

Log File Analysis Report





Introduction

This report summarizes the results of a log file analysis performed using a Bash script. The objective was to identify traffic patterns, detect potential system failures, and recommend actionable improvements based on the observed data.

Summary of Findings

- **Total Requests:** 10
- **Request Methods:** 7 GET, 3 POST
- **Unique IP Addresses:** 6
- **Failure Count:** 4 (40% of total requests)
- **Most Active IP:** 192.168.1.1
- **Top GET IP:** 192.168.1.1
- **Top POST IP:** 192.168.1.2






Status Code Breakdown

-  **200 OK:** 6
-  **404 Not Found:** 2
-  **500 Server Error:** 1
-  **403 Forbidden:** 1

Traffic Peaks

- **Peak Hour:** 10:00 AM (5 requests)
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Insights & Suggestions

-  **High failure rate (40%)** indicates possible instability or misconfiguration.
 -  **404 errors** point to broken or missing links. Review and validate all internal URLs.
 -  **403 and 500 errors** may stem from permission or backend issues — review access control policies and backend service logs.
 -  **Monitor IP 192.168.1.1**, as its high activity may indicate normal usage or potential abuse.
 -  **10 AM peak** indicates a high-usage period — consider autoscaling or allocating more resources during this window.
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