# Pharming Certificate

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## 1. Option 명령어

```
def main():
   # 여기서 입력을 인자를 받는 파라미터는 단일문자일 경우 ':' 긴문자일경우 '='을끝에 붙여주면됨
       opts, args = getopt.getopt(sys.argv[1:],"p:i:",["input=","help"])
   except getopt.GetoptError as err:
       print (str(err))
       help()
       sys.exit(1)
   proxy_option = 0
   cert path = None
   if opts == [] :
       help()
       sys.exit(1)
   for opt, arg in opts:
       if (opt == '-p'):
           proxy_option = arg
          work.selinumDownload(proxy option)
       elif (opt == '-i' or opt =='--input'):
           cert_path = arg
           work.search(cert_path)
           dbquery.inputIPDB()
       elif ( opt == "-h") or ( opt == "--help"):
           help()
           sys.exit(1)
```

```
C:\Users\taegue\Downloads\pharming-master\pharming-master>python

C:\Users\taegue\Downloads\pharming-master\pharming-master>python main.py -h
option -h not recognized
print help usage
[-p] is proxy option and download cert
    use proxy 1
    None use proxy 0

[-i][--input] is input cert info insert databse path
[-h][--help] is help option
```

#### 2. selinum download

```
def selinumDownload(prox flag):
                                                                                                Index of /cert
    url = "http://45.76.212.45/cert/"
                                                                                                                                                                               0
                                                                                                           ① 주의 요함 | 45.76.212.45/cert/
    ipcheck url = 'https://httpbin.org/ip'
    i = 4
                                                                                               Chrome이 자동화된 테스트 소프트웨어에 의해 제어되고 있습니다.
                                                                                                                                                                                   ×
    while True :
                                                                                              2.6.25.21.zip
                                                                                                                   2019-01-06 12:57 191
        if (prox_flag == 1):
                                                                                              2.7.114.140.zip
                                                                                                                   2019-01-06 12:56 190
                proxies = get proxies()
                                                                                              2.7.146.215.zip
                                                                                                                   2019-01-06 12:57 194
                proxy pool = cycle(proxies)
                                                                                              2.9.96.83.zip
                                                                                                                   2019-01-06 12:57 191
                proxy = next(proxy pool)
                if (i>=37000):
                                                                                              2.10.132.231.zip
                                                                                                                   2019-01-06 12:57 190
                                                                                               2.13.4.147.zip
                                                                                                                   2019-01-06 12:57 188
                response = requests.get(ipcheck url,proxies={"http": proxy, "https": proxy})
                print(response.json())
                                                                                              2.19.142.56.zip
                                                                                                                   2019-01-06 12:57 194
                chrome options = webdriver.ChromeOptions()
                                                                                                                   2019-01-06 12:57 193
                                                                                                 2.20.117.98.zip
                chrome options.add argument('--proxy-server=%s' % proxy)
                                                                                              2.29.106.162.zip
                                                                                                                   2019-01-06 12:57 193
                driver = webdriver.Chrome(options=chrome options)
                driver.get(url)
                                                                                              2.32.39.167.zip
                                                                                                                   2019-01-06 12:57 193
                for j in range(i, i+1000):
                                                                                              2.32.111.176.zip
                                                                                                                   2019-01-06 12:57 189
                                                                                              2.33.216.2.zip
                                                                                                                   2019-01-06 12:57 193
                        download_url = '/html/body/table/tbody/tr[' + str(
                                                                                              2.34.98.132.zip
                                                                                                                   2019-01-06 12:57 193
                            j) + ']/td[2]/a'
                        driver.find element by xpath(download url).click()
                                                                                                                   2019-01-06 12:57 192
                                                                                                 2.37.122.156.zip
                        i = i+1
                                                                                                 2.40.172.72.zip
                                                                                                                   2019-01-06 12:57 191
                                                                                              2.40.177.147.zip
                        print("end")
                                                                                                                   2019-01-06 12:57 190
                                                                                               2.19.142.56.zip
                                                                                                                                                                          전체 보기
                                                                                                                              2.13.4.147.zip
                print("Skipping. Connnection error")
```

### 3. 압축해제 및 DB 파일저장

```
def search(dirname):
    sql insertList =[]
    count = 0
    try:
        filenames = os.listdir(dirname)
        for filename in filenames:
            full filename = os.path.join(dirname, filename)
            if os.path.isdir(full filename):
                search(full filename)
                ext = os.path.splitext(full filename)[-1]
                if ext == '.zip':
                    cert = unZip(full filename)
                    sql insertList.append(cert)
                    count = count + 1
                    if len(sql insertList) >= 2000 or count >= len(filenames):
                        # print (sql insertList)
                        dbquery.inputDB(sql insertList)
                        sql insertList = []
        return 1
    except PermissionError:
        print ("permission Denided")
```

### 4. 인증서 정보 파싱

```
#공인인증서 정보 추출

return type
['name', '83230778832671167227', 'woori', 'personal', 'yessign', 'country']

reg_info = '^cn=([가-힝]+)(()([0-z]+),ou=([a-zA-Z]+),ou=([a-zA-Z]+),o=([a-zA-Z]+),c=([a-zA-Z]+)'

cert_value = re.findall(reg_info, text)
cert_list =[]

for i in range(0, len(cert_value[0])):
    cert_list.append(cert_value[0][i])
# print (cert_list)
#exit(1)
return cert_list
```

#### 5. DB 데이터 저장

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```
def inputIPDB():
    fp = open('ipinfo.txt', 'r')
    conn = pymysql.connect(host='localhost', user='root', password='1234',
                           db='cert info', charset='utf8')
    sql = """insert into ip_info(ip_addr, date, country) values (%s, %s, %s)"""
    curs = conn.cursor()
    input IPdbList = []
    count = 0
    while (True):
        iptime = fp.readline()
        count = count + 1
        if (len(input_IPdbList) >= 3000 or iptime==''):
            for i in range(0, len(input IPdbList)):
                curs.execute(sql, (input IPdbList[i][0], input IPdbList[i][1], input IPdbList[i][2]))
            input IPdbList = []
            print ('input db')
            conn.commit()
            if (iptime == ''):
                break
        ipList = retIPList(iptime)
        input IPdbList.append(ipList)
```

#### 6. Whois API 국가조회

```
def getCountry(ip_info):
    api_key = '2018083111331754935052'

url = 'http://whois.kisa.or.kr/openapi/ipascc.jsp?query=' + ip_info + '&key=' + api_key + '&answer=json'
# url = 'http://whois.kisa.or.kr/openapi/ipascc.jsp?query=211.101.23.45&key=2018083111331754935052&answer
req = requests.get(url)
    text = req.text

data = json.loads(text)
    return data["whois"]["countryCode"]
```

seq	ip_addr	date	country
1	2.6.202.40	2018-06-26 17:54:00	FR
2	2.8.29.49	2018-06-26 17:53:00	FR
3	2.8.226.42	2018-06-26 17:55:00	FR
4	2.9.186.198	2018-06-26 17:55:00	FR
5	2.11.166.3	2018-06-26 17:52:00	FR
6	2.11.225.47	2018-06-26 17:55:00	FR
7	2.12.35.126	2018-06-26 17:52:00	FR
0	2 12 120 102	2010 05 25 17-54-00	ED

count(\*) 36834

### 7. 저장 결과

