# Homework - BE Dev

#### Format:

please commit your code into this github repository.

There is no formal deadline on this assignment. In order for you to understand the effort: we expect that this task would not take longer then 4-6 hours of time for experienced candidates.

### Goals:

- evaluate ability to set up cloud infrastructureevaluate ability to organise and group projects

#### Components to set up:

- · config server
- auth server
- api gateway
- discovery service
- cloud monitoring

#### Services to implement:

- Account Service
- · Bank Information Service

### API endpoints

Service	Endpoint	Method	Authenticated	Description	Sample request	Sample Output
Account	/accounts/	GET		Get list of all accounts	GET /accounts/	<pre>{     "id": 1,     "firstName":     "Max",     "lastName":     "Mustermann"     },     {         "id": 2,         "firstName":     "Darth",         "lastName":     "Vader"     } }</pre>
	/account/{id}	POST	X	Create an account with specified ID	POST /account/1	Response Code: 200
	/account/{id}	GET	X	Get specific account information	GET /account/1	{   "id": 1,   "firstName":   "Max",   "lastName":   "Mustermann" }
Bank Information	/bank/{id}	GET	X	Get bank information for specified account id	GET /bank/1	{     "id": 1,     "firstName":     "Max",     "lastName":     "Mustermann",     "IBAN":     "DE893704004405 32013081"     }

## Task:

• Implement service to manage accounts

- Implement service to get bank data of account
  - for requested account id fetch account information from account service
     make sure that authentication checked automatically
     make sure that endpoint is resolved dynamically
     return account id as last digits of IBAN
  - - take "DE89370400440532013087" as a base value
       replace last N digits of IBAN wit account id
- Make sure that both services are properly registered in discovery and monitoring services

#### Notes:

- do NOT use complex structures during your implementation
  use only in-memory data storage, i.e. either basic java data structures or in-memory databases
- please provide detailed instructions on startup, usage and testing process of your services
  use basic spring boot with maven as a baseline for implementation