## Cloud Sync APIs

Cloud Manager

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This PDF was generated from https://docs.netapp.com/us-en/occm/api\_sync.html on November 10, 2020. Always check docs.netapp.com for the latest.



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## **Cloud Sync APIs**

The Cloud Sync capabilities that are available through the web UI are also available through RESTful APIs.

## **Getting started**

To get started with the Cloud Sync APIs, you need to obtain a user token and your Cloud Central account ID. You'll need to add the token and account ID to the Authorization header when making API calls.

Steps

1. Obtain a user token from NetApp Cloud Central.

2. Obtain your Cloud Central account ID.

```
GET https://cloudsync.netapp.com/api/accounts
Headers: Authorization: Bearer <user_token>
Content-Type: application/json
```

This API will return a response like the following:

3. Add the user token and account ID in the Authorization header of each API call.

### Example

The following example shows an API call to create a data broker in Microsoft Azure. You would simply replace <user\_token> and <accountId> with the token and ID that you obtained in the previous steps.

```
POST https://cloudsync.netapp.com/api/data-brokers
Headers: Authorization: Bearer <user_token>
Content-Type: application/json
x-account-id: <accountId>
Body: { "name": "databroker1", "type": "AZURE" }
```

## What should I do when the token expires?

The user token from NetApp Cloud Central has an expiration date. To refresh the token, you need to call the API from step 1 again.

The API response includes an "expires\_in" field that states when the token expires.

## **API reference**

Documentation for each Cloud Sync API is available from NetApp Cloud Central.

## **Using list APIs**

List APIs are asynchronous APIs, so the result does not return immediately (for example: GET /data-brokers/{id}/list-nfs-export-folders and GET /data-brokers/{id}/list-s3-buckets). The only response from the server is HTTP status 202. To get the actual result, you must use the GET /messages/client API.

#### Steps

- 1. Call the list API that you want to use.
- 2. Use the GET /messages/client API to view the result of the operation.
- 3. Use the same API by appending it with the ID that you just received: GET http://cloudsync.netapp.com/api/messages/client?last=<id\_from\_step\_2>

Note that the ID changes each time that you call the GET /messages/client API.

#### **Example**

When you call the list-s3-buckets API, a result is not immediately returned:

```
GET http://cloudsync.netapp.com/api/data-brokers/<data-broker-id>/list-s3-buckets
Headers: Authorization: Bearer <user_token>
Content-Type: application/json
x-account-id: <accountId>
```

The result is HTTP status code 202, which means the message was accepted, but was not processed yet.

To get the result of the operation, you need to use the following API:

```
GET http://cloudsync.netapp.com/api/messages/client
Headers: Authorization: Bearer <user_token>
Content-Type: application/json
x-account-id: <accountId>
```

The result is an array with one object that includes an ID field. The ID field represents the last message that the server sent. For example:

You would now make the following API call using the ID that you just received:

```
GET http://cloudsync.netapp.com/api/messages/client?last=<id_from_step_2>
Headers: Authorization: Bearer <user_token>
Content-Type: application/json
x-account-id: <accountId>
```

The result is an array of messages. Inside each message is a payload object, which consists of the name of the operation (as key) and its result (as value). For example:

```
[
   {
        "payload": {
            "list-s3-buckets": [
               {
                    "tags": [
                        {
                            "Value": "100$",
                            "Key": "price"
                        }
                    ],
                    "region": {
                        "displayName": "US West (Oregon)",
                        "name": "us-west-2"
                    },
                    "name": "small"
                }
           ]
        },
        "header": {
            "requestId": "f687ac55-2f0c-40e3-9fa6-57fb8c4094a3",
            "clientId": "5beb032f548e6e35f4ed1ba9",
            "agentId": "5bed61f4489fb04e34a9aac6"
        "id": "5802"
   }
]
```

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