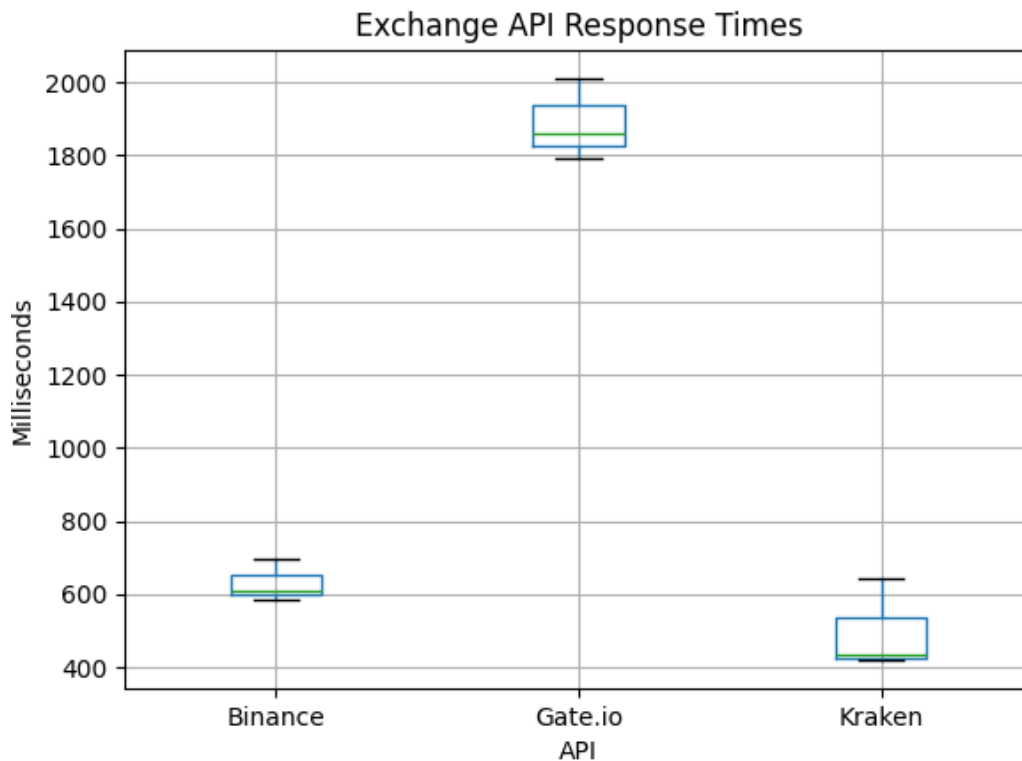


# Exchange API Performance Benchmark

## Executive Summary

Gate.io's API showed 3.8x higher latency compared to Kraken, with average response times of 1888ms vs 498ms.

## Performance Analysis



## Critical Observations

### 1. Consistency Issues:

- Gate.io's latency varied by 214ms (1794-2008ms)
- Kraken showed more stable performance (422-641ms)

### 2. Competitive Gap:

- Binance was only 1.3x slower than Kraken
- Gate.io was 3x slower than Binance

# Exchange API Performance Benchmark

## Actionable Recommendations

### 1. Immediate Actions:

- Audit network routes to Gate.io's API endpoints
- Compare WebSocket vs REST performance

### 2. Long-term Improvements:

- Implement regional API endpoints
- Add latency monitoring dashboard

### 3. Documentation Updates:

- Set clear latency expectations for developers
- Publish performance best practices

## Methodology

Tested 3 iterations per API

Measured end-to-end response times

Focused on ticker endpoint (critical for trading)