

How to submit

- Implement both challenges and submit a single ZIP file, including the .git folder if you used version control.
- Include a README.md file explaining usage and any decisions taken that you feel need documentation.

1. Python script that accepts a list of URLs to be downloaded

Example: `./downloader s3://glovo-public/systems-engineer-interview-1.0-SNAPSHOT.jar http://de.releases.ubuntu.com/12.04/ubuntu-12.04.5-desktop-i386.iso`

This call to your script should end with two files created in the CWD, `systems-engineer-interview-1.0-SNAPSHOT.jar` and `ubuntu-12.04.5-desktop-i386.iso`.

We expect:

- Support for S3 and HTTP protocols.
- Single-file script written in Python 2 or 3.

We'll value:

- Clear scripting. Ability to easily support new protocols.
- Sane error handling.
- Parallel download of files.

2. CloudFormation template and supporting scripts to deploy a basic Java web application

The app is provided as a self-executable JAR file:

- It will listen in port 8080, serving a single endpoint in the root path.
- It won't accept requests that do not contain the header `X-Glovo-Systems-Engineer-Candidate` set to 1, but we need it to be directly accessible from a browser.
- Execute it with `java -jar systems-engineer-interview-1.0-SNAPSHOT.jar server`.
- You can find it at:

`https://s3-eu-west-1.amazonaws.com/glovo-public/systems-engineer-interview-1.0-SNAPSHOT.jar`

We expect:

- Production-ready quality (assuming the app is production ready).
- VPC and proper subnets.
- HTTPS at ELB level with AWS-generated certificate.

- AutoScaling rules based on CPU usage.
- Injection of the mentioned header.

We'll value:

- Clean scripting. Your code should be easy to share with other team members and easy to evolve.
- Usage of appropriate configuration management tools (e.g. Ansible) to provision the instances or AMI.
- No-downtime release when a new version of the JAR is available.
- A proposal on how to inject configuration to the app and how to manage/store/version this configuration (e.g. database url and password).
- A proposal for application log management and archiving.