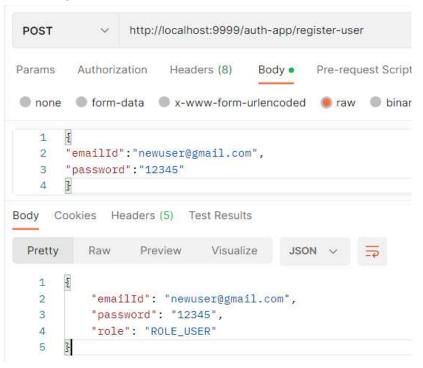


Client application uses RESTAPI Endpoints to interact with RESTAPI Client application needs to identify which port based URL connecting to RESTAPI

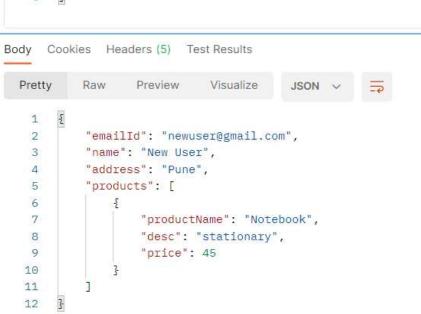
http://...:9999/.... auth-app http://...:8888/.... product-app

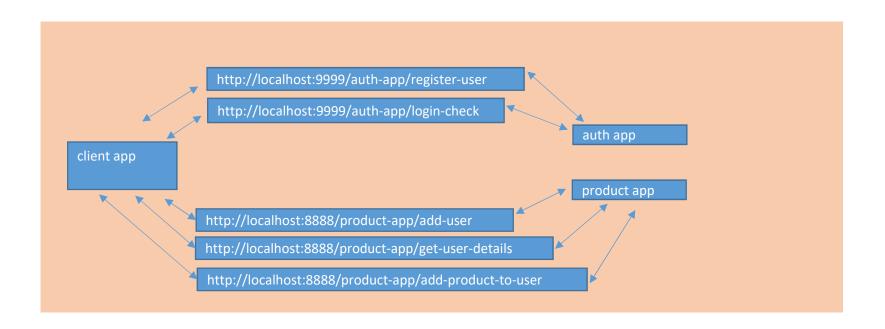


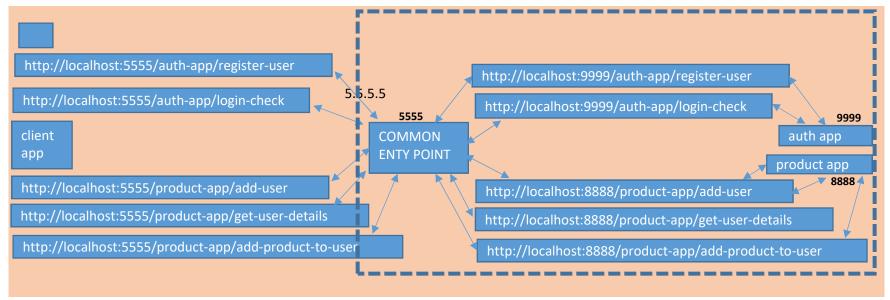
```
http://localhost:8888/product-app/add-user
 POST
         Authorization Headers (8)
                                     Body •
                                             Pre-request Script
Params
 none form-data x-www-form-urlencoded raw binary
    1
    2
        "emailId": "newuser@gmail.com",
        "name": "New User",
        "address": "Pune"
    5
Body Cookies Headers (5) Test Results
  Pretty
                   Preview
                              Visualize
                                         JSON V
    1
           "emailId": "newuser@gmail.com",
    2
    3
           "name": "New User",
    4
           "address": "Pune",
    5
            "products": []
    6
```

```
http://localhost:9999/auth-app/login-check
 POST
Params
          Authorization
                        Headers (8)
                                                Pre-request Scrip
                                       Body .
         form-data
                      x-www-form-urlencoded
                                                raw
bina
    1
        "emailId": "newuser@gmail.com",
    3
        "password":12345
    4
      Cookies Headers (5) Test Results
  Pretty
            Raw
                    Preview
                               Visualize
                                           JSON
    1
    2
            "message": "Login success, Token generated",
            "token": "eyJhbGciOiJIUzUxMiJ9.
    3
                eyJyb2xlIjoiUk9MRV9VU0VSIiwiaXNzIjoiTXlDb21v
                GM52qMmVQeq4TcmVleHBACenBb4UnEBi-yJVhEbcn2xe
    4
       3
        S5
                  http://localhost:8888/product-app/add-product-to-use
POST
Params
          Authorization •
                          Headers (9)
                                         Body .
                                                  Pre-request Scrip
         form-data x-www-form-urlencoded
   1
        "productName": "Notebook",
   3
            "desc": "stationary",
   4
            "price":45
```

```
http://localhost:8888/product-app/get-user-details
 GET
Params
          Authorization •
                            Headers (7)
                                           Body
                                                   Pre-request Script
Type
                      Bearer Tok...
                                           Token
The authorization header will be
automatically generated when you send
the request.
Learn more about authorization 7
Body
      Cookies Headers (5) Test Results
  Pretty
            Raw
                     Preview
                                 Visualize
                                               JSON
    1
             "emailId": "newuser@gmail.com",
    2
    3
             "name": "New User",
             "address": "Pune",
    4
    5
             "products": []
    6
```







in common/single entry point

if any request coming for '/auth-app/ANY_REQUEST_VERB OR ANY_PATH_VARIABLE' then route to 'http://localhost:9999/*'

if any request coming for '/product-app/ANY_REQUEST_VERB OR ANY_PATH_VARIABLE' then route to 'http://localhost:8888/*'

If produt app and auth app hosted on different computers with Ips as 1.1.1.1 and 2.2.2.2

if any request coming for '/auth-app/ANY_REQUEST_VERB OR ANY_PATH_VARIABLE' then route to 'http://1.1.1.1:9999/*'

if any request coming for '/product-app/ANY_REQUEST_VERB OR ANY_PATH_VARIABLE' then route to 'http://2.2.2.2:8888/*'

if any request coming for '/auth-app/ANY_REQUEST_VERB OR ANY_PATH_VARIABLE' then route to 'http://auth.com/*'

if any request coming for '/product-app/ANY_REQUEST_VERB OR ANY_PATH_VARIABLE' then route to 'http://product.com/*'

Steps to create and configure cloud gateway in existing application

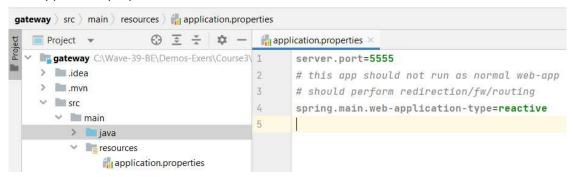
- Step 1 Makesure product application and auth application are working with all functionalities
- Step 2 Create new springboot application for gw



Project	Language	Dependencies	ADD 0
O Gradle - Groovy O Gradle - Kotlin	Java O Kotlin O Groovy		
Maven		Gateway SPRING CLOUD ROUTING	
Post of Post		Provides a simple, yet effective way to route to	
Spring Boot		such as security, monitoring/metrics, and resilien	ncy.
O 3.0.2 (SNAPSHOT) O 3.0.1 O 2.7.8 (S	NAPSHOT) 0 2.7.7		
Project Metadata			
Group com.stackroute			
A2111		•	
Artifact gateway			
Name gateway			
		•	
Description Demo project for Spring Boot			
·		•	
Package name com.stackroute.gateway			
Packaging			
Java 🔘 19 🌘 17 🔘 11 (O 8		

download, extract, copy to workspace, open in intellij check settings if required create any packages if required

Step 2 Edit application properites



Step 3 Define routes in configuration

http://localhost:5555/auth-app/register-user

http://localhost:5555/auth-app/login-check

http://localhost:5555/product-app/add-user

http://localhost:5555/product-app/get-user-details

http://localhost:5555/product-app/add-product-to-user

http://localhost:9999/auth-app/register-user

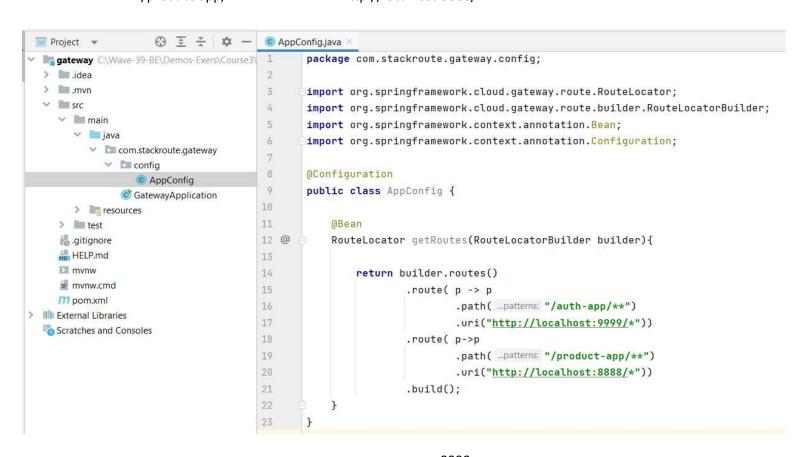
http://localhost:9999/auth-app/login-check

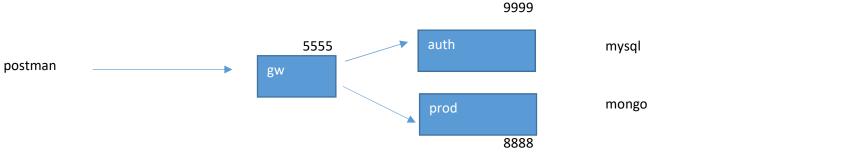
http://localhost:8888/product-app/add-user

http://localhost:8888/product-app/get-user-details

http://localhost:8888/product-app/add-product-to-user

```
/auth-app/** ---> http://localhost:9999/* http://localhost:9999/as it is /product-app/** ---> http://localhost:8888/*
```





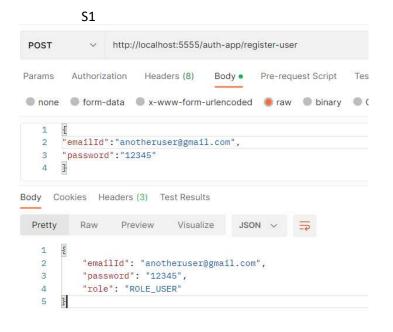
- S1 create user a/c in auth app
- S2 create user a/c in product app
- S3 login check with auth app, returns JWT if login is success
- S4 access product app intercepted URL resource using JWT (get-user-details)
- S5 access product app intercepted URL resource using JWT (add-product-to-user)

How client application connects with BE REST API

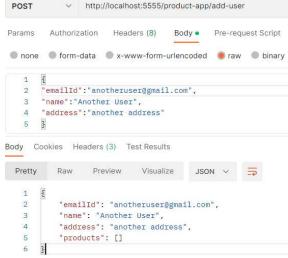
without GW with GW

http://localhost:9999/auth-app/register-user	S1	http://localhost:5555/auth-app/register-user
http://localhost:9999/auth-app/login-check	S3	http://localhost:5555/auth-app/login-check
http://localhost:8888/product-app/add-user	S2	http://localhost:5555/product-app/add-user
http://localhost:8888/product-app/get-user-details	S4	http://localhost:5555/product-app/get-user-details
http://localhost:8888/product-app/add-product-to-user	S5	http://localhost:5555/product-app/add-product-to-user

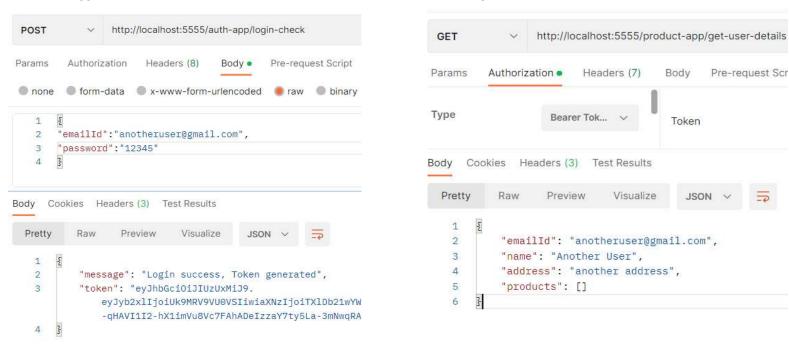
run app check with postman



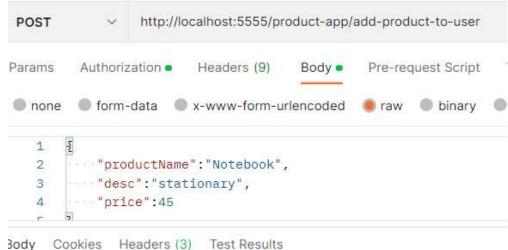
S2







S5





Note If any spring cloud tool dependecny injected in pom.xml makesure below elements also added in pom.xml

