## 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='sandboxdnac.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.