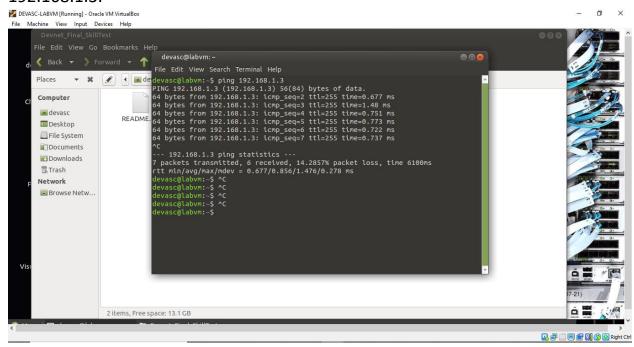
DEVNET SKILL EXAM - 2022

Tho Luong Duc

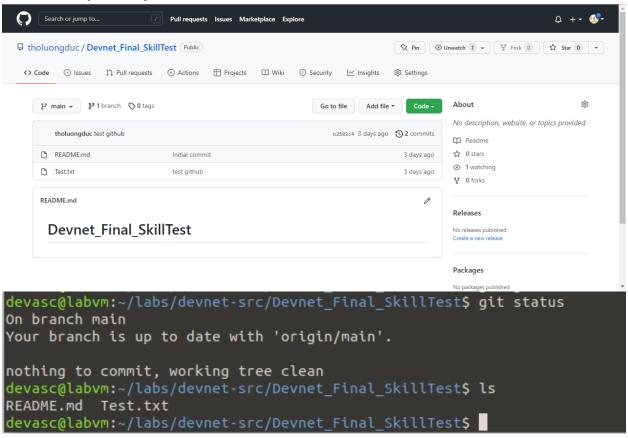
1. Open CSR1000v router on VirtualBox



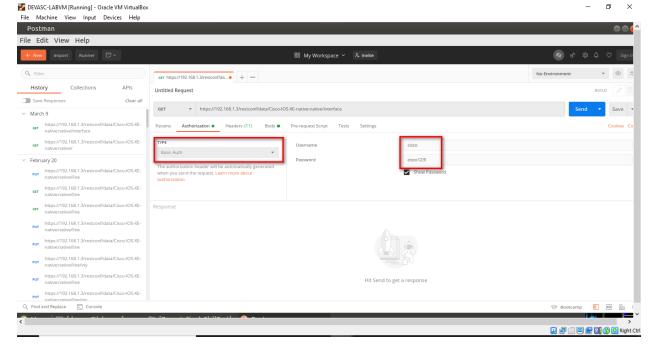
Check connection to router: ping successful to router's IP address 192.168.1.3.

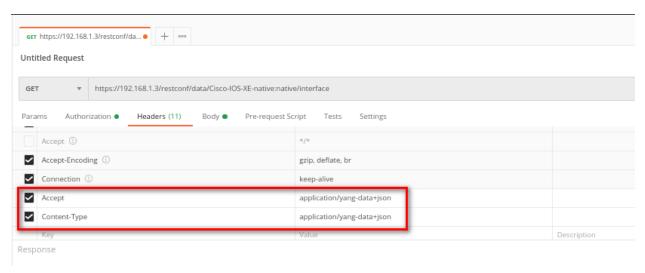


2. Create a repository on Github and clone on local machine



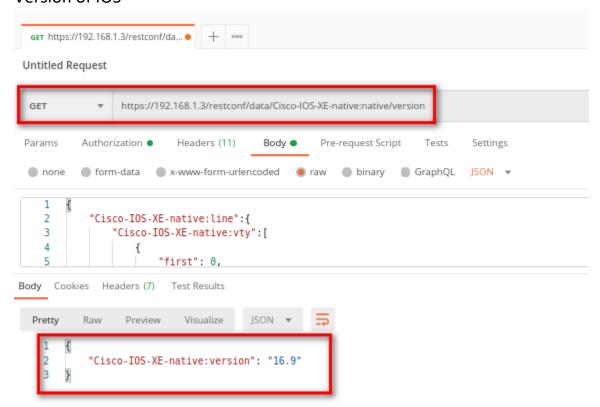
3. Open and configure POSTMAN



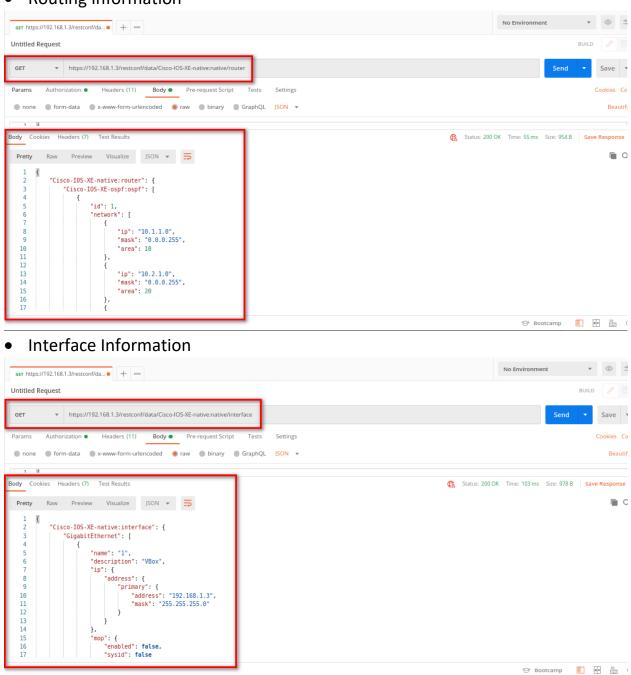


4. Activities using POSTMAN

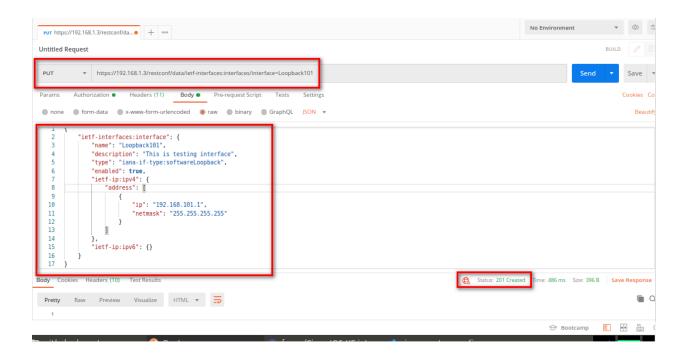
- Get device information
 - Version of IOS



• Routing Information



- Configure some parameters:
 - Create interface loopback 101



5. Configure device for RESTCONF Access

Use python script to send GET request:

```
Python_script_GET_request.py X
home > devasc > labs > devnet-src > Devnet_Final_SkillTest > 🏺 Python_script_GET_request.py
      import json
       import requests
       import sys
       requests.packages.urllib3.disable warnings()
    headers = { "Accept": "application/yang-data+json",
                   "Content-type":"application/yang-data+json"
       basicauth = ("cisco", "cisco123!")
       sys.stdout = open("Python Get Request Result.txt", "w")
       api_url0 = "https://192.168.1.3/restconf/data/Cisco-IOS-XE-native:native/version"
       respθ = requests.get(api_url0, auth=basicauth, headers=headers, verify=False)
       response0_json = resp0.json()
       print(f'IOS Version: \n {response0_json}')
       api_url1 = "https://192.168.1.3/restconf/data/Cisco-IOS-XE-native:native/router"
       respl = requests.get(api_urll, auth=basicauth, headers=headers, verify=False)
       responsel_json = respl.json()
       print(f'Routing Information: \n {responsel_json}')
       api_url2 = "https://192.168.1.3/restconf/data/Cisco-IOS-XE-native:native/interface"
       resp2 = requests.get(api_url2, auth=basicauth, headers=headers, verify=False)
      response2_json = resp2.json()
       print(f'Interface Information: \n {response2_json}')
       sys.stdout.close()
```

Use a python script to send PUT request:

6. Upload all files to Github

Github link: https://github.com/tholuongduc/Devnet Final SkillTest.git

```
devasc@labvm:~/labs/devnet-src/Devnet_Final_SkillTest$ git add *
devasc@labvm:~/labs/devnet-src/Devnet_Final_SkillTest$ git commit -m "Devnet Skill Exam 2022"
[main 4772ab9] Devnet Skill Exam 2022
 5 files changed, 166 insertions(+)
 create mode 100644 POSTMAN_Get Result.txt
 create mode 100644 Python Get Request Result.txt
 create mode 100644 Python PUT Request Result.txt
 create mode 100644 Python_script_GET_request.py
 create mode 100644 Python_script_PUT_Request.py
devasc@labvm:~/labs/devnet-src/Devnet_Final_SkillTest$ git push origin main
Username for 'https://github.com': tholuongduc
Password for 'https://tholuongduc@github.com':
Enumerating objects: 8, done.
Counting objects: 100\% (8/8), done.
Delta compression using up to 2 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 2.58 KiB | 2.58 MiB/s, done.
Total 7 (delta 0), reused 0 (delta 0)
To https://github.com/tholuongduc/Devnet_Final_SkillTest.git
   b2502c4..4772ab9 main -> main
devasc@labvm:~/labs/devnet-src/Devnet_Final_SkillTest$
```