

Shodan API 활용

Python

📄 복사

```
#pip install shodan import shodan import json # Shodan API 키를 설정합니다.
SHODAN_API_KEY = 'Z2soDBnFLLNRKZsamG9hUQLtBBh9GTWH' api =
shodan.Shodan(SHODAN_API_KEY) # 웹캠을 검색합니다. query = 'apache' results
= api.search(query) print(f"총 결과 : {results['total']}") try: for match
in results['matches'][:2]: #print(json.dumps(result, indent=4)) print(f"IP
정보: {match['ip_str']}") print(f"포트정보: {match['port']}") print(f"Org:
{match.get('org', 'N/A')}") print(f"Location: {match['location']
['country_name']}") print(f"Hostnames: {' , '.join(match['hostnames']) if
match['hostnames'] else 'N/A'}") except shodan.APIError as e: print(f"오
류: {e}")
```

```
Python\Python313\python.exe' 'c:\Users\ngnic\.vscode\extensions\ms-py
64\bundled\libs\debugpy\launcher' '52846' '--' 'c:\python_ex26\flask0
결과 : 17732685
보: 50.124.42.59
정보: 21317
Ivs Comm Inc
tion: United States
names: 50-124-42-59.f4206eb11244733a26ded667892dd9a7.ip.frontiernet.n
보: 211.83.10.25
정보: 16007
China Education and Research Network
tion: China
names: N/A
:\python_ex26\flask03> █
```

위의 정보들은 플라스크를 이용해서 사용자에게 검색을 받아서 테이블로 출력하는 사
례

app.py

```

from flask import Flask, request, render_template import shodan app =
Flask(__name__) # Shodan API 키를 설정합니다. SHODAN_API_KEY =
'Z2soDBnFLLNRKZsamG9hUQLtBBh9GTWtH' api = shodan.Shodan(SHODAN_API_KEY)
@app.route('/', methods=['GET', 'POST']) def home(): results = None
product = None if request.method == 'POST': product =
request.form.get('product') query = f'product:{product}' try: # Shodan 검색
을 수행합니다. shodan_results = api.search(query) results =
shodan_results['matches'][:5] except shodan.APIError as e: results = []
return render_template('search.html', results=results, product=product) if
__name__ == '__main__': app.run(debug=True)

```

search.html

```

<!doctype html> <html lang="en"> <head> <meta charset="utf-8">
<title>Shodan Search</title> <style> table, th, td { border: 1px solid
black; border-collapse: collapse; padding: 8px; } th { background-color:
#f2f2f2; } </style> </head> <body> <h1>Shodan Search</h1> <form
method="post"> <label for="product">Product:</label> <input type="text"
id="product" name="product"> <input type="submit" value="Search"> </form>
{% if results %} <h2>'{{ product }}' 쇼단 검색 결과 </h2> <table> <tr>
<th>IP</th> <th>Port</th> <th>Organization</th> <th>Location</th>
<th>Hostnames</th> <th>Domains</th> <th>Timestamp</th> </tr> {% for match
in results %} <tr> <td>{{ match['ip_str'] }}</td> <td>{{ match['port'] }}
</td> <td>{{ match.get('org', 'N/A') }}</td> <td>{{ match['location']
['country_name'] }}</td> <td>{{ ', '.join(match['hostnames']) if
match['hostnames'] else 'N/A' }}</td> <td>{{ ', '.join(match['domains'])
if match['domains'] else 'N/A' }}</td> <td>{{ match['timestamp'] }}</td>
</tr> {% endfor %} </table> {% endif %} </body> </html>

```

