

# Access API

Access API provides access to the records of a storage unit. Records can be fetched by key. Records can contain one or more **scopes**, the access API allows to fetch a single scope for the record(s) requested. If the special **\$record** scope is used or no scope is provided, all scopes are returned.

On this page:

- [Fetch](#)
- [Fetch Multiple](#)
- [Fetch Page](#)
- [Get File](#)
- [Get File Metadata](#)

## Fetch

Fetches a single record by key from the storage unit. If the special **\$record** scope is used or no scope is provided, all scopes are returned. If the zone for the key is not specified as a prefix for the key, the local zone is used.

### Request

The fetch GET/POST request requires the name of the storage unit and the key to fetch. Optionally the scope can be provided.

```
GET access/fetch/<storage-unit-name>/<record-key>/<optional:scope>
```

### Response

If the key exists, returns a 200 response code and the content record with the specified scope for the key.

```
{
  "key": "<record-key>",
  "content": {
    "<scope>": {...}
  }
}
```

If the key doesn't exist, a 400 response code and a KEY\_NOT\_FOUND message is returned.

```
{ "message": "KEY_NOT_FOUND" }
```

## Fetch Multiple

Fetches one or more records by keys from the storage unit by the records keys. If the special **\$record** scope is used or no scope is provided, all scopes are returned. If the zone for the key is not specified as a prefix for the key, the local zone is used.

### Request

The fetch multiple request requires the name of the storage unit and optionally the scope can be provided.

In the GET request, the keys are passed in the **keys** parameter as a comma separated list of values.

```
GET access/fetchMultiple/<storage-unit-name>/<optional:scope>?keys=APP_ZONE:667E2D4E4344AE4813AD719B88D14EC6,
APP_ZONE:E0F57D337D5021236E353C7AB305F147
```

In the POST request, the keys are passed in the JSON body **keys** field as an array of values.

```
POST access/fetchMultiple/<storage-unit-name>/<optional:scope>
{
  "keys": [
    "APP_ZONE:667E2D4E4344AE4813AD719B88D14EC6",
    "APP_ZONE:E0F57D337D5021236E353C7AB305F147"
  ]
}
```

## Response

Returns a 200 response code and an array of records with the specified scope for each key that matched the fetch query, or an empty array if non matched.

```
[
  {
    "key": "APP_ZONE:667E2D4E4344AE4813AD719B88D14EC6",
    "content": {
      "<scope>": {...}
    }
  },
  {
    "key": "APP_ZONE:E0F57D337D5021236E353C7AB305F147",
    "content": {
      "<scope>": {...}
    }
  }
]
```

## Fetch Page

Fetches a batch of records of a specific zone from a storage unit sorted by record key.

## Request

The fetch page GET/POST request requires the storage unit name and optionally the scope. Parameters **startId** (Optional: mongo record id. If not specified, the first page of data will be returned. Use the last id of the returned page as the startId for the next page request), **size** (10 by default) and **zone** (local zone by default).

```
POST access/fetchPage/<storage-unit-name>/<optional:scope>?startId=123456&size=20
```

## Response

Fetch page returns a 200 response code and a response body with a **records** array with **batchSize** number of records from **zone** of the storage unit starting at element **startId**. To check if more items are available send a new fetchPage request with the last **\_id** of the page's list as the new **startId**, if the result is an empty array, you have reached the end of the storage unit.

```
[
  {
    "key": "APP_ZONE:1234567",
    "version": 3,
    "content": {
      "<scope>": {
        "doc": {
          "test": "value 3"
        }
      }
    },
    "_id": "58793d3e7536e718b41fcf62"
  },
  {
    "key": "APP_ZONE:1234568",
    "version": 3,
    "content": {
      "<scope>": {
        "doc": {
          "test": "value 2"
        }
      }
    },
    "_id": "58793d3f7536e718b41fcf65"
  },
  {
    "key": "APP_ZONE:1234569",
    "version": 4,
    "content": {
      "<scope>": {
        "doc": {
          "test": "value 3"
        }
      }
    },
    "_id": "58793d3f7536e718b41fcf67"
  }
]
```

## Fetch all records by zone

Fetch Page can be used to fetch all records from a storage unit.

1. Call fetch page without a **startId**. This will return the first batch of records of **size** from the storage unit sorted by **\_id**.
2. Make subsequent calls with the last **\_id** of the array as the **startId**.
3. Finish when page response returns an empty array.

## Get File

Downloads a file attached to a file scope of a record key in a storage unit.

### Request

The get file GET request requires the storage unit name, the record key, the file scope and the file name to download (See [putFile](#) for upload info).

```
GET access/getFile/<storage-unit>/<record-key>/<scope>/<file-name>
```

### Response

File is downloaded as a stream of bytes.

If the file doesn't exist, a 400 response code is returned and a FILE\_NOT\_FOUND message.

# Get File Metadata

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Returns the metadata associated with the requested file.

## Request

The get file metadata GET request requires the storage unit name, the record key, the file scope and the file name (See [putFile](#) for upload info).

```
GET access/getFileMetadata/<storage-unit>/<record-key>/<scope>/<file-name>
```

## Response

Returns a 200 response code and a JSON body with the file metadata.

```
{
  "title": "Logo",
  "description": "logo-small"
}
```

If the file doesn't exist, a 400 response code is returned and a FILE\_NOT\_FOUND message.