

JFrog Production Engineering Academy - Home Assignment

January 2022

It was a pleasure meeting you! As discussed, we would like you to do a short home assignment to demonstrate your skills.

Please write a command line interface in Python or Bash to manage an Artifactory SaaS instance via its API. You can register one for free here : <https://jfrog.com/start-free/#saas> .

The CLI should be easily usable, extensible and documented.

Features

Please implement at least five of the following APIs, with at least one example of each HTTP verb:

- System Ping
- System Version
- Create User
- Delete User
- Get Storage Info
- Create Repository
- Update repository
- List repositories

Authentication

- Run the APIs against Artifactory with a token, but base the CLI login on user/password.
- Provide us with a user+password for initial usage of the CLI with your instance.

General Guidelines

- Upload the final CLI package/zip to your Artifactory in a local repository and allow easy installation from it.
- Have a help menu displaying all the functions and usage.
- This is an “open-book” test, so feel free to use search engines but don't copy your work from pre-existing public solutions.
- Omission of some features or details is acceptable - our shared goal is for you to showcase your skills to the best of your ability and submit a solution you're proud of.
- Please write documentation of the sources used, as well of the decisions made during the assignment.
- All code should be hosted in a public git repository.
- The assignment duration is up to a week since we sent it to you.

We appreciate your time and effort!

Production Engineering Team,

JFrog