Scala/Java interview task

The platform is subscribed to multiple data feeds. Each feed is published by a different client to a dedicated Kafka topic.
Client 1 uses XML and client 2 uses CSV. XML represent a single message whereas CSV represent multiple messages.

The service required should read the messages from the 2 topics and for each message process it, transform to JSON and publish it to a single result topic.
In case the message fails to parse, publish it to a kafka topic named “errors” (with the original content + error message). When the message is successfully parsed, transform the content to a JSON object.

All input formats should be transformed to a single normalized JSON object.

The solution is a service that pulls the messages from 2 kafka topics, processes them and publish a normalized JSON message/error JSON message.

- The service has to include full coverage passing tests for both positive and negative scenarios.
- No need to deploy Kafka, can use in memory or docker-compose.
- The service should log its internal actions using system.out.
- You make take any assumptions you would see fit to get the job done.
- You may embed any open source libraries/frameworks of your choice.
- Solution should be submitted via github.

Bonuses

The following are optional features that will get you extra credit:

- scala
- Instead of JSON for the normalized messages, use protobuf
- Persist all the incoming/outgoing messages to a NOSQL database of your choice.
- ETL the normalized messages into a relational table in Postgres.
- Client 3 sends JSON messages over REST API
- akka-streams
- gradle build
- Log4s
- Service docker image

Good luck!