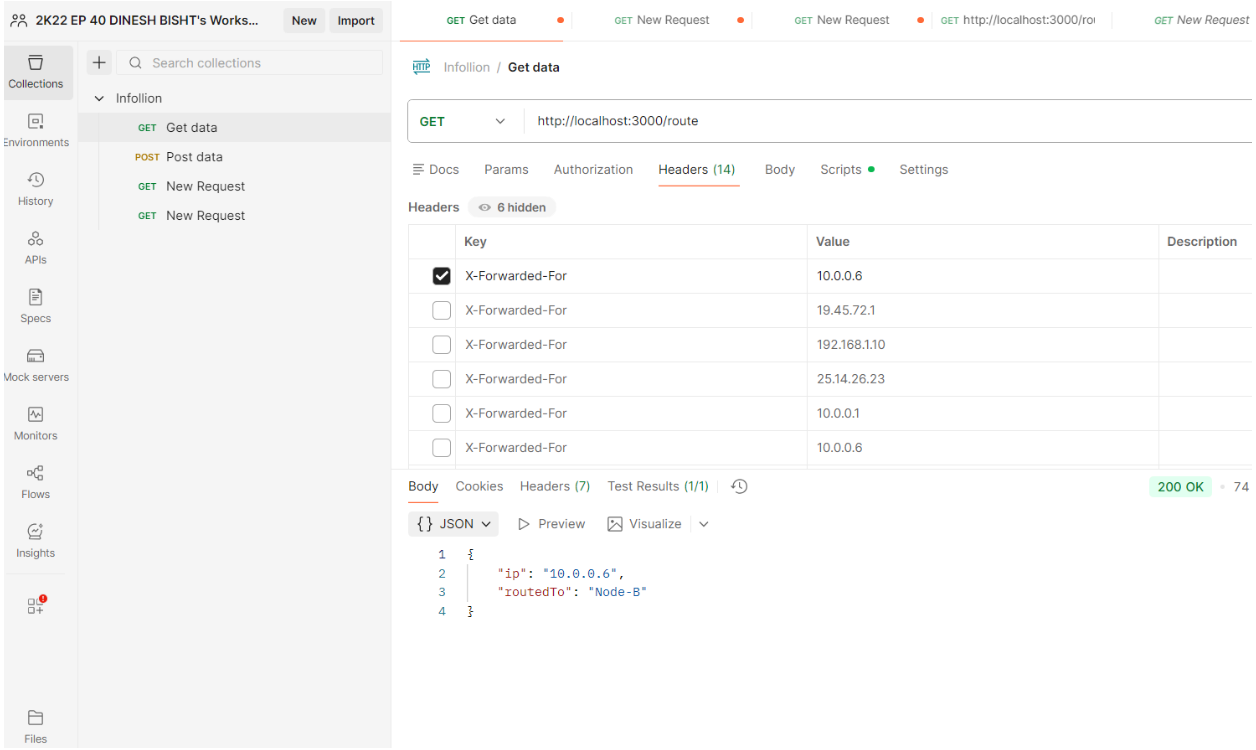
POSTMAN REQUESTS

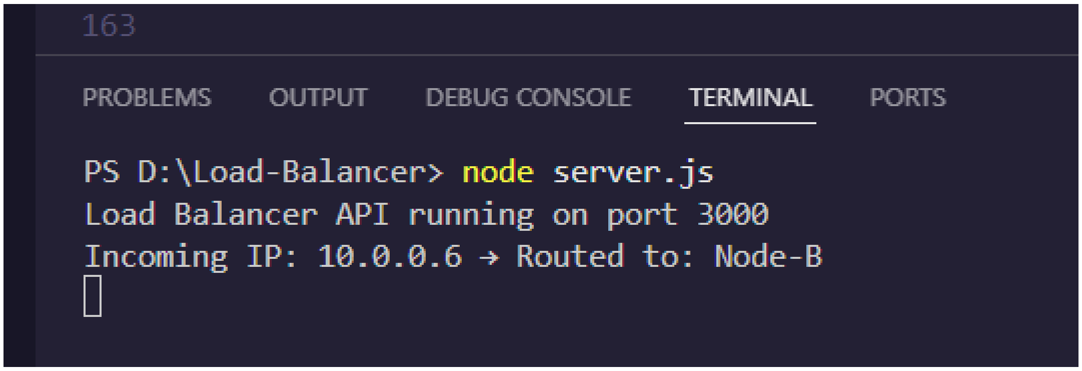
Click Here 👉 [PostMan Collections]



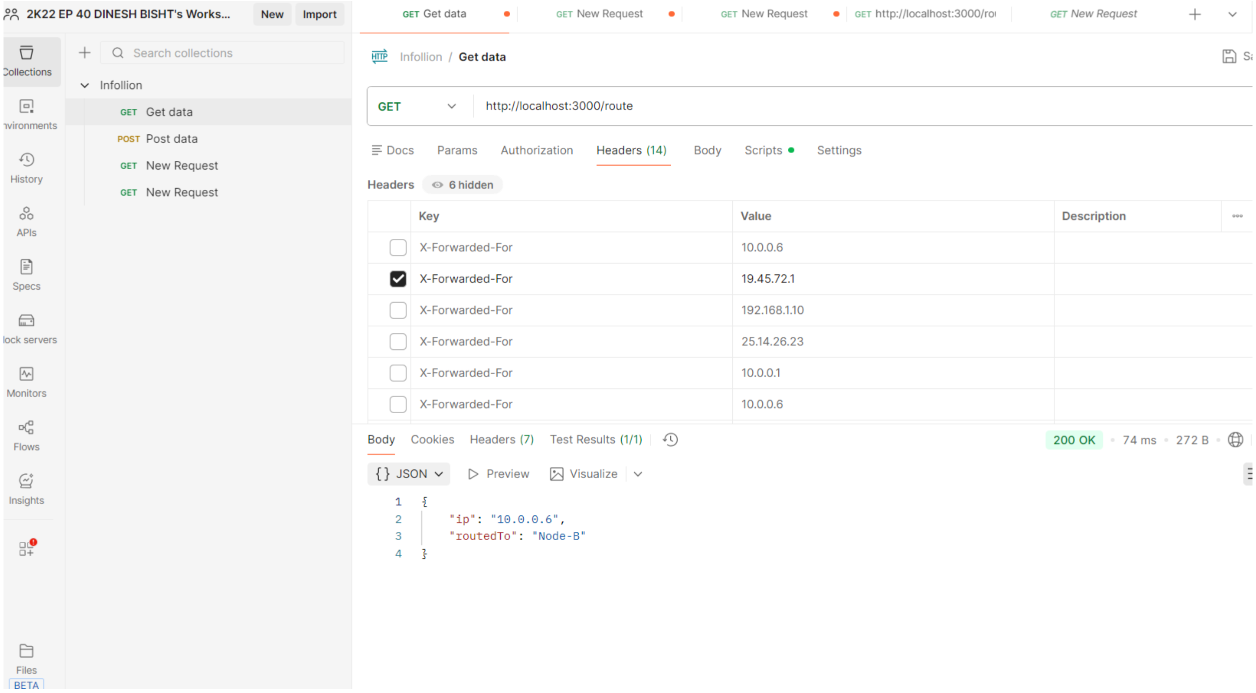
GET http://localhost:3000/route

	Key	Value	Description
☑	X-Forwarded-For	10.0.0.6	
□	X-Forwarded-For	19.45.72.1	
□	X-Forwarded-For	192.168.1.10	
□	X-Forwarded-For	25.14.26.23	
□	X-Forwarded-For	10.0.0.1	
□	X-Forwarded-For	10.0.0.6	

```
{
    "ip": "10.0.0.6",
    "routedTo": "Node-B"
}
```



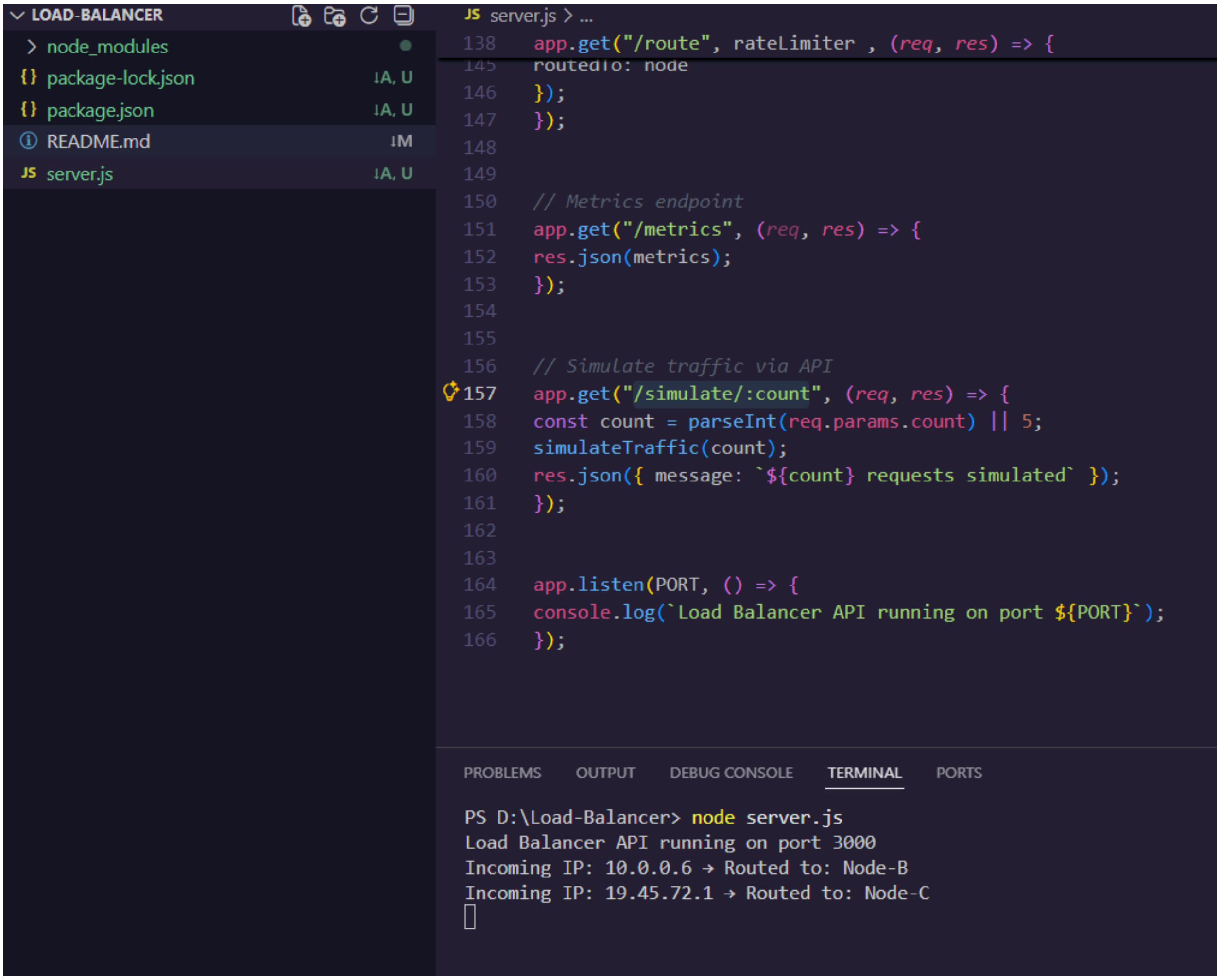
```
PS D:\Load-Balancer> node server.js
Load Balancer API running on port 3000
Incoming IP: 10.0.0.6 → Routed to: Node-B
```



GET http://localhost:3000/route

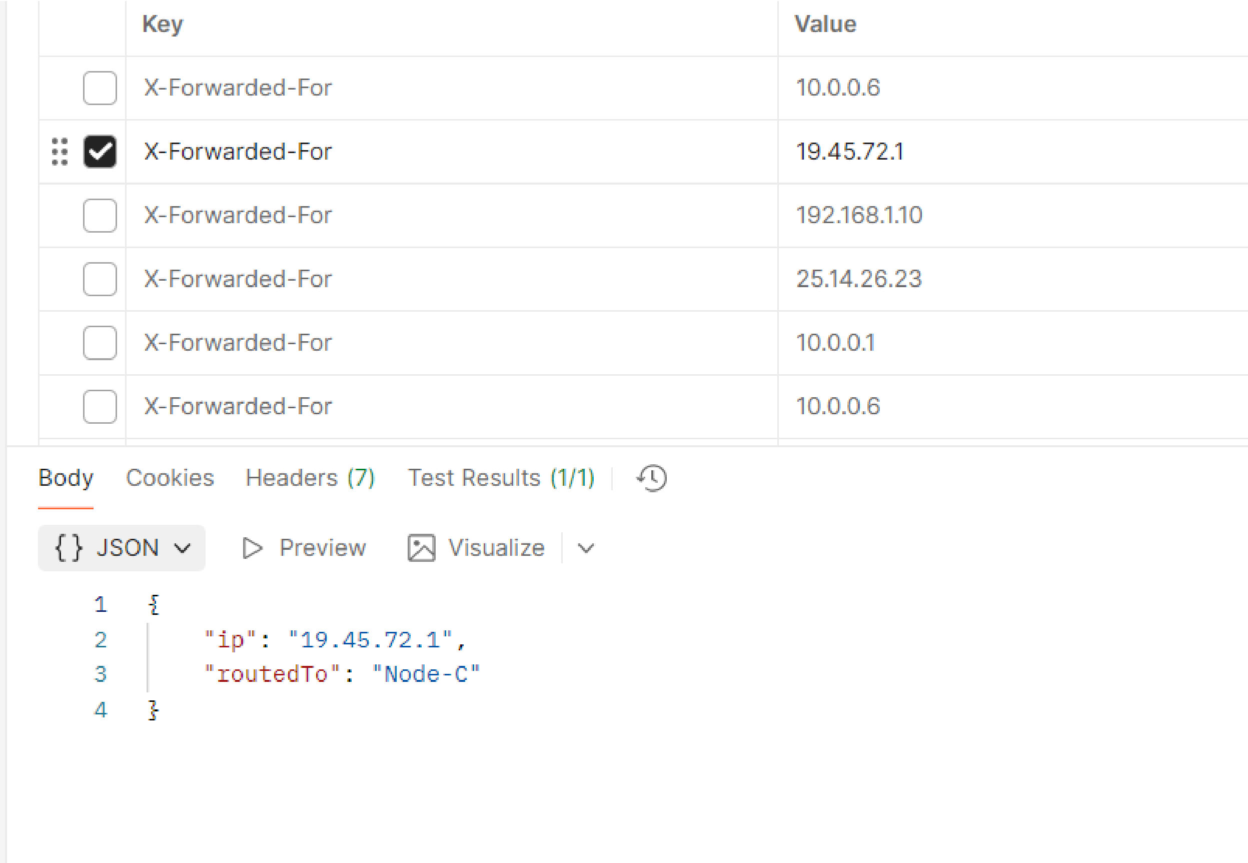
	Key	Value	Description
□	X-Forwarded-For	10.0.0.6	
☑	X-Forwarded-For	19.45.72.1	
□	X-Forwarded-For	192.168.1.10	
□	X-Forwarded-For	25.14.26.23	
□	X-Forwarded-For	10.0.0.1	
□	X-Forwarded-For	10.0.0.6	

```
{
    "ip": "10.0.0.6",
    "routedTo": "Node-B"
}
```



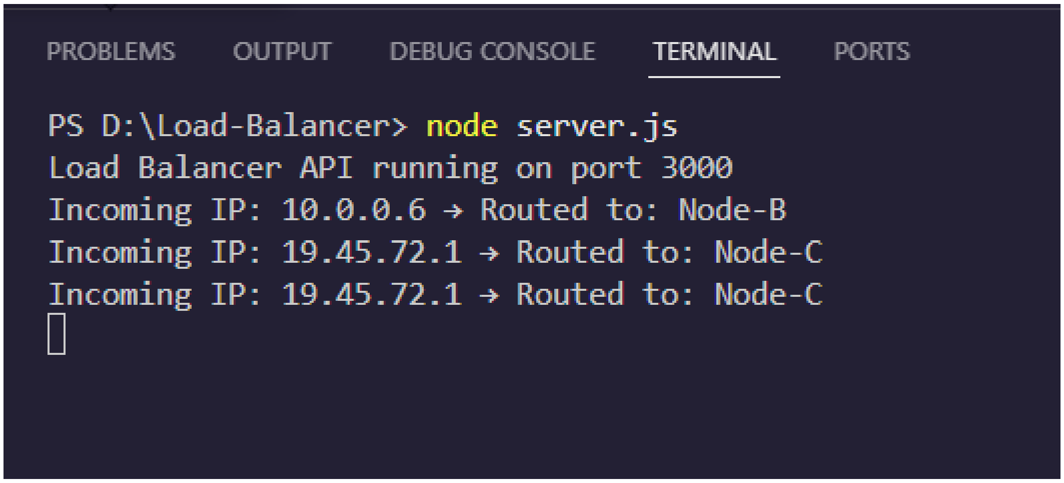
```
app.get("/route", rateLimiter , (req, res) => {
routedTo: node
});
});


// Metrics endpoint
app.get("/metrics", (req, res) => {
res.json(metrics);
});


// Simulate traffic via API
app.get("/simulate/:count", (req, res) => {
const count = parseInt(req.params.count) || 5;
simulateTraffic(count);
res.json({ message: `${count} requests simulated` });
});


app.listen(PORT, () => {
console.log(`Load Balancer API running on port ${PORT}`);
});
```

```
PS D:\Load-Balancer> node server.js
Load Balancer API running on port 3000
Incoming IP: 10.0.0.6 → Routed to: Node-B
Incoming IP: 19.45.72.1 → Routed to: Node-C
```

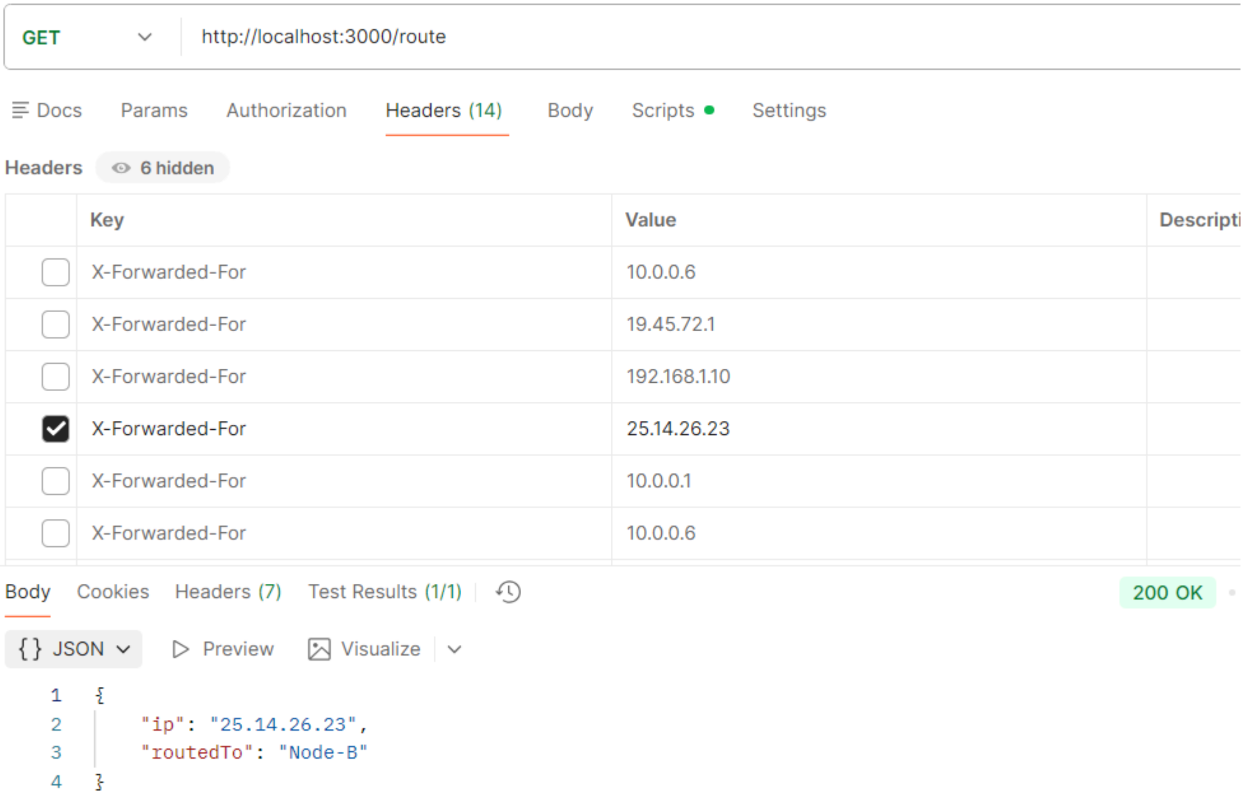


	Key	Value
□	X-Forwarded-For	10.0.0.6
☑	X-Forwarded-For	19.45.72.1
□	X-Forwarded-For	192.168.1.10
□	X-Forwarded-For	25.14.26.23
□	X-Forwarded-For	10.0.0.1
□	X-Forwarded-For	10.0.0.6

```
{
    "ip": "19.45.72.1",
    "routedTo": "Node-C"
}
```



```
PS D:\Load-Balancer> node server.js
Load Balancer API running on port 3000
Incoming IP: 10.0.0.6 → Routed to: Node-B
Incoming IP: 19.45.72.1 → Routed to: Node-C
Incoming IP: 19.45.72.1 → Routed to: Node-C
```

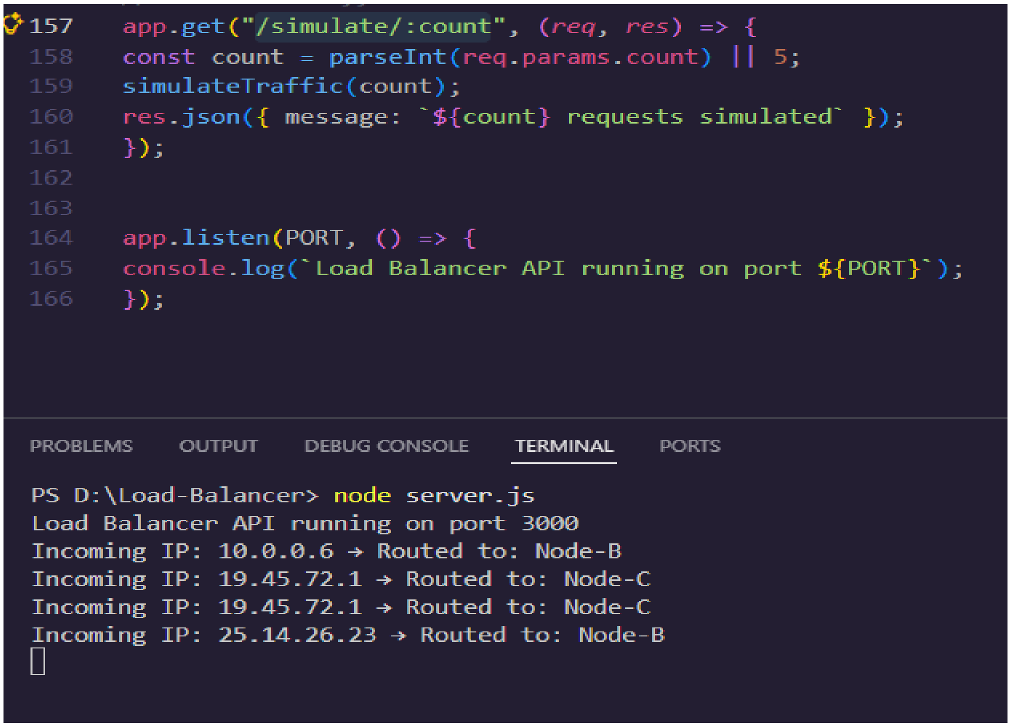


GET http://localhost:3000/route

Headers 6 hidden

	Key	Value	Descripti
□	X-Forwarded-For	10.0.0.6	
□	X-Forwarded-For	19.45.72.1	
□	X-Forwarded-For	192.168.1.10	
☑	X-Forwarded-For	25.14.26.23	
□	X-Forwarded-For	10.0.0.1	
□	X-Forwarded-For	10.0.0.6	

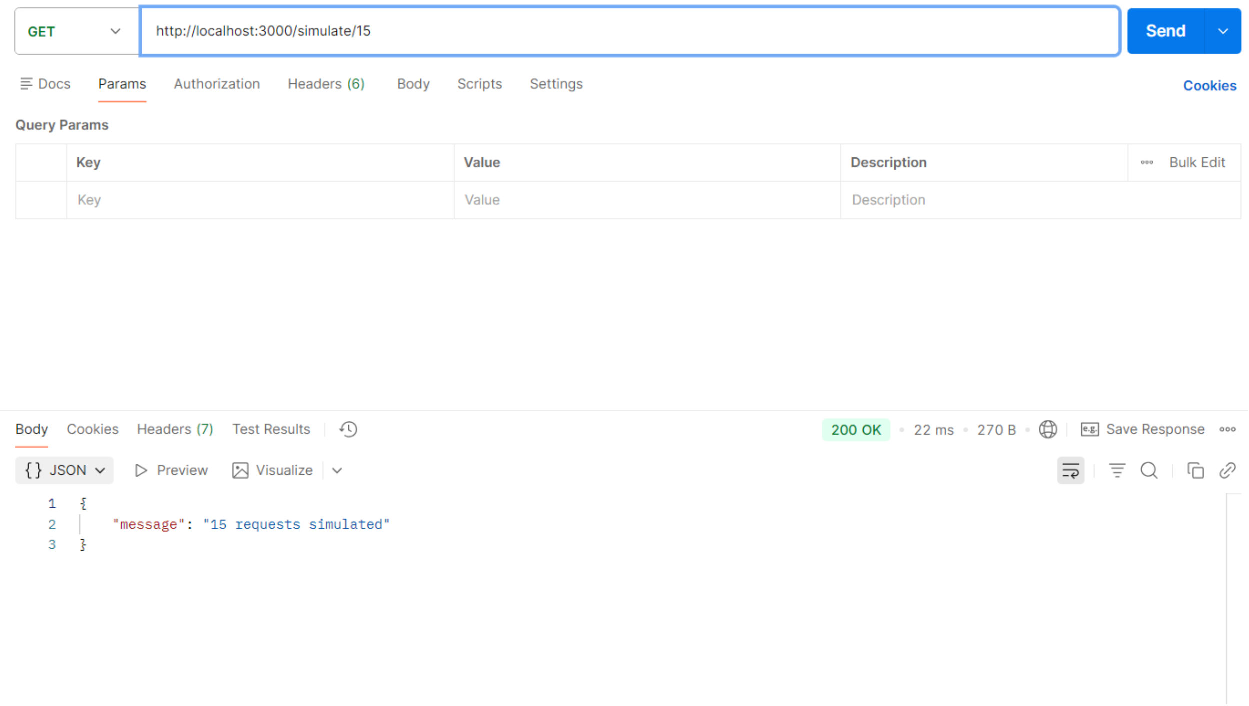
```
{
    "ip": "25.14.26.23",
    "routedTo": "Node-B"
}
```



```
app.get("/simulate/:count", (req, res) => {
const count = parseInt(req.params.count) || 5;
simulateTraffic(count);
res.json({ message: `${count} requests simulated` });
});


app.listen(PORT, () => {
console.log(`Load Balancer API running on port ${PORT}`);
});
```

```
PS D:\Load-Balancer> node server.js
Load Balancer API running on port 3000
Incoming IP: 10.0.0.6 → Routed to: Node-B
Incoming IP: 19.45.72.1 → Routed to: Node-C
Incoming IP: 19.45.72.1 → Routed to: Node-C
Incoming IP: 25.14.26.23 → Routed to: Node-B
```

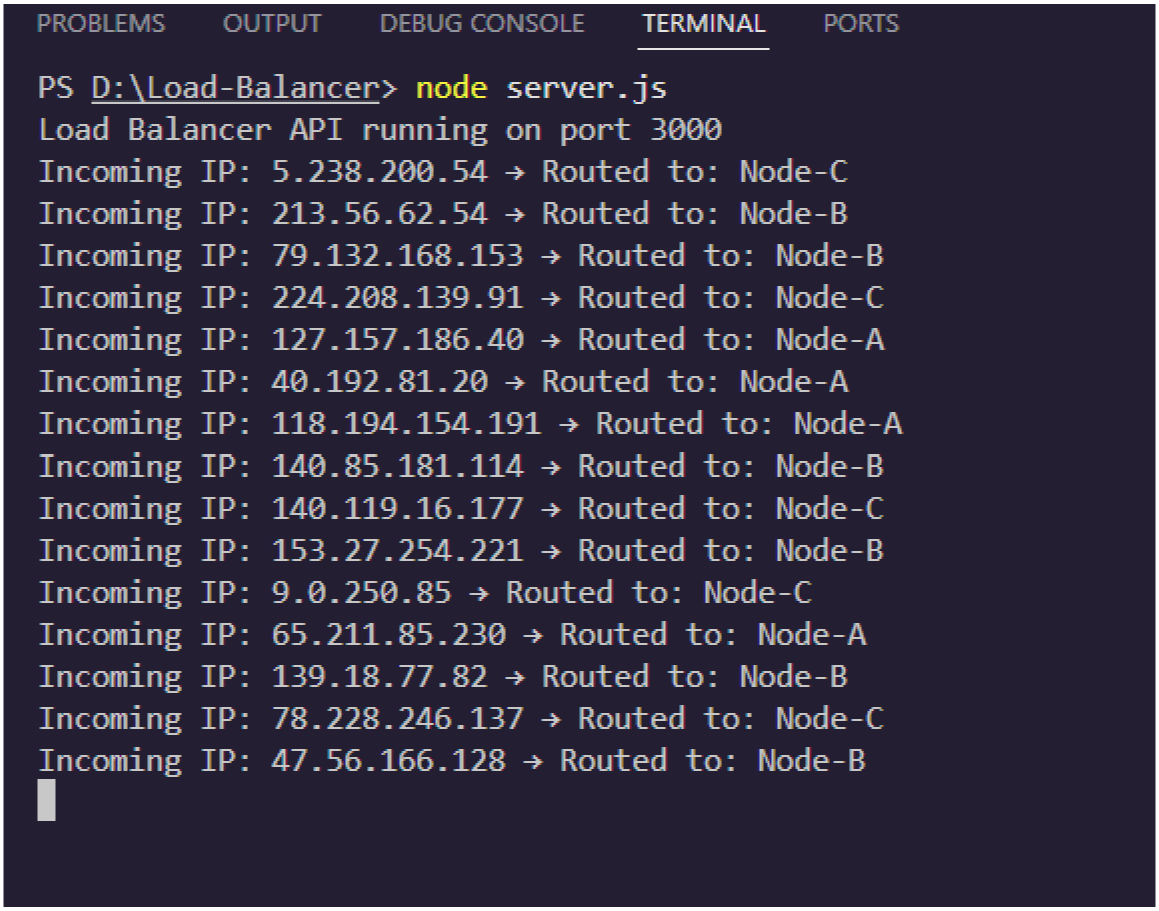
SIMULATION OF 15 IP ADDRESSES



http://localhost:3000/simulate/15

200 OK • 22 ms • 270 B

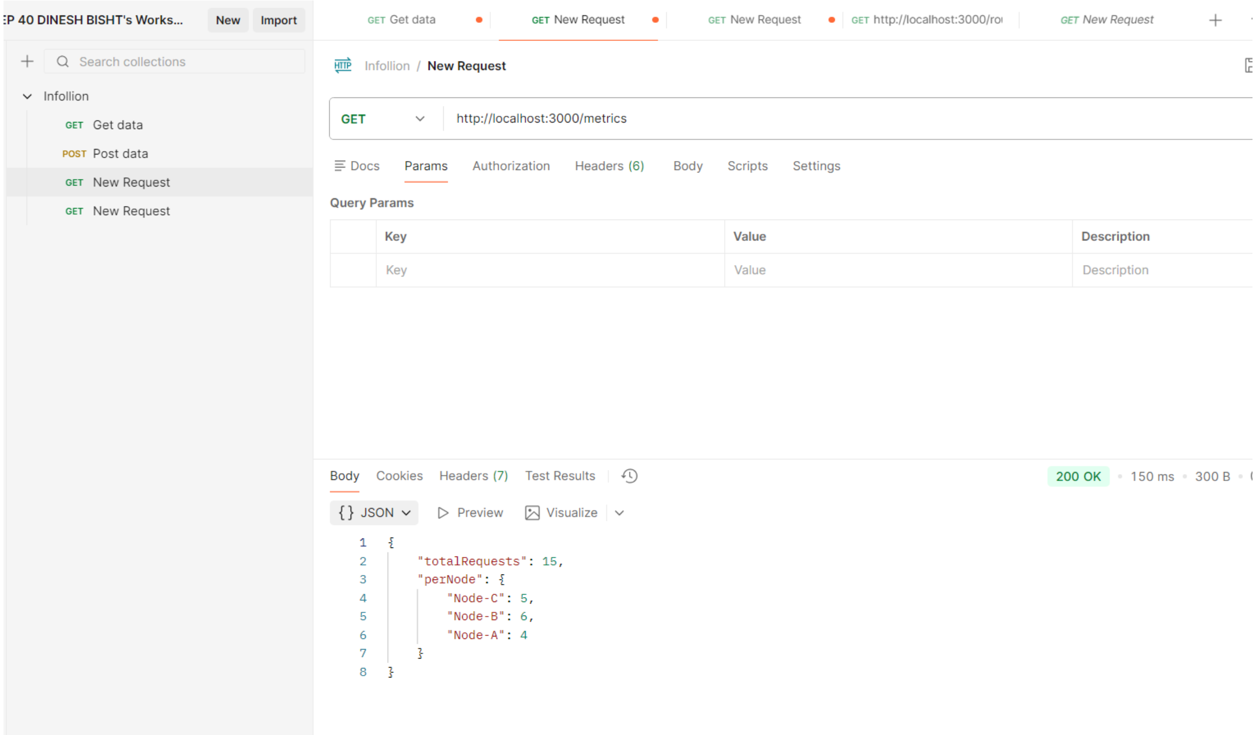
```
{
    "message": "15 requests simulated"
}
```



```
PS D:\Load-Balancer> node server.js
Load Balancer API running on port 3000
Incoming IP: 5.238.200.54 → Routed to: Node-C
Incoming IP: 213.56.62.54 → Routed to: Node-B
Incoming IP: 79.132.168.153 → Routed to: Node-B
Incoming IP: 224.208.139.91 → Routed to: Node-C
Incoming IP: 127.157.186.40 → Routed to: Node-A
Incoming IP: 40.192.81.20 → Routed to: Node-A
Incoming IP: 118.194.154.191 → Routed to: Node-A
Incoming IP: 140.85.181.114 → Routed to: Node-B
Incoming IP: 140.119.16.177 → Routed to: Node-C
Incoming IP: 153.27.254.221 → Routed to: Node-B
Incoming IP: 9.0.250.85 → Routed to: Node-C
Incoming IP: 65.211.85.230 → Routed to: Node-A
Incoming IP: 139.18.77.82 → Routed to: Node-B
Incoming IP: 78.228.246.137 → Routed to: Node-C
Incoming IP: 47.56.166.128 → Routed to: Node-B
```

15 IP Addresses Simulated

METRICS DASHBOARD

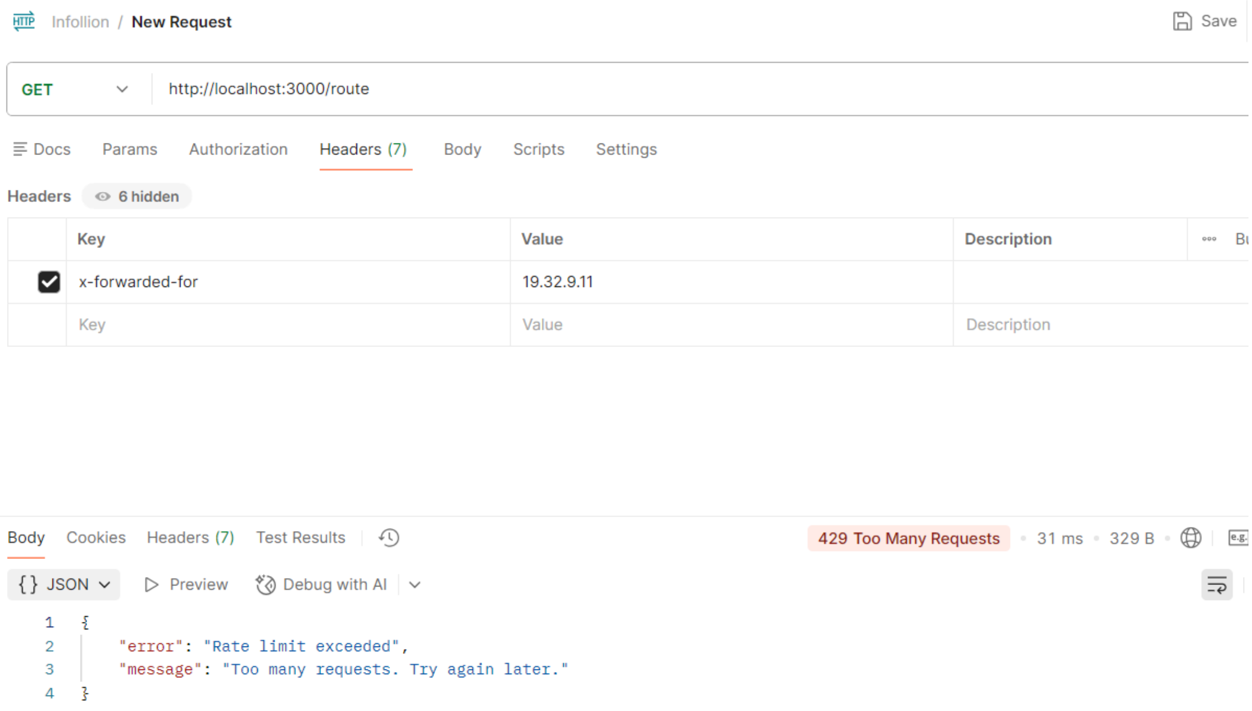


GET http://localhost:3000/metrics

200 OK • 150 ms • 300 B

```
{
    "totalRequests": 15,
    "perNode": {
        "Node-C": 5,
        "Node-B": 6,
        "Node-A": 4
    }
}
```

Limit Reach if more than 5 requests are sent with same 👍 IP ADDRESSES WITHIN ONE MINUTE

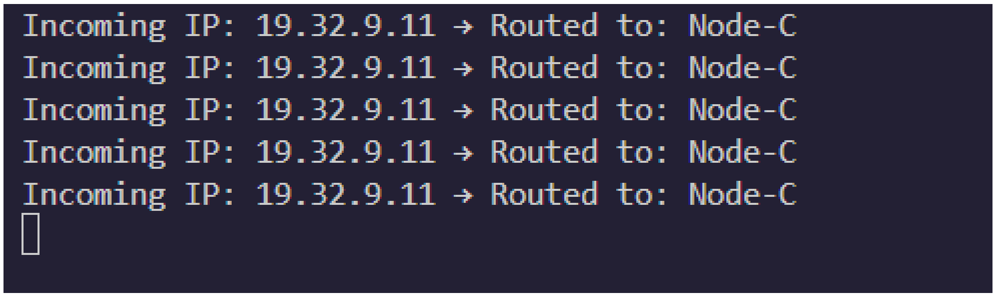


GET http://localhost:3000/route

	Key	Value	Description
☑	x-forwarded-for	19.32.9.11	
	Key	Value	Description

429 Too Many Requests • 31 ms • 329 B

```
{
    "error": "Rate limit exceeded",
    "message": "Too many requests. Try again later."
}
```



```
Incoming IP: 19.32.9.11 → Routed to: Node-C
Incoming IP: 19.32.9.11 → Routed to: Node-C
Incoming IP: 19.32.9.11 → Routed to: Node-C
Incoming IP: 19.32.9.11 → Routed to: Node-C
Incoming IP: 19.32.9.11 → Routed to: Node-C
```

Only 5 request have been received