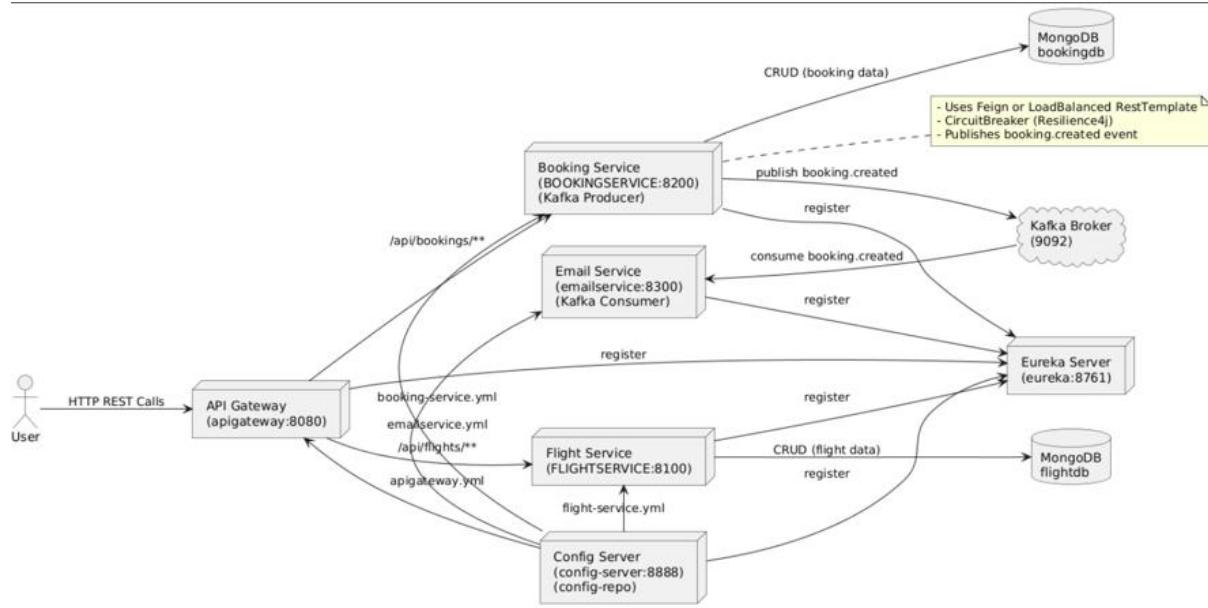


Architecture Diagram



Eureka-server-UI

Instances currently registered with Eureka			
Application	AMIs	Availability Zones	Status
BOOKINGSERVICE	n/a (1)	(1)	UP (1) - chandu:apigateway:8200
APIGATEWAY	n/a (1)	(1)	UP (1) - chandu:apigateway:8080
CONFIG-SERVER	n/a (1)	(1)	UP (1) - chandu:config-server:8888
FLIGHTSERVICE	n/a (1)	(1)	UP (1) - chandu:flightservice:8100
EMAILSERVICE	n/a (1)	(1)	UP (1) - chandu:emailservice:8300

DOCKER-CONTAINERS FOR KAFKA

Container CPU usage ⓘ		Container memory usage ⓘ		Show charts	
3.43% / 800% (8 CPUs available)		544.4MB / 3.68GB			
<input type="text"/> Search		 Only show running containers			
□	Name	Container ID	Image	Port(s)	CPU (%) Last started Actions
□	docker-for-flight-microserv -	-	-	-	1.5% 2 hours ago   
□	kafka	e66ffc2b71be	confluentinc/cp-kafka:late_ 9092:9092 ↗	9092:9092	0.96% 2 hours ago   
□	zookeeper	aee7ca3057d2	confluentinc/cp-zookeeper_ 2181:2181 ↗	2181:2181	0.54% 2 hours ago   

New-Man Report

Newman Report		
Collection	FlightBookingMicroserviceApplication	
Time	Mon Dec 01 2025 17:04:20 GMT+0530 (India Standard Time)	
Exported with	Newman v6.2.1	
	Total	Failed
Iterations	1	0
Requests	8	0
Prerequest Scripts	8	0
Test Scripts	8	0
Assertions	0	0
Total run duration	1884ms	
Total data received	3.29KB (approx)	
Average response time	202ms	
Total Failures	0	

Requests		
to get all flights		
Method	GET	
URL	http://localhost:8080/api/flight/	
Mean time per request	465ms	
Mean size per request	1.91KB	
Total passed tests	0	
Total failed tests	0	
Status code	200	
to book ticket from bookinservice taking help of flight service		
Method	POST	
URL	http://localhost:8080/api/booking/book/1	
Mean time per request	358ms	
Mean size per request	341B	
Total passed tests	0	
Total failed tests	0	
Status code	201	

to search flights by details	
Method	POST
URL	http://localhost:8080/api/booking/getFlights
Mean time per request	66ms
Mean size per request	291B
Total passed tests	0
Total failed tests	0
Status code	200

to get ticket by pnr	
Method	GET
URL	http://localhost:8080/api/booking/getByPnr/PNR20251130G9YA
Mean time per request	69ms
Mean size per request	341B
Total passed tests	0
Total failed tests	0
Status code	200

to delete by pnr	
Method	DELETE
URL	http://localhost:8080/api/booking/delete/PNR20251130G9YA
Mean time per request	47ms
Mean size per request	105B
Total passed tests	0
Total failed tests	0
Status code	200

JACOCO REPORTS

flightservice

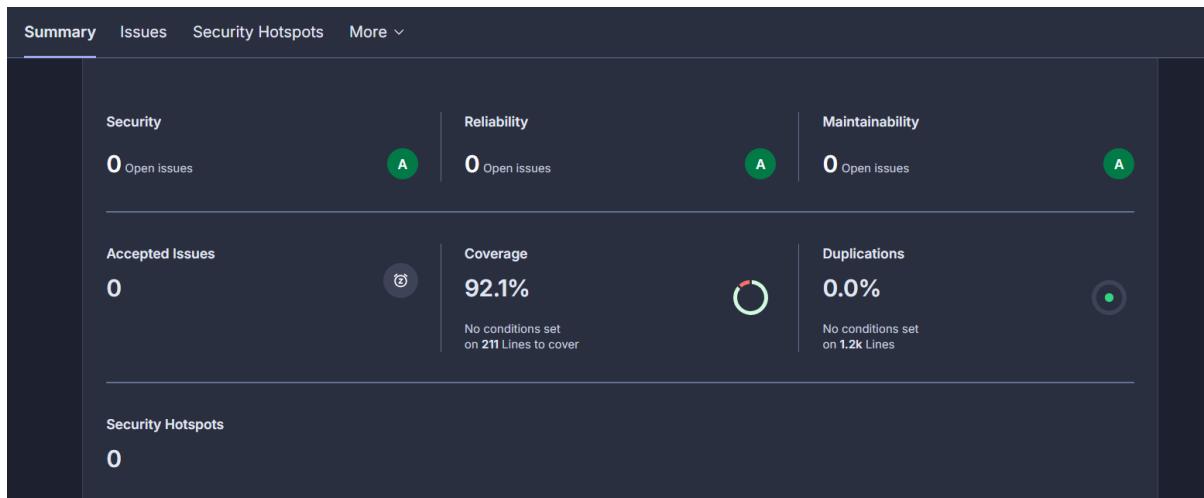
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxtx	Missed	Lines	Missed	Methods	Missed	Classes
com.flightservice.entity		57%		n/a	25	48	12	20	25	48	0	4
com.flightservice.dto		68%		n/a	15	45	4	19	15	45	0	4
com.flightservice		47%		n/a	1	2	2	3	1	2	0	1
com.flightservice.services		100%		100%	0	10	0	40	0	9	0	1
com.flightservice.controllers		100%		100%	0	9	0	14	0	6	0	1
Total	197 of 756	91%	0 of 8	100%	41	114	18	96	41	110	0	11

bookingservice

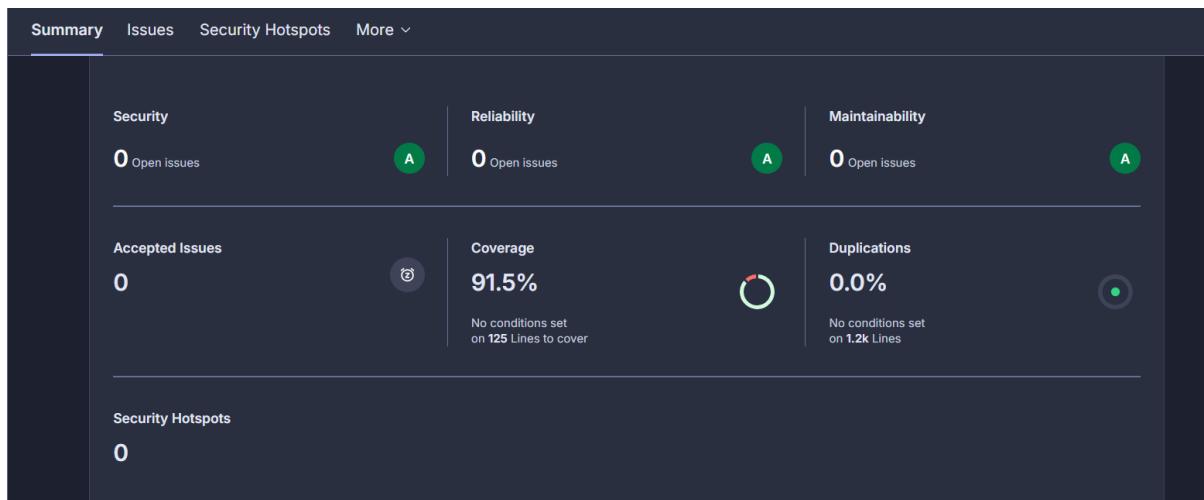
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.bookingservice	22%	n/a	2	4	5	7	2	4	0	2	0	2
com.bookingservice.kafka	0%	n/a	1	1	2	2	1	1	1	1	1	1
com.bookingservice.services	100%	100%	0	9	0	54	0	8	0	8	0	1
com.bookingservice.config	100%	n/a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

SONARQUBE

flightservice



Bookingservice



J-METER TESTING SCREENSHOTS

JMeter Testing Screenshot 1

This screenshot shows the Apache JMeter interface during a test run. The left sidebar displays the 'Test Plan' tree, which includes a 'Thread Group' node expanded to show 'Summary Report', 'View Results Tree', 'HTTP Header Manager', 'Add Inventory', 'Search Flight', 'Booking', 'Search Based on Pnr', 'Get History Based on Email', and 'Delete'. The main panel is titled 'Summary Report' and contains the following configuration:

- Name: Summary Report
- Comments:
- Write results to file / Read from file:
- Filename:
- Buttons: Browse..., Log/Display Only, Errors, Successes, Configure.

The results table below shows performance metrics for various test elements:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/s	Sent KB/s	Avg. Bytes
Add Inventory	20	327	61	731	156.99	75.00%	15.8/sec	106.89	6.40	6612.2
Search Flight	20	147	22	646	151.71	0.00%	11.4/sec	5.28	3.49	424.0
Booking	20	391	129	759	211.60	0.00%	9.7/sec	4.35	5.96	397.5
Search Based ...	20	129	26	404	107.03	0.00%	11.4/sec	9.37	2.13	820.4
Get History Ba...	20	346	134	803	175.52	0.00%	9.6/sec	107.59	1.97	11475.0
Delete	20	319	85	599	141.96	100.00%	10.2/sec	68.34	2.23	6885.7
TOTAL	120	276	22	803	189.58	29.17%	45.1/sec	397.89	13.53	4694.2

At the bottom of the main panel, there are buttons for 'Include group name in label?', 'Save Table Data', and 'Save Table Header'.

JMeter Testing Screenshot 2

This screenshot shows the Apache JMeter interface during a test run, similar to the first one. The left sidebar displays the 'Test Plan' tree, which includes a 'Thread Group' node expanded to show 'Summary Report', 'View Results Tree', 'HTTP Header Manager', 'Add Inventory', 'Search Flight', 'Booking', 'Search Based on Pnr', 'Get History Based on Email', and 'Delete'. The main panel is titled 'Summary Report' and contains the following configuration:

- Name: Summary Report
- Comments:
- Write results to file / Read from file:
- Filename:
- Buttons: Browse..., Log/Display Only, Errors, Successes, Configure.

The results table below shows performance metrics for various test elements:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/s	Sent KB/s	Avg. Bytes
Add Inventory	50	246	15	911	217.13	98.00%	27.2/sec	193.37	10.26	7278.6
Search Flight	50	148	8	606	139.44	0.00%	23.8/sec	8.08	7.28	388.0
Booking	50	308	24	824	268.79	100.00%	22.5/sec	165.35	12.81	7382.3
Search Based on Pnr	50	223	15	928	253.19	96.00%	22.6/sec	156.67	4.24	7386.4
Get History Based on Email	50	230	8	764	210.96	96.00%	22.2/sec	155.83	4.52	7177.4
Delete	50	139	8	751	180.25	98.00%	22.0/sec	135.85	4.78	7245.3
TOTAL	300	215	8	928	200.58	81.33%	127.7/sec	759.90	44.03	6095.4

At the bottom of the main panel, there are buttons for 'Include group name in label?', 'Save Table Data', and 'Save Table Header'.

Thread Group (C:\Users\All\Desktop\Thread Group.jmx) - Apache JMeter [5.6]

File Edit Search Run Options Tools Help

00:00:03 ⚠ 0 0/190

Test Plan

- Thread Group
 - Summary Report
 - Vine Results Tree
 - HTTP Header Manager
 - Add Inventory
 - Search Flight
 - Booking
 - Search Based on Pin
 - Get History Based on Email
 - Delete

Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

Filename:

Advanced Log/Display Only: Errors Successes Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/s	Sent KB/s	Avg. Bytes
Add Inventory	100	533	13	1883	495.68	99.00%	40.8/sec	292.84	24.37	7352.7
Search Flight	100	443	6	1636	387.84	0.00%	34.8/sec	13.18	15.64	388.0
Booking	100	638	24	1892	408.09	100.00%	27.7/sec	195.44	15.45	7382.8
Search Based on Pin	100	563	9	1139	288.12	94.00%	26.4/sec	179.91	4.98	6969.5
Get History Based on Email	100	261	9	1211	235.79	95.00%	25.6/sec	179.56	5.25	7111.1
Delete	100	193	7	1049	240.79	97.00%	25.8/sec	180.56	5.59	7172.0
TOTAL	600	405	6	1802	387.96	80.83%	151.2/sec	895.25	52.15	6062.7

Include group name in label Save Table Data Save Table Header