

Coding Challenge

Extend the Malware Scanner with a new check.

The platform checks every document which it receives. This job is done by the Malware Scanner service, which architecture is described below.

The idea of the service is to run several checks against the document, like virus scan or validate the magic byte. The service can be extended with more checks from a business point of view.

In this challenge we want to protect our platform against money laundering. For that case we have to check if the document contains an IBAN which is blacklisted. In case of a blacklisted IBAN the document the check fails.

Features we would like to see:

- Java based program which consumes check tasks from a Kafka Topic and fits into the Malware concept.
- Loads PDF documents from a URL specified in the Kafka message.
- The check fails on blacklisted IBAN's.
- Some thoughts about the design, security aspects and further work of the solution.

Attached Documents

- Architecture overview of the Malware scanner.
- Java classes to wrap the Kafka messages.
- Example document with IBAN.

Note:

The only constraints for this solution are, it should be developed with Java and communicates over Kafka with the client. You are completely free to choose other technologies for this coding challenge. Feel free to provide the result in the form that is best for you but provide some instructions so that we can get it working on our machine. We do not look for a feature perfect solution but want to get an impression of your coding skills and problem-solving strategies. Please use the code to explain your implementation choices.

You have 48h to solve the coding challenge. We don't expect you to spend 48h coding here. We estimate an effort of 10h for this challenge, so that you can right size your approach.

Have fun and we are very much looking forward to the result.