Task 4: File Watcher Script

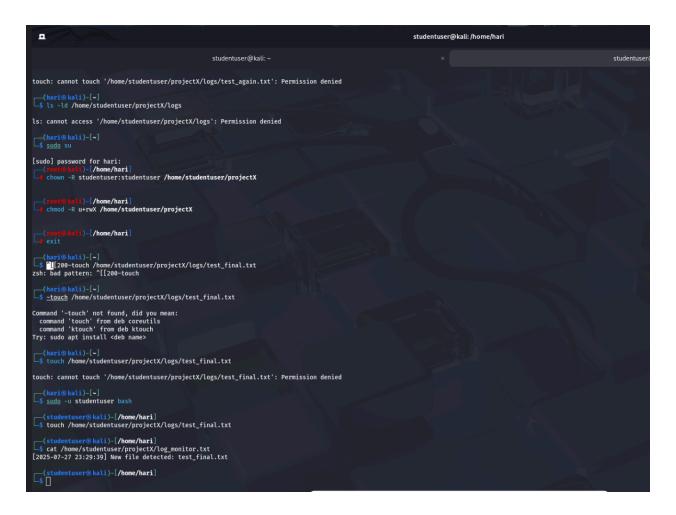
1. Install inotify-tools: sudo apt update sudo apt install inotify-tools -y 2. Create the script file: nano watch_dir.sh #!/bin/bash WATCH_DIR="/home/studentuser/projectX/logs" LOG_FILE="/home/studentuser/projectX/log_monitor.txt" if [!-d "\$WATCH_DIR"]; then echo "Directory \$WATCH_DIR does not exist." exit 1 fi inotifywait -m -e create --format '%f' "\$WATCH_DIR" | while read FILENAME do if [["\$FILENAME" == *.txt]]; then TIMESTAMP=\$(date "+%Y-%m-%d %H:%M:%S") echo "[\$TIMESTAMP] New file detected: \$FILENAME" >> "\$LOG_FILE" fi done 3. Make the script executable: chmod +x watch_dir.sh ./watch_dir.sh 4. Test It in another terminal:

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touch /home/studentuser/projectX/logs/test123.txt

5. Check the log:

cat /home/studentuser/projectX/log_monitor.txt



Conclusion: Task 4 involved creating a watch_dir.sh script to monitor the /logs directory for new .txt files. When a file is added, its name and timestamp are logged to log_monitor.txt. This task demonstrated real-time file monitoring using inotifywait.

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