projectdiscovery / **uncover** Public

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About

Quickly discover exposed hosts on the internet using multiple search engines.

#cli #osint #asm #recon #bugbounty #reconnaissance #attack-surface

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- Activity
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- **2.3k** stars
- **37** watching
- **190** forks

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Releases 19

v1.0.9 Latest
4 days ago

+ 18 releases

Packages

No packages published

Used by 166

Contributors 22

+ 8 contributors

Languages

- Go 98.8%
- Other 1.2%

README · Code of conduct · More

uncover

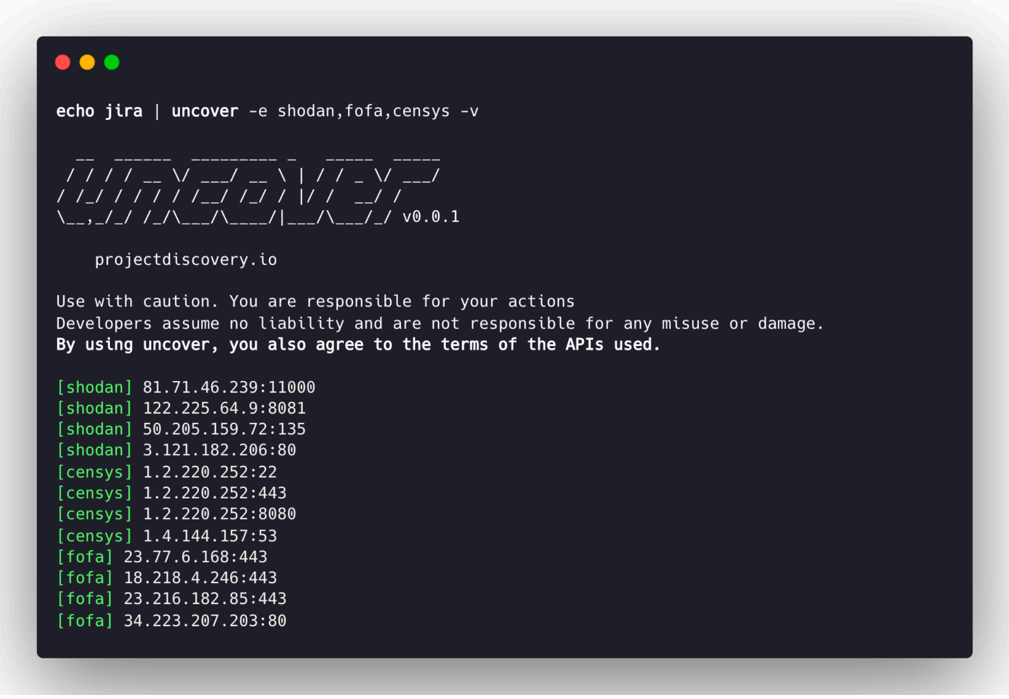
Quickly discover exposed hosts on the internet using multiple search engines.

Go v1.21 · contributions welcome · release v1.0.9 · Follow @pdiscoveryio · chat 833 online

Features • Installation • Usage • Configuration • Running Uncover • Join Discord

uncover is a go wrapper using APIs of well known search engines to quickly discover exposed hosts on the internet. It is built with automation in mind, so you can query it and utilize the results with your current pipeline tools.

Features



```
echo jira | uncover -e shodan,fofa,censys -v

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    projectdiscovery.io

Use with caution. You are responsible for your actions
Developers assume no liability and are not responsible for any misuse or damage.
By using uncover, you also agree to the terms of the APIs used.

[shodan] 81.71.46.239:11000
[shodan] 122.225.64.9:8081
[shodan] 50.205.159.72:135
[shodan] 3.121.182.206:80
[censys] 1.2.220.252:22
[censys] 1.2.220.252:443
[censys] 1.2.220.252:8080
[censys] 1.4.144.157:53
[fofa] 23.77.6.168:443
[fofa] 18.218.4.246:443
[fofa] 23.216.182.85:443
[fofa] 34.223.207.203:80
```

- Query multiple search engine at once
- Available Search engine support
  - Shodan
  - Censys
  - FOFA
  - Hunter
  - Quake
  - Zoomeye
  - Netlas
  - CriminalIP
  - PublicWWW
  - HunterHow
  - Google
- Multiple API key input support
- Automatic API key randomization
- **stdin** / **stdout** support for input

Installation Instructions

uncover requires **go1.21** to install successfully. Run the following command to get the repo -

```
go install -v github.com/projectdiscovery/uncover/cmd/uncover@latest
```

Usage

```
uncover -h
```

This will display help for the tool. Here are all the flags it supports:

```
Usage:
  ./uncover [flags]

Flags:
INPUT:
   -q, -query string[]   search query, supports: stdin,file,config input (example: -q 'example query', -q 'query.txt'
   -e, -engine string[]  search engine to query (shodan,shodan-idb,fofa,censys,quake,hunter,zoomeye,netlas,criminalip

SEARCH-ENGINE:
   -s, -shodan string[]       search query for shodan (example: -shodan 'query.txt')
   -sd, -shodan-idb string[]  search query for shodan-idb (example: -shodan-idb 'query.txt')
   -ff, -fofa string[]        search query for fofa (example: -fofa 'query.txt')
   -cs, -censys string[]      search query for censys (example: -censys 'query.txt')
   -qk, -quake string[]       search query for quake (example: -quake 'query.txt')
   -ht, -hunter string[]      search query for hunter (example: -hunter 'query.txt')
   -ze, -zoomeye string[]     search query for zoomeye (example: -zoomeye 'query.txt')
   -ne, -netlas string[]      search query for netlas (example: -netlas 'query.txt')
   -cl, -criminalip string[]  search query for criminalip (example: -criminalip 'query.txt')
   -pw, -publicwww string[]   search query for publicwww (example: -publicwww 'query.txt')
   -hh, -hunterhow string[]   search query for hunterhow (example: -hunterhow 'query.txt')
   -gg, -google string[]       search query for google (example: -google 'query.txt')

CONFIG:
   -pc, -provider string        provider configuration file (default "$CONFIG/uncover/provider-config.yaml")
   -config string               flag configuration file (default "$CONFIG/uncover/config.yaml")
   -timeout int                 timeout in seconds (default 30)
   -rl, -rate-limit int         maximum number of http requests to send per second
   -rlm, -rate-limit-minute int maximum number of requests to send per minute
   -retry int                   number of times to retry a failed request (default 2)

OUTPUT:
   -o, -output string  output file to write found results
   -f, -field string   field to display in output (ip,port,host) (default "ip:port")
   -j, -json           write output in JSONL(ines) format
   -r, -raw            write raw output as received by the remote api
   -l, -limit int      limit the number of results to return (default 100)
   -nc, -no-color      disable colors in output

DEBUG:
   -silent   show only results in output
   -version  show version of the project
   -v        show verbose output
```

Using uncover as library

Example of using uncover as library is provided in examples directory.

Provider Configuration

The default provider configuration file should be located at `$CONFIG/uncover/provider-config.yaml` and has the following contents as an example.

> **Note**: API keys are required and must be configured before running uncover.

```yaml
shodan:
  - SHODAN_API_KEY_1
  - SHODAN_API_KEY_2
censys:
  - CENSYS_API_ID_1:CENSYS_API_SECRET_1
  - CENSYS_API_ID_2:CENSYS_API_SECRET_2
fofa:
  - FOFA_EMAIL_1:FOFA_KEY_1
  - FOFA_EMAIL_2:FOFA_KEY_2
quake:
  - QUAKE_TOKEN_1
  - QUAKE_TOKEN_2
hunter:
  - HUNTER_API_KEY_1
  - HUNTER_API_KEY_2
zoomeye:
  - ZOOMEYE_API_KEY_1
  - ZOOMEYE_API_KEY_2
netlas:
  - NETLAS_API_KEY_1
  - NETLAS_API_KEY_2
criminalip:
  - CRIMINALIP_API_KEY_1
  - CRIMINALIP_API_KEY_2
publicwww:
  - PUBLICWWW_API_KEY_1
  - PUBLICWWW_API_KEY_2
hunterhow:
  - HUNTERHOW_API_KEY_1
  - HUNTERHOW_API_KEY_2
google:
  - GOOGLE_API_KEY_1:Google_API_CX_1
  - GOOGLE_API_KEY_2:Google_API_CX_2
```

When multiple keys/credentials are specified for same provider in the config file, random key will be used for each execution.

alternatively you can also set the API key as environment variable in your bash profile.

```
export SHODAN_API_KEY=xxx
export CENSYS_API_ID=xxx
export CENSYS_API_SECRET=xxx
export FOFA_EMAIL=xxx
export FOFA_KEY=xxx
export QUAKE_TOKEN=xxx
export HUNTER_API_KEY=xxx
export ZOOMEYE_API_KEY=xxx
export NETLAS_API_KEY=xxx
export CRIMINALIP_API_KEY=xxx
export PUBLICWWW_API_KEY=xxx
export HUNTERHOW_API_KEY=xxx
export GOOGLE_API_KEY=xxx
export GOOGLE_API_CX=xxx
```

Required API keys can be obtained by signing up on following platform Shodan, Censys, Fofa, Quake, Hunter, ZoomEye, Netlas, CriminalIP, Publicwww and Google [1],[2].

Running Uncover

Default run:

uncover supports multiple ways to make the query including **stdin** or `q` flag, as default `shodan` engine is used for search if no engine is specified.

```
echo 'ssl:"Uber Technologies, Inc."' | uncover

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[WRN] Use with caution. You are responsible for your actions
[WRN] Developers assume no liability and are not responsible for any misuse or damage.
[WRN] By using uncover, you also agree to the terms of the APIs used.

107.180.12.116:993
107.180.26.155:443
104.244.99.31:443
161.28.20.79:443
104.21.8.108:443
198.71.233.203:443
104.17.237.13:443
162.255.165.171:443
12.237.119.61:443
192.169.250.211:443
104.16.251.50:443
```

Running **uncover** with **file** input containing multiple search queries per line.

```
cat dorks.txt

ssl:"Uber Technologies, Inc."
title:"Grafana"
```

```
uncover -q dorks.txt

  __  ______  _________ _   _____  _____
 / / / / __ \/ ___/ __ \ | / / _ \/ ___/
/ /_/ / / / / /__/ /_/ / |/ /  __/ /
\__,_/_/ /_/\___/\____/|___/\___/_/ v0.0.9
```

```
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107.180.12.116:993
107.180.26.155:443
104.244.99.31:443
161.28.20.79:443
104.21.8.108:443
198.71.233.203:443
2607:7c80:54:3::74:3001
104.198.55.35:80
46.101.82.244:3000
34.147.126.112:80
138.197.147.213:8086
```

Single query against multiple search engine

uncover supports multiple search engine, as default **shodan** is used, `-e` flag can be used to run same query against any or all search engines.

```
echo jira | uncover -e shodan,censys,fofa,quake,hunter,zoomeye,netlas,criminalip

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 / / / / __ \/ ___/ __ \ | / / _ \/ ___/
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176.31.249.189:5001
13.211.116.80:443
43.130.1.221:631
192.195.70.29:443
52.27.22.181:443
117.48.120.226:8889
106.52.115.145:49153
13.69.135.128:443
193.35.99.158:443
18.202.109.218:8089
101.36.105.97:21379
42.194.226.30:2626
```

Multiple query against multiple search engine

```
uncover -shodan 'http.component:"Atlassian Jira"' -censys 'services.software.product=`Jira`' -fofa 'app="ATLASSIAN-JI

  __  ______  _________ _   _____  _____
 / / / / __ \/ ___/ __ \ | / / _ \/ ___/
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[WRN] Developers assume no liability and are not responsible for any misuse or damage.
[WRN] By using uncover, you also agree to the terms of the APIs used.

104.68.37.129:443
162.222.160.42:443
34.255.84.133:443
52.204.121.166:443
23.198.29.120:443
136.156.180.95:443
54.194.233.15:443
104.117.55.155:443
```

```
149.81.4.6:443
54.255.218.95:443
3.223.137.57:443
83.228.124.171:443
23.202.195.82:443
52.16.59.25:443
18.159.145.227:443
104.105.53.236:443
```

Shodan-InternetDB API

uncover supports shodan-internetdb API to pull available ports for given IP/CIDR input.

`shodan-idb` used as **default** engine when **IP/CIDR** is provided as input, otherwise `shodan` search engine is used.

```
echo 51.83.59.99/24 | uncover


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[WRN] Developers assume no liability and are not responsible for any misuse or damage.
[WRN] By using uncover, you also agree to the terms of the APIs used.

51.83.59.1:53
51.83.59.1:10000
51.83.59.2:53
51.83.59.3:25
51.83.59.3:80
51.83.59.3:389
51.83.59.3:443
51.83.59.3:465
51.83.59.3:587
51.83.59.3:993
```

Field Format

`-f, -field` flag can be used to indicate which fields to return, currently, `ip`, `port`, and `host` are supported and can be used to return desired fields.

```
uncover -q jira -f host -silent

ec2-44-198-22-253.compute-1.amazonaws.com
ec2-18-246-31-139.us-west-2.compute.amazonaws.com
tasks.devrtb.com
leased-line-91-149-128-229.telecom.by
74.242.203.213.static.inetbone.net
ec2-52-211-7-108.eu-west-1.compute.amazonaws.com
ec2-54-187-161-180.us-west-2.compute.amazonaws.com
185-2-52-226.static.nucleus.be
ec2-34-241-80-255.eu-west-1.compute.amazonaws.com
```

Field Formatting

uncover has a `-f, -field` flag that can be used to customize the output format. For example, in the case of `uncover -f https://ip:port/version`, ip:port will be replaced with results in the output while keeping the format defined, It can also be used to specify a known scheme/path/file in order to prepare the output so that it can be immediately passed as input to other tools in the pipeline.

```
echo kubernetes | uncover -f https://ip:port/version -silent

https://35.222.229.38:443/version
https://52.11.181.228:443/version
https://35.239.255.1:443/version
https://34.71.48.11:443/version
https://130.211.54.173:443/version
https://54.184.250.232:443/version
```

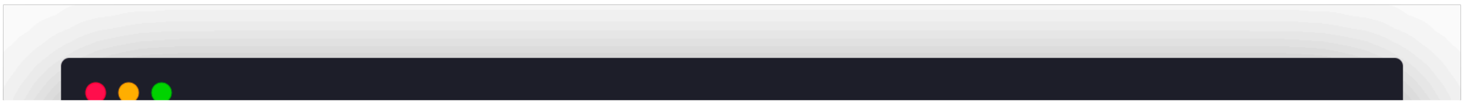
Output of **uncover** can be further piped to other projects in workflow accepting **stdin** as input, for example:

- `uncover -q example -f ip | naabu` - Runs naabu for port scanning on the found host.
- `uncover -q title:GitLab | httpx` - Runs httpx for web server probing the found result.
- `uncover -q 51.83.59.99/24 | httpx` - Runs httpx on host/ports obtained from shodan-internetdb.

```
uncover -q http.title:GitLab -silent | httpx -silent

https://15.185.150.109
https://139.162.137.16
https://164.68.115.243
https://135.125.215.186
https://163.172.59.119
http://15.236.10.197
https://129.206.117.248
```

- `uncover -q 'org:"Example  Inc."' | httpx | nuclei` - Runs httpx / nuclei for vulnerability assessment.



Notes:

- **keys/ credentials** are required to configure before running or using this project.