#!/bin/bash

LOG\_FILE="/var/log/server\_health.log"

TIMESTAMP=$(date '+%Y-%m-%d %H:%M:%S')

# Logging function

log() {

echo "$TIMESTAMP - $1" | sudo tee -a "$LOG\_FILE" > /dev/null

}

log "===== Server Health Check Started ====="

CPU=$(top -bn1 | grep "Cpu(s)")

log "CPU Usage: $CPU"

MEMORY=$(free -m)

log "Memory Usage: $MEMORY"

DISK=$(df -h / | awk 'NR==2 {print $5}')

log "Disk Usage: $DISK"

USAGE=$(echo "$DISK" | tr -d '%')

if [ "$USAGE" -ge 90 ]; then

log "WARNING: Disk usage is above 90%!"

fi

NGINX\_STATUS=$(systemctl is-active nginx)

log "Nginx Status: $NGINX\_STATUS"

if [ "$NGINX\_STATUS" != "active" ]; then

log "WARNING: Nginx is not running!"

fi

STUDENTS\_STATUS=$(curl -s -o /dev/null -w "%{http\_code}" http://13.48.29.124/students)

log "Students Endpoint Status: HTTP $STUDENTS\_STATUS"

if [ "$STUDENTS\_STATUS" -ne 200 ]; then

log "WARNING: /students endpoint is down or not returning 200 OK!"

fi

SUBJECTS\_STATUS=$(curl -s -o /dev/null -w "%{http\_code}" http://13.48.29.124/subjects)

log "Subjects Endpoint Status: HTTP $SUBJECTS\_STATUS"

if [ "$SUBJECTS\_STATUS" -ne 200 ]; then

log "WARNING: /subjects endpoint is down or not returning 200 OK!"

fi

log "===== Server Health Check Completed ====="

Output:

