**GSRS Monitoring Script (Linux) for FDA Production**

#!/bin/bash

# Log file for monitoring

LOG\_FILE="/var/log/gsrs\_monitor\_script.log"

# Timestamp file to track last restart

COOLDOWN\_FILE="/tmp/gsrs\_monitor\_cooldown"

# Launch this script without any cooldown file

rm -rf $COOLDOWN\_FILE

# define the environment variables tomcat and config\_dir which are needed by configureGSRS.sh

source /root/.bashrc # This works only if this script runs from root.

echo "CONFIG\_DIR=$config\_dir" >> "$LOG\_FILE"

# Function to check if the website is responding

check\_website()

{

RESPONSE=$(curl -s --max-time 10 -H "auth-username: admin" -H "auth-password: admin" "http://localhost:8080/api/v1/vocabularies/@count")

if [[ -n "$RESPONSE" ]]; then

echo "$(date): Website is up. Response: $RESPONSE" >> "$LOG\_FILE"

else

# Check if the cooldown period has passed

if [[ -f "$COOLDOWN\_FILE" ]]; then

LAST\_RESTART=$(cat "$COOLDOWN\_FILE")

NOW=$(date +%s)

ELAPSED=$((NOW - LAST\_RESTART))

if (( ELAPSED < 300 )); then # 300 seconds = 5 minutes

echo "$(date): Website is probably still restarting. Skipping status check." >> "$LOG\_FILE"

return

fi

fi

# Record the time of restart before launching restartWeb.sh

date +%s > "$COOLDOWN\_FILE"

echo "$(date): Website is down. Restarting..." >> "$LOG\_FILE"

echo "Launching: $config\_dir/configureGSRS.sh" >> "$LOG\_FILE"

/bin/bash $config\_dir/configureGSRS.sh >> "$LOG\_FILE" 2>&1

fi

} # check\_website()

RESPONSE=$(curl -s --max-time 10 -H "auth-username: admin" -H "auth-password: admin" "http://localhost:8080/api/v1/vocabularies/@count")

if [[ -n "$RESPONSE" ]]; then

echo "$(date): On script startup, the website is up. Response: $RESPONSE" >> "$LOG\_FILE"

else

# Wait 6 minutes (360 seconds) after boot before the first check

echo "$(date): Waiting 6 minutes after boot before first website check..." >> "$LOG\_FILE"

sleep 360

fi

# Infinite loop to check every minute

while true; do

check\_website

sleep 60

done

**systemd Service File**

**Create or edit the file** /etc/systemd/system/gsrs\_monitor.service

[Unit]

Description=Website Monitoring Script

After=network.target

[Service]

ExecStart=/u01/tomcat/gsrs\_monitor.sh

Restart=always

RestartSec=10

User=root

StandardOutput=append:/var/log/gsrs\_monitor\_service.log

StandardError=append:/var/log/gsrs\_monitor\_service.log

[Install]

WantedBy=multi-user.target

**Enable and Manage the Service**

**1 Enable it to start on boot:**

sudo systemctl enable gsrs\_monitor

This makes sure it runs automatically when the system starts.

**2 Start the service manually:**

sudo systemctl start gsrs\_monitor

**3 Stop monitoring before a manual restart:**

sudo systemctl stop gsrs\_monitor

**4 Restart monitoring if needed:**

sudo systemctl restart gsrs\_monitor

**5 Check the status of the monitoring script:**

sudo systemctl status gsrs\_monitor

This will show whether the script is running, logs, and if there were any errors.

**6 Run this after editing the monitoring script:**

sudo systemctl daemon-reload