**ECS P-Cloud Computing**

**Mini-Project**

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**Architecture Diagram**

**ad\_ae6dabd5e495167**

**Auth Server**

**Eureka Server**

**Plan Service**

**Accum Service**

**Zuul API Gateway/Load Balancer**

**External request**

**ad\_0efdc2c2417b1df**

**ad\_e01ff2833336ec6**

**Language Used :** Java

**JDK Version :** 1.8

**Framework :** Spring, Hibernate (Database)

**Database :** MySql (PCF Cloud)

**End Points and their pay loads**

**Auth Server**

1. Post: <https://p-api-gateway.cfapps.io/auth/generate>  
   {  
   "username": "pravin",  
   "password": "test",  
   "role": "User"  
   }
2. Post: <https://p-api-gateway.cfapps.io/auth/user>  
   {  
   "username": "mahsin",  
   "password": "test",  
   "role": "User"  
   }
3. Get: <https://p-api-gateway.cfapps.io/auth/isexpired/eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJwcmF2aW4iLCJleHAiOjE1ODc1MTExMzcsImlhdCI6MTU4NzQ5MzEzN30.oHLOkiTdJV4VRgVSxsManRyyTHTxjiXTTUqcfxCxtS2tSbyxJveaGn2KkWRP4cEEi1171gdBaeWfAUKOrcol-Q>

**Plan Service**

1. Post: <https://p-api-gateway.cfapps.io/benefit/plan>  
   Bearer: token  
   {  
     "coInsurance": 0,  
     "copay": 100,  
     "deductible": 0,  
     "specialServiceCount": 9  
   }
2. Get: <https://p-api-gateway.cfapps.io/benefit/plan>  
   Bearer: token

**Accum Service**

1. Put: <https://p-api-gateway.cfapps.io/accum/user/pravin/price/300>  
   Bearer: token  
   {  
     "benefitPlan": {  
       "id": 1  
     },  
     "endDate": "2020-04-20T16:06:12.519Z",  
     "startDate": "2020-12-20T16:06:12.519Z",  
     "username": "pravin"  
   }
2. put: <https://p-api-gateway.cfapps.io/accum/user/pravin/service/5>  
   Bearer token

**Challenges**

**During Development :** Although my code was correct because of some issue in my pom.xml file I had difficulties in compiling and executing the code.I had to delete the.m2 in my local system and the do a clean install to resolve this.

**During deployment :** Issues during deployment, because I was redirecting the request based on the path and since I was testing everything in my local it was working fine. But when I deployed into cloud one server was not able to reach the other services that were deployed on different PCF instance then I had to change the mapping to URL instead of just path