Instructions for atTemp7.py

1, What is atTemp7.py

It is an automation script for antLinker's Three-Times-Daily Temperature Check-In.

2, How does it work

Simply trying to recreate the unnecessary process which you have been doing since February on your phone, but it's fully automatic.

3, How to set up & Prerequisite

You will need to be able to capture your HTTP traffic since atTemp7.py requires two OR three input values which can be only obtained by doing so.

To complete the automation setup, you may have to leave your computer on 24/7, or alternatively, rent a very cheap VM online

4, The SETUP

STEP 1, Obtaining your ENCODED username and password from HTTP Traffic Capturing. (NOT YOUR ACTUAL USERNAME AND PASSWD)

STEP 2, Putting your ENCODED username and password inside the script

STEP 3, Setting up the Automation Task

STEP 1, Obtaining your ENCODED username and password from HTTP Traffic Capturing.

1, Logout your antLinker account

NetKeeper

2, Turn on the HTTP Traffic Capturing APP, you may set the filter to capture antLinker only, I recommend NetKeeper, which made atTemp7.py possible.

3, Make sure you have logged back in inside antLinker, then turn off HTTP Capturing.

STEP 1, Obtaining your ENCODED username and password from HTTP Traffic Capturing.

4, You should be able to see all your HTTP Traffic, like this

STEP 1, Obtaining your ENCODED username and password from HTTP Traffic Capturing.

5, In one of those packages(list), you will find something like this:

password=fb8ae981c1d74513ba60f9728b8c528f&grant_type=
password&username=eyJMb2dpbk1vZGVsIjoxLCJTZXJ2aW
NlIjoiQU5UIiwiVXNlck5hbWUiOilxMzU3MzI4NzcwNSJ9

6, Now, you may save the Orange part and the Green part.

password=fb8ae981c1d74513ba60f9728b8c528f&grant_type=
password&username=eyJMb2dpbk1vZGVsIjoxLCJTZXJ2aW
NlIjoiQU5UIiwiVXNlck5hbWUiOilxMzU3MzI4NzcwNSJ9

Those are your encoded password and username respectively.

STEP 2, Putting your ENCODED username and password inside the script

1, Open atTemp7.py, locate line14 and line15

```
12
13   # Two Mandatary Inputed Variables, Once Again, Please Read the Instructions
14   yourUserName = "input_your_encoded_username_here"
15   yourPassword = "input_your_encoded_password_here"
16
17   # One Optional Inputed Variable, Only If It Is Needed for This Script to Run Properly
18   yourInternalStudentID = ""
19
```

2, Replace the content inside "" with what you've just saved, make sure they are in the right place when input.(and then you are done!)

```
# Two Mandatary Inputed Variables, Once Again, Please Read the Instructions
yourUserName = "eyJMb2dpbk1vZGVsIjoxLCJTZXJ2aWNlIjoiQU5UIiwiVXNlck5hbWUiOiIxMzU3MzI4NzcwNSJ9"
yourPassword = "fb8ae981c1d74513ba60f9728b8c528f"

# One Optional Inputed Variable, Only If It Is Needed for This Script to Run Properly
yourInternalStudentID = ""
```

STEP 3, Setting up the Automation Task

There are many ways to do this. I personally use crontab to run the command at a given time and python3 to execute the script.

1, Entering the crontab file

    $ crontab -e

2, Assigning Automation Task

    # m h dom mon dow   command

    30 7 * * * /usr/bin/python3 /home/ubuntu/attempt.py/atTemp7.py

    30 12 * * * /usr/bin/python3 /home/ubuntu/attempt.py/atTemp7.py

    30 21 * * * /usr/bin/python3 /home/ubuntu/attempt.py/atTemp7.py

For reference, see: https://opensource.com/article/17/11/how-use-cron-linux

5, Additional Setup

1, Basic structure of any antLinker API

```
{

        "Router": "/path/to/api",
        "Method": "GET" or "POST",
        "Body": JSON_format

}
```

2, What is required for temperature submission

```
{
        "Router": "/api/studentncpback/puttemperature",
        "Method": "POST",
        "Body": "{

            \"user\": \" IntelUserCode \",
            \"temperature\": \"1\",
            \"reportArea\": \" Location \",
            \"memo\": \"\"
            }"

}
```

Location can be any String, such as "北京市北京市东城区"

3, How to get IntelUserCode

IntelUserCode is actually an UUID, to which there are mainly two APIs related.

"/api/temperatureup/querynoup"

and

"/api/temperatureup/queryuped"

However, there are many hidden mechanics since IntelUserCode could be anywhere inside those two APIs, which made the process of getting IntelUserCode really complicated.

3, How to get IntelUserCode

By repeating **try** and **except** loop, it is possible to get IntelUserCode eventually, however, this method is NOT 100% guaranteed to work.

```python
try:
    stdInfo_data = {
        "Router": "/api/temperatureup/querynoup",
        "Method": "POST",
        "Body": stdInfo_body
    }
    stdInfo_response = requests.post(stdInfo_url, headers = stdInfo_headers, json = stdInfo_data,
        verify = False)
    stdInfo_array = json.loads(stdInfo_response.text)
    intelUserCode = stdInfo_array["Data"]["dataOut"][0]['IntelUserCode']
except TypeError:
    # Another Possible Place or the Other API
    try:
        <...>

    except TypeError:
        <...>
```

4, Setting up InteUserCode Manually

When atTemp7.py failed to receive InteUserCode, you will have to submit your temperature manually at antLinker, while capturing the HTTP traffic entirely.

It usually appears among the last few packages, in the form of UUID, save it and paste it as the value of yourInternalStudentID at line18.

```
13    # Two Mandatary Inputed Variables, Once Again, Please Read the Instructions
14    yourUserName = "input_your_encoded_username_here"
15    yourPassword = "input_your_encoded_password_here"
16
17    # One Optional Inputed Variable, Only If It Is Needed for This Script to Run Properly
18    yourInternalStudentID = "236552d5-4b06-375e-8bbc-2fd823520b34"
19
20
```

6, About me

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Who am I? 4tte3p7 Indev

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How can I help you? Probably not, since I'm not studying Computer Science. But I welcome all discussions.

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Why am I here? Good question.

Study for my Final Exam

- Yes, that's real.

Third-Party antLinker Client

- Sounds cool

Battle Against a True Formalism

- :3