

Command Line

Overview

opencga.sh is the officially recommended command line tool for users. It implements most of the functionality with many different *commands* and *subcommands*. These *commands* are a one-to-one mapping of *Resources* from REST web services and *subcommands* are mapping to end-points. All the operations that can be performed using the command line internally creates one or several REST calls, so access to REST machine/cluster is required.

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Correlation Between REST and CLI

In the following URL, "samples" is the resource and "search" is the endpoint:

<http://bioinfo.hpc.cam.ac.uk/opencga-demo/webservices/rest/v1/samples/search>

the corresponding command in the command line is :

```
./opencga.sh samples
```

and the corresponding subcommand is :

```
./opencga.sh samples search
```

Executing `./opencga.sh` will return the list of all available commands with a description for each of them as shown below:

```
Program:      OpenCGA (OpenCB)
Version:      2.0.0-rc1
Git commit:   01cbe42598defa2ef5a192bad1f456166487aee4
Description:  Big Data platform for processing and analysing NGS data

Usage:        opencga.sh [-h|--help] [--version] <command> [options]

Catalog commands:
  users      User commands
  projects   Project commands
  studies     Study commands
  files      File commands
  jobs       Jobs commands
  individuals Individual commands
  families   Family commands
  panels     Panel commands
  samples    Samples commands
  cohorts    Cohorts commands

Analysis commands:
  alignments Implement several tools for the genomic alignment analysis
  variant     Variant commands
  clinical    Clinical analysis commands

Operation commands:
  operations  Operations commands
```

The list of sample subcommands can be retrieved by simply executing the "samples" command without any argument as show below:

create	Create a sample
load	Load samples from a pedigree file
info	Get samples information
search	Search samples
update	Update sample
delete	Delete a sample
stats	Sample stats
acl	Return the acl of the resource
acl-update	Update the permissions set for a member
annotation-sets-update	Update the value of some annotations

```
{
  "host" : "http://localhost:8080/opencga",
  "version" : "v2",
  "user" : "user1",
  "token" : "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJ1c2VyMSIsImF1ZCI6Ik9wZW5DR0EgdXNlcnMiLCJpYXQiOiJlbnQxNTcyODIsImV4cCI6MTUzNDE2MDg4Mn0uamV2D28oR_W5ZjWxUvPBXBGVH0Eby-lAl7pb8ox0SXxE",
  "refreshToken" : "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJ1c2VyMSIsImF1ZCI6Ik9wZW5DR0EgdXNlcnMiLCJpYXQiOiJlbnQxNTcyODIsImV4cCI6MTUzNDE2MDg4Mn0uamV2D28oR_W5ZjWxUvPBXBGVH0Eby-lAl7pb8ox0SXxE",
  "login" : "20191119095437",
  "expirationTime" : "20191119105436",
  "studies" : [ "user1@default:study1", "user1@default:study2" ]
}
```

Authenticating is only necessary the first time. Users will have time to execute any other command line without the need to provide any more credentials until the stored token expires. Please note down that the token expiration time is set by the main OpenCGA installation. Once this token has expired, users will need to log back in again to keep working with the command line.