Log File Analysis with Bash Script assignment

Name : Sarah ibrahim (2205223)

ID : 2205223

Requirements:

Top 5 days with most failures:

66 19/May/2015

66 18/May/2015

58 20/May/2015

30 17/May/2015

Requests per hour:

345 08

346 22

354 03

355 04

356 23

357 07

360 01

361 00

364 09

365 02

366 06

371 05

443 10

453 21

459 11

462 12

473 16

475 13

478 18

484 17

486 20

493 19

496 15

498 14

Status code breakdown:

9126 200

445 304

213 404

164 301

45 206

3 500

2 416

2 403

Failures by hour:

2 08

4 20

4 23

6 00

6 15

7 03

7 07

7 12

8 16

8 21

8 22

9 04

9 18

10 01

10 02

10 19

11 11

11 14

12 10

12 13

12 17

14 06

15 05

18 09

==== Summary ====

Total Requests: 10000

GET Requests: 9952

POST Requests: 5

Unique IPs: 1753

Failed Requests: 220

Failure Percentage: 2.20%

Most Active IP: 482 66.249.73.135

Average Requests/Day: 2500.00

Most Active GET IP: 482 66.249.73.135

Most Active POST IP: 3 78.173.140.106

Suggestions Based on Analysis

- **High 404 Errors (213): Consider improving link validation or setting up custom 404 pages for better UX.**

- **Concentrated Activity by IP 66.249.73.135: This could be a bot (Googlebot). If undesired, consider rate limiting.**

- **POST Requests are rare (only 5): Monitor for anomalies or unexpected form submissions.**

- **Afternoon Traffic Spikes: Ensure the server is well-resourced between 14:00–20:00.**