Log File Analysis Report

Objective

Analyze a web server access log file using a Bash script to extract insights such as request patterns, errors, user activity, and traffic trends.

Log File Details

- Log Entries Analyzed: 10,000

- Period: 17 May 2015 - 20 May 2015

- Format: Apache web server style logs

Summary Statistics

- Total Requests: 10,000

- GET Requests: 9,952

- POST Requests: 5

- Unique IPs: 1,753

- Failed Requests: 220 (2.20%)

- Most Active IP: 66.249.73.135 (482 requests)

- Average Requests per Day: 2,500.00

Failures by Hour

00 6 01 10 02 10 03 7 04 9 05 15

06 14 07 7 08 2 09 18 10 12 11 11

12 7 13 12 14 11 15 6 16 8 17 12

18 9 19 10 20 4 21 8 22 8 23 4

Requests by Hour

00 361 01 360 02 365 03 354 04 355 05 371

06 366 07 357 08 345 09 364 10 443 11 459

12 462 13 475 14 498 15 496 16 473 17 484

18 478 19 493 20 486 21 453 22 346 23 356

Log File Analysis Report

Request Trend (Day-wise)

17/May/2015 - 1632

18/May/2015 - 2893

19/May/2015 - 2896

20/May/2015 - 2579

Status Code Breakdown

200: 9126

206: 45

301: 164

304: 445

403: 2

404: 213

416: 2

500: 3

Top Requesters

Top GET requester: 66.249.73.135 (482 requests)

Top POST requester: 78.173.140.106 (3 requests)

Observations & Recommendations

- 404 Not Found is the most common failure (213 times). Consider checking broken links or missing resources.

- Peak traffic occurs between 14:00 and 20:00. Load testing should focus on this period.

- One IP (66.249.73.135) made nearly 500 requests - consider whether it's a bot or crawler.

- Slightly higher failures around 05:00-06:00 and 09:00-10:00 may indicate load or access issues.