

flightApp-microservices-security-docker

After launching all microservices with Docker Compose

Docker compose up

Eureka:

localhost:8761/

The screenshot shows the Eureka UI interface. At the top, there are two configuration sections: 'Renews threshold' set to 10 and 'Renews (last min)' set to 8. Below this is a section titled 'DS Replicas' with a dropdown menu set to 'localhost'. A table lists five instances registered with Eureka, each with its application name, number of instances, availability zones, and status. The instances are: API-GATEWAY-FLIGHTBOOKING, AUTH-SERVICE-FLIGHTBOOKING, BOOKING-SERVICE-FLIGHTBOOKING, CONFIG-SERVER-FLIGHTBOOKING, and FLIGHT-SERVICE-FLIGHTBOOKING. All instances are marked as UP. At the bottom, there is a 'General Info' section with a table showing system metrics: total-available-memory (83mb) and number-of-cpus (16).

Application	AMIs	Availability Zones	Status
API-GATEWAY-FLIGHTBOOKING	n/a (1)	(1)	UP (1) - 44db5d118cc3.api-gateway-flightbooking:8084
AUTH-SERVICE-FLIGHTBOOKING	n/a (1)	(1)	UP (1) - a1c350f903de.auth-service-flightbooking:8083
BOOKING-SERVICE-FLIGHTBOOKING	n/a (1)	(1)	UP (1) - 82ee972750a3.booking-service-flightbooking:8082
CONFIG-SERVER-FLIGHTBOOKING	n/a (1)	(1)	UP (1) - 177b79a872c8.config-server-flightbooking:8888
FLIGHT-SERVICE-FLIGHTBOOKING	n/a (1)	(1)	UP (1) - ffdecbe05547.flight-service-flightbooking:8081

Name	Value
total-avail-memory	83mb
num-of-cpus	16

Postman API Testing

Via API GATEWAY

Register:

Role-ADMIN

Status-201 Created

The screenshot shows a Postman request to `http://localhost:8084/api/auth/register`. The request method is POST. The body contains the following JSON:

```
1 {
2   "username": "admin3",
3   "email": "admin3@gmail.com",
4   "password": "admin3",
5   "roles": ["ADMIN"]
6 }
```

The response status is 201 Created, with a response time of 534 ms and a response size of 422 B. The response body is:

```
1 {
2   "message": "User registered successfully"
3 }
```

Login :

Token is generated

The screenshot shows a Postman request to `http://localhost:8084/api/auth/login`. The request method is POST. The body contains the following JSON:

```
1 {
2   "email": "admin@gmail.com",
3   "password": "admin123"
4 }
```

The response status is 200 OK, with a response time of 417 ms and a response size of 643 B. The response body is:

```
1 {
2   "token": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJhZG1pbkBnbWFpbC5jb20iLCJ1c2VybmtFZSI6ImFkbWluIiwicm9sZXMiOlsiQURNSU4iXSwiaWF0IjoxNzY1MTg1MDU1LCJleHAiOjE3NjUyNzE0NTV9.A-0KLtzXA2ViZ8NHVi0WczzKbsk0csnQrYKa6McZRo",
3   "username": "admin",
4   "email": "admin@gmail.com",
5   "roles": [
6     "ADMIN"
7   ]
8 }
```

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Add Flights:

Accessible only to Admin

The screenshot shows a Postman request to `http://localhost:8084/api/flight/airline/inventory/add`. The request method is `POST`. The body contains the following JSON payload:

```
1 {
2     "airlineName": "Indigo",
3     "flightNumber": "6E489",
4     "totalSeats": 180,
5     "priceOneWay": 5500,
6     "departureTime": "2026-12-10T09:30:00",
7     "arrivalTime": "2026-12-10T11:00:00",
8     "fromPlace": "Hyderabad",
9     "toPlace": "Delhi",
10    "tripType": "ONE WAY"
11 }
12
```

The response status is `201 Created` with a response time of 574 ms and a response size of 145 B. The response body is a token: `6936b838bd3af55106982049`.

Authorization is added in header

Token generated when admin login, is added here

The screenshot shows a Postman request to `http://localhost:8084/api/flight/airline/inventory/add`. The request method is `POST`. The headers section includes the following entries:

Key	Description
Content-Type	application/json
Content-Length	<calculated when request is sent>
Host	<calculated when request is sent>
User-Agent	PostmanRuntime/7.49.1
Accept	*/*
Accept-Encoding	gzip, deflate, br
Connection	keep-alive
Authorization	Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWliOiJhZG1pb...

The response status is `201 Created` with a response time of 574 ms and a response size of 145 B. The response body is a token: `6936b838bd3af55106982049`.

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Search

Public – can be accessed by anyone

The screenshot shows a Postman request for the endpoint `http://localhost:8084/api/flight/search`. The request method is POST. The request body is a JSON object:

```
1 {
2   "fromPlace": "Hyderabad",
3   "toPlace": "Bangalore",
4   "journeyDate": "2025-12-10",
5   "tripType": "ONE-WAY"
6 }
```

The response status is 200 OK, with a response time of 46 ms, a response size of 384 B, and a response body:

```
1 [
2   {
3     "flightId": "6930cbd877157c2d5b251bf5",
4     "departureTime": "2025-12-10T10:00:00",
5     "arrivalTime": "2025-12-10T12:00:00",
6     "airlineName": "Indigo",
7     "priceOneWay": 3500.0,
8     "priceRoundTrip": 0.0,
9     "tripType": "ONE-WAY",
10    "availableSeats": 110
11  }
12 ]
```

Register

Role-user

Status-201 Created

The screenshot shows a Postman request for the endpoint `http://localhost:8084/api/auth/register`. The request method is POST. The request body is a JSON object:

```
1 {
2   "username": "user1234",
3   "email": "user1234@gmail.com",
4   "password": "user1234",
5   "roles": ["USER"]
6 }
```

The response status is 201 Created, with a response time of 106 ms, a response size of 422 B, and a response body:

```
1 {
2   "message": "User registered successfully"
3 }
```

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Login

The screenshot shows a Postman request to `http://localhost:8084/api/auth/login`. The request method is POST, and the body is a JSON object:

```
1 {
2   "email": "user@gmail.com",
3   "password": "user123"
4 }
```

The response status is 200 OK, with a response time of 315 ms and a response size of 636 B. The response body is:

```
1 {
2   "token": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJ1c2VyQGdtYWlsLmNvbSIsInVzZXJuYW1lIjoidXNlcisInJvbGVzIjpbIlVTRVIxSwiaWF0IjoxNzY1MTkzMzk3LCJleHAiOjE3NjUyNzk3OTd9.8gxHxj0Rx7z74XriK1Pn6rsU14b3QlcYerD9SEhfWKg",
3   "username": "user",
4   "email": "user@gmail.com",
5   "roles": [
6     "USER"
7   ]
8 }
```

Booking by using id:

The screenshot shows a Postman request to `http://localhost:8084/api/booking/6936b838bd3af55106982049`. The request method is POST, and the body is a JSON object:

```
1 {
2   "customerName": "Shivani",
3   "email": "shivani@gmail.com",
4   "numberOfSeats": 2,
5   "journeyDate": "2026-12-10",
6   "seatNumbers": "12A,12B",
7   "mealPreference": "VEG",
8   "passengers": [
9     { "name": "Sravya", "gender": "F", "age": 21 },
10    { "name": "Anu", "gender": "F", "age": 22 }
11  ]
12 }
```

The response status is 201 Created, with a response time of 366 ms and a response size of 577 B. The response body is:

```
1 {
2   "pnr": "ZAHUH85Z",
3   "customerName": "Shivani",
4   "email": "shivani@gmail.com",
5   "fromPlace": "Hyderabad",
6   "toPlace": "Delhi",
```

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Authorization is added in header

The screenshot shows a Postman request to `http://localhost:8084/api/booking/6936b838bd3af55106982049`. The Headers tab is selected, showing the following configuration:

Key	Value	Description
Content-Type	application/json	
Content-Length	<calculated when request is sent>	
Host	<calculated when request is sent>	
User-Agent	PostmanRuntime/7.49.1	
Accept	*/*	
Accept-Encoding	gzip, deflate, br	
Connection	keep-alive	
Authorization	Bearer eyJhbGciOiJIUzI1NiJ9eyJzdWlOIj1c2VyQ...	

The response status is **201 Created** with a time of **366 ms** and a size of **577 B**. The JSON response body is:

```
1 {  
2   "pnr": "ZAHUH85Z",  
3   "customerName": "Shivani",  
4   "email": "shivani@gmail.com",  
5   "fromPlace": "Hyderabad",  
6   "toPlace": "Delhi",  
7   "journeyDate": "2026-12-10",  
8   "departureTime": "2026-12-10T09:30:00",  
9   "arrivalTime": "2026-12-10T11:00:00",  
10  "airlineName": "Indigo",  
11  "numberOfSeats": 2,  
12  "seatNumbers": "12A,12B",  
13  "mealPreference": "VEG",  
14  "cancelled": false,  
15 }
```

Get details by PNR:

The screenshot shows a Postman request to `http://localhost:8084/api/booking/ticket/ZAHUH85Z`. The Headers tab is selected, showing the following configuration:

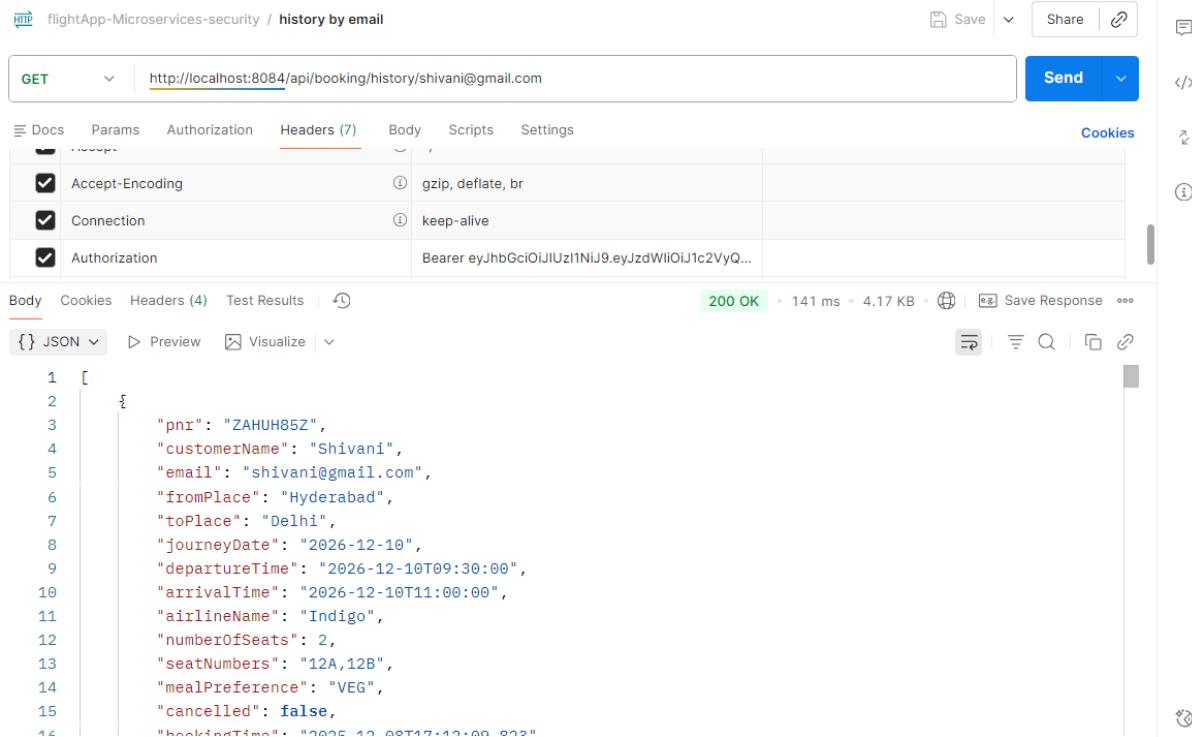
Key	Value	Description
Accept-Encoding	gzip, deflate, br	
Connection	keep-alive	
Authorization	Bearer eyJhbGciOiJIUzI1NiJ9eyJzdWlOIj1c2VyQ...	

The response status is **200 OK** with a time of **143 ms** and a size of **568 B**. The JSON response body is:

```
1 {  
2   "pnr": "ZAHUH85Z",  
3   "customerName": "Shivani",  
4   "email": "shivani@gmail.com",  
5   "fromPlace": "Hyderabad",  
6   "toPlace": "Delhi",  
7   "journeyDate": "2026-12-10",  
8   "departureTime": "2026-12-10T09:30:00",  
9   "arrivalTime": "2026-12-10T11:00:00",  
10  "airlineName": "Indigo",  
11  "numberOfSeats": 2,  
12  "seatNumbers": "12A,12B",  
13  "mealPreference": "VEG",  
14  "cancelled": false,  
15 }
```

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Get history by email



flightApp-Microservices-security / history by email

GET <http://localhost:8084/api/booking/history/shivani@gmail.com>

Headers (7)

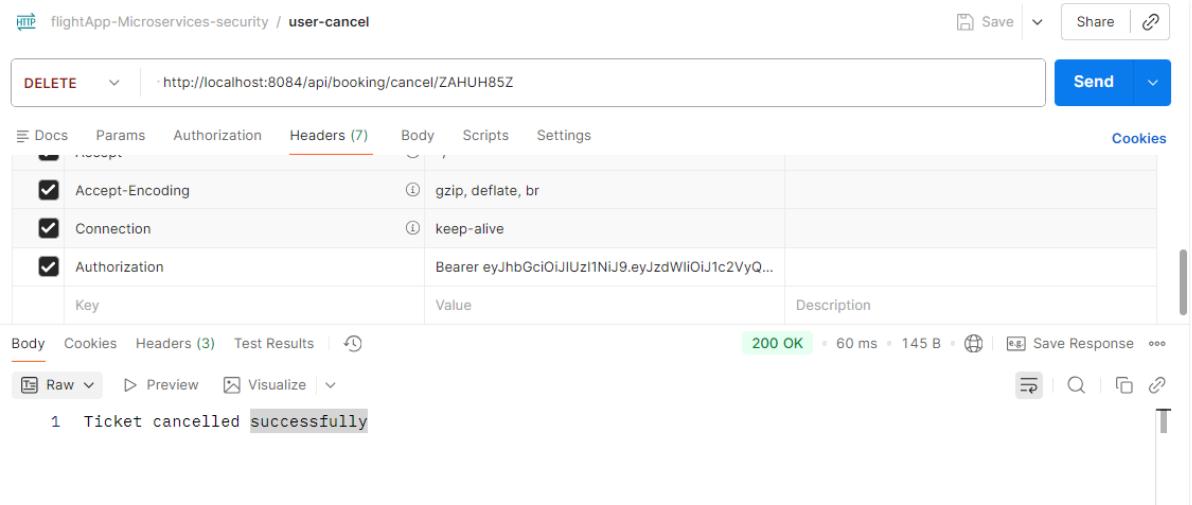
- Accept
- Accept-Encoding: gzip, deflate, br
- Connection: keep-alive
- Authorization: Bearer eyJhbGciOiJIUzI1NiJ9eyJzdWIiOiJ1c2VyQ...

Body Cookies Headers (4) Test Results

{ } JSON ▾ ▷ Preview Visualize

```
[{"pnr": "ZAHUH85Z", "customerName": "Shivani", "email": "shivani@gmail.com", "fromPlace": "Hyderabad", "toPlace": "Delhi", "journeyDate": "2026-12-10", "departureTime": "2026-12-10T09:30:00", "arrivalTime": "2026-12-10T11:00:00", "airlineName": "Indigo", "numberOfSeats": 2, "seatNumbers": "12A,12B", "mealPreference": "VEG", "cancelled": false, "bookingTime": "2025-12-08T17:10:00.000Z"}]
```

Cancel ticket by using PNR



flightApp-Microservices-security / user-cancel

DELETE <http://localhost:8084/api/booking/cancel/ZAHUH85Z>

Headers (7)

- Accept-Encoding: gzip, deflate, br
- Connection: keep-alive
- Authorization: Bearer eyJhbGciOiJIUzI1NiJ9eyJzdWIiOiJ1c2VyQ...

Body Cookies Headers (3) Test Results

{ } Raw ▾ ▷ Preview Visualize

```
1 Ticket cancelled successfully
```

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User trying to add flight

Fails

The screenshot shows a POST request to <http://localhost:8084/api/flight/airline/inventory/add>. The request body is a JSON object representing a flight. The response status is 403 Forbidden, with a response time of 18 ms and a response size of 45 B.

```
POST http://localhost:8084/api/flight/airline/inventory/add
```

```
1 {  
2   "airlineName": "Indigo",  
3   "flightNumber": "6E4891",  
4   "totalSeats": 180,  
5   "priceOneWay": 5500,  
6   "departureTime": "2026-12-11T09:30:00",  
7   "arrivalTime": "2026-12-11T11:00:00",  
8   "fromPlace": "Hyderabad",  
9   "toPlace": "Delhi",  
10  "tripType": "ONE WAY"  
11 }  
12
```

403 Forbidden | 18 ms | 45 B | Save Response