

Application	AMIs	Availability Zones	Status
EMAIL-SERVICE	n/a (1)	(1)	UP (1) - host.docker.internal.email-service:8085
API-GATEWAY	n/a (1)	(1)	UP (1) - host.docker.internal.api-gateway:8080
BOOKING-SERVICE	n/a (1)	(1)	UP (1) - host.docker.internal.booking-service:8082
CONFIG-SERVER	n/a (1)	(1)	UP (1) - host.docker.internal.config-server:8888
FLIGHT-SERVICE	n/a (1)	(1)	UP (1) - host.docker.internal.flight-service:8081

General Info

Project: flight-booking-microservices

Branch: Main Branch

Issues: 0 Open issues, 0 Accepted issues, 0 Security Hotspots, 3.2% Duplications

Reliability: 0 Open issues (A)

Maintainability: 0 Open issues (A)

Coverage: A few extra steps are needed for SonarCloud Cloud to analyze your code coverage. Set up coverage analysis.

Duplications: 3.2% (No conditions set on 4.5k Lines)

Information: Administration

Jacoco coverage:

FlightService:

FlightService												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxt	Missed	Lines	Missed	Methods	Missed	Classes
com.flightservice	37%	n/a	1	2	2	3	1	2	0	1	0	1
com.flightservice.services	100%	100%	0	10	0	40	0	9	0	1	0	1
com.flightservice.controllers	100%	100%	0	8	0	13	0	5	0	1	0	1
Total	5 of 231	97%	0 of 8	100%	1	20	2	56	1	16	0	3

BookingService:

booking-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxt	Missed	Lines	Missed	Methods	Missed	Classes
com.bookingservice	22%	n/a	2	4	5	7	2	4	0	2	0	2
com.bookingservice.kafka	0%	n/a	1	1	2	2	1	1	1	1	1	1
com.bookingservice.services	100%	100%	0	9	0	54	0	8	0	1	0	1
com.bookingservice.config	100%	n/a	0	3	0	7	0	3	0	1	0	1
com.bookingservice.controller	100%	n/a	0	4	0	5	0	4	0	1	0	1
Total	28 of 275	89%	0 of 2	100%	3	21	7	75	3	20	1	6

Docker :

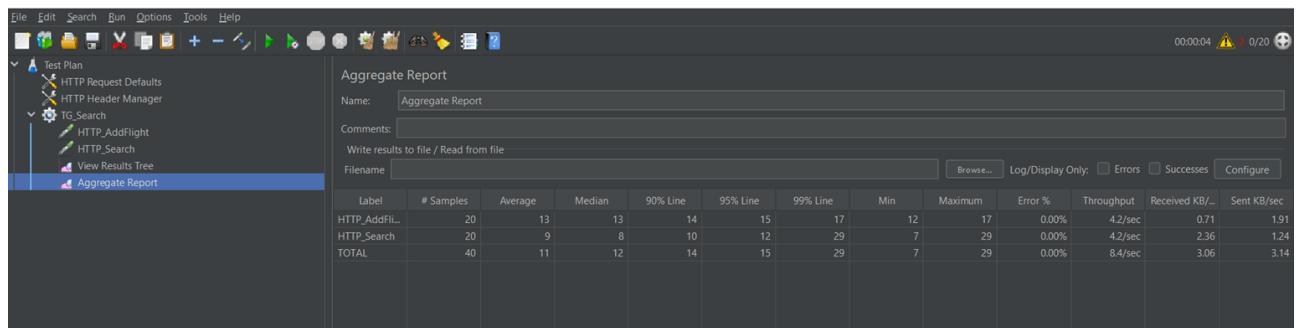
```
D:\Coding\flight-booking-microservices>docker compose up
time="2025-12-09T02:35:10+05:30" level=warning msg="D:\\Coding\\flight-booking-microservices\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 12/12
  ✓ mysql Pulled
    ✓ 6b8812fa3131 Pull complete                                         25.3s
    ✓ 9e7afe780e2d Pull complete                                         10.0s
    ✓ 3a7bd505eaaf Pull complete                                         0.7s
    ✓ 7a5e1e917526 Pull complete                                         10.9s
    ✓ 96682d77f5a0 Pull complete                                         9.7s
    ✓ 0dab5f772d8 Pull complete                                         1.4s
    ✓ 4f1ef7dd76b Pull complete                                         1.4s
    ✓ 8c3cd0b3401b Pull complete                                         18.7s
    ✓ 98c09a3d2404b Pull complete                                         1.7s
    ✓ 5f838d3bc363 Pull complete                                         1.5s
    ✓ a3c731fffd1a3 Pull complete                                         1.4s
Building 27.2s (33/33) FINISHED
=> [internal] load local bake definitions                                0.0s
=> reading from stdin 2.83kB
[+] [eureka-server internal] load build definition from Dockerfile      0.1s
=> transferring dockerfile: 201B
[+] [booking-service internal] load build definition from Dockerfile     0.0s
=> transferring dockerfile: 201B
[+] [api-gateway internal] load build definition from Dockerfile         0.0s
=> transferring dockerfile: 197B
[+] [flight-service internal] load build definition from Dockerfile       0.0s
=> transferring dockerfile: 200B
[+] [config-server internal] load build definition from Dockerfile        0.0s
=> transferring dockerfile: 200B
[+] [eureka-server internal] load metadata for docker.io/library/maven:3.8.5-openjdk-17   0.0s
[+] [config-server internal] load .dockerignore                            0.2s
=> transferring context: 2B                                              0.0s
[+] [api-gateway internal] load .dockerignore                            0.1s
=> transferring context: 2B                                              0.0s
[+] [flight-service internal] load .dockerignore                           0.0s
=> transferring context: 2B                                              0.2s
[+] [eureka-server internal] load .dockerignore                            0.0s
=> transferring context: 2B                                              0.0s
[+] [eureka-server internal] load .oCKERIGNORE                           0.25s
=> transferring context: 2B                                              0.0s
[+] [booking-service internal] load .dockerignore                           0.0s
=> transferring context: 2B                                              0.0s
[+] [flight-service internal] load .oCKERIGNORE                          0.0s
=> resolving docker.io/library/maven:3.8.5-openjdk-17@sha256:3a9c30b3af6278a8ae0007d3a3bf00fff8 14.7s
=> => resolve docker.io/library/maven:3.8.5-openjdk-17@sha256:3a9c30b3af6278a8ae0007d3a3bf00fff80ec3ed7ae4eb9bfa 0.0s
=> => sha256:dbd02ad382f576f7bad77be92e578539a0e0ded2a7551bd6cbf00d8f3812222c5 3558 / 3558 1.0s
=> => sha256:b548970362bbce29f935198803249dea5dd29eae24c3a8cb78ab19e72ef453e5 8578 / 8578 1.5s
=> => sha256:81485058ab895ca07d5a827e381a8123be380344fa5560063f8974aa912513 8.74MB / 8.74MB 2.4s
=> => sha256:3337662e6dc91d95d1636b019b33ee9a379f58e64891eae3ce325ad98d547704 180.14MB / 180.14MB 11.1s
=> => extracting sha256:3337662e6dc91d95d1636b019b33ee9a379f58e64891eae3ce325ad98d547704 3.1s
=> => extracting sha256:81485058ab895ca07d5a827e381a8123be380344fa5560063f8974aa912513 0.1s
=> => extracting sha256:b548970362bbce29f935198803249dea5dd29eae24c3a8cb78ab19e72ef453e5 0.0s
=> => extracting sha256:dbd02ad382f576f7bad77be92e578539a0e0ded2a7551bd6cbf00d8f3812222c5 0.0s
[+] [booking-service internal] load build context                         0.25s
=> transferring context: 375.92kB                                         0.1s
[+] [api-gateway internal] load build context                           0.2s
=> transferring context: 85.99kB                                         0.0s
[+] [eureka-server internal] load build context                         0.2s
=> transferring context: 4.27kB                                         0.0s
[+] [config-server internal] load build context                         0.2s
=> transferring context: 4.62kB                                         0.0s
[+] [flight-service internal] load build context                         0.2s
=> transferring context: 287.59kB                                         0.1s
[+] [api-gateway 2/4] WORKDIR /api-gateway                            1.3s
[+] [flight-service 2/4] WORKDIR /flight-service                        1.3s
[+] [eureka-server 2/4] WORKDIR /eureka-server                         1.3s
[+] [config-server 2/4] WORKDIR /config-service                        1.3s
[+] [booking-service 2/4] WORKDIR /booking-service                     1.3s
[+] [api-gateway 3/4] COPY . .                                         0.2s
[+] [config-server 3/4] COPY . .                                         0.2s
[+] [flight-service 3/4] COPY . .                                         0.2s
```

```
arnLogger : Spring Cloud LoadBalancer is currently working with the default cache. While this cache implementation is useful for development and tests, it's recommended to use Caffeine cache in production. You can switch to using Caffeine cache, by adding it and org.springframework.cache.caffeine.CaffeineCacheManager to the classpath.
eureka-server | 2025-12-08T07:18:22.424Z INFO 68 --- [eureka-server] [main] o.s.c.n.e.eureka.InstanceInfoFactory : Setting initial instance status as: STARTING
eureka-server | 2025-12-08T07:18:23.073Z INFO 68 --- [eureka-server] [main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 1 endpoint(s) beneath base path '/actuator'
eureka-server | 2025-12-08T07:18:23.154Z INFO 68 --- [eureka-server] [main] o.s.c.n.e.s.EurekaServiceRegistry : Registering application EUREKA-SERVER with eureka with status UP
eureka-server | 2025-12-08T07:18:23.175Z INFO 68 --- [eureka-server] [Thread-9] o.s.c.n.e.server.EurekaServerBootstrap : isAws returned false
eureka-server | 2025-12-08T07:18:23.175Z INFO 68 --- [eureka-server] [Thread-9] o.s.c.n.e.server.EurekaServerBootstrap : Initialized server context
eureka-server | 2025-12-08T07:18:23.198Z INFO 68 --- [eureka-server] [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8761 (http) with context path ''
eureka-server | 2025-12-08T07:18:23.202Z INFO 68 --- [eureka-server] [main] .s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 8761
eureka-server | 2025-12-08T07:18:23.243Z INFO 68 --- [eureka-server] [main] c.f.eureka.EurekaServerApplication : Started EurekaServerApplication in 6.567 seconds (process running for 7.172)
eureka-server | 2025-12-08T07:18:23.288Z INFO 68 --- [eureka-server] [Thread-9] e.s.EurekaServerInitializerConfiguration : Started Eureka Server
eureka-server | 2025-12-08T07:18:30.341Z INFO 68 --- [eureka-server] [nio-8761-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
eureka-server | 2025-12-08T07:18:30.342Z INFO 68 --- [eureka-server] [nio-8761-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
eureka-server | 2025-12-08T07:18:30.344Z INFO 68 --- [eureka-server] [nio-8761-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 2 ms
```

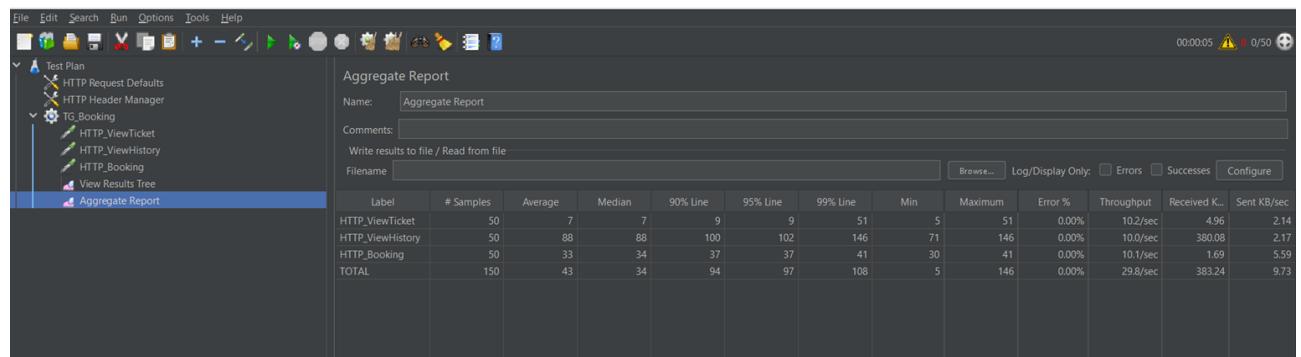

		king/cancel/{pnr}) to Path	
eureka-server		2025-12-08 15:23:43 opt-gateway 2025-12-08T09:53:43.509Z DEBUG 61 --- [security-api-gateway] [freshExecutor-0]	
flight-microservice-eu	8761:8761 ↗	o.s.c.g.r.RouteDefinitionRouteLocator : RouteDefinition booking-cancel applying {_genkey_0-DELETE} to Method	
		2025-12-08 15:23:43 opt-gateway 2025-12-08T09:53:43.510Z DEBUG 61 --- [security-api-gateway] [freshExecutor-0]	
		o.s.c.g.r.RouteDefinitionRouteLocator : RouteDefinition booking-cancel applying filter {_genkey_0-0} to StripPr	
		eftx	
flight-service		2025-12-08 15:23:43 opt-gateway 2025-12-08T09:53:43.512Z DEBUG 61 --- [security-api-gateway] [freshExecutor-0]	
flight-microservice-flig	9001:9001 ↗	o.s.c.g.r.RouteDefinitionRouteLocator : RouteDefinition matched: booking-cancel	
		2025-12-08 15:23:43 opt-gateway 2025-12-08T09:53:43.514Z DEBUG 61 --- [security-api-gateway] [freshExecutor-0]	
		o.s.c.g.filter.GatewayMetricsFilter : New routes count: 11	
flight-mysql		2025-12-08 15:23:45 flight service 2025-12-08 09:53:45 - HTTP GET http://eureka-server:8761/eureka/apps/delta	
mysql:8.0	3307:3306 ↗	2025-12-08 15:23:45 flight service 2025-12-08 09:53:45 - Accept-[application/json, application/*+json]	
		2025-12-08 15:23:45 flight-service 2025-12-08 09:53:45 - Response 200 OK	
		2025-12-08 15:23:45 flight-service 2025-12-08 09:53:45 - Reading to [org.springframework.cloud.netflix.eureka.ht	
		tp.EurekaApplications]	
booking-service		2025-12-08 15:23:45 flight-service 2025-12-08 09:53:45 - HTTP PUT http://eureka-server:8761/eureka/apps/FLIGHT-S	
flight-microservice-bo	9002:9002 ↗	ERVICE/flight-service:50a28305ccedcefc90b77531bfbf68e?status=UP&lastDirtyTimestamp=1765187445114	
		2025-12-08 15:23:45 flight-service 2025-12-08 09:53:45 - Accept-[application/json, application/*+json]	
		2025-12-08 15:23:45 flight-service 2025-12-08 09:53:45 - Response 200 OK	
api-gateway		2025-12-08 15:23:49 booking-service 2025-12-08 09:53:49 - HTTP GET http://eureka-server:8761/eureka/apps/delta	
flight-microservice-ap	8062:8062 ↗	2025-12-08 15:23:49 booking-service 2025-12-08 09:53:49 - Accept-[application/json, application/*+json]	
		2025-12-08 15:23:49 booking-service 2025-12-08 09:53:49 - Response 200 OK	
		2025-12-08 15:23:49 booking-service 2025-12-08 09:53:49 - Reading to [org.springframework.cloud.netflix.eureka.ht	
		tp.EurekaApplications]	
		2025-12-08 15:23:49 booking-service 2025-12-08 09:53:49 - HTTP PUT http://eureka-server:8761/eureka/apps/BOOKING-	
		SERVICE/booking-service:c98cb61224a0f678ab47813fce5a02de?status=UP&lastDirtyTimestamp=1765187449077	
		2025-12-08 15:23:49 booking-service 2025-12-08 09:53:49 - Accept-[application/json, application/*+json]	
		2025-12-08 15:23:49 booking-service 2025-12-08 09:53:49 - Response 200 OK	

Jmeter reports:

For 20 requests:



For 50 requests:



For 100 requests:

