



3D Juump Infinite Directory API

[DI_EN] version 3.3

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Introduction

This documentation is targeted to developers that want to automate 3D Juump Infinite operations:

- users administration,
- cluster administration,
- project administration.

Accessing the API

1 - Location

The Directory API is located under `/directory/api` on your ∞Directory host. Endpoints detailed documentation is available in [Infinite directory API.html](#).

The Proxy API is located under `/proxy/api` on your ∞Proxy/∞Server host. Endpoints detailed documentation is available in [Infinite proxy API.html](#).

2 - Authentication

APIs are accessible through a *directory session* opened by an authenticated user with administrator privilege.

```
Authorization: Bearer <OpenId or Directory bearer depending on configuration>  
x-infinite-bearer: <Directory bearer>
```

Alternatively, the APIs are also accessible through the *superuser* login procedure. Pass the credentials using the *Basic* authorization method.

```
Authorization: Basic bG9naW46cHdk  
x-infinite-apikey: bG9naW46cHdk
```

Directory management

Directory management API is available under the *directory/api/manage* sub-path. Several endpoints are available.

1 - Principles

1.1 - Simple vs multiple get

Several endpoints can return one or more records from a collection. You can either use the collection endpoint (*users*, *teams*, *proxies*, *projects*, *builds*...) or the single item endpoint (*users/:sub*, *teams/:teamname*, *proxies/:proxyid*, *projects/:projectid*, *builds/:buildid*...). In either case, the result is a JSON document of the following form:

```
GET ...  
=> 200  
{  
  "count": <number of records>,  
  "data": [  
    <array of records>  
  ]  
}
```

Note: single item endpoints always returns only one record.

```
GET ...
=> 200
{
  <records>
}
```

1.2 - Filtering and sorting

Collection endpoints support filtering and sorting.

```
POST ...
{
  "offset": <start of slice>,
  "limit": <size of slice>,
  "sort": {
    "field": <field used for sorting>,
    "sort_asc": <order of sorting>
  },
  "operator": <filters combination operator>,
  "filters": [
    {
      "field": <field to filter on>,
      "value": <value to match>,
      "partial": <partial or exact match>
    },
    ...
  ]
}
=> 200
{
  "count": <number of matching records>,
  "data": [
    <array of matching records>
  ]
}
```

Where:

- *"offset"* and *"limit"* allows to retrieve only a slice of the filtered collection,
- *"sort"* allows to sort the results along the chosen *"field"* in ascending (when *"sort_asc"* is *true*) or descending (when *"sort_asc"* is *false*) order,
- *"operator"* (*AND* or *OR*) and *"filters"* allows to search & filter the results, with a filter being composed of:
 - *"field"*: the name of the field of data on which to filter,
 - *"value"*: the value to match,
 - *"partial"*: a boolean telling whether the match is exact or absolute.

2 - Information

Get information regarding the 3D Juump Infinite ∞Directory api.

</directory/api/manage/apiinfo>

3 - Statistics

Get overall statistics about the cluster.

/directory/api/manage/stats

4 - Applications

/directory/api/manage/applications

The API allow to register and manage access to application. Application are defines by their trusted redirect url.

Default application are:

- Directory front-end (<https://host/directory>)
- Web client (<https://host/webclient>)
- Native client (<https://host:443/directory/api/directorysession/onauthenticationdone>)

5 - Users and Teams

/directory/api/manage/users

/directory/api/manage/teams

The API allows to manage users and teams collection. Non Exhaustive actions are:

- Enable users
- Define access rights per user and team

6 - Proxies

/directory/api/manage/proxies

The API allows to access the nodes (servers/proxies/directory) collection.

Non Exhaustive actions are:

- Revoke users from a proxy
- Manage replication links
- Manage alternative urls (to avoid using public url for replication)
- Manage client messages (dispatched to connected clients)

7 - Projects

/directory/api/manage/projects

The API allows to access and manage the projects and builds collection.

8 - Settings

/directory/api/manage/settings

The API allows to access the ∞Directory settings.

See Administration Manual for settings description.

Proxy management

Proxy management API is available under the [proxy/api](#) sub-path. Several endpoints are available.

This API allows to manage a proxy. In particular it is used by connectors to manage project status and trigger builds.

1 - Manage

[/proxy/api/manage](#)

Non Exhaustive actions are:

- Delete a build
- Restore a build
- Trigger a cleanup/resync

2 - Generator

[/proxy/api/manage/generator](#)

Non Exhaustive actions are:

- Get/Set project status
- Request build creation
- Manage evojuumps
- Synchronize metadata from the connector

Third party application protection

Third party backends could use Directory or Data session access token delivered by an ∞Directory or ∞Proxy to validate user access rights. Directory access token scope could be enrich using thirdpartyscopes access rights (see Administration Manual). Access tokens signature could be validated using the public key available on [Json Web Key Store](#) or by introspection [OAuth 2.0 Token Introspection](#)