

# Q4 2023 Technical Performance Report

## Executive Summary

This report analyzes the technical performance metrics for Q4 2023.

### KEY FINDINGS:

- System uptime: 99.97%
- Average response time: 145ms
- Total API calls processed: 15.2 million
- Error rate: 0.03%

### INFRASTRUCTURE METRICS:

#### Server Performance:

- CPU utilization: Average 42%, Peak 78%
- Memory usage: Average 6.2GB, Peak 11.8GB
- Network throughput: 2.3 TB total data transferred
- Storage: 450GB used of 2TB capacity

#### Database Performance:

- Query response time: Average 23ms
- Concurrent connections: Peak 1,250
- Data growth: 45GB added in Q4
- Backup success rate: 100%

### SECURITY METRICS:

- Zero security incidents reported
- 12 security patches applied
- 3 penetration tests conducted
- All compliance requirements met

### RECOMMENDATIONS:

1. Increase server capacity by 25% to handle growth
2. Implement additional caching layer
3. Upgrade database to latest version
4. Schedule quarterly security audits

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