



# **CloudConnect 2.5.x**

## **API**

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### **User Guide**

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# 1. Introduction

## 1.1 Document Scope

This document contains the explanations and procedures you require to efficiently use a CloudConnect system through the API.

## 1.2 Related Documentation

Refer to the following documents for additional information:

- *CloudConnect CLI Installation and User Guide*
- *CloudConnect Management Console Installation and User Guide*

## 1.3 Customer Support

You can contact Elastifile customer support at [support@elastifile.com](mailto:support@elastifile.com).

## 2. Overview

### 2.1 Introduction to CloudConnect

CloudConnect efficiently replicates file system snapshots to cloud object stores and restores file system snapshots to local file systems. CloudConnect works with cloud object stores, including Amazon S3 and Google Cloud Storage (GCS).

The following image shows the high-level relationship between a file system, CloudConnect, and a cloud object store.



Cloud object storage services allow users to create buckets in which objects are stored. CloudConnect stores file systems snapshots in buckets formatted using the CloudConnect File System (CCFS). These formatted buckets are called "CCStores."

A snapshot of a file system is copied to a CCStore using a version create operation. Each version create operation creates a new version in the CCStore. A CCStore can contain multiple versions. Versions can be either replicated contents of the same file system at different points in time, or contents of many different file systems.

The contents of a version can be restored from the cloud to a file system using a version checkout operation.

Operations such as creating or checking out versions involve the transfer of large amounts of data. Such operations take time, so CloudConnect enables you to track and manage these operations while they are being performed.



## 3. Sessions

### 3.1 Login

#### 3.1.1 Description

To login use:

**POST** `/api/sessions`

#### 3.1.2 Input Parameters

Name	Description	Value	Required
user	User credentials.	A hash.	Yes
user[login]	The user login name.	String	Yes
user[password]	The user password for the login.	String	Yes

### 3.2 Logout

#### 3.2.1 Description

To logout use:

**DELETE** `/api/sessions`

## 4. Ccstores


### 4.1 Open a Connection to a CCStore

#### 4.1.1 Description

To open a connection to a CCStore, use:

**POST** `/elcc_api/ccstores/:ccstore_ref/connect`

#### 4.1.2 Input Parameters

Name	Description	Value	Required
name	The name of this connection.	String	Yes
ccstore_ref	The identifier to assign to this connection. Use this identifier in other calls to refer to this connection.	String	Yes
cloud_service	The cloud storage service as follows: <ul style="list-style-type: none"> <li>Google Cloud Platform - gcp</li> <li>AWS S3 - s3</li> <li>SwiftStack - swift</li> <li>IBM Cloud Object Storage - cleversafe</li> <li>Generic S3 - s3_generic</li> <li>Dell EMC ECS - ecs</li> <li>Cloudian Hyperstore - hyperstore</li> <li>HGST ActiveScale - activescale</li> </ul>	String	Yes
bucket_name	The name of the bucket in the cloud storage service. <div style="background-color: #fff9c4; padding: 5px; margin: 5px 0;">  For bucket naming restrictions, see your cloud provider's guidelines. </div> <p>If the bucket does not exist, it will be created only if the <b>parameter create_if_not_found</b> is set to no.</p>	String	Yes
fs_path	The path of the data set (on the NFS export).	String	Yes
direction	The replication direction. The values are: <ul style="list-style-type: none"> <li>direction_upload</li> <li>direction_download</li> </ul>	String	Yes
create_if_not_found	Indicates whether the bucket is created in the cloud if not found.	String	No
block_size_kb	The block size for the bucket in kilobytes.	Integer	No
hash_type	Indicates the hash algorithm to assign to to the bucket, if creating the bucket.	String	No
region	The region (in the cloud storage service) for the bucket.	String	No
access_key	The username for cloud providers that use username/password.	String	No
secret_key	The password for cloud providers that use username/password.	String	No

Name	Description	Value	Required
endpoint	The endpoint for an S3 compatible service.	String	No
gc_credentials_filename	The GC credentials file to use (in /elastifile/ccweb/elcc_gc_credentials).	String	No
nfserver	The NFS server to write to (required if nfsexport is specified).	String	No
nfsexport	The NFS export to write to on the NFS server (required if nfserver is specified).	String	No
checkout_modified_policy	The modified files policy. The values are: <ul style="list-style-type: none"> <li>modified_keep_newer</li> <li>modified_keep_existing</li> <li>modified_replace</li> </ul>	String	No
checkout_absent_policy	The absent files policy. The values are: <ul style="list-style-type: none"> <li>absent_delete</li> <li>absent_archive</li> <li>absent_preserve</li> </ul>		No

### 4.1.3 Example

```
POST /elcc_api/ccstores/ccstore-1494835902/connect
{
  "bucket_name": "ccstore-1494835902-example-elastifile-com",
  "create_if_not_found": true,
  "cloud_service": "gc",
  "gc_credentials_filename": "credentials1"
}
```

### 4.1.4 Response Example

```
{
  "status": "OK",
  "version_id": "ccstore-1494835902-example-elastifile-com/Version_main/1494835914795401",
  "bucket_name": "ccstore-1494835902-example-elastifile-com",
  "action_performed": "create+format"
}
```

## 4.2 Update a CCStore Connection

### 4.2.1 Description

To update a ccstore connection, use:

```
PUT /elcc_api/ccstores/:ccstore_ref
```

## 4.2.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier.	String	Yes
name	The name of this connection.	String	No
fs_path	The path of the data set (on the NFS export).	String	No
direction	The path of the target directory (within the mounted file system)	String	No
nfserver	The NFS server to write to (required if nfsexport is specified).	String	No
nfsexport	The NFS export to write to on the NFS server (required if nfserver is specified).	String	No
checkout_modified_policy	The modified files policy. The values are: <ul style="list-style-type: none"> <li>modified_keep_newer</li> <li>modified_keep_existing</li> <li>modified_replace</li> </ul>	String	No
checkout_absent_policy	The absent files policy. The values are: <ul style="list-style-type: none"> <li>absent_delete</li> <li>absent_archive</li> <li>absent_preserve</li> </ul>		No

## 4.2.3 Example

```
PUT /elcc_api/ccstores/ccstore-1494835902
```

## 4.3 Clear and Delete a CCStore

### 4.3.1 Description

To clear and delete a CCStore, use:

```
DELETE /elcc_api/ccstores/:ccstore_ref
```

### 4.3.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier.	String	Yes
bucket_name	The name of the CCStore bucket (required for lowering risk of accidental deletion)	String	Yes
keep_bucket	Indicates do not delete the cloud bucket after clearing the CCStore (default: false).	String	No
threads	The number of threads to use for the delete process.	String	No
progressrate	The frequency of progress updates.	String	No

### 4.3.3 Example

```
DELETE /elcc_api/ccstores/ccstore-1494835902
```

```
{
```

```
"bucket_name": "ccstore-1494835902-example-elastifile-com"
}
```

#### 4.3.4 Response Example

```
{
  "status": "ok",
  "pid": 1897,
  "uuid": "dd46c39a-4d72-400d-9757-2f08e91dc9b8proud-sky-9376",
  "id": 1,
  "state": "working"
}
```

### 4.4 Close a Connection to a CCStore

#### 4.4.1 Description

To close an existing connection to a CCStore, use:

```
PUT /elcc_api/ccstores/:ccstore_ref/disconnect
```

#### 4.4.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier	String	Yes

#### 4.4.3 Example

```
PUT /elcc_api/ccstores/ccstore-1494835902/disconnect
```

#### 4.4.4 Response Example

```
{"status": "OK"}
```

### 4.5 Get Statistics About a CCStore

#### 4.5.1 Description

To get a CCStore, use:

```
GET /elcc_api/ccstores/:ccstore_ref/stats
```

#### 4.5.2 Input Parameters

Name	Description	Value	Required
no_cache	Indicates do not retrieve from cache even if cache lookup is turned on.	String	No
allow_cache	Indicates retrieve from cache even if cache lookup is turned off	String	No

## 4.6 Get a Summary of a CCStore

### 4.6.1 Description

To get a CCStore, use:

```
GET /elcc_api/ccstores/:ccstore_ref
```

### 4.6.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier	String	Yes

### 4.6.3 Example

```
GET /elcc_api/ccstores/ccstore-1494835902
```

### 4.6.4 Response Example

```
{
  "summary":
  {
    "deleted_versions_num":0,
    "fs_num_dirs":1,
    "fs_num_files":8,
    "fs_total_data":14,
    "total_data_reduction":0.029661017,
    "total_object_data":472,
    "uniq_file_data":14,
    "uniq_files_data_reduction":0.029661017,
    "uniq_num_dirs":1,
    "uniq_num_files":5,
    "versions_num":1
  },
  "status":"OK"
}
```

## 4.7 List Connected CCStores

### 4.7.1 Description

To list connected CCStores, use:

```
GET /elcc_api/ccstores
```

## 4.7.2 Example

GET /elcc\_api/ccstores

## 4.7.3 Response Example

```
[
  {
    "cred_path":"/Users/elastifile/dev/elcc/CloudConnect-integration/ccweb/elcc_gc_credentials/credentials1",
    "endpoint": "",
    "user_password": "XXXX",
    "ccstore_ref": "ccstore-1494835902",
    "format_version": 1005,
    "bucket_name": "ccstore-1494835902-example-elastifile-com",
    "compression_method": "auto",
    "user_key": "", "region": "us-west1",
    "cloud_service": "gc",
    "hash_type": "SHA-256"
  },
  ...
]
```

## 4.8 Upload a Google Credentials JSON File

### 4.8.1 Description

To post a google credentials json file, use:

**POST** /elcc\_api/ccstores/upload\_google\_json

### 4.8.2 Input Parameters

Name	Description	Value	Required
content	The file content.	String	Yes

## 5. Ccweb

### 5.1 Clear the Command Output Cache

#### 5.1.1 Description

To clear the command output cache, use:

```
PUT /elcc_api/ccweb/cache/clear
```

#### 5.1.2 Example

```
PUT /elcc_api/ccweb/cache/clear
```



## 6. Download files

### 6.1 Download a File from a Version in Bucket

#### 6.1.1 Description

To download a file from a specific version in a specific bucket, use:

```
GET /elcc_api/ccstores/:ccstore_ref/download/file.
```

#### 6.1.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier.	String	Yes
version_id	The version identifier.	String	Yes
src_path	The path of the file to download.	String	Yes
filename	The name of the file to download.	String	Yes

## 7. Operations

### 7.1 List Operations

#### 7.1.1 Description

To list operations, use:

**GET** /elcc\_api/operations

#### 7.1.2 Input Parameters

Name	Description	Value	Required
include_scan	Indicates include version operations that are in the scan phase (default: true).	String	No
include_commit	Indicates include version operations that are in the commit phase (default: true).	String	No
include_checkout	Indicates include version checkout operations (default: true).	String	No
include_delete	Indicates include version delete operations (default: true).	String	No
include_bucket_clear	Indicates include bucket clear operations (default: true).	String	No
include_download_file	Indicates include download file operations (default: true).	String	No
include_running	Indicates include operations that were manually aborted (default: true).	String	No
include_complete	Indicates include operations that finished (default: false).	String	No
include_failed	Indicates include operations that encountered an error (default: false).	String	No
include_aborted	Indicates include operations that were manually aborted (default: false).	String	No
include_all_statuses	Indicates do not filter by operation status (default: false).	String	No
verbose	Indicates show detailed information for each operation (default: false).	String	No

#### 7.1.3 Example

GET /elcc\_api/operations

### 7.2 Show Information About an Operation

#### 7.2.1 Description

To show information about an operation, use:

**GET** /elcc\_api/operations/:id

## 7.2.2 Input Parameters

Name	Description	Value	Required
id	The Id of operation to query.	String	Yes

## 7.2.3 Example

```
GET /elcc_api/operations/1
```

## 7.2.4 Response Example

```
{
  "id": 1,
  "uuid": "dd46c39a-4d72-400d-9757-2f08e91dc9b8shy-cloud-3774",
  "operation_type": "scan",
  "ccstore_ref": "ccstore-1494835902",
  "description": "Version create: from [:/private/tmp/dir_for_scanning] to CCStore [ccstore-1494835902]",
  "operation_status": "complete",
  "operation_pid": 1112,
  "created_at": "2016-01-01T10:02:00.000Z",
  "updated_at": "2016-01-01T10:02:00.000Z",
  "last_command_output": "{\"workdir\":\"\\Users\\Vlastifile\\dev\\Vlcc\\CloudConnect-integration\\ccweb\\Vlcc_tmp\\Vop-00001-shy-cloud-3774\\tree\", \"status\": \"OK\"}\n",
  "operation_progress": {
    "progress": {
      "fs_created_dirs_per_sec": 1,
      "_duration_sec": 0,
      "fs_created_dirs": 1,
      "fs_files_deleted": 0,
      "fs_files_bytes_read": 0,
      "fs_files_bytes_deleted": 0,
      "fs_files_bytes_written": 14,
      "fs_dirs_dedup_per_sec": 0,
      "fs_created_files": 8,
      "fs_files_bytes_deleted_per_sec": 0,
      "fs_files_dedup": 0,
      "elapsed_sec": 0,
      "update_time": "2017.05.15-11:11:58",
      "fs_files_bytes_written_per_sec": 14,
      "fs_dirs_dedup": 0,
      "fs_files_deleted_per_sec": 0,
      "fs_dirs_buckets_dedup": 0,
      "fs_files_dedup_per_sec": 0,
      "fs_dirs_deleted": 0,

```

```
"fs_dirs_deleted_per_sec": 0,
"fs_files_bytes_read_per_sec": 0,
"fs_created_files_per_sec": 8,
"fs_dirs_buckets_dedup_per_sec": 0
},
"bucket": {
  "read_blobs_bytes": 472,
  "_duration_sec": 0,
  "delete_ref_counts_ops": 0,
  "read_blobs_bytes_per_sec": 472,
  "delete_blobs_bytes": 0,
  "read_metadata_ops_per_sec": 1,
  "inc_ref_count_obj_ops": 0,
  "elapsed_sec": 0,
  "update_time": "2017.05.15-11:11:58",
  "read_ref_count_obj_ops_per_sec": 0,
  "write_blobs_bytes": 7156,
  "read_blobs_ops_per_sec": 1,
  "read_ref_count_obj_ops": 0,
  "read_blobs_ops": 1,
  "create_ref_count_obj_ops_per_sec": 1,
  "delete_blobs_ops": 0,
  "write_blobs_bytes_per_sec": 7156,
  "delete_blobs_bytes_per_sec": 0,
  "create_ref_count_obj_ops": 1,
  "delete_blobs_ops_per_sec": 0,
  "delete_ref_counts_ops_per_sec": 0,
  "write_blobs_ops": 9,
  "write_blobs_ops_per_sec": 9,
  "inc_ref_count_obj_ops_per_sec": 0,
  "read_metadata_ops": 1
}
},
"operation_result": {
  "workdir": "/Users/elastifile/dev/elcc/CloudConnect-integration/ccweb/elcc_tmp/op-00001-shy-cloud-3774/tree",
  "status": "OK"
}
}
```

## 7.3 Abort an Operation

### 7.3.1 Description

To abort an operation, use:

**PUT** /elcc\_api/operations/:id/abort

### 7.3.2 Input Parameters

Name	Description	Value	Required
id	The Id of operation to abort.	String	Yes

### 7.3.3 Example

```
PUT /elcc_api/operations/1/abort
```

### 7.3.4 Response Example

```
{
  "status": "ok",
  "did_abort": true
}
```

## 7.4 Get a List of Files Skipped in a Version Create Operation

### 7.4.1 Description

To get a list of files skipped in a version create operation, use:

**GET** /elcc\_api/operations/:id/skipped-files

### 7.4.2 Input Parameters

Name	Description	Value	Required
id	The Id of operation to query.	String	Yes

### 7.4.3 Example

```
GET /elcc_api/operations/1/skipped-files
```

### 7.4.4 Response Example

```
{
  "num_skipped": 3,
  "elapsed_sec": 0,
  "skipped_list":
  {
```

```
"Vprivate\tmp\dir_for_scanning\file6": "no read access to file",  
"Vprivate\tmp\dir_for_scanning\file7": "no read access to file",  
"Vprivate\tmp\dir_for_scanning\file8": "no read access to file"  
},  
"update_time": "2017.05.15-11:11:58"  
}
```

## 7.5 Delete History for All Non-Active Operations

### 7.5.1 Description

To delete history for all non-active operations, use:

```
DELETE /elcc_api/operations/history/all
```

### 7.5.2 Example

```
DELETE /elcc_api/operations/history/all
```

### 7.5.3 Response Example

```
{  
  "purged": 0  
}
```

## 7.6 Delete History for All Non-Active Operations Older Than One Week

### 7.6.1 Description

To delete history for all non-active operations which have finished more than a week ago, use:

```
DELETE /elcc_api/operations/history/old
```

### 7.6.2 Example

```
DELETE /elcc_api/operations/history/old
```

### 7.6.3 Response Example

```
{  
  "purged": 0  
}
```

## 7.7 Delete History for a Specific Non-Active Operation

### 7.7.1 Description

To delete history for a non-active operation, use:

```
DELETE /elcc_api/operations/history/:id
```

## 7.7.2 Input Parameters

Name	Description	Value	Required
id	The Id of operation to query.	String	Yes

## 7.7.3 Example

```
DELETE /elcc_api/operations/history/1
```

## 7.7.4 Response Example

```
{  
  "status": "ok"  
}
```

## 7.8 Run Periodic Update Operations

### 7.8.1 Description

To run periodic update operations, use:

```
PUT /elcc_api/operations/periodic-update
```

### 7.8.2 Example

```
PUT /elcc_api/operations/periodic-update
```

### 7.8.3 Response Example

```
{  
  "status": "ok"  
}
```

## 8. Versions

### 8.1 List All Versions for a CCStore

#### 8.1.1 Description

To list all versions for a specified CCStore, use:

```
GET /elcc_api/ccstores/:ccstore_ref/versions
```

#### 8.1.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier.	String	Yes
no_cache	Indicates do not retrieve from cache even if cache lookup is turned on.	String	No
allow_cache	Indicates retrieve from cache even if cache lookup is turned off	String	No

#### 8.1.3 Example

```
GET /elcc_api/ccstores/ccstore-1494835902/versions
```

#### 8.1.4 Response Example

```
[
  {
    "push_end_time": "2017/05/15 11:12:04",
    "ccfs_srv_uid": "ace2471f-6d2e-40e6-9ad3-b56b708ade9b",
    "version_desc": "/private/tmp/dir_for_scanning",
    "version_id": "ccstore-1494835902-example-elastifile-com/Version_main/1494835926422777",
    "stat_file_id": "stat_3f6d77c2-06fa-4873-a4f9-2dcabc401e02",
    "push_start_time": "2017/05/15 11:12:04",
    "format_version": "1005",
    "parent_id": "ccstore-1494835902-example-elastifile-com/Version_main/1494835914795401",
    "branch_name": "main",
    "block_size": "524288",
    "index_file_id": "index_3f6d77c2-06fa-4873-a4f9-2dcabc401e02",
    "version_uid": "3f6d77c2-06fa-4873-a4f9-2dcabc401e02",
    "catalog_file_id": "catalog_3f6d77c2-06fa-4873-a4f9-2dcabc401e02",
    "hash_type": "SHA-256"
  },
  ...
]
```



## 8.2 Get Statistics About a CCStore Version

### 8.2.1 Description

To get statistics about a CCStore, use:

**GET** /elcc\_api/ccstores/:ccstore\_ref/versions/stats

### 8.2.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier.	String	Yes
version_id	The version identifier.	String	Yes
no_cache	Indicates do not retrieve from cache even if cache lookup is turned on.	String	No
allow_cache	Indicates retrieve from cache even if cache lookup is turned off	String	No

### 8.2.3 Example

```
GET /elcc_api/ccstores/ccstore-1494835902/versions/stats?version_id=ccstore-1494835902-example-elastifile-com%2FVersion_main%2F1494835926422777
```

### 8.2.4 Response Example

```
{
  "summary": {
    "diff_data_reduction": 0.029661017,
    "diff_file_data": 14,
    "diff_num_dirs": 1,
    "diff_num_files": 5,
    "fs_num_dirs": 1,
    "fs_num_files": 8,
    "fs_total_data": 14,
    "total_data_reduction": 0.029661017,
    "version_object_data": 472
  },
  "status": "OK"
}
```

## 8.3 Initiate a New Version Create Operation

### 8.3.1 Description

To initiate a new version-create operation (copy file system contents to the CCStore), use:

**POST** /elcc\_api/ccstores/:ccstore\_ref/versions

### 8.3.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier	String	Yes
nfserver	The NFS server to read from (required if nfsexport is specified).	String	No
nfsexport	The NFS export to read from on the NFS server (required if nfserver is specified).	String	No
fs_src	The path of the source data (on the NFS export).	String	No
branch	The branch in which to create the new version (default: main branch).	String	No
parent_version_id	The Id of the parent version (default: latest version in the branch).	String	No
threads	The number of threads to use for the scan and commit processes.	String	No
progressrate	The frequency of progress updates.	String	No
version_desc	The version description.	String	No

## 8.4 Copy Version Contents from a CCStore to a File System

### 8.4.1 Description

To copy a version contents from CCStore to file system, use:

**POST** /elcc\_api/ccstores/:ccstore\_ref/versions/checkout

### 8.4.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier	String	Yes
nfserver	The NFS server to write to (required if nfsexport is specified).	String	No
nfsexport	The NFS export to write to on the NFS server (required if nfserver is specified).	String	No
fs_dest	The path of the target directory (within the mounted file system).	String	No
branch	The source branch in the CCStore (default: main).	String	No
version_id	The Id of the version in the branch (default: latest version).	String	No
threads	The number of threads to use for the checkout process.	String	No
progressrate	The frequency of progress updates.	String	No
checkout_modified_policy	The modified files policy. The values are: <ul style="list-style-type: none"> <li>modified_keep_newer</li> <li>modified_keep_existing</li> <li>modified_replace</li> </ul>	String	No

Name	Description	Value	Required
checkout_absent_policy	The absent files policy. The values are: <ul style="list-style-type: none"> <li>absent_delete</li> <li>absent_archive</li> <li>absent_preserve</li> </ul>		No
path	The path within CCStore to checkout, should begin with a slash ("/").	String	No

### 8.4.3 Example

```
POST /elcc_api/ccstores/ccstore-1494835902/versions/checkout
```

### 8.4.4 Response Example

```
{
  "fs_dest": "/private/tmp/restored_dir",
  "version_id": "ccstore-1494835902-example-elastifile-com/Version_main/1494835926422777"
}
{"status":"ok","pid":1251,"uuid":"dd46c39a-4d72-400d-9757-2f08e91dc9b8roken-butterfly-1726","id":1,"state":"-working"}
```

## 8.5 Delete a Version from a CCStore

### 8.5.1 Description

To deletes a version from a CCStore, use:

```
DELETE /elcc_api/ccstores/:ccstore_ref/versions
```

### 8.5.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier.	String	Yes
version_id	The Id of the version to be deleted.	String	No
threads	The number of threads to use for the delete process.	String	No
progressrate	The frequency of progress updates.	String	No

### 8.5.3 Example

```
DELETE /elcc_api/ccstores/ccstore-1494835902/versions
```

```
{
  "version_id": "ccstore-1494835902-example-elastifile-com/Version_main/1494835926422777"
}
```

## 8.5.4 Response Example

```
{
  "status":"ok",
  "pid":1625,
  "uuid":"dd46c39a-4d72-400d-9757-2f08e91dc9b8withered-sun-6657",
  "id":1,
  "state":"working"
}
```

## 8.6 Examine Directory Contents in a Version

### 8.6.1 Description

To examine a directory contents within a version, use:

```
GET /elcc_api/ccstores/:ccstore_ref/versions/dir
```

### 8.6.2 Input Parameters

Name	Description	Value	Required
ccstore_ref	The CCStore connection identifier	String	Yes
version_id	The Id of the version to be examined (default: latest version in ccstore)	String	No
branch	The branch in the CCStore (default: main).	String	No
path	The directory path within the version (default: /).	String	No
count	The max count of entries to return, 0 is not limited (default - 0).	String	No
offset	The offset of first entry to return (default - 0).	String	No

### 8.6.3 Example

```
GET /elcc_api/ccstores/ccstore-1494835902/versions/dir?version_id=ccstore-1494835902-example-elastifile-com%2FVersion_main%2F1494835926422777&path=%2F
```

### 8.6.4 Response Example

```
[
  {
    "date":"05/15/2017 11:11:56",
    "uid":"502",
    "gid":"0",
    "nlinks":"1",
    "permissions":"-rw-r--r--",
    "name":"file1",
    "type":"-",
  }
]
```

```
"symlink_to":"","  
"file_size":"14"},  
...  
]
```