## This is meant to be super simple and can just be ‘done’ in spare time.

You will make typos. This will lead to debugging. Which is how we learn,

This will teach how some api responses work. And some python exercises that are super simple. You can ignore anything after #### marks which are meant to be comments.

Every get request has a ‘URAH’, url, requests, authentication, and headers. In the event of a post it also has data that it sends. So we have to set all of these up.

## This assumes you have requests library. If you get a traceback at import requests, load requests library (or reach out to wnellis)

## Step 1 : Define environment

### Ensure you have request module loaded w/ python, i

Python (enter python command interpreter from command line)

>>>

import requests

from requests.auth import HTTPBasicAuth

import json

DNAC='sandboxdnac2.cisco.com'

DNAC\_USER='devnetuser'

DNAC\_PASSWORD='Cisco123!'

INTENT\_API = "https://sandboxdnac.cisco.com/dna/intent/api/v1/"

## Step 2: Get the token

url = 'https://sandboxdnac.cisco.com/dna/system/api/v1/auth/token'

resp = requests.post(url, auth=HTTPBasicAuth(DNAC\_USER, DNAC\_PASSWORD))

print(resp.text) #<<<<<<<<<<< You should see your token)

token = resp.json()['Token']

## Step 2: Use the Token to get a list of devices.

url = INTENT\_API+"network-device”

print(url)

hdr={'x-auth-token': token}

resp = requests.get(url, headers=hdr)

print(resp)

device\_list = resp.json()

print(device\_list)

## Step 3: Make it prettier.

print(json.dumps(device\_list,indent=2))

## Step 4 : get a list of Software.

for device in device\_list[“response”]:

print(device[‘hostname’],device[‘softwareVersion’])

(enter) <<< use the enter key, don’t type this out, if your typing this out your doing it wrong. Read what you just typed.