Command Lines

OpenCGA implements three different command lines for different purposes, these are ***opencga.sh*, *opencga-admin.sh*** and ***opencga-analysis.sh*.** All of them follow the same structure, design and share many usage features:

1. **structure:** they are organised in *commands* and *subcommands,* e.g.: *./opencga.sh <command> <subcommand> [options]*
2. **authentication:** you need to be authenticated to run the command lines, only *admin* user can run *opencga-admin.sh*. *Anonymous* user can run *opencga.sh* when using public *studies.*
3. **output:** all of them follow the same usage conventions for parameters and output

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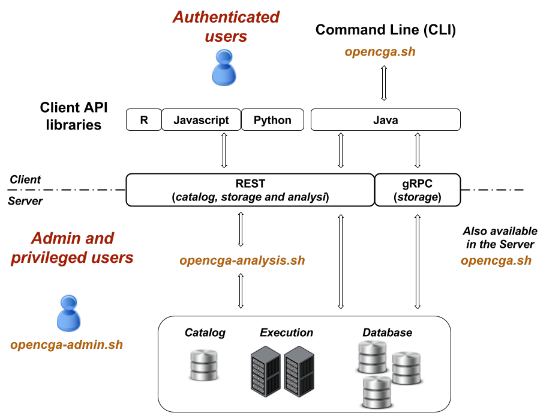
Architecture

Here you can find a diagram of the three command lines a brief description below:



opencga.sh

This is the main command line for normal users, in fact this is the only command line that everybody should use. It implements all the functionality in more than 100 *command* and *subcommands*, for example you can login, list files, search samples or query variants. The vast majority of the *subcommands* run over *RESTful* web services so this command line can run *remotely* (outside of the cluster) or *locallly* (inside the cluster) as long as you have access to the REST server, this command line uses **client-configuration.yml** file. You can find more detailed information at **Command Lines > opencga.sh**

opencga-admin.sh

This command line requires the *admin* password to be executed, it allows to install *catalog* database and indexes, create users, query the audit, ... This does not use RESTful web services and it needs direct access to the server, so it only runs in the OpenCGA cluster and it uses **configuration.yml.** You can find more detailed information at **Command Lines > opencga-admin.sh**.

opencga-analysis.sh

This command line is used by OpenCGA system itself and nobody is expected to use it unless you are debugging and you really understand how it works. It runs in the cluster and uses **configuration.yml.** No more detailed information is provided at this moment.

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