## Task 3 Info Sec Yehia Tarek Selim

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## **III** Executive Summary

This report analyzes **99,999** HTTP requests from a web server log (May 1–7, 2025). Key findings include:

- ✓ Most requests were successful (69,894 200 OK responses).
- 14.06% failed requests (14,064 errors, mostly 404 Not Found).
- **Top active user**: 192.168.1.41 (2,093 total requests).
- Daily average: 14,285 requests/day.

## 

#### 1. Request Methods

Method	Count	% of Total
GET	80,072	80.07%
POST	19,928	19.93%

**GET requests dominate**, typical for content retrieval (e.g., web pages, images).

#### 2. Unique IP Addresses

- 50 unique IPs accessed the server.
- Top 3 IPs by activity:
  - 1. 192.168.1.41 (1,665 GETs + 428 POSTs = 2,093 total).
  - 2. 192.168.1.7 (1,648 GETs + **436 POSTs**).
  - 3. 192.168.1.46 (1,662 GETs + 421 POSTs).

<sup>♦</sup> **POST requests** (20%) likely include form submissions or API calls.

## **♦** Suspicious activity?

• 192.168.1.7 has the **highest POST requests** (436), possibly indicating aggressive form submissions.

## 3. Failed Requests (Errors)

Status Code	Count	% of Failures
404	4,968	35.3%
401	2,049	14.6%
400	2,035	14.5%
403	1,968	14.0%

- ♦ Total failures: 14,064 (14.06% of all requests).
- **♦ Peak failure times:** 
  - **3:00 AM** (631 errors)
  - **11:00 AM** (623 errors)
  - **2:00 AM** (617 errors)

⚠ Action Item: Investigate 404s (broken links) and 401/403s (authentication issues).

#### 4. Traffic Patterns

## Daily Requests

Date	Requests	Failures
06/May/2025	Highest	2,081
07/May/2025	Lowest	1,935

♦ Average daily requests: 14,285.

# Marly Trends

• Peak hours: 3:00 AM, 11:00 AM, 2:00 PM.

• Lowest activity: 12:00 AM-5:00 AM.

## 5. Top Users & Methods

Metric	IP Address	Count
Most Active	192.168.1.41	2,093
Top GETs	192.168.1.41	1,665
Top POSTs	192.168.1.7	436

# **Ⅲ** Visual Summary

