

# Server Health Monitoring Tool - Project Report

## Project Overview

This project is a simple yet effective server health monitoring tool written in Python.

It continuously checks CPU, memory, and disk usage on a Linux machine and logs alerts when usage exceeds defined thresholds.

It is suitable for personal use, DevOps learning, or light production environments.

## Key Features

- Monitors CPU, RAM, and Disk usage.
- Logs warnings if usage exceeds thresholds.
- Runs automatically using cron (every 5 minutes).
- Lightweight and easy to customize.
- Written entirely in Python using the psutil library.

## Setup & Usage

1. Install required dependencies: ``pip install psutil``.
2. Run the Python script manually or schedule with cron.
3. Logs will be written to a file for monitoring.
4. Customize thresholds in the script as needed.

## Technologies Used

- Python 3
- psutil (Python library)
- Ubuntu Linux
- cron (for scheduling tasks)

## Future Improvements

- Add email or Slack notifications for alerts.
- Create a web dashboard using Flask.
- Support remote monitoring via SSH.
- Use a configuration file to manage thresholds.

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## Author

Name: Tareq Suliman

Email: tareq.cr07@gmail.com

GitHub: <https://github.com/zDR34M>

LinkedIn: <https://www.linkedin.com/in/tareq-suliman/>