "s3-fm-super-sandbox",       "key": "test.jpg"     }   } }</pre>                |
| 400 | <pre>{   "httpStatus": 400,   "errorType": "missing s3 key (folder/filename) parameter",   "message": {     "s3": {       "region": "us-east-1",       "bucket": "s3-fm-super-sandbox",       "keye": "test.jpg"     }   } }</pre> |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <pre>     }   } } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|     | <b>file not found</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200 | <pre> {   "httpStatus": 200,   "message": "ok",   "data": {} } </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | <b>bucket missing or misspelled</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "deleteObject error.",   "message": {     "message": "The specified bucket does not exist",     "code": "NoSuchBucket",     "region": null,     "time": "2021-08-03T21:34:59.004Z",     "requestId": "D9HFE1FJMB7QH4PV",     "extendedRequestId": "uvprW2G3uJRyec0GcuB6Myr+z+52AfPuDYmEV1Mwt55LfNGcpiP/kYMj00ej27x3er/4hzX1N Zk=",     "statusCode": 404,     "retryable": false,     "retryDelay": 38.0899987991675   } } </pre>                                                                                                                                                                                                                                                                                                                                                        |
|     | <b>region misspelled</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 400 | <pre> {   "httpStatus": 400,   "errorType": "deleteObject error.",   "message": {     "message": "Inaccessible host: `s3-fm-super-sandbox.s3.us-east-1a.amazonaws.com`. This service may not be available in the `us-east-1a` region.",     "code": "UnknownEndpoint",     "region": "us-east-1a",     "hostname": "s3-fm-super-sandbox.s3.us-east-1a.amazonaws.com",     "retryable": true,     "originalError": {       "message": "getaddrinfo ENOTFOUND s3-fm-super-sandbox.s3.us-east-1a.amazonaws.com",       "errno": -3008,       "code": "NetworkingError",       "syscall": "getaddrinfo",       "hostname": "s3-fm-super-sandbox.s3.us-east-1a.amazonaws.com",       "region": "us-east-1a",       "retryable": true,       "time": "2021-08-03T21:34:24.842Z"     },     "time": "2021-08-03T21:34:24.842Z"   } } </pre> |

