

Name: meral ayman

Id:2205116

1. How to reduce failures (4xx/5xx)?

- **404 Errors:** Update website to fix dead links or guide users to correct pages.
- **403 Errors:** Double-check access rules; show friendly error messages.
- **500 Errors:** Debug app code, check server health, or boost memory/CPU.
- **Quick Fix:** Add alerts for errors and test app updates before deployment.

2. Which days/times need attention?

- **High Failures:** Look at “Failure Analysis” for days with most errors (e.g., 10/May/2025). Check what happened (e.g., updates, attacks).
- **Busy Hours:** See “Request by Hour” for peak times (e.g., 14:00). These may stress the server.
- **Do This:** Add resources for busy times, fix issues on high-error days, avoid updates during peaks.

3. Any security concerns or anomalies?

- **Suspicious IPs:** In “Top User,” an IP with tons of requests (e.g., 8.8.8.8 with 4,000 hits) could be a bot or hacker.
- **Weird Patterns:** Many POSTs or 403/404s from one IP in “Unique IP Addresses” might mean someone’s probing.
- **Protect:** Cap requests per IP, ban shady IPs, or add bot detection (e.g., reCAPTCHA).

4. Suggestions to improve the system?

- **Speed Up:** Use caching for popular pages, spread traffic with extra servers.
- **Stay Stable:** Log errors better, have backup servers ready.
- **Secure It:** Watch for odd IPs, lock down login pages, scan logs live.
- **Help Users:** Make 404 pages useful, explain 403 errors clearly.
- **Plan Smart:** Update servers when traffic’s low (e.g., 03:00).