

Here are the examples of different api calls I've made to Maximo.
This is not a script just a bunch of api calls.

```
#!/usr/bin/python
# more info: https://realpython.com/python-requests/
from pprint import pprint
from requests.packages.urllib3.exceptions import InsecureRequestWarning
from urllib.parse import urlparse

import requests
import base64
#-- ignore bad ssl
requests.packages.urllib3.disable_warnings(InsecureRequestWarning)

#-- encode password for basic auth
maxauth=base64.b64encode(b'<login>:<password>')
host='https://flydenver-maximo-test.mro.com'

headers = {
    'maxauth': maxauth, # BASIC auth = login:passwd
    'Accept': "application/json",
    'Content-Type': "application/json",
    'Allow-Hidden': "true",
}

params = {
    'lean':1, # Remove name space - recommended when working with Maximo JSON
}

###
#- LOGIN -#
url = host+'/maximo/oslc/login'
r = requests.post(url, headers=headers, verify=False)
pprint(r.headers)
pprint(r.json())
###

#- VERIFY LOGIN -#
#-- get user login data
url = host+'/maximo/oslc/whoami'
r = requests.get(url, headers=headers, params=params, verify=False)
pprint(r.json())
pprint(r.json()['email'])
pprint(r.json()['personId'])
###

#- QUERY ASSET USING JSON API -#
#-- returns a list (collection) of assets
#-- 'JSON' api returns url (href) references for data structures
```

```

#-- asset url comes back as localhost, parse url for path and rebuild
url = host+'/maximo/oslc/os/mxasset'
params = {
    'lean':1,
    'oslc.where':'assetnum=108159',
    'oslc.select':'*', # 'oslc.select':'assetnum,location,description,status',
    'oslc.pageSize':1
}
r = requests.get(url, headers=headers, params=params, verify=False)
pprint(r.json())
###

```

```

#- RETURN ASSET USING ASSET URL RETURNED FROM 'JSON' QUERY -#
#-- use first asset in list (collection), grab the url path
path = urlparse(str(r.json()['member'])[0]['href'])
url = host+path.path
r = requests.get(url, headers=headers, params=params, verify=False)
pprint(r.json())
###

```

```

#- QUERY ASSETS USING REST API -#
#-- Maximo supports 2 types of rest API the 'JSON' and the 'REST'
#---- Url and params change for 'REST' api
url = host+'/maxrest/rest/os/mxasset'
params = {
    '_format':'json', # 'REST' api can return JSON or XML
    'compact':1, # Remove namesapce, recomendado when working with Maximo 'REST' api
    'assetnum':'108159',
}
r = requests.get(url, headers=headers, params=params, verify=False)
pprint(r.json())
###

```

```

# - GET ASSET USING 'REST' API AND ASSETUID
url = host+'/maxrest/rest/os/mxasset'+'/1746'
pprint(url)
r = requests.get(url, headers=headers, params=params, verify=False)
pprint(r.headers)
pprint(r.text)
pprint(r.json())
###

```

```

#-- POST TO ASSET USING 'REST' API AND ASSETUID --#
headers = {
    'maxauth': maxauth,
    'Accept': "application/json",
    'Content-Type': "application/json",
    'x-method-override':'PATCH',
}

```

```
'patchtype':'MERGE',  
}
```

```
url = host+'/maxrest/rest/os/mxasset'+'/1746'
```

```
params = {  
    'isrunning': True,  
    'dia_specificlocnotes': 'BCON,BES-28,EAST RJ ESCALATORS',  
}
```

```
r = requests.post(url, headers=headers, params=params, verify=False)  
pprint(r.headers)  
pprint(r.status_code)  
pprint(r.text)  
pprint(r.json())
```