



LAB- Using Zuul as API Gateway and Proxy

We want all the requests to microservices to be routed through a gateway.

open pom.xml in 07-03-gateway-zuul-start project and observe that zuul dependency and eureka dependency are added.

Open ZuulServer.java and complete TODO-1 and TODO-2

open bootstrap.yml and observe the zuul.prefix is configured as /api .

The proxy prefix is stripped from the request before the request is forwarded to microservice.

The proxy uses Ribbon to locate an instance to forward to via discovery, and all requests are executed in a hystrix command, so failures will show up in Hystrix metrics, and once the circuit is open the proxy will not try to contact the service.

We want to log all the request coming to the zuul server. **Open LoggingZuulFilter.java and observe the code which is logging.**

Start EurekaServer by Running 03-01-eureka-server-common

Now start ZuulServer.java .

Got to eureka console at <http://localhost:5001> and observe that Zuul server is registered with name gateway in eureka.

Open QuoteService .java in 07-04-portfolio-service-start and complete TODO-1 and TODO-2

Open AccountService.java in 07-04-portfolio-service-start and do similar changes

Now Start 07-04-portfolio-service-start. Observe that it is registered in eureka.

Now give a request to baseurl of portfolioservice +/portfolio/{youruserid} .You should observe your portfolio details

observe the console of ZuulServer.

Did you observe the logs which print the urls of incoming requests ?



Following is Optional .(Do it if you have time)

Open AccountService.java,PortfolioService.java and QuoteService.java inside **07-05-way2learntrader-web-solution** and observe that `@FeignClient` and `@RequestMapping` annotations are configured such that the requests will be routed through Zuul.

Now Run Way2LearnTraderApp.java in 07-05-way2learntrader-web-solution.

Now go to <http://localhost:6060> and login. As you click through the links, observe the gateway console which logs the requests it is getting.