## Authentication

Login to Keystone in OpenStack Swift.

#### **URL** structure

http://cloudspaces.urv.cat:5000/v2.0/tokens

#### Method

**GET** 

#### Headers

• Content-Type: application/json

### Request Body

# Response Body

```
"adminURL": "https://cloudspaces.urv.cat:8080/
                              v1",
                              "region": "RegionOne",
                              "internalURL": "https://cloudspaces.urv.cat:80
                              80/v1/AUTH 0cd10527bafb4d778ba5a3a5bb419828",
                              "id":"61807a44e9e141e998b67814bb1103c7",
                              "publicURL": "https://cloudspaces.urv.cat:8080
                              /v1/AUTH 0cd10527bafb4d778ba5a3a5bb419828"
               ],
"endpoints_links":[
               "type": "object-store",
               "name":"swift"
               "endpoints":[
                              "adminURL": "http://cloudspaces.urv.cat:35357/
                              "region": "RegionOne",
                              "internalURL": "http://cloudspaces.urv.cat:500
                              "id": "1c77111ccbcc429a960d2bed06ea2942",
                              "publicURL": "http://cloudspaces.urv.cat:5000/
               "endpoints_links":[
               "type": "identity",
               "name": "keystone"
"user":{
       "username": "userX",
       "roles_links":[
       "id": "85f0e8e483cb43e1b6a97d3cc27a58cb",
       "roles":[
               {
                      "name":" member "
                      "name":"rusers"
       "name": "userX"
"metadata":{
       "is_admin":0,
       "roles":[
               "9fe2ff9ee4384b1894a90878d3e92bab",
               "a0eeaa6045c54d0d8e3dcf35c8aaf1ab"
}
```

#### Important values are:

- access.token.id: The access token that will be attached in every request to obtain access to API resources.
- access.serviceCatalog: It is a list that contains all services available. The one interesting for the API is Swift. Therefore, the only item on the list we need is the one that contains swift in the name parameter.
- access.serviceCatalog[X].endpoints[0].publicURL: The base URL where the API is located.

# Error handling

Errors are returned using standard HTTP error code syntax. Any additional info is included in the body of the return call, JSON-formatted. Error codes not listed here are in the REST API methods listed below.

#### Standard API errors

| Code | Description  |
|------|--|
| 400  | Bad input parameter. Error message should indicate which one and why.  |
| 401  | Authorization required. The presented credentials, if any, were not sufficient to access the folder resource. Returned if an application attempts to use an access token after it has expired. |
| 403  | Forbidden. The requester does not have permission to access the specified resource.  |
| 404  | File or folder not found at the specified path.  |
| 405  | Request method not expected (generally should be GET or POST).   |
| 5xx  | Server error   |

# **File**

## Create a file

An application can create a file by issuing an HTTP POST request. In addition, the application needs to provide as input, JSON that identifies the name and the folder that contains the file to be created. The location of the newly created file is returned in the Location response header.

Note that an application can create a file inside a folder or directly in the root omitting the parent field.

# Request

#### **URL** structure

The URL that represents the file data resource. The URL is https://domain.ext/stacksync/file.

#### Method

**POST** 

### **Request Headers**

The request header includes the following information:

| FIELD          | DESCRIPTION  |
|----------------|--|
| StackSync-API  | API version. The value must be v2.   |
| Content-Length | The length of the request body.  |
| Content-Type   | The content type and character encoding of the response. The content type must be application/xml, and the character encoding must be UTF-8. |

## **Request Body**

JSON input that contains a dictionary with the following keys:

| ELEMENT | DESCRIPTION                                      | REQUIRED |
|---------|--|----------|
| name    | The user-visible name of the file to be created. | Yes      |

| parent | ID of the folder where the file is going to be created. If no ID is passed, it will use the top-level folder. This parameter should <b>not</b> point to a file. | No |
|--------|---|----|
|--------|---|----|

## **HTTP Request Example**

```
POST <a href="https://domain.ext/stacksync/file">https://domain.ext/stacksync/file</a>
X-Auth-Token: 657AD54T651ZE68745
StackSync-API: true
Content-Length: 294
Content-Type: application/json

{
    "name": "Winter2012.jpg",
    "parent":12386548974
}
```

## Response

## **Response Header**

The response header includes the following information:

| FIELD          | DESCRIPTION  |
|----------------|--|
| Content-Length | The length of the retrieved content.                     |
| Content-Type   | The content type and character encoding of the response. |
| Location       | The location of the newly created file.                  |

## **Response Body**

| ELEMENT | DESCRIPTION                                      |
|---------|--|
| name    | The user-visible name of the file to be created. |
| path    | The absolute path to the file.                   |
| id      | A unique identifier for a file or folder.        |
| parent  | ID of the folder's parent.                       |

```
HTTP/1.1 201 Created
Content-Type: application/json; charset=UTF-8
Content-Length: 248
Location: https://domain.ext/stacksync/file/32565632156

{
    "name":"Client1.pdf",
    "path":"/documents/clients/Client1.pdf",
    "id":32565632156,
    "parent":-348534824681,
    "user":"Adrian"
}
```

# Upload file data

An application can upload data to a file by issuing an HTTP PUT request to the file data resource that represents the data for the file.

Uploading data to a file creates a new file version in the StackSync datastore and associates the uploaded data with the newly created file version.

This approach does not allow the application to resume the upload if the upload does not successfully complete, that is, if all the data is not completely uploaded.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/file, followed by the file ID and ends with /data, for example, https://domain.ext/stacksync/file/2148742318/data.

### Method

PUT

#### **Request Headers**

The request header includes the following information:

| FIELD          | DESCRIPTION   |
|----------------|---|
| StackSync-API  | API version. The value must be v2.  |
| Content-Length | The content length of the input in bytes. Chunked transfer encoding can be specified if the content length is not known at the time the request is initiated. |

### **HTTP Request Example**

PUT https://domain.ext/stacksync/file/2148742318/data

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true Content-Length: 1478

<File content.... >

# Response

## **Response Header**

The response header includes the following information:

| FIELD          | DESCRIPTION  |
|----------------|--|
| Content-Length | The length of the retrieved content (if any).            |
| Content-Type   | The content type and character encoding of the response. |

## Response example

HTTP/1.1 200 OK

Content-Type: application/json; charset=UTF-8

Content-Length: 248

## Download file data

To retrieve file data, an application submits an HTTP GET request to the file data resource that represents the data for the file.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/file, and ends with /data, for example, https://domain.ext/stacksync/file/2148742318/data.

#### Method

**GET** 

### **Request Headers**

The request header includes the following information:

| FIELD         | DESCRIPTION                        |
|---------------|------------------------------------|
| StackSync-API | API version. The value must be v2. |

### **HTTP Request Example**

GET https://domain.ext/stacksync/file/2148742318/data

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true

# Response

### **Response Header**

| FIELD          | DESCRIPTION                                   |
|----------------|---|
| Content-Length | The length of the retrieved content (if any). |

| Content-Type | The content type and character encoding of the response. |
|--------------|--|
|--------------|--|

The response body contains the retrieved file data.

## Response example

HTTP/1.1 200 OK

Content-Type: application/json; charset=UTF-8

Content-Length: 248

<File content.... >

# Delete a file

An application can delete a file by issuing an HTTP DELETE request to the URL of the file resource. It's a good idea to precede DELETE requests like this with a caution note in your application's user interface.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with

https://domain.ext/stacksync/file, for example, https://domain.ext/stacksync/file/2148742318.

#### Method

DELETE

### **Request Headers**

The request header includes the following information:

| FIELD         | DESCRIPTION                        |
|---------------|------------------------------------|
| StackSync-API | API version. The value must be v2. |

## **HTTP Request Example**

DELETE https://domain.ext/stacksync/file/2148742318

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true

## Response

### Response Header

| FIELD | DESCRIPTION |
|-------|-------------|
|-------|-------------|

| Content-Length | The length of the retrieved content.                     |
|----------------|--|
| Content-Type   | The content type and character encoding of the response. |

The response body contains the associated metadata of the deleted file:

| ELEMENT         | DESCRIPTION   |
|-----------------|---|
| name            | The user-visible name of the file.  |
| path            | The absolute path to the file.  |
| id              | A unique identifier for a file or folder.   |
| size            | The file size in bytes.   |
| mimetype        | The media type of the file. <a href="http://www.iana.org/assignments/media-types">http://www.iana.org/assignments/media-types</a>   |
| status          | Possible values are "NEW", "CHANGED", "DELETED". Indicating the status of the file in this specific version.  |
| version         | A unique identifier for the current version of a file. Can be used to detect changes and avoid conflicts.   |
| parent          | ID of the folder's parent.  |
| checksum        | The file's checksum.  |
| client_modified | This is the modification time set by the desktop client when the file was last modified, in the standard date format. Since this time is not verified (the server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example to determine if a file has changed or not. |
| server_modified | This is the modification time set by the server at the time of processing the file.   |

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: 248

{
    "name": "Client1.pdf",
```

```
"path":"/documents/clients/Client1.pdf",
"id":32565632156,
"size":775412,
"mimetype":"application/pdf",
"status":"DELETED",
"version":3,
"parent":-348534824681,
"user":"Adrian",
"client_modified":"2013-03-08 10:36:41.997",
"server_modified":"2013-03-08 10:36:41.997"
```

# Get file metadata

To retrieve information about a file, an application submits an HTTP GET request to the file resource that represents the file.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/file, and ends with the file ID, for example, https://domain.ext/stacksync/file/2148742318.

#### Method

**GET** 

### **Request Headers**

The request header includes the following information:

| FIELD         | DESCRIPTION                        |
|---------------|------------------------------------|
| StackSync-API | API version. The value must be v2. |

### **HTTP Request Example**

GET https://domain.ext/stacksync/file/2148742318

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true

## Response

### Response Header

| FIELD          | DESCRIPTION                          |
|----------------|--------------------------------------|
| Content-Length | The length of the retrieved content. |

| Content-Type The | he content type and character encoding of the response. |
|------------------|---|
|------------------|---|

The response body contains the associated metadata of the file in JSON:

| ELEMENT         | DESCRIPTION  |
|-----------------|--|
| name            | The user-visible name of the fil.  |
| path            | The absolute path to the file.   |
| id              | A unique identifier for a file or folder.  |
| size            | The file size in bytes.  |
| mimetype        | The media type of the file. <a href="http://www.iana.org/assignments/media-types">http://www.iana.org/assignments/media-types</a>  |
| status          | Possible values are "NEW", "CHANGED", "DELETED". Indicating the status of the file in this specific version.   |
| version         | A unique identifier for the current version of a file. Can be used to detect changes and avoid conflicts.  |
| parent          | ID of the folder's parent.   |
| checksum        | The file's checksum.   |
| client_modified | This is the modification time set by the desktop client when the file was last modified, in the standard date format. Since this time is not verified (the server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example, to determine if a file has changed or not. |
| server_modified | This is the modification time set by the server at the time of processing the file.  |

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: 248

{
    "name":"Client1.pdf",
    "path":"/documents/clients/Client1.pdf",
    "id":32565632156,
```

```
"size":775412,
"mimetype":"application/pdf",
"status":"DELETED",
"version":3,
"parent":-348534824681,
"user":"Adrian",
"client_modified":"2013-03-08 10:36:41.997",
"server_modified":"2013-03-08 10:36:41.997"
```

# Update file metadata (move and rename)

An application can update various attributes of a file by issuing an HTTP PUT request to the URL that represents the file resource. In addition, the app needs to provide as input, JSON that identifies the new attribute values for the file. Upon receiving the PUT request, the StackSync service examines the input and updates any of the attributes that have been modified.

Here are the file attributes that can be updated:

- name
- parent

No other file attributes can be modified using a PUT request.

**Note:** An application can move a file to a different parent folder by changing the value of the parent element.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/file, and ends with the file ID, for example, https://domain.ext/stacksync/file/2148742318.

#### Method

PUT

### **Request Headers**

| FIELD          | DESCRIPTION  |
|----------------|--|
| StackSync-API  | API version. The value must be v2.   |
| Content-Length | The length of the request body.  |
| Content-Type   | The content type and character encoding of the response. The content type must be application/xml, and the character encoding must be UTF-8. |

## **Request Body**

JSON input that contains a dictionary with the following keys:

| ELEMENT | DESCRIPTION  | REQUIRED |
|---------|--|----------|
| name    | The user-visible name of the file to be created.   | No       |
| parent  | ID of the folder where the file or folder is going to be uploaded. If no ID is passed, it will use the top-level folder. This parameter should <b>not</b> point to a file. | No       |

## **HTTP Request Example**

```
POST <a href="https://domain.ext/stacksync/file/32565632156">https://domain.ext/stacksync/file/32565632156</a>
X-Auth-Token: 657AD54T651ZE68745
StackSync-API: true
Content-Length: 294
Content-Type: application/json

{
    "name": "Winter2012_renamed.jpg",
    "parent":12386548974
}
```

## Response

## **Response Header**

The response header includes the following information:

| FIELD          | DESCRIPTION  |
|----------------|--|
| Content-Length | The length of the retrieved content.                     |
| Content-Type   | The content type and character encoding of the response. |
| Location       | The location of the newly created file.                  |

## **Response Body**

| ELEMENT         | DESCRIPTION  |
|-----------------|--|
| name            | The user-visible name of the file to be created.   |
| path            | The absolute path to the file.   |
| id              | A unique identifier for a file or folder.  |
| size            | The file size in bytes.  |
| mimetype        | The media type of the file. <a href="http://www.iana.org/assignments/media-types">http://www.iana.org/assignments/media-types</a>  |
| status          | Possible values are "NEW", "CHANGED", "DELETED". Indicating the status of the file in this specific version.   |
| version         | A unique identifier for the current version of a file. Can be use to detect changes and avoid conflicts.   |
| parent          | ID of the folder's parent.   |
| checksum        | The file's checksum.   |
| client_modified | This is the modification time set by the desktop client when the file was last modified, in the standard date format. Since this time is not verified (the server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example, to determine if a file has changed or not. |
| server_modifie  | This is the modification time set by the server at the time of processing the file.  |

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: 248
Location: https://domain.ext/stacksync/file/

{
    "name":"Winter2012_renamed.jpg",
    "path":"/documents/clients/Client1.pdf",
    "id":32565632156,
    "size":775412,
    "mimetype":"application/pdf",
```

```
"status":"CHANGED",

"version":2,

"parent":12386548974,

"user":"Adrian",

"client_modified":"2013-03-08 10:36:41.997",

"server_modified":"2013-03-08 10:36:41.997"
}
```

# **Versions**

## Get file versions

To retrieve information about a file version, an application submits an HTTP GET request to the file version resource.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/file, and ends with /version, for example, https://domain.ext/stacksync/file/2148742318/version.

#### Method

**GET** 

### **Request Headers**

The request header includes the following information:

| FIELD         | DESCRIPTION                        |
|---------------|------------------------------------|
| StackSync-API | API version. The value must be v2. |

### **HTTP Request Example**

GET <a href="https://domain.ext/stacksync/file/2148742318/version">https://domain.ext/stacksync/file/2148742318/version</a>

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true

## Response

### Response Header

| FIELD | DESCRIPTION |
|-------|-------------|
|-------|-------------|

| Content-Length | The length of the retrieved content.                     |
|----------------|--|
| Content-Type   | The content type and character encoding of the response. |

Contains a JSON list with a dictionary in each position with the following information:

| ELEMENT         | DESCRIPTION  |  |  |
|-----------------|--|--|--|
| name            | The user-visible name of the file to be created.   |  |  |
| path            | The absolute path to the file.   |  |  |
| id              | A unique identifier for a file or folder.  |  |  |
| size            | The file size in bytes.  |  |  |
| mimetype        | The media type of the file. <a href="http://www.iana.org/assignments/media-type">http://www.iana.org/assignments/media-type</a>  |  |  |
| status          | Possible values are "NEW", "CHANGED", "RENAMED", "DELETED". Indicating the status of the file in this specific version.  |  |  |
| version         | A unique identifier for the current version of a file. Can be used to detect changes and avoid conflicts.  |  |  |
| parent          | ID of the folder's parent.   |  |  |
| checksum        | The file's checksum.   |  |  |
| client_modified | This is the modification time set by the desktop client when the file was last modified, in the standard date format. Since this time is not verified (the server stores whatever the desktop client sends up), this should be used for display purposes (such as sorting) and not, for example, determine if a file has changed or not. |  |  |
| server_modified | This is the modification time set by the server at the time of processing the file.  |  |  |

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: 248
```

```
"name": "Winter2012.jpg",
    "path": "/documents/clients/Winter2012.jpg",
    "id":32565632156,
    "size":775412,
    "mimetype": "image/jpg",
    "status": "NEW",
    "version":1,
    "parent":12386548974,
    "user": "Adrian",
    "client modified": "2013-03-08 10:36:41.997",
    "server modified":"2013-03-08 10:36:41.997"
  },
    "name": "Winter2012.jpg",
    "path": "/documents/clients/Winter2012.jpg",
    "id":32565632156,
    "size":7482,
    "mimetype": "image/jpg",
    "status": "CHANGED",
    "version":2,
    "parent":12386548974,
    "user": "Cristian",
    "client modified": "2013-03-08 10:36:41.997",
    "server modified":"2013-03-08 10:36:41.997"
  },
    "name": "Winter2015.jpg",
    "path": "/documents/clients/Winter2015.jpg",
    "id":32565632156,
    "size":775412,
    "mimetype": "image/jpg",
    "status": "RENAMED",
    "version":3,
    "parent":12386548974,
    "user": "Adrian",
    "client modified": "2013-03-08 10:36:41.997",
    "server modified":"2013-03-08 10:36:41.997"
  }
]
```

# Get file version metadata

To retrieve information about a file version, an application submits an HTTP GET request to the file version resource.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/file, and ends with /version/version-number, for example, https://domain.ext/stacksync/file/2148742318/version/2.

#### Method

**GET** 

### **Request Headers**

The request header includes the following information:

| FIELD         | DESCRIPTION                        |
|---------------|------------------------------------|
| StackSync-API | API version. The value must be v2. |

### **HTTP Request Example**

GET https://domain.ext/stacksync/file/2148742318/version/2

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true

## Response

## Response Header

| FIELD          | DESCRIPTION                          |
|----------------|--------------------------------------|
| Content-Length | The length of the retrieved content. |

| Content-Type | The content type and character encoding of the response. |
|--------------|--|
|--------------|--|

The response body contains the associated metadata of the file in JSON:

| ELEMENT         | DESCRIPTION  |  |
|-----------------|--|--|
| name            | The user-visible name of the fil.  |  |
| path            | The absolute path to the file.   |  |
| id              | A unique identifier for a file or folder.  |  |
| size            | The file size in bytes.  |  |
| mimetype        | The media type of the file. <a href="http://www.iana.org/assignments/media-types">http://www.iana.org/assignments/media-types</a>  |  |
| status          | Possible values are "NEW", "CHANGED", "DELETED". Indicating the status of the file in this specific version.   |  |
| version         | A unique identifier for the current version of a file. Can be used to detect changes and avoid conflicts.  |  |
| parent          | ID of the folder's parent.   |  |
| checksum        | The file's checksum.   |  |
| client_modified | This is the modification time set by the desktop client when the file was last modified, in the standard date format. Since this time is not verified (the server stores whatever the desktop client sends up), this should be used for display purposes (such as sorting) and not, for example, the determine if a file has changed or not. |  |
| server_modified | This is the modification time set by the server at the time of processing the file.  |  |

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: 248

{
    "name":"Winter2012.jpg",
    "path":"/documents/clients/Winter2012.jpg",
    "id":32565632156,
```

```
"size":7482,
"mimetype":"image/jpg",
"status":"CHANGED",
"version":2,
"parent":12386548974,
"user":"Cristian",
"client_modified":"2013-03-08 10:36:41.997",
"server_modified":"2013-03-08 10:36:41.997"
```

# Get file version data

To retrieve data about a file version, an application submits an HTTP GET request to the file version resource.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/file, and ends with /version/version-number/data, for example, https://domain.ext/stacksync/file/2148742318/version/2/data.

#### Method

**GET** 

### **Request Headers**

The request header includes the following information:

| FIELD         | DESCRIPTION                        |
|---------------|------------------------------------|
| StackSync-API | API version. The value must be v2. |

### **HTTP Request Example**

GET https://domain.ext/stacksync/file/2148742318/version/2/data

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true

## Response

### Response Header

| FIELD          | DESCRIPTION                                   |
|----------------|---|
| Content-Length | The length of the retrieved content (if any). |

| Content-Type | The content type and character encoding of the response. |
|--------------|--|
|--------------|--|

The response body contains the retrieved file data.

## Response example

HTTP/1.1 200 OK

Content-Type: application/json; charset=UTF-8

Content-Length: 248

<File content.... >

# **Folder**

# Create a folder

An application can create a folder by issuing an HTTP POST request to the URL of the containing folder resource. In addition, the application needs to provide as input, JSON that identifies the display name of the folder to be created.

## Request

#### **URL** structure

The URL that represents the folder resource. The URL begins with https://domain.ext/stacksync/folder, for example,

https://domain.ext/stacksync/folder/8376125.

#### Method

**POST** 

### **Request Headers**

The request header includes the following information:

| FIELD          | DESCRIPTION  |  |  |
|----------------|--|--|--|
| StackSync-API  | API version. The value must be v2.   |  |  |
| Content-Length | The length of the request body.  |  |  |
| Content-Type   | The content type and character encoding of the response. The content type must be application/xml, and the character encoding must be UTF-8. |  |  |

## **Request Body**

JSON input that contains a dictionary with the following keys:

| ELEMENT | DESCRIPTION   | REQUIRED |
|---------|---|----------|
| name    | The user-visible name of the folder to be created.            | Yes      |
| parent  | ID of the folder where the folder is going to be uploaded. If | No       |

| parameter should <b>not</b> point to a file. |
|--|
|--|

# **HTTP Request Example**

```
POST https://domain.ext/stacksync/folder
X-Auth-Token: 657AD54T651ZE68745
StackSync-API: true
Content-Length: 294
Content-Type: application/json

{
    "name": "clients",
    "parent":681465736
}
```

## Response

## **Response Header**

The response header includes the following information:

| FIELD          | DESCRIPTION  |  |  |
|----------------|--|--|--|
| Content-Length | The length of the retrieved content.                     |  |  |
| Content-Type   | The content type and character encoding of the response. |  |  |
| Location       | The location of the newly created file.                  |  |  |

## **Response Body**

| ELEMENT | DESCRIPTION                                      |  |  |
|---------|--|--|--|
| name    | The user-visible name of the file to be created. |  |  |
| path    | he absolute path to the file.                    |  |  |
| id      | A unique identifier for a file or folder.        |  |  |
| parent  | ID of the folder's parent.                       |  |  |

```
HTTP/1.1 201 Created
Content-Type: application/json; charset=UTF-8
Content-Length: 248
Location: https://domain.ext/stacksync/folder/9873615

{
    "name":"clients",
    "path":"/documents/clients",
    "id":9873615,
    "parent":-348534824681,
    "user":"Adrian"
}
```

# Delete a folder

An application can permanently delete a folder by issuing an HTTP DELETE request to the URL of the folder resource. It's a good idea to precede DELETE requests like this with a caution note in your application's user interface.

Caution: Deleting a folder means delete all its content.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with

https://domain.ext/stacksync/folder, for example, https://domain.ext/stacksync/folder/2148742318.

#### Method

DELETE

### **Request Headers**

The request header includes the following information:

| FIELD         | DESCRIPTION                        |  |
|---------------|------------------------------------|--|
| StackSync-API | API version. The value must be v2. |  |

### **HTTP Request Example**

DELETE https://domain.ext/stacksync/folder/2148742318

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true

## Response

### Response Header

| FIELD          | DESCRIPTION  |  |  |
|----------------|--|--|--|
| Content-Length | The length of the retrieved content (if any).              |  |  |
| Content-Type   | e The content type and character encoding of the response. |  |  |

The response body contains the associated metadata of the deleted file:

| ELEMENT         | DESCRIPTION  |  |  |
|-----------------|--|--|--|
| name            | The user-visible name of the file.   |  |  |
| path            | The absolute path to the file.   |  |  |
| id              | A unique identifier for a file or folder.  |  |  |
| status          | Possible values are "NEW", "CHANGED", "DELETED". Indicating the tatus of the file in this specific version.  |  |  |
| version         | A unique identifier for the current version of a file. Can be used to detechanges and avoid conflicts.   |  |  |
| parent          | ID of the folder's parent.   |  |  |
| client_modified | This is the modification time set by the desktop client when the file was last modified, in the standard date format. Since this time is not verifice (the server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for exam to determine if a file has changed or not. |  |  |
| server_modified | This is the modification time set by the server at the time of processing the file.  |  |  |

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: 248

{
    "name":"clients",
    "path":"/documents/clients",
    "id":9873615,
    "status":"DELETED",
    "version":3,
```

```
"parent":-348534824681,
"user":"Adrian",
"client_modified":"2013-03-08 10:36:41.997",
"server_modified":"2013-03-08 10:36:41.997"
}
```

# Get folder metadata

To retrieve information about a folder, an application submits an HTTP GET request to the folder resource that represents the folder.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/folder, for example, https://domain.ext/stacksync/folder/2148742318.

#### Method

**GET** 

### **Request Headers**

The request header includes the following information:

| FIELD         | DESCRIPTION                        |  |
|---------------|------------------------------------|--|
| StackSync-API | API version. The value must be v2. |  |

### **HTTP Request Example**

GET https://domain.ext/stacksync/folder/2148742318

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true

## Response

## Response Header

| FIELD          | DESCRIPTION                          |  |
|----------------|--------------------------------------|--|
| Content-Length | The length of the retrieved content. |  |

| Content-Type | The content type and character encoding of the response. |
|--------------|--|
|--------------|--|

The response body contains the associated metadata of the file in JSON:

| ELEMENT         | DESCRIPTION  |  |  |
|-----------------|--|--|--|
| name            | The user-visible name of the fil.  |  |  |
| path            | The absolute path to the file.   |  |  |
| id              | A unique identifier for a file or folder.  |  |  |
| status          | Possible values are "NEW", "CHANGED", "RENAMED", "DELETED". ndicating the status of the file in this specific version.   |  |  |
| version         | A unique identifier for the current version of a file. Can be used to detect changes and avoid conflicts.  |  |  |
| parent          | ID of the folder's parent.   |  |  |
| client_modified | This is the modification time set by the desktop client when the file w last modified, in the standard date format. Since this time is not verifi (the server stores whatever the desktop client sends up), this should be used for display purposes (such as sorting) and not, for example, determine if a file has changed or not. |  |  |
| server_modified | This is the modification time set by the server at the time of processing the file.  |  |  |

```
HTTP/1.1 200 OK

Content-Type: application/json; charset=UTF-8

Content-Length: 248

{
    "name":"clients",
    "path":"/documents/clients",
    "id":9873615,
    "status":"NEW",
    "version":1,
    "parent":-348534824681,
    "user":"Adrian",
    "client_modified":"2013-03-08 10:36:41.997",
    "server_modified":"2013-03-08 10:36:41.997"
```

# Get folder content metadata

To retrieve information about a folder, an application submits an HTTP GET request to the folder resource that represents the folder.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/folder, followed by /contents, for example, https://domain.ext/stacksync/folder/2148742318/contents.

#### **Parameters**

The URL can be specified with the following optional query parameters:

| ARGUMENT        | VALUE         | DESCRIPTION   |
|-----------------|---------------|---|
| include_deleted | true or false | False is the default. If this parameter is set to <i>true</i> , then response will include metadata of deleted objects. |

#### Method

**GET** 

### **Request Headers**

The request header includes the following information:

| FIELD         | DESCRIPTION                        |  |
|---------------|------------------------------------|--|
| StackSync-API | API version. The value must be v2. |  |

### **HTTP Request Example**

GET https://domain.ext/stacksync/folder/2148742318/contents

X-Auth-Token: 657AD54T651ZE68745

StackSync-API: true

# Response

## **Response Header**

The response header includes the following information:

| FIELD          | DESCRIPTION  |
|----------------|--|
| Content-Length | The length of the retrieved content.                     |
| Content-Type   | The content type and character encoding of the response. |

## **Response Body**

The response body contains a JSON dictionary with the following keys:

| ELEMENT | DESCRIPTION                  |
|---------|------------------------------|
| folders | A list with all the folders. |
| files   | A list with all the files.   |

Each folder metadata is composed by:

| ELEMENT         | DESCRIPTION   |
|-----------------|---|
| name            | The user-visible name of the fil.   |
| path            | The absolute path to the file.  |
| id              | A unique identifier for a file or folder.   |
| status          | Possible values are "NEW", "CHANGED", "RENAMED", "DELETED". Indicating the status of the file in this specific version.   |
| version         | A unique identifier for the current version of a file. Can be used to detect changes and avoid conflicts.   |
| parent          | ID of the folder's parent.  |
| client_modified | This is the modification time set by the desktop client when the file was last modified, in the standard date format. Since this time is not verified (the server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example to determine if a file has changed or not. |

| server_modified | This is the modification time set by the server at the time of processing the file. |
|-----------------|---|
|-----------------|---|

# Each file metadata is composed by:

| ELEMENT         | DESCRIPTION  |
|-----------------|--|
| name            | The user-visible name of the file to be created.   |
| path            | The absolute path to the file.   |
| id              | A unique identifier for a file or folder.  |
| size            | The file size in bytes.  |
| mimetype        | The media type of the file. <a href="http://www.iana.org/assignments/media-type:">http://www.iana.org/assignments/media-type:</a>  |
| status          | Possible values are "NEW", "CHANGED", "DELETED". Indicating the status of the file in this specific version.   |
| version         | A unique identifier for the current version of a file. Can be used to detec changes and avoid conflicts.   |
| parent          | ID of the folder's parent.   |
| checksum        | The file's checksum.   |
| client_modified | This is the modification time set by the desktop client when the file was last modified, in the standard date format. Since this time is not verified (the server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example, to determine if a file has changed or not. |
| server_modified | This is the modification time set by the server at the time of processing the file.  |

# Response example

????????????????

# Update folder metadata (move and rename)

n application can update various attributes of a folder by issuing an HTTP PUT request to the URL that represents the folder resource. In addition, the app needs to provide as input, JSON that identifies the new attribute values for the folder. Upon receiving the PUT request, the StackSync service examines the input and updates any of the attributes that have been modified.

Here are the file attributes that can be updated:

- name
- parent

No other file attributes can be modified using a PUT request.

**Note:** An application can move a file to a different parent folder by changing the value of the parent element.

## Request

#### **URL** structure

The URL that represents the file data resource. The URL begins with https://domain.ext/stacksync/folder, and ends with the file ID, for example, https://domain.ext/stacksync/folder/2148742318.

#### Method

PUT

### **Request Headers**

| FIELD          | DESCRIPTION  |
|----------------|--|
| StackSync-API  | API version. The value must be v2.   |
| Content-Length | The length of the request body.  |
| Content-Type   | The content type and character encoding of the response. The content type must be application/xml, and the character encoding must be UTF-8. |

## **Request Body**

JSON input that contains a dictionary with the following keys:

| ELEMENT | DESCRIPTION  | REQUIRED |
|---------|--|----------|
| name    | The user-visible name of the folder.   | No       |
| parent  | ID of the folder where the folder is going to be moved. If parent is None ?¿?¿?¿? the folder will be moved to the root folder. | No       |

## **HTTP Request Example**

```
POST <a href="https://domain.ext/stacksync/folder/2148742318">https://domain.ext/stacksync/folder/2148742318</a>
X-Auth-Token: 657AD54T651ZE68745
StackSync-API: true
Content-Length: 294
Content-Type: application/json

{
    "name": "clients_2",
    "parent":12386548974
}
```

## Response

## **Response Header**

The response header includes the following information:

| FIELD          | DESCRIPTION  |
|----------------|--|
| Content-Length | The length of the retrieved content.                     |
| Content-Type   | The content type and character encoding of the response. |
| Location       | The location of the newly created file.                  |

## **Response Body**

| ELEMENT         | DESCRIPTION  |
|-----------------|--|
| name            | The user-visible name of the file to be created.   |
| path            | The absolute path to the file.   |
| id              | A unique identifier for a file or folder.  |
| status          | Possible values are "NEW", "CHANGED", "DELETED". Indicating the status of the file in this specific version.   |
| version         | A unique identifier for the current version of a file. Can be used to detect changes and avoid conflicts.  |
| parent          | ID of the folder's parent.   |
| client_modified | This is the modification time set by the desktop client when the file was last modified, in the standard date format. Since this time is not verified (the server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example, to determine if a file has changed or not. |
| server_modifie  | This is the modification time set by the server at the time of processing the file.  |

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: 248
Location: https://domain.ext/stacksync/file/

{
    "name":"Winter2012_renamed.jpg",
    "path":"/documents/clients/Client1.pdf",
    "id":32565632156,
    "status":"CHANGED",
    "version":2,
    "parent":12386548974,
    "user":"Adrian",
    "client_modified":"2013-03-08 10:36:41.997",
    "server_modified":"2013-03-08 10:36:41.997"
}
```