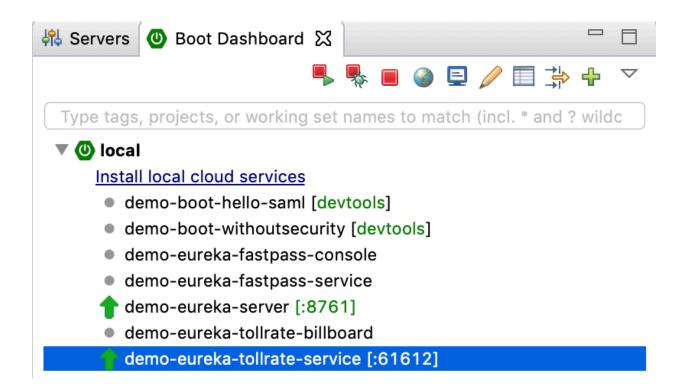
Creating a Zulu Proxy and Experimenting with Routes

- 1. Import demo-zuul-apiproxy as a Maven Project
- 2. Start demo-eureka-server
- 3. Start demo-eureka-tollrate-service



Scenario 1 - Proxy for a single instance

4. Go to demo-zuul-apiproxy project and create some proxy configurations

You can create a proxy URL for the toll service running on 61612 (Port# shown in above screen)

application.properties

```
server.port = 8086
spring.application.name = toll-api-proxy

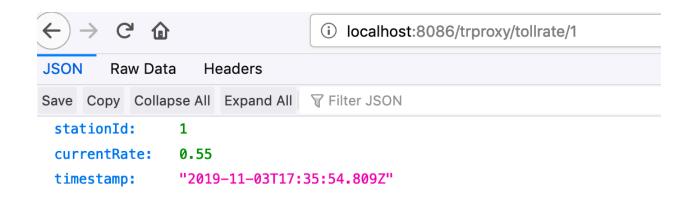
# Scenario 1
zuul.routes.trproxy.url = http://localhost:61612
```

5. RUN the Zuul Proxy

It starts on Port #8086

6. Test invoke a Toll rate API call with Proxy as shown here

Visit: http://localhost:8086/trproxy/tollrate/1



7. Change the name of the Proxy

application.properties

```
# Scenario 1.1 - Change the URL for a Proxy
zuul.routes.trproxy.path = /tollproxy/**
```

- 8. RUN the Zuul App
- 9. The earlier URL does not work now as we changed Proxy name

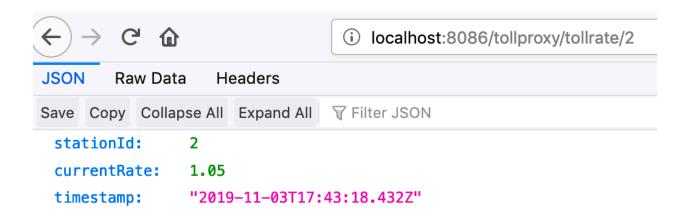


Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Sun Nov 03 12:40:44 EST 2019
There was an unexpected error (type=Not Found, status=404).
No message available

10. Change to this as shown below



Scenario 2

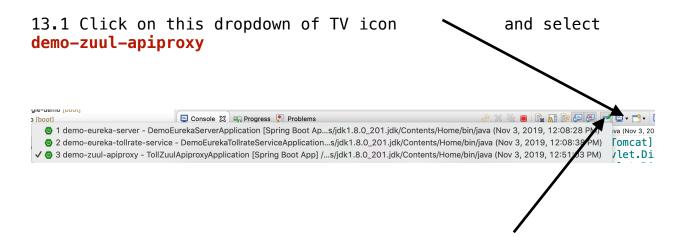
API Proxy without Ribbon

11. API Proxy without Ribbon Load balancer

application.properties

```
# Scenario 2 - API Proxy without Ribbon
ribbon.eureka.enabled = false
zuul.routes.trproxy.path = /tollproxy/**
zuul.routes.trproxy.serviceId = proxy
proxy.ribbon.listOfServers = http://localhost:61612
```

- 12. RESTART Zuul
- 13. Pin the Console of Zuul App as shown here



2. Click this PIN icon to lock demo-zuul-proxy console

- 14. Visit http://localhost:8086/tollproxy/tollrate/2
- 15. Observe the Output on the console

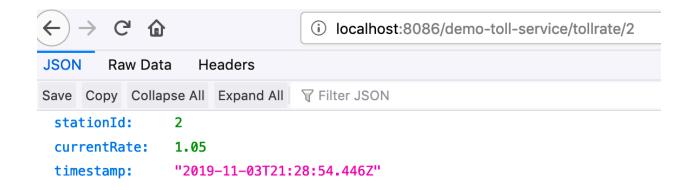
Scenario 3

Adding Eureka starter for Zuul App filters all the Eureka registered Microservices

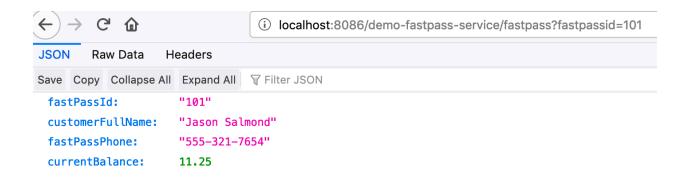
16. Add Eureka Dependency for Zuul App and observe that Eureka registered Microservices are accessible via Zuul Proxy

No config required in application.properties

Visit: http://localhost:8086/demo-toll-service/tollrate/2



Visit: http://localhost:8086/demo-fastpass-service/fastpass? <a href="fastpass-service/fast



Scenario 4

Allow ONLY specific services via Proxy

17.

```
# Scenario 4
zuul.ignoredServices=*
zuul.routes.trproxy.path = /tollproxy/**
zuul.routes.trproxy.serviceId = demo-toll-service
```

18. RESTART Zuul App

19. Now try to access the fastpass service via Proxy and should not work.

Visit: http://localhost:8086/demo-fastpass-service/fastpass? fastpassid=101



Whitelabel Error Page

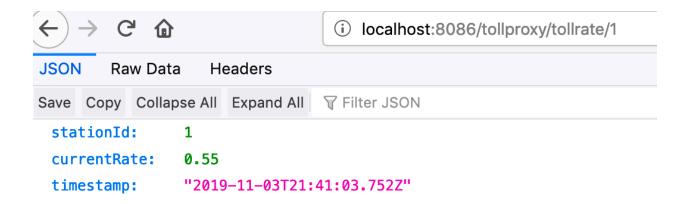
This application has no explicit mapping for /error, so you are seeing this as a fallback.

Sun Nov 03 16:35:02 EST 2019 There was an unexpected error (type=Not Found, status=404).

No message available

20. Call the toll service with toll proxy and should work!

Visit: http://localhost:8086/tollproxy/tollrate/1



21. Ignore specific pattern in the above scenario

Enter this line in Scenario #4

application.properties

zuul.ignored-patterns=/tollproxy/tollrate/2

- 22. RESTART Zuul App
- 23. Observe that /2 will not work

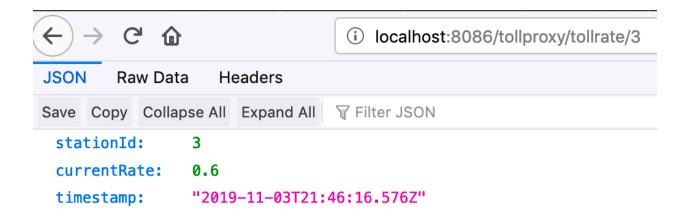


Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Sun Nov 03 16:43:52 EST 2019 There was an unexpected error (type=Not Found, status=404). No message available

24. Change it to any other value, should work!



Scenario 5

Prefix for a Proxy URL

25. Add the following entry in

application.properties

```
# Scenario 5
zuul.prefix = /api
```

26. RESTART Zuul App

Any valid URL requires /api as a prefix

So, the URL of #24 will not work



Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Sun Nov 03 16:51:25 EST 2019
There was an unexpected error (type=Not Found, status=404).
No message available

27. Prefix a /api for the above URL and must work!

