Gerardo Antonio Gracia Vázquez 1222100818 27 de noviembre del 2023

Montarlo en Python3

```python
'''
    Conexion
    Nombre Gerardo Antonio Garcia Vazquez
    Fecha 27 nov 2023
'''

import json
import requests
requests.packages.urllib3.disable_warnings()

api_url = "https://10.10.20.48/restconf/data/ietf-interfaces:interfaces"

headers = { "Accept": "application/yang-data+json",
            "Content-type":"application/yang-data+json"
          }
basicauth = ("developer", "C1sco12345")
resp = requests.get(api_url, auth=basicauth, headers=headers, verify=False)
response_json = resp.json()
print(response_json)
```

Salidas:

```
dukogg@dukogg:~/programacion_redes/UNIDAD 3/2.2Lab$ /bin/python3 "/home/dukogg/programacion_redes/UNIDAD 3/2.5Lab/lab25.py"
{'ietf-interfaces:interfaces': {'interface': [{'name': 'GigabitEthernet1', 'description': 'MANAGEMENT INTERFACE - DON'T TOUCH ME', 'type': 'iana-if-type:ethernetCsmacd', 'enabled': True, 'ietf-ip:ipv4': {'address': [{'ip': '10.10.20.48', 'netmask': '255.255.255.0'}]}, 'ietf-ip:ipv6': {}}, {'name': 'GigabitEthernet2', 'description': 'Network Interface', 'type': 'iana-if-type:ethernetCsmacd', 'enabled': False, 'ietf-ip:ipv4': {}, 'ietf-ip:ipv6': {}}, {'name': 'GigabitEthernet3', 'description': 'Network Interface', 'type': 'iana-if-type:ethernetCsmacd', 'enabled': False, 'ietf-ip:ipv4': {}, 'ietf-ip:ipv6': {}}, {'name': 'Loopback0', 'type': 'iana-if-type:softwareLoopback', 'enabled': True, 'ietf-ip:ipv4': {'address': [{'ip': '10.0.0.1', 'netmask': '255.255.255.0'}]}, 'ietf-ip:ipv6': {}}, {'name': 'Loopback10', 'type': 'iana-if-type:softwareLoopback', 'enabled': True, 'ietf-ip:ipv4': {}, 'ietf-ip:ipv6': {}}, {'name': 'Loopback99', 'type': 'iana-if-type:softwareLoopback', 'enabled': True, 'ietf-ip:ipv4': {}, 'ietf-ip:ipv6': {}}, {'name': 'Loopback109', 'description': 'Configured by RESTCONF ga jadi', 'type': 'iana-if-type:softwareLoopback', 'enabled': True, 'ietf-ip:ipv4': {'address': [{'ip': '10.255.255.9', 'netmask': '255.255.255.0'}]}, 'ietf-ip:ipv6': {}}, {'name': 'VirtualPortGroup0', 'type': 'iana-if-type:propVirtual', 'enabled': True, 'ietf-ip:ipv4': {'address': [{'ip': '192.168.1.1', 'netmask': '255.255.255.0'}]}, 'ietf-ip:ipv6': {}}]}
```

```python
print(json.dumps(response_json, indent=4))
```


```
{
    "ietf-interfaces:interfaces": {
        "interface": [
            {
                "name": "GigabitEthernet1",
                "description": "MANAGEMENT INTERFACE - DON'T TOUCH ME",
                "type": "iana-if-type:ethernetCsmacd",
                "enabled": true,
                "ietf-ip:ipv4": {
                    "address": [
                        {
                            "ip": "10.10.20.48",
                            "netmask": "255.255.255.0"
                        }
                    ]
                },
                "ietf-ip:ipv6": {}
            },
            {
                "name": "GigabitEthernet2",
                "description": "Network Interface",
                "type": "iana-if-type:ethernetCsmacd",
                "enabled": false,
                "ietf-ip:ipv4": {},
                "ietf-ip:ipv6": {}
            },
            {
                "name": "GigabitEthernet3",
                "description": "Network Interface",
                "type": "iana-if-type:ethernetCsmacd",
                "enabled": false,
                "ietf-ip:ipv4": {},
                "ietf-ip:ipv6": {}
            },
            {
                "name": "Loopback0",
                "type": "iana-if-type:softwareLoopback",
                "enabled": true,
                "ietf-ip:ipv4": {
                    "address": [
                        {
                            "ip": "10.0.0.1",
                            "netmask": "255.255.255.0"
                        }
                    ]
                },
                "ietf-ip:ipv6": {}
```

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Segundo codigo

Welcome | lab22_gerardog.py | lab25.py | 2lab25.py ●

home > dukogg > programacion_redes > UNIDAD 3 > 2.5Lab > 2lab25.py > ...

```python
'''
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'''

import json
import requests
requests.packages.urllib3.disable_warnings()
api_url = "https://10.10.20.48/restconf/data/ietf-interfaces:interfaces/interface=Loopback99"

headers = {
            "Accept": "application/yang-data+json",
            "Content-type":"application/yang-data+json"
          }
basicauth = ("developer", "C1sco12345")

yangConfig = {
    "ietf-interfaces:interface": {
        "name": "Loopback99",
        "description": "WHATEVER99",
        "type": "iana-if-type:softwareLoopback",
        "enabled": True,
        "ietf-ip:ipv4": {
            "address": [
                {
                    "ip": "99.99.99.99",
                    "netmask": "255.255.255.0"
                }
            ]
        },
        "ietf-ip:ipv6": {}
    }
}

resp = requests.put(api_url, data=json.dumps(yangConfig), auth=basicauth, headers=headers, verify=False)
if(resp.status_code >= 200 and resp.status_code <= 299):
    print("STATUS OK: {}".format(resp.status_code))
else:
    print("Error code {}, reply: {}".format(resp.status_code, resp.json()))
```

Salida

```
dukogg@dukogg:~/programacion_redes/UNIDAD 3/2.2Lab$ /bin/python3 "/home/dukogg/programacion_redes/UNIDAD 3/2.5Lab/2lab25.py"
STATUS OK: 204
dukogg@dukogg:~/programacion_redes/UNIDAD 3/2.2Lab$
```