

EDU031

1. 이름 출력 Python 코드

```
f = open("name.txt", 'r', encoding="UTF-8")
name = f.readline()
for i in range(20):
    print(str(i+1)+" : "+name)
```

2. 외부 IP 출력 python 코드 및 외부 IP의 국적

```
filename = 'netstat.txt'
with open(filename, 'r', encoding="UTF-8") as data:
    lines = data.readlines()

def split_host_port(string):
    if not string.rsplit(':', 1)[-1].isdigit():
        return (string, None)

    string = string.rsplit(':', 1)

    host = string[0] # 1st index is always host
    port = int(string[1])

    return (host, port)

establish_list=[]
http_list=[]

for line in lines:
    line_list = line.split()
    for i, val in enumerate(line_list):
        if val is not None and val != "":
            #print (i,val)
            if(i==3 and val=="ESTABLISHED"):
                establish_list.append(line_list)

for i, val in enumerate(establish_list):
    if val is not None and val != "":
        print (i,val[-3][-2:])
        if(val[-3][-2:]=="80" and val[-3][-4:]!="8080"):
            http_list.append(val[-3][:3])
print(http_list)
```

출력된 외부 ip 리스트

```
['37.156.36.44', '37.156.36.44', '39.105.4.53', '45.112.188.34', '85.133.128.2', '85.133.128.2',
'85.133.128.2']
```

'37.156.36.44': **Country:** 🇷🇴 Romania

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'39.105.4.53': **Country:** 🇨🇳 China

'45.112.188.34': **Country:** 🇨🇳 China

'85.133.128.2': **Country:** 🇮🇷 Iran, Islamic Republic of

'85.133.128.2': **Country:** 🇮🇷 Iran, Islamic Republic of

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3. 포트 스캔 결과 캡처 화면

```
20 packets transmitted, 0 received, 100% packet loss, time 19449ms

fabric@fabric-VirtualBox:~$ nmap -sT 54.180.137.70

Starting Nmap 7.60 ( https://nmap.org ) at 2020-06-16 18:59 KST
Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn
Nmap done: 1 IP address (0 hosts up) scanned in 3.42 seconds
fabric@fabric-VirtualBox:~$ nmap -sT -f 54.180.137.70
Sorry, but fragscan requires root privileges. (R)
QUITTING!
fabric@fabric-VirtualBox:~$ sudo nmap -sT -f 54.180.137.70

Starting Nmap 7.60 ( https://nmap.org ) at 2020-06-16 18:59 KST
Nmap scan report for ec2-54-180-137-70.ap-northeast-2.compute.amazonaws.com (54.180.137.70)
Host is up (0.012s latency).
Not shown: 996 filtered ports
PORT      STATE SERVICE
22/tcp    open  ssh
8088/tcp   open  radan-http
8089/tcp   open  unknown
8090/tcp   open  opsmessaging

Nmap done: 1 IP address (1 host up) scanned in 4.76 seconds
fabric@fabric-VirtualBox:~$ sudo nmap -sT -fv 54.180.137.70

Starting Nmap 7.60 ( https://nmap.org ) at 2020-06-16 19:00 KST
Initiating Ping Scan at 19:00
Scanning 54.180.137.70 [4 ports]
Completed Ping Scan at 19:00, 0.20s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 19:00
Completed Parallel DNS resolution of 1 host. at 19:00, 0.00s elapsed
Initiating Connect Scan at 19:00
Scanning ec2-54-180-137-70.ap-northeast-2.compute.amazonaws.com (54.180.137.70) [1000 ports]
Discovered open port 22/tcp on 54.180.137.70
Discovered open port 8090/tcp on 54.180.137.70
Discovered open port 8089/tcp on 54.180.137.70
Completed Connect Scan at 19:00, 10.67s elapsed (1000 total ports)
Nmap scan report for ec2-54-180-137-70.ap-northeast-2.compute.amazonaws.com (54.180.137.70)
Host is up (0.013s latency).
Not shown: 997 filtered ports
PORT      STATE SERVICE
22/tcp    open  ssh
8089/tcp   open  unknown
8090/tcp   open  opsmessaging

Read data files from: /usr/bin/./share/nmap
Nmap done: 1 IP address (1 host up) scanned in 11.15 seconds
Raw packets sent: 4 (152B) | Rcvd: 1 (40B)
```