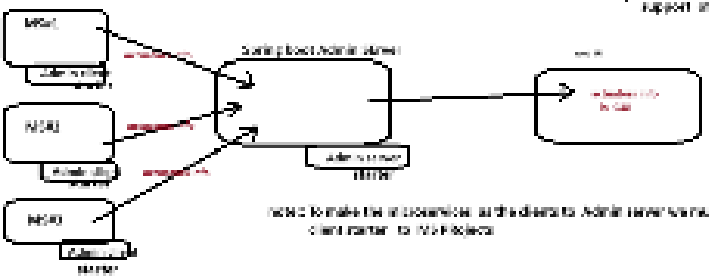

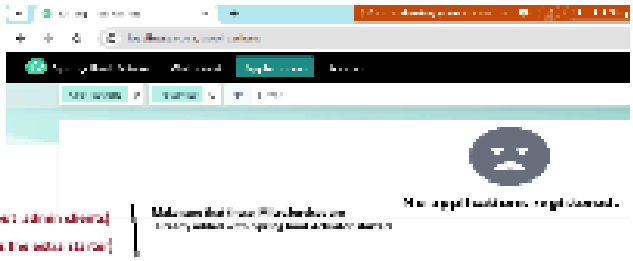

Spring Boot Admin Server

========

=======

=> Spring boot admin server is a spring boot app that acts proxy server for multiple micro services of the project to collect and show spring boot actuators

in the GUI env...

=>So far we have used actuators in every MS project and we are able operte the actuators w.r.t each MS project if multiple MicroServices are applied with actuators to get them and use them in single GUI env.. we need to take the support of admin server and admin client

MS#1

actuators info

Spring boot Admin Server

Admin clien

starter

MS#2

actuator info

Admin clien

actuators info

Starter

MS#3

Admin client

starter

Admin server

starter

web UI

actuators info in GUI

note:: To make the microservices as the clients to Admin server we must add the admin client starter to MS PRojects

reach instance of MS separately we can get the

=> Instead of getting actuators info about each Me

same information about all the MSs and instances from single place called web UI through Spring Boot Admin server

instance of

=> web UI gets actuators info from each MS or each MS separately.. only the thing is

as

Spring boover acts proxy collecting that information and giving to web UI

Example App

====

step1) Create Eureka SErver

step2) Create Spring boot admi"server

starters :: web, admin server (codecentric)

=> place @EnableAdminServer on the top of main class

@SpringBootApplication

@EnableAdminServer

public class BootMsProj11AdminServerApplication {

application.properties

spring.application.name=BootMSProj11-AdminServer

 # admin server port server.port=9091

public static void main(String[] args) {

Spring Bool Admin

*** +**

SpringApplication.run(BootMsProj11AdminServerApplication.class, args);

}

C

O localhost:9091/applications

}

Spring Boot Admin

Wallboard

Applications

Journal

Applications o

Instances U Y Filter

=> Run the Application and observe the Basic web UI

You're sharing your screen

):

Q 00

Stop

No applications registered.

step3)

(Take the copy from any old projects

Develop one or microServices by making clients to Admin server (nothing but admin clients) (add Adminclient as the extra starter)

Make sure that these MicroServices are already added with Spring boot Actuator starters

:)

step4) add additional entries in the application.properties file of the both MS projects

#Connect to Admin server as admin client spring.boot.admin.client.url=http://localhost:9091 #activate all the actuators

management.endpoints.web.exposure.include=*

management.endpoint.health.show-details-always

management.endpoint.env.enabled=true management.endpoint.env.show-values-always

step5) Run the Projects in the following order

i) Eureka server

ii) Admin server

iii) MS#1

vi) MS#2

step6) Perform the following operations on webUI of the admin server

a) see the active applications count

http://localhost:9091/applications

b) add ur choice properoties to get their metrics using metrics actuators

Admin server web ui home page ---> wallboard ---> choose ms or ms instance select metrics ---->

Metrics

http.server.requests

http.server.requests

method:GET

uri:/customer-api/report

outcome:SUCCESS

status:200

exception

method

GET

error

uri

/customer api/report

outcome

SUCCESS

status

200

note:: make sure that the following property is added to the pom.xml file MS projects (admin clients)

<spring-boot-admin.version>3.4.5</spring-boot-admin.version>

COUNT

TOTAL_TIME

MAX

43

0.2883377

0

Add Metric