# openHAB

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# OpenHAB3 - Logs auslesen in Shell

```
sudo su
tail -f /var/lib/docker/volumes/openhab_openhab_userdata/_data/logs/openhab.log -f
/var/lib/docker/volumes/openhab_openhab_userdata/_data/logs/events.log
```

# Environment Variables

```
#OPENHAB_HOME=/usr/share/openhab2
#OPENHAB_CONF=/etc/openhab2
#OPENHAB_RUNTIME=/usr/share/openhab2/runtime
#OPENHAB_USERDATA=/var/lib/openhab2
#OPENHAB_LOGDIR=/var/log/openhab2
```

# Surveillance Station Bewegung zu openHAB

Kamerabewegungserkennung ueber Synology Surveillance Station ueber Webhook an openhab rest api senden:

image.png

statt 'ON' kann auch 'TOGGLE' verwendet werden

Vogelhaus TP-Link Tapo C100 Kamera Cam Baumstr REST API

http://192.168.1.76:8080/rest/items/ITEMNAME

plain/text

POST

# Surveillance Station GetSnapshot via API

1) Infos zur API und ihren einzelnen Versionen rausholen:

GET

```
http://192.168.1.10:5000/webapi/query.cgi?api=SYNO.API.Info&method=Query&version=1&query=ALL
```

2) Login via API:

GET

```
192.168.1.10:5000/webapi/auth.cgi?api=SYNO.API.Auth&method=login&version=7&account=MEINBENUTZER&passwd=MEINPASSWORT&session=SurveillanceStation&format=sid
```

also Response kommt etwa

```
{
    "data": {
        "account": "Eike",
        "device_id": "-Ezsffph96I7C.......o4sr2EI9h36Ym-j2w",
        "ik_message": "",
        "is_portal_port": false,
        "sid": "vF-JE8-4Xe6Yet........9XbSc_7z8NpLhf5VtU",
        "synotoken": "--------"
    },
    "success": true
}
```

daraus den sid (String Identifier) kopieren und an den getCameraList Request haengen:

3) getCameraList

GET

```
http://192.168.1.10:5000/webapi/entry.cgi?api=SYNO.SurveillanceStation.Camera&method=List&version=3&_sid=vF-JE8-4......bSc_7z8NpLhf5VtU
```

Aus Response die ID der Kamera entnehmen:

image.png

4) getSnapshot

id in Request fuer den Snapshot einfuegen

GET

```
192.168.1.10:5000/webapi/entry.cgi?version=9&id=10&api=SYNO.SurveillanceStation.Camera&method=GetSnapshot&profileType=1&_sid=vF-JE8-4Xe........_7z8NpLhf5VtU
```

> Erfolg!

image.png

# Skript ausführen (RestAPI curl POST)

auf openhab server:
/home/openhabian/tb-temp.sh

```
#!/bin/bash

#while :
#do
#  cpuUsage=$(top -bn1 | awk '/Cpu/ { print $2}')
#  memUsage=$(free -m | awk '/Mem/{print $3}')
#  sleep 10
#done



key01=$1
value01=$2
echo 'Starte Thingsboard POST Request mit: '$key01' und '$value01

curl -v -X POST -d "{\"$key01\": $value01}"
https://thingsboard.cloud/api/v1/EYDyfp3Ep14qyFuluIZM/telemetry --header "Content-
Type:application/json"
```

in openhab rules:
e3dc-to-thingsboard.rules

```
rule "Sende PV-Anlagedaten Hausverbrauch an Thingsboard"
when
    Item E3DC_Haus changed
then
    logInfo("Thingsboard","Sende Power House")
    executeCommandLine("/home/openhabian/tb-
temp.sh@@Power_House_W@@"+E3DC_Haus.state.toString, 2*1000)
```

```
end

rule "Sende PV-Anlagedaten minütlich an Thingsboard"
when
    Time cron "0 * * * * ?" //jede Minute (wenn Sekunden = 0)
then
    logInfo("Thingsboard","Sende minütlich")
    executeCommandLine("/home/openhabian/tb-temp.sh@@Power_Grid_W@@"+E3DC_Netz.state.toString,
2*1000)
    executeCommandLine("/home/openhabian/tb-temp.sh@@Power_PV_W@@"+E3DC_PV.state.toString,
2*1000)
    executeCommandLine("/home/openhabian/tb-
temp.sh@@Power_Battery_W@@"+E3DC_Battery.state.toString, 2*1000)
    executeCommandLine("/home/openhabian/tb-
temp.sh@@SOC_Battery_Perc@@"+E3DC_SOC.state.toString, 2*1000)
    executeCommandLine("/home/openhabian/tb-temp.sh@@Power_PV-String-
East_W@@"+E3DC_Power_String1.state.toString, 2*1000)
    executeCommandLine("/home/openhabian/tb-temp.sh@@Power_PV-String-
West_W@@"+E3DC_Power_String2.state.toString, 2*1000)
end
```