

🌐 Web Server Log Analysis Report

****Log File:**** large_access_log

****Report Date:**** Fri May 9 01:14:32 PM EDT 2025

1. Request Statistics

- Total Requests: ****9999****
- GET Requests: ****4923****
- POST Requests: ****5077****

2. IP Address Analysis

- Unique IP Count: ****50****

GET/POST Counts per IP (Top 10)

...

192.168.1.9: GET=93 POST=109
192.168.1.8: GET=92 POST=112
192.168.1.7: GET=77 POST=93
192.168.1.6: GET=92 POST=98
192.168.1.5: GET=80 POST=93
192.168.1.50: GET=106 POST=81
192.168.1.4: GET=114 POST=105
192.168.1.49: GET=86 POST=101
192.168.1.48: GET=103 POST=114
192.168.1.47: GET=94 POST=108

...

3. Failure Analysis

- Failed Requests (4xx/5xx): ****6618****
- Failure Percentage: ****66.19%****

4. Top Users

Most Active IP (All Requests)

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230 192.168.1.2

...

5. Daily Patterns

Requests per Day

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1510 01/May/2025

1393 02/May/2025

1380 03/May/2025
1508 04/May/2025
1439 05/May/2025
1457 06/May/2025
1313 07/May/2025
...

- Average Requests/Day: **1428.43**

6. Failure Patterns

Days With Most Failures

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995 06/May/2025
991 04/May/2025
991 01/May/2025
955 05/May/2025
929 02/May/2025
...

🕒 Hourly Request Trends

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10000
...

📊 Status Code Distribution

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1150 200
1134 401
1131 302
1122 400
1101 201
1100 500
1097 503
1089 403
1076 404
...

👤 Method-Specific Top Users

Top GET Requesters

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121 192.168.1.42
119 192.168.1.26
116 192.168.1.2
115 192.168.1.33
114 192.168.1.4

...

Top POST Requesters

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119 192.168.1.1
118 192.168.1.34
118 192.168.1.18
114 192.168.1.48
114 192.168.1.2

...

🕒 Failure Time Patterns

Hours With Most Failures

...

305 20
303 03
301 13
299 17
292 18

...

💡 Actionable Recommendations

1. **Error Reduction**:

- Fix missing resource: /api/data (occurred 151 times)
- Fix missing resource: /submit-form (occurred 143 times)
- Fix missing resource: /dashboard (occurred 138 times)

2. **Performance Optimization**:

- Scale resources during hour (peak: 10000 requests)

3. **Security Monitoring**:

- Monitor IP 192.168.1.1 (suspicious: 119 POST requests)

4. **Caching Opportunities**:

- Cache resource: /submit-form (requested 640 times)
- Cache resource: /notfound (requested 625 times)
- Cache resource: /api/data (requested 625 times)

