**Technical Interview**

We would like to better evaluate your technical knowledge and the way you approach problems. In order to do so, we would like you to complete the following project.

**Description**

A system generates every night a list of vulnerabilities that are currently relevant for the security analysts. This list is sent as a CSV like this:

|  |
| --- |
| id,host,vulnerability,risk\_score  f01851ac-c890-43b6-8761-dd59aa2e43c9,167.57.156.22,KB4586823: Windows 8.1 and Windows Server 2012 R2 November 2020 Security Update,64  7678acf2-c928-4137-b35b-a5b94b4e183a,205.94.93.59,Apache ActiveMQ Detection,71  3e26e516-9d54-4faa-99d2-cd7822c6cf43,45.78.175.158,Microsoft Windows 95/98/ME Unsupported Installation Detection,38  a3c967c4-f31b-456e-bc95-8382f1cc07e9,126.113.182.55,BSD Based FTP Server Multiple glob Function Remote Overflow,40  12d20483-cf03-476a-8738-ec74a9e95f17,198.57.5.185,Docker remote API detection,67  7ad689fa-63b4-44da-9d2e-eef9f432a341,252.87.7.60,Mozilla Firefox ESR < 78.6,12 … |

We would like you to create a REST service to allow other systems to query the information. The API should expose:

* Return the 10 most risky vulnerabilities for a specific host;
* Return the vulnerabilities in alphabetical order for a specific host. This API must support pagination.

**Evaluation Criteria**

* Simplicity;
* Technical choices (the project should be in Python, but you can choose the frameworks you’ll use);
* Quality;
* Performance;
* Tests;
* Documentation.

**Restrictions**

* Python should be used as a programming language;
* No database is authorized;
* We voluntarily provide few details. Document your hypotheses if needed;
* Send the code in a zip to nathalie.ngongo1@bell.ca.