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Spring Boot 9AM

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1. Config Client work flow + different location
 2. Refresh Scope
 3. Native Config

=====(Config Client work

flow)=====

*) When we create any MS# we need to add Config Client Dependency
pom.xml : spring-cloud-starter-config

*) We Don't write any code for ConfigClient (not even location of
Config Server)
in our MS#, bcoz ConfigClient code already exist in parent project.

***** ConfigServer URL exist in ConfigClient Code in parent project
as url = http://localhost:8888 (it is not in our project)

=====

Q) Where is the code for ConfigClient?

A) It is at parent project(Spring Cloud) we just add dependency/jar

Q) Where is the location (URL) of Config Server (not Git)?

A) At parent(Spring Cloud) properties file it has location
of Config Server Application.

spring.cloud.config.uri = http://localhost:8888

It means default IP of ConfigServer is localhost and default port
recomanded
is 8888.

Q) Is our application.properties loaded first or Parent Project
Config Client code is executed first?

A) First Parent project config client code is executed
at last our application.properties is loaded.

Q) How can we override above Config Server default URL?

A)

We can not override above default value using our
application.properties file

Why? Bcoz First Parent Project code executed, that reads parent
properties file
at last our properties/code executed.

bootstrap.properties is a file executed by parent project
(it is like application.properties inside parent project)
in every MS# we should provide it.

=====Code changes to last session project=====

1. Eureka server (same code)

2. Config Server (port number is modified)

```
application.properties
server.port=8008
spring.cloud.config.server.git.uri=https://gitlab.com/javabyraghu/my-
config-test.git
```

3. MS# (EmpApp)

- a. create bootstrap.properties under src/main/resources.
- b. add key=val
spring.cloud.config.uri=http://localhost:8008

2. Refresh Scope

Problem Statement:

MS# with Eureka and Config Server are started.
Even MS# able to read/print keys from Config server
If we modify key=val in External Config Server(in git)
value is not reflecting in our MS#.

Solution Statement:

1. Restart all MS# and Config Server apps.

2. Use @RefreshScope to avoid re-start concept.

*) Modifications in MS# App (EmployeeApp)

pom.xml

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-actuator</artifactId>
</dependency>
```

*) application.properties (add this)
management.endpoints.web.exposure.include=*

*) At RestController: @RefreshScope

*) Start All Apps

*) Make POST Request using MS# IP/PORT as
http://MSIP:PORT/actuator/refresh

```
+-----+
| POST | http://localhost:8686/actuator/refresh | SEND |
+-----+
```

Q) What @RefreshScope is doing here?

A) It is calling Config Client code again
that gets latest keys from Config Server
and merge back to our application that effects
to Our MS#.