Course Handouts

1. Source code - <https://gitlab.com/24-jan-john-deere-microservices>
2. Source code for Order-microservice - <https://gitlab.com/24-jan-john-deere-microservices/order-microservice.git>
3. Source code for Inventory-microservice - - <https://gitlab.com/24-jan-john-deere-microservices/inventory-microservice>
4. Spring cloud config service - <https://gitlab.com/24-jan-john-deere-microservices/config-service>
5. Spring cloud eureka service - <https://gitlab.com/24-jan-john-deere-microservices/eureka-microservice.git>
6. Payload for post request

http://localhost:8222/api/v1/orders

{

"date": "2022-01-23",

"price": 25710.58,

"customerName": "Catharine",

"lineItems": [

{

"qty": 2,

"name": "Heavy Duty Iron Computer",

"price": 2638.39

} ]}

1. Steps to install Docker - <https://docs.docker.com/engine/install/centos/>
2. Setting up kubectl on Windows
   1. <https://kubernetes.io/docs/tasks/tools/install-kubectl-windows/>

Day 3:

Kubernetes commands

1. kubectl apply -f <file-name>.yml
2. kubectl get pods
3. kubectl describe po <pod-name>
4. kubectl logs <pod-name>
5. kubectl delete po –all
6. kubectl delete rs -- all
7. kubectl delete svc -- all
8. kubectl exec -it <pod-name> – /bin/sh
9. apk add curl
10. curl <http://svc-ip/api/v1/orders>

OAuth2 flow:

client-id: 0oa3c97t1miPTkJjV5d7

client-secret: 7gW-y3pOXiOWgT4Os9x23Pk5pSZc6ooryuKJUXfO

redirect-uri: http://localhost:8555/login/oauth2/code/okta

Metadata- uri: https://dev-7858070.okta.com/oauth2/default/.well-known/oauth-authorization-server

User interaction

Reason: Authentication

URL: authorization endpoint

https://dev-7858070.okta.com/oauth2/default/v1/authorize

https://dev-7858070.okta.com/oauth2/default/v1/authorize?client\_id=0oa3c97t1miPTkJjV5d7&response\_type=code&scope=openid&redirect\_uri=http://localhost:8555/login/oauth2/code/okta&state=state-296bc9a0-a2a2-4a57-be1a-d0e2fd9bb601

Response: http://localhost:8555/login/oauth2/code/okta?code=Rv-NplyxnRkI-\_a-4ncus9NAbQQx1IoJNCwHNs\_ABzQ&state=state-296bc9a0-a2a2-4a57-be1a-d0e2fd9bb601

Client application

Reason: Token generation

URL: token endpoint

https://dev-7858070.okta.com/oauth2/default/v1/token

curl --location --request POST 'https://dev-7858070.okta.com/oauth2/default/v1/token' \

--header 'accept: application/json' \

--header 'authorization: Basic MG9hM2M5N3QxbWlQVGtKalY1ZDc6N2dXLXkzcE9YaU9XZ1Q0T3M5eDIzUGs1cFNaYzZvb3J5dUtKVVhmTw==' \

--header 'content-type: application/x-www-form-urlencoded' \

--header 'Cookie: JSESSIONID=CFB2264436FEEB791BE749A16F3B8B70' \

--data-urlencode 'grant\_type=authorization\_code' \

--data-urlencode 'redirect\_uri=http://localhost:8555/login/oauth2/code/okta' \

--data-urlencode 'code=Rv-NplyxnRkI-\_a-4ncus9NAbQQx1IoJNCwHNs\_ABzQ'

Response: token:

eyJraWQiOiJUT0U3ZXNpOHBMZFVuOVV6TUJkY0pLeFVNUk42cWpGbXRSc1JuTnVUd0VjIiwiYWxnIjoiUlMyNTYifQ.eyJ2ZXIiOjEsImp0aSI6IkFULmgxQUlNR0FQT3Rzcm5RY2RWVmJ5X0czYVNRZG1TeTRLWEFSN3BpeWoyODQiLCJpc3MiOiJodHRwczovL2Rldi03ODU4MDcwLm9rdGEuY29tL29hdXRoMi9kZWZhdWx0IiwiYXVkIjoiYXBpOi8vZGVmYXVsdCIsImlhdCI6MTY0MzM2NTkzNywiZXhwIjoxNjQzMzk1OTM3LCJjaWQiOiIwb2EzYzk3dDFtaVBUa0pqVjVkNyIsInVpZCI6IjAwdTNteXk1c09sOVNEYnYzNWQ2Iiwic2NwIjpbIm9wZW5pZCJdLCJzdWIiOiJwcmFkZWVwLmt1bWFyNDRAZ21haWwuY29tIiwiZ3JvdXBzIjpbIkV2ZXJ5b25lIiwic3VwZXJfYWRtaW5zIiwiYWRtaW5zIl19.IJop1y7hWDP95nTNCsm4jVr8uqSJ8fXKQgvlBufYhYnl0VFWq89xbVXPD6XM2kcs2pd6KwqvNKoWkcThNJmMu60ia88Tfz-ZPRJz3aBILQir8JIWafmrMn3cEv2vxM9K5Z-vJR7zFgA5i9aX5qBz42JLGp5uLet7jxJkXficuRYSFD-6N-GEDQEKTqBBk6Rceu12ZSwLDGwInJ8BIP7kNuYSpJIbURxnZ4hTKHBOFMkLXUqo9MQ0SYUUX9f8Gi\_VazjA\_BIY3hX3K-U7XSJaRFDT1NxCsFu7OA06sd-mUGiKszD2U5PzltvE3FIeU8MOxY9efs7JEil9YNu7C7Bnsw

Resource server

Reason: Token validation

URL: user info