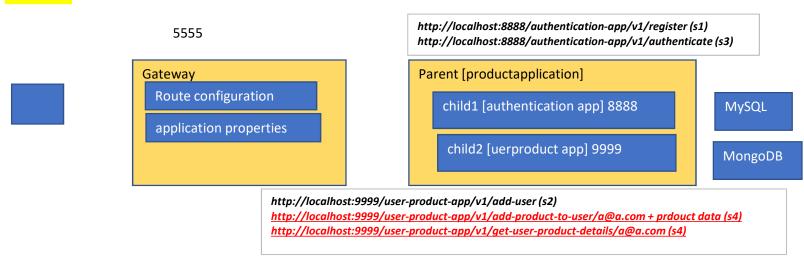
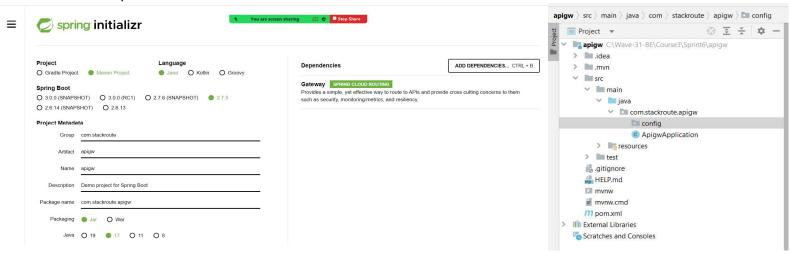


Demo 1



Steps to create g/w springboot application

Step 1 Create springboot application in spring initializer adding required dependencies Gateway



extract project and open in intellij create required packages

Step 2 application properties

```
application.properties ×

1 server.port=5555
2 # app should not run as usual web-app
3 # should perform redirection
4 spring.main.web-application-type=reactive
5
```

Step 3 Configure routes in configuration file

```
@Configuration
9
       public class AppConfig {
10
           @Bean
11 @
           public RouteLocator getRoutes(RouteLocatorBuilder builder){
12
               return builder.routes()
13
                               .route( p->p
                                       .path( ...patterns: "/authentication-app/v1/**")
14
15
                                       .uri("http://localhost:8888/*"))
16
                               .route( p->p
17
                                       .path( ...patterns: "/user-product-app/v1/**")
18
                                       .uri("http://localhost:9999/*"))
19
                           .build();
20
      1//
               return builder.routes()
       11
                       .route( p->p
       11
23
                     .path("/authentication-app/v1/**")
24
                     .uri("http://100.100.100.100:8888/*"))
25
       11
                     .route( p->p
26
       11
                     .path("/user-product-app/v1/**")
27
       11
                     .uri("http://200.200.200.200:9999/*"))
28
       11
                     .build();
29
      0//}
30
       }
       if url comes as
        http://localhost:5555/authentication-app/v1/** -> http://localhost:8888/authentication-app/v1/**
       http://50.50.50.50.5555/authentication-app/v1/** -> http://100.100.100.100:8888/authentication-app/v1/**
35
       if url comes as
       http://localhost:5555/user-product-app/v1/add-user/** -> http://localhost:9999/user-product-app/v1/add-user/**
```

7 6 5

ip port

4 3

2 1

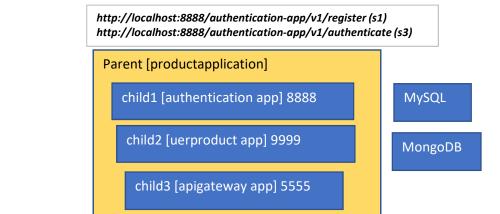
app

os

hw

```
http://localhost:5555/authentication-app/v1/register
http://localhost:8888/authentication-app/v1/register
http://localhost:5555/user-product-app/v1/add-user
http://localhost:9999/user-product-app/v1/add-user
http://localhost:5555/authentication-app/v1/authenticate
http://localhost:8888/authentication-app/v1/authenticate
http://localhost:5555/user-product-app/v1/get-user-product-details/a@a.com
http://localhost:9999/user-product-app/v1/get-user-product-details/a@a.com
http://localhost:5555/user-product-app/v1/add-product-to-user/a@a.com + prdouct data
http://localhost:9999/user-product-app/v1/add-product-to-user/a@a.com + prdouct data
Demo 2
```

5555



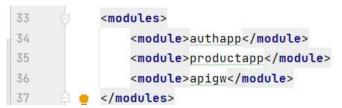
http://localhost:9999/user-product-app/v1/add-user (s2)

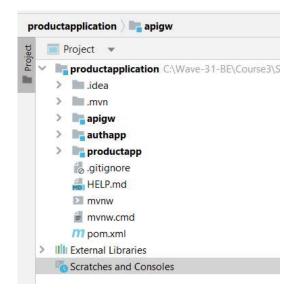
http://localhost:9999/user-product-app/v1/add-product-to-user/a@a.com + prdouct data (s4) http://localhost:9999/user-product-app/v1/get-user-product-details/a@a.com (s4)

Steps to make apigw application as child in existing microservice application

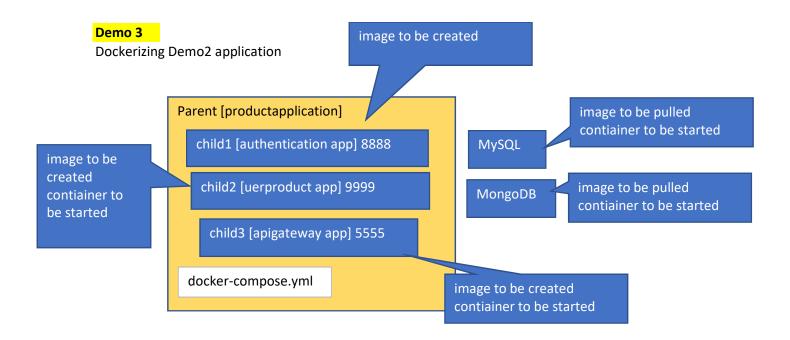
- Step 1 copy apigw application to parent application folder
- Step 2 edit pom in child (apigw)

Step 3 edit pom in parent (productapplication)





Run all applications



```
docker-compose.yml
       auth_service:
          image: auth_app_image
          build: authapp/
          container_name: auth_app_container
           - mysql_service
          image: mysql:5.5
          container_name: mysql_container
          environment:
            MYSQL_USERNAME: user
            MYSQL_PASSWORD: root
            MYSQL_ALLOW_EMPTY_PASSWORD: "yes"
```

```
customer_service:
image: user_product_app_image
build: productapp/
container_name: user_produt_app_container
network_mode: host
restart: always
depends_on:
- mongo_service

mongo_service:
image: mongo:3.4-jessie
container_name: mongo_container
network_mode: host
```

```
after line 36 |
gwservice:
  image: api_gw_image1
  build: apigw/
  container_name: api_gw_container
  network_mode: host
  depends_on:
    - customer_service
    - auth_service
```