205224021
Sarthak Rawat

OS - UBUNTU

Script:-

GNU nano 7.2   heartbeat.sh

```bash
#!/bin/bash
# Config
INTERVAL=5  # Interval in seconds
LOG_FILE="/var/log/heartbeat.log"
LOG_TAG="HeartbeatJob"
# Check if log file exists, create if not
if [ ! -f "$LOG_FILE" ]; then
sudo touch "$LOG_FILE"
sudo chown $USER:$USER "$LOG_FILE"
fi
# Infinite loop to send heartbeat
while true; do
# Timestamp
TIMESTAMP=$(date "+%Y-%m-%d %H:%M:%S")
echo "$TIMESTAMP - Heartbeat signal" >> "$LOG_FILE"
# Send heartbeat to system log
logger -t "$LOG_TAG" "Heartbeat signal sent at $TIMESTAMP"
# Sleep for defined interval
sleep "$INTERVAL"
done
```

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while true; do
  # Timestamp
  TIMESTAMP=$(date "+%Y-%m-%d %H:%M:%S")
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  # Send heartbeat to system log
  logger -t "$LOG_TAG" "Heartbeat signal sent at $TIMESTAMP"

  # Sleep for defined interval
  sleep "$INTERVAL"
done
                         [ Read 25 lines ]
^G Help        ^O Write Out   ^W Where Is    ^K Cut         ^T Execute     ^C Location    M-U Undo       M-A Set Mark
^X Exit        ^R Read File   ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line  M-E Redo       M-6 Copy
```
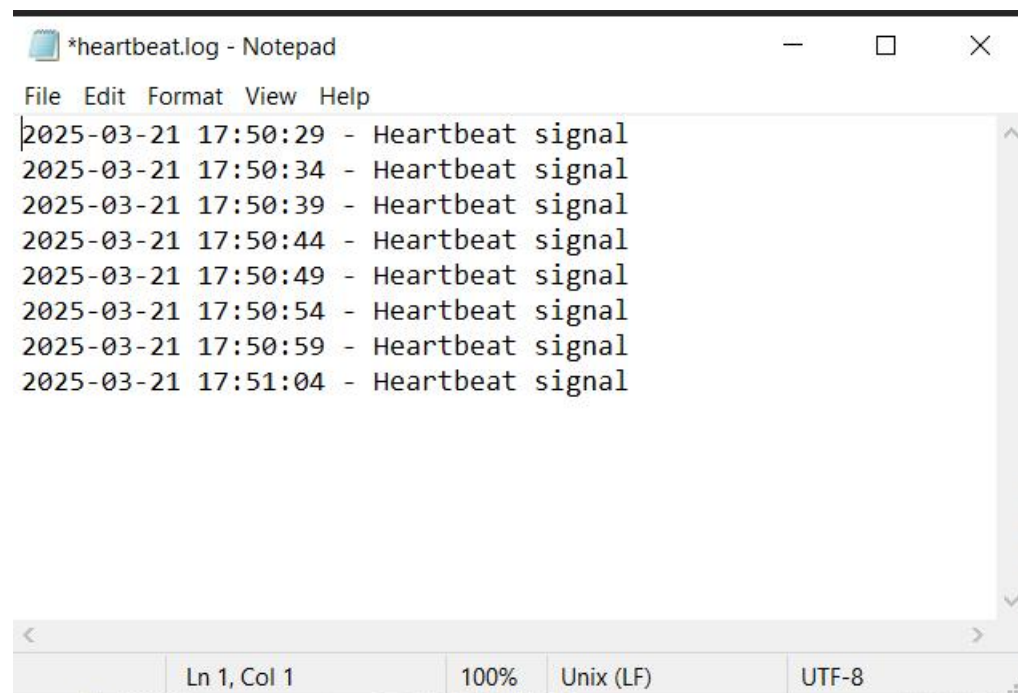


```
sarthak@DESKTOP-JJHJ7VN:~$ ps aux | grep heartbeat.sh
sarthak     60  0.2  0.0  12792  1844 tty1     S    17:24   0:02 /bin/bash ./heartbeat.sh
sarthak    193  0.1  0.0  12792  1844 tty1     R    17:27   0:02 /bin/bash ./heartbeat.sh
sarthak    320  0.1  0.0  12792  1844 tty1     S    17:29   0:02 /bin/bash ./heartbeat.sh
root      1484  0.0  0.0  22048  4268 tty1     T    17:39   0:00 sudo ./heartbeat.sh
root      1485  0.0  0.0  22048   432 pts/0    Ss   17:39   0:00 sudo ./heartbeat.sh
root      1486  0.0  0.0  12792  1848 pts/0    T    17:39   0:00 /bin/bash ./heartbeat.sh
root      2107  0.0  0.0  22048  4268 tty1     T    17:44   0:00 sudo ./heartbeat.sh
root      2108  0.0  0.0  22048   436 pts/3    Ss   17:44   0:00 sudo ./heartbeat.sh
root      2109  0.1  0.0  12792  1848 pts/3    T    17:44   0:00 /bin/bash ./heartbeat.sh
sarthak   2479  0.0  0.0  12912  3004 tty1     S    17:47   0:00 nano heartbeat.sh
sarthak   2599  0.0  0.0  12136  1308 tty2     S    17:48   0:00 grep --color=auto heartbeat.sh
sarthak@DESKTOP-JJHJ7VN:~$ sudo tail -f /var/log/heartbeat.log
2025-03-21 17:50:29 - Heartbeat signal
2025-03-21 17:50:34 - Heartbeat signal
2025-03-21 17:50:39 - Heartbeat signal
2025-03-21 17:50:44 - Heartbeat signal
2025-03-21 17:50:49 - Heartbeat signal
2025-03-21 17:50:54 - Heartbeat signal
2025-03-21 17:50:59 - Heartbeat signal
2025-03-21 17:51:04 - Heartbeat signal
2025-03-21 17:51:09 - Heartbeat signal
2025-03-21 17:51:14 - Heartbeat signal
2025-03-21 17:51:19 - Heartbeat signal
2025-03-21 17:51:24 - Heartbeat signal
2025-03-21 17:51:29 - Heartbeat signal
2025-03-21 17:51:34 - Heartbeat signal
2025-03-21 17:51:39 - Heartbeat signal
2025-03-21 17:51:45 - Heartbeat signal
2025-03-21 17:51:50 - Heartbeat signal
```

```
*heartbeat.log - Notepad
File  Edit  Format  View  Help
2025-03-21 17:50:29 - Heartbeat signal
2025-03-21 17:50:34 - Heartbeat signal
2025-03-21 17:50:39 - Heartbeat signal
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2025-03-21 17:50:54 - Heartbeat signal
2025-03-21 17:50:59 - Heartbeat signal
2025-03-21 17:51:04 - Heartbeat signal

Ln 1, Col 1          100%    Unix (LF)      UTF-8
```