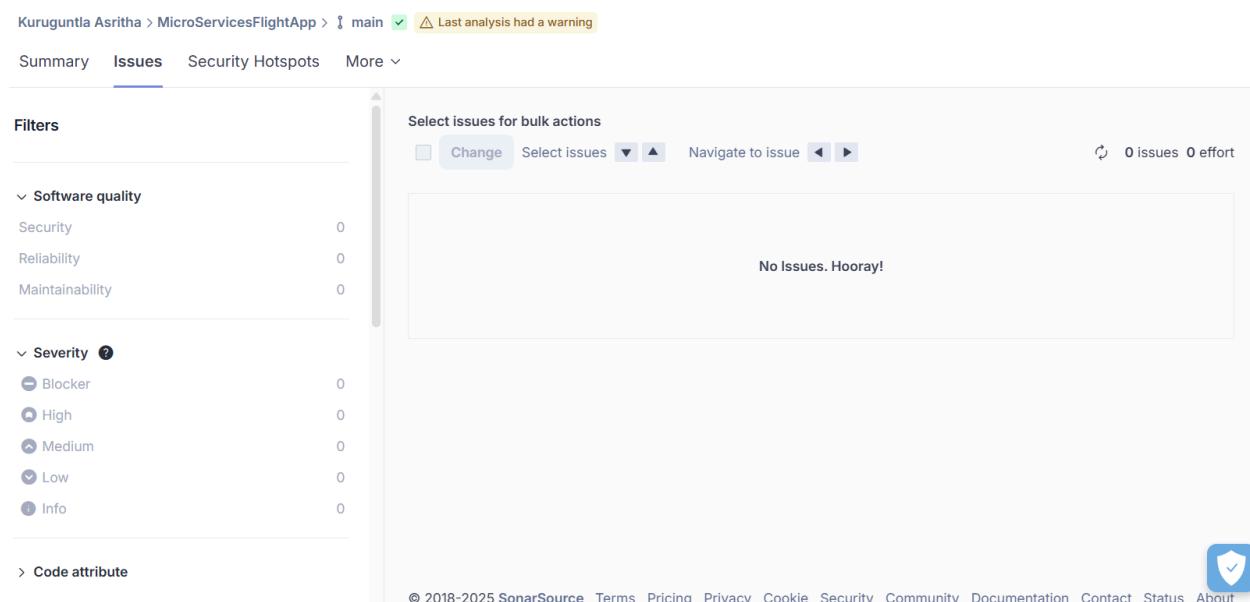
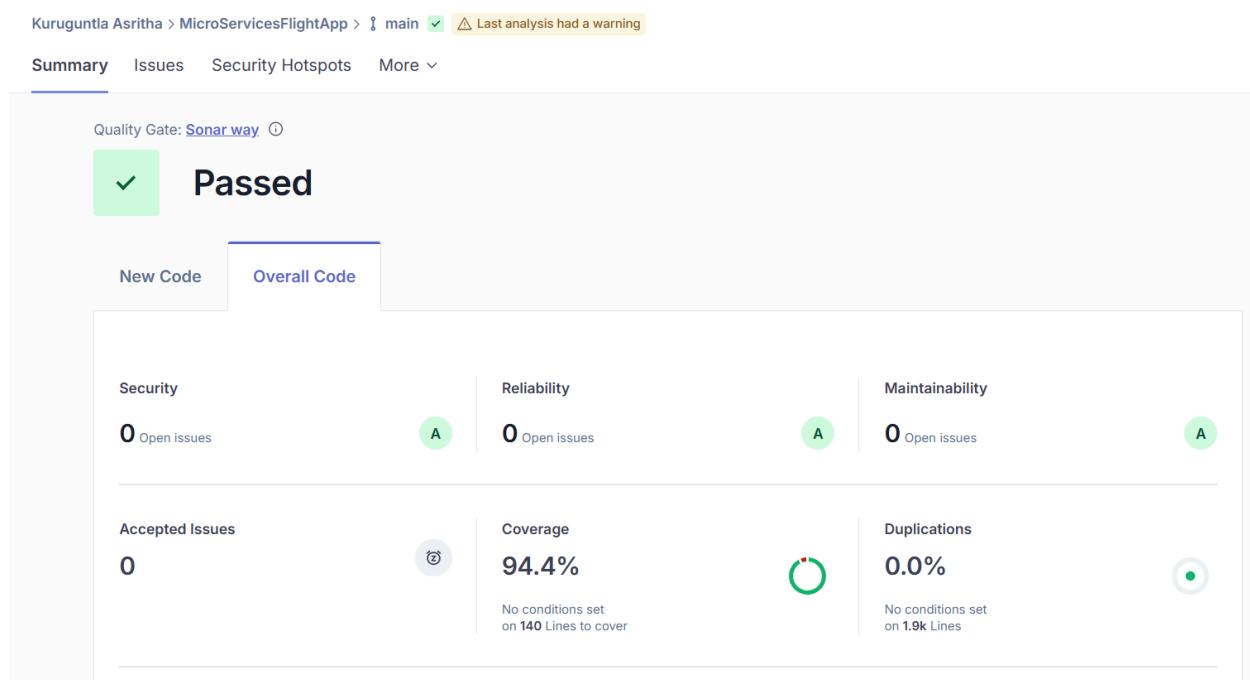


# Sonar Qube Analysis:



# Jacoco Reports

passenger-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.example.service	<div style="width: 88%;">███████████</div>	88%	n/a	0	8	2	20	0	8	0	1	
com.example	<div style="width: 100%;">██████████</div>	100%	n/a	0	3	0	10	0	3	0	1	
com.example.controller	<div style="width: 100%;">██████████</div>	100%	n/a	0	5	0	5	0	5	0	1	
com.example.exception	<div style="width: 100%;">██████████</div>	100%	n/a	0	1	0	2	0	1	0	1	
Total	14 of 199	92%	0 of 0	n/a	0	17	2	37	0	17	0	4

flight-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.example.service	<div style="width: 100%;">██████████</div>	100%	n/a	0	7	0	15	0	7	0	1	
com.example	<div style="width: 100%;">██████████</div>	100%	n/a	0	3	0	10	0	3	0	1	
com.example.controller	<div style="width: 100%;">██████████</div>	100%	n/a	0	5	0	5	0	5	0	1	
com.example.exception	<div style="width: 100%;">██████████</div>	100%	n/a	0	1	0	2	0	1	0	1	
Total	0 of 172	100%	0 of 0	n/a	0	16	0	32	0	16	0	4

ticket-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.example.service	<div style="width: 94%;">███████████</div>	94%	<div style="width: 50%;">██████████</div>	50%	2	9	1	30	1	8	0	1
com.example	<div style="width: 100%;">██████████</div>	100%	n/a	0	3	0	10	0	3	0	1	
com.example.controller	<div style="width: 100%;">██████████</div>	100%	n/a	0	4	0	4	0	4	0	1	
com.example.exception	<div style="width: 100%;">██████████</div>	100%	n/a	0	1	0	2	0	1	0	1	
Total	10 of 252	96%	1 of 2	50%	2	17	1	46	1	16	0	4

Kafka:

```
[2025-12-01T15:13:43.402+05:30] [ticket-booked-0] INFO 17908 --- [email-service] [Container#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket booked for passengerId=53, flightId=1, pnr=0c92d8ab
```

Messages logged when ticket booked

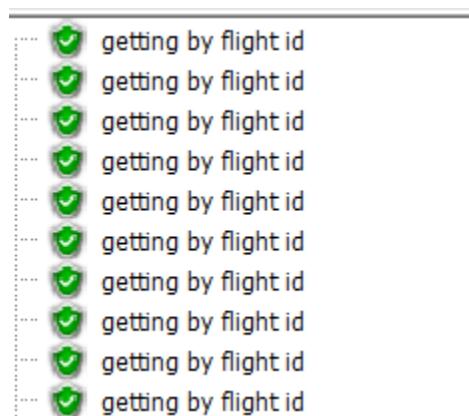
Jmeter:

FlightService:

10 threads

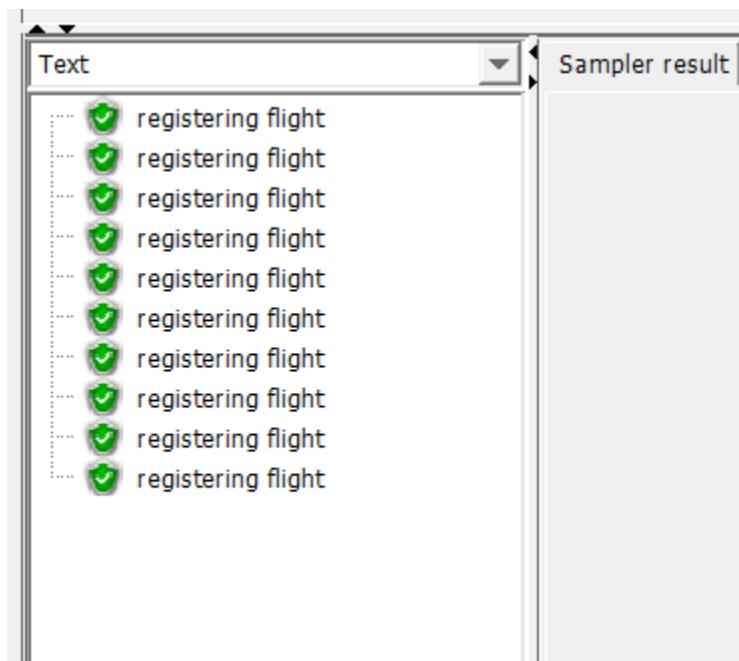
Getting by flight id:

Summary Report										
Name:	Summary Report									
Comments:										
Write results to file / Read from file	<input type="checkbox"/> Browse... Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes <input type="checkbox"/> Configure									
Filename										
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
getting by flight id	20	34	15	112	29.55	0.00%	4.7/sec	1.37	0.71	296.0
TOTAL	20	34	15	112	29.55	0.00%	4.7/sec	1.37	0.71	296.0



Registering a flight:(post request)

Summary Report										
Name:	Summary Report									
Comments:										
Write results to file / Read from file										
Filename										
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP Request	10	30	19	54	9.78	0.00%	10.6/sec	1.38	3.96	133.0
TOTAL	10	30	19	54	9.78	0.00%	10.6/sec	1.38	3.96	133.0



50 threads:

### Get request

Summary Report										
Name:	Summary Report									
Comments:										
Write results to file / Read from file										
Filename										
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
getting by flight id	50	23	14	45	6.31	0.00%	50.3/sec	14.56	9.09	296.3
TOTAL	50	23	14	45	6.31	0.00%	50.3/sec	14.56	9.09	296.3

Post request:

Summary Report										
<input type="checkbox"/> Write results to file / Read from file <input type="text"/> Filename										
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
registering flight	50	26	14	49	8.15	0.00%	51.3/sec	6.68	19.18	133.5
TOTAL	50	26	14	49	8.15	0.00%	51.3/sec	6.68	19.18	133.5

## Passenger Service:

10 threads

Registering a passenger

Summary Report										
<input type="checkbox"/> Write results to file / Read from file <input type="text"/> Filename										
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
registering passen...	10	129	34	391	117.17	90.00%	10.7/sec	2.63	3.85	251.8
TOTAL	10	129	34	391	117.17	90.00%	10.7/sec	2.63	3.85	251.8

The screenshot shows a JMeter interface with two main components. On the left, a 'Text' listener is open, displaying a list of 10 entries under the label 'registering passengers'. The first entry is green (success), while the remaining nine are red (failure). On the right, a 'Sampler result' viewer is visible, showing a blank or partially loaded list.

Label	Count	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
registering passengers	10	129	34	391	117.17	90.00%	10.7/sec	2.63	3.85	251.8
TOTAL	10	129	34	391	117.17	90.00%	10.7/sec	2.63	3.85	251.8

50 threads:

## Ticket service:

10 threads

## Booking ticket

**Summary Report**

Name:

Comments:

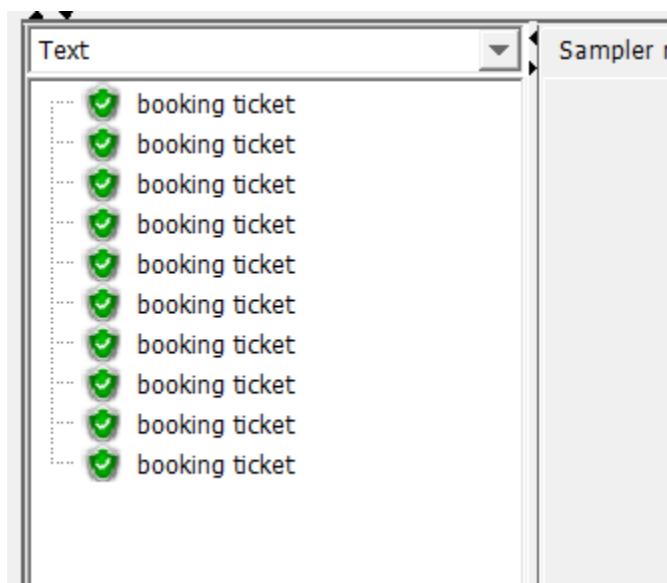
Write results to file / Read from file

Filename   Log/Display Only:  Errors  Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
booking ticket	10	30	15	109	26.61	0.00%	10.9/sec	1.31	2.76	123.0
TOTAL	10	30	15	109	26.61	0.00%	10.9/sec	1.31	2.76	123.0

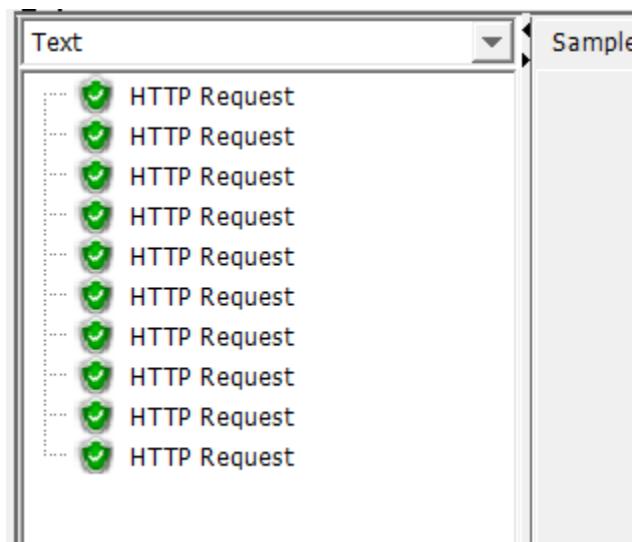
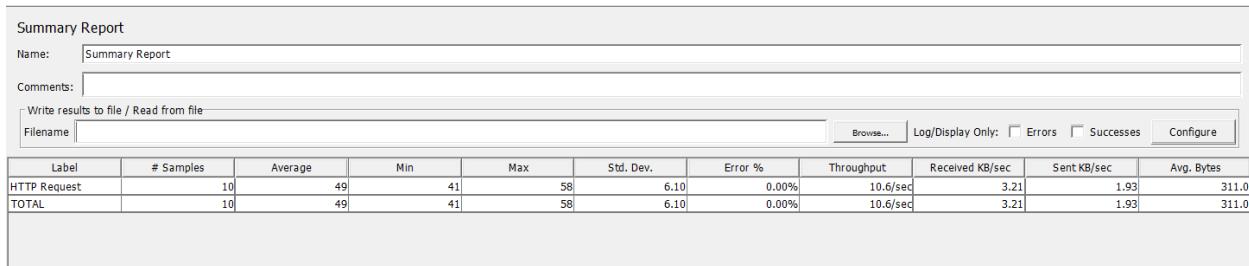
Kafka email-service

```
-group=1, groupId=email-group] Node -1 disconnected.  
2025-12-01T15:42:07.587+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=5381d9d2  
2025-12-01T15:42:07.651+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=8fbfd768c  
2025-12-01T15:42:07.653+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=9dd1d1ad3  
2025-12-01T15:42:07.666+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=5d6b83fc  
2025-12-01T15:42:07.728+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=380e342b  
2025-12-01T15:42:07.831+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=98fcc235  
2025-12-01T15:42:07.925+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=5c10b4b7  
2025-12-01T15:42:08.023+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=49d2f0ba  
2025-12-01T15:42:08.124+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=f6fd7fs39  
2025-12-01T15:42:08.216+05:30 INFO 24064 --- [email-service] [ntainer#0-0-C-1] c.example.demo.listener.EmailListener : ? Email-service received: Ticket  
booked for passengerId=53, flightId=1, pnr=ebcf5a39
```



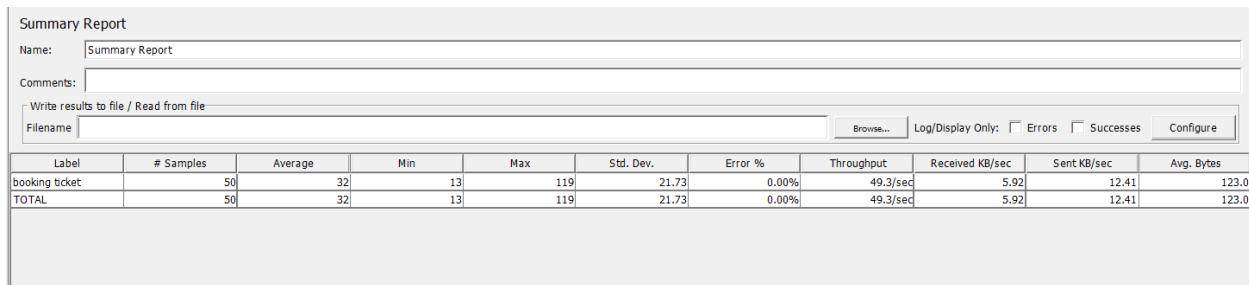
Get request:

Get by pnr



50 threads:

Post request



## Get request:

Summary Report

Name:

Comments:

Write results to file / Read from file  
   Log/Display Only:  Errors  Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP Request	50	88	37	241	51.29	0.00%	47.8/sec	14.53	8.74	311.0
TOTAL	50	88	37	241	51.29	0.00%	47.8/sec	14.53	8.74	311.0