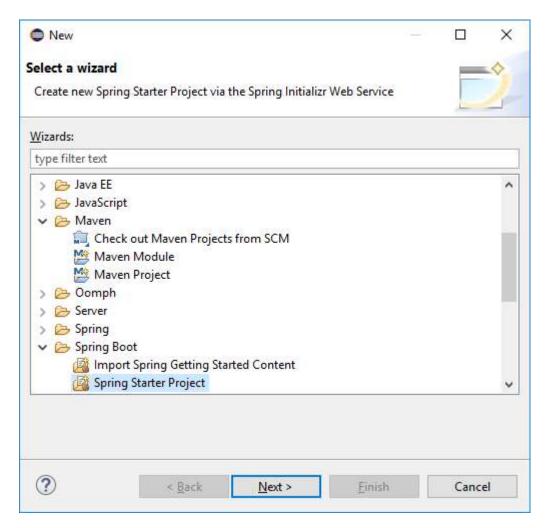
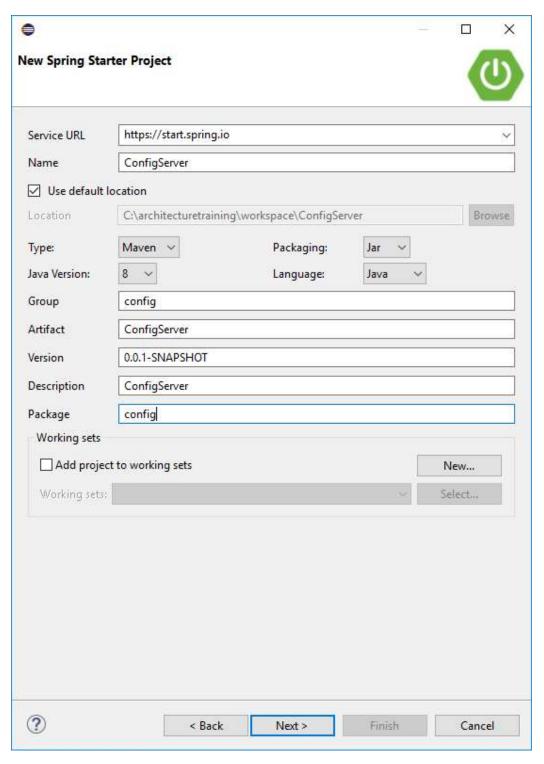
Exercise 1: Spring Boot Config Server

First we will create a config server.

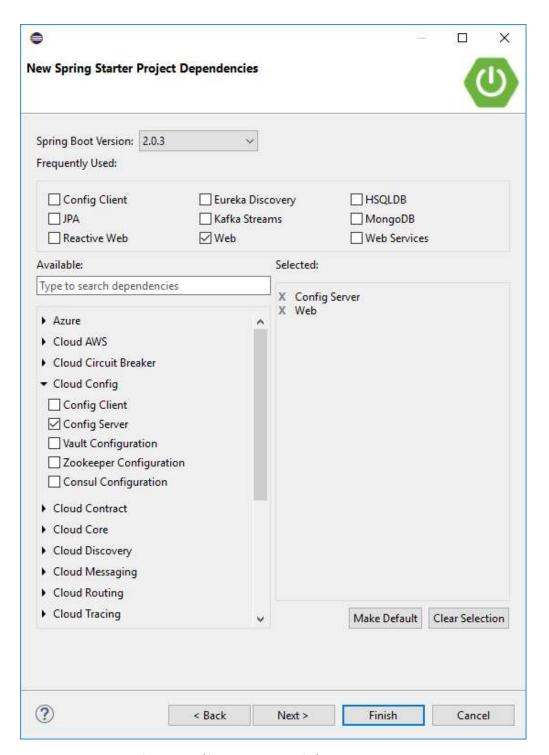
In Eclipse select the menu items File->New->Other and select Spring Boot->Spring Starter Project.



Click Next



Fill in the details as given in the picture above and click Next.

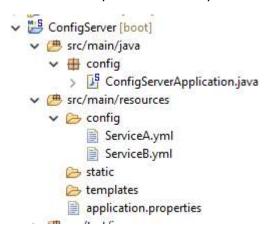


Select Web and Config Server (from Cloud Config) and click Finish.

Then add the **@EnableConfigServer** annotation to the application:

```
@SpringBootApplication
@EnableConfigServer
public class ConfigServerApplication {
    public static void main(String[] args) {
        SpringApplication.run(ConfigServerApplication.class, args);
    }
}
```

Then create a new folder with the name config in scr/main/resources and add 2 new files with the names ServiceA.yml and ServiceB.yml



Fill both config files with the following content:

config/ServiceA.yml

```
greeting: Hello from Service A
```

config/ServiceB.yml

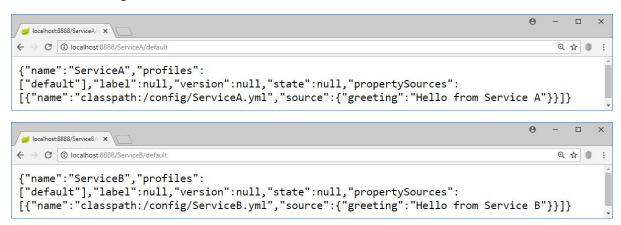
```
greeting: Hello from Service B
```

Then fill application.properties with the following content:

application.properties

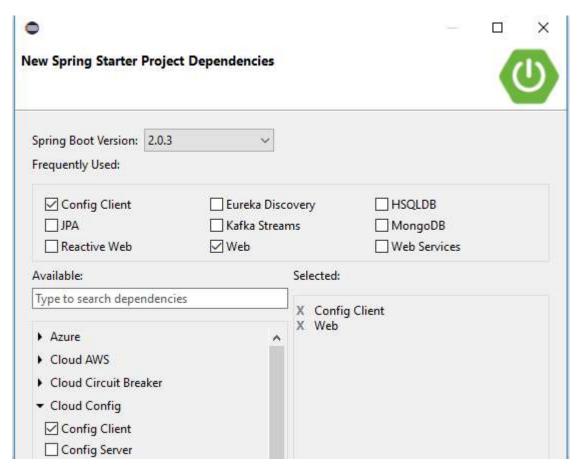
```
spring.profiles.active=native
server.port=8888
```

Now run the ConfigServer and check if it works:



Now we need to write ServiceA.

Create a new Spring Boot project called ServiceAApplication and give it the libraries web and Config Client



Then implement ServiceAApplication as follows:

```
@RestController
public class ServiceAController {
    @Value("${greeting}")
    private String message;
    @RequestMapping("/")
    public String getName() {
       return message;
    }
}
```

```
■ ServiceA [boot]

■ src/main/java

■ config

□ ServiceAApplication.java

□ ServiceAController.java

■ src/main/resources

■ application.yml
■ bootstrap.yml
```

application.yml

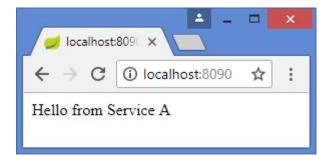
```
server:
port: 8090
```

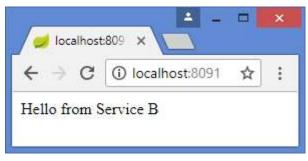
bootstrap.yml

```
spring:
   application:
     name: ServiceA
   cloud:
     config:
     url: http://localhost:8888
```

In the same way implement **ServiceBApplication**.

Then test if the applications work correctly:





Exercise 2: Config server for our webshop

Given is the solution of our webshop using components, which are basically microservices. I changed the JMS part back to REST.

Now convert all microservices to a spring cloud microservice by adding the library:

```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-config</artifactId>
</dependency>
```

to all 4 services.

Then change application.properties to application.yml. Check if everything is still working.

Also give every service a bootstrap.yml file with the name of the application, and the location of the config service.

Then move some configuration from the services to the config server, and check if it still work.