

# [CTI] Shodan

## Introduction

Shodan est un moteur de recherche permettant de trouver des machines exposées sur Internet avec des filtres.



# SHODAN

## Manuel

Vous pouvez accéder à l'interface de Shodan :

- <https://www.shodan.io/dashboard>

## Usage

<FILTER>:<VALUE>

## Filtres

Voici quelques filtres courants :

Filtres
ip
port
org
country
city
product
version
os

Sinon voici la liste complète des filtres :

- <https://www.shodan.io/search/filters>

## Exemples

- Chercher des informations sur une IP spécifique :

ip:8.8.8.8

Chercher toutes les machines françaises de l'hébergeur Scaleway :

country:FR org:scaleway

Chercher toutes les machines Ubuntu ayant un service SSH :

os:ubuntu port:22

Vous pouvez retrouver plus d'exemples :

- <https://www.shodan.io/search/examples>
- <https://github.com/BushidoUK/OSINT-SearchOperators/blob/main/ShodanQueriesAppliances.csv>

## Analyse

Vous pouvez analyser les résultats rapidement grâce à la section **View Report** :

SHODAN

Explore

Downloads

Pricing

os:ubuntu

Q

Account

TOTAL RESULTS

5,358,841

TOP COUNTRIES

United States

1,501,713

Germany

713,319

China

366,410

Singapore

277,257

Japan

220,784

More...

TOP PORTS

80

1,726,661

22

1,668,493

443

1,301,521

9100

118,124

2222

43,267

More...

TOP ORGANIZATIONS

DigitalOcean, LLC

796,432

View Report

Download Results

Historical Trend

Browse Images

View on Map

Advanced Search

Product Spotlight: Keep track of what you have connected to the Internet. Check out [Shodan Monitor](#)

Facultad de Arquitectura y Ambiente Construido FARAC USACH | Inicio - Facultad de Arquitectura y Ambiente Construido FARAC USACH

2024-10-08T07:20:26.775938

158.170.66.48

arquitectura.usach.cl

SEGIC USACH LTDA

Chile, Santiago

end-product

SSL Certificate

Issued By: R11

Issued To: Let's Encrypt

Issued To: Let's Encrypt

Common Name: arquitectura.usach.cl

Supported SSL Versions: TLSv1.2, TLSv1.3

HTTP/1.1 200 OK

Server: nginx/1.18.0 (Ubuntu)

Date: Tue, 08 Oct 2024 07:15:54 GMT

Content-Type: text/html; charset=UTF-8

Transfer-Encoding: chunked

Connection: keep-alive

X-Powered-By: PHP/8.0.5

Link: <https://arquitectura.usach.cl/wp-json/>; rel="https://api.w.org/"

Link: <https://arquit...

VegaSystems IT Consulting & Solutions Paderborn NRW: Under Construction

2024-10-08T07:20:26.076800

80.170.176.85

webdirect.vegasytems.de

www.vegasytems.de

Vegasytems Core

Germany, Paderborn

end-product

SSL Certificate

Issued By: es

Issued To: Let's Encrypt

Issued To: webdirect.vegasytems.de

Common Name: webdirect.vegasytems.de

Supported SSL Versions: TLSv1.2, TLSv1.3

HTTP/1.1 200 OK

Server: nginx/1.18.0 (Ubuntu)

Date: Tue, 08 Oct 2024 07:15:53 GMT

Content-Type: text/html

Content-Length: 1436

Last-Modified: Tue, 04 Apr 2017 11:58:46 GMT

Connection: keep-alive

Etag: "58e3a7e-59c"

Accept-Ranges: bytes

147.52.205.213

University of Crete

Greece, Gazi

SSH-2.0-OpenSSH\_7.6p1 Ubuntu-4ubuntu0.7

Key type: ssh-rsa

Key: AAAAB3NzaC1yc2EAAAADAQABAAQDAI153y15btfmNoBwC1Dn7Hh8BS5wrr7ZmVd0f7

On voir les ports les plus exposés, les services les plus utilisés, les hébergeurs les plus utilisés pour ces machines etc :

SHODAN

Explore

Downloads

Pricing

os:ubuntu

Q

Account

Shodan Report

os:ubuntu

Total: 5,359,080

GENERAL

World map showing distribution of results by country.

Countries

United States

1,501,713

Germany

713,319

China

366,410

Singapore

277,257

Japan

220,784

Ports

80

1,726,661

22

1,668,493

443

1,301,521

9100

118,124

2222

43,267

MORE...

Organization

DigitalOcean, LLC

796,432

Amazon Technologies Inc.

219,124

Netflix Online GmbH

178,209

Google LLC

164,526

Alipay Computing Co., Ltd

123,266

MORE...

Vulnerabilities

CVE-2024-23897

2,176

PHPAN

219

Log4j

213

CVE-2021-43948

186

Heartbleed

21

MORE...

Products

nginx

3,448,740

OpenSSH

1,762,769

Proxmox/ve Node Exporter

120,974

Grafana/loki SourceSet

4,565

Jenkins

4,507

MORE...

Tags

end-product

3,444,992

cloud

2,367,062

self-signed

39,130

proxy

11,034

cdn

17,078

MORE...

Operating Systems

Ubuntu

5,227,077

Ubuntu 20.04 & LTS (Focal Fossa) Lin...

6,054

Ubuntu 22.04 & LTS (Jammy Jellyfish) ...

4,198

Ubuntu 20.04 & LTS (Focal Fossa) Lin...

4,125

Ubuntu 22.04 & LTS (Jammy Jellyfish) ...

4,042

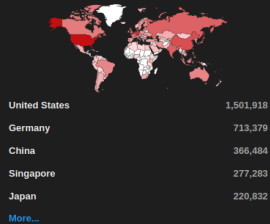
MORE...

Vous pouvez aussi consulter les statistiques pour cette query dans le temps grâce à l'onglet **Historical Trends** :

TOTAL RESULTS

5,359,574

TOP COUNTRIES





TOP PORTS


80	1,728,827
22	1,668,706
443	1,301,665
9100	118,159
2222	43,287
More...	


TOP ORGANIZATIONS


DigitalOcean, LLC	796,495
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 View Report

 Download Results










 Historical Trend

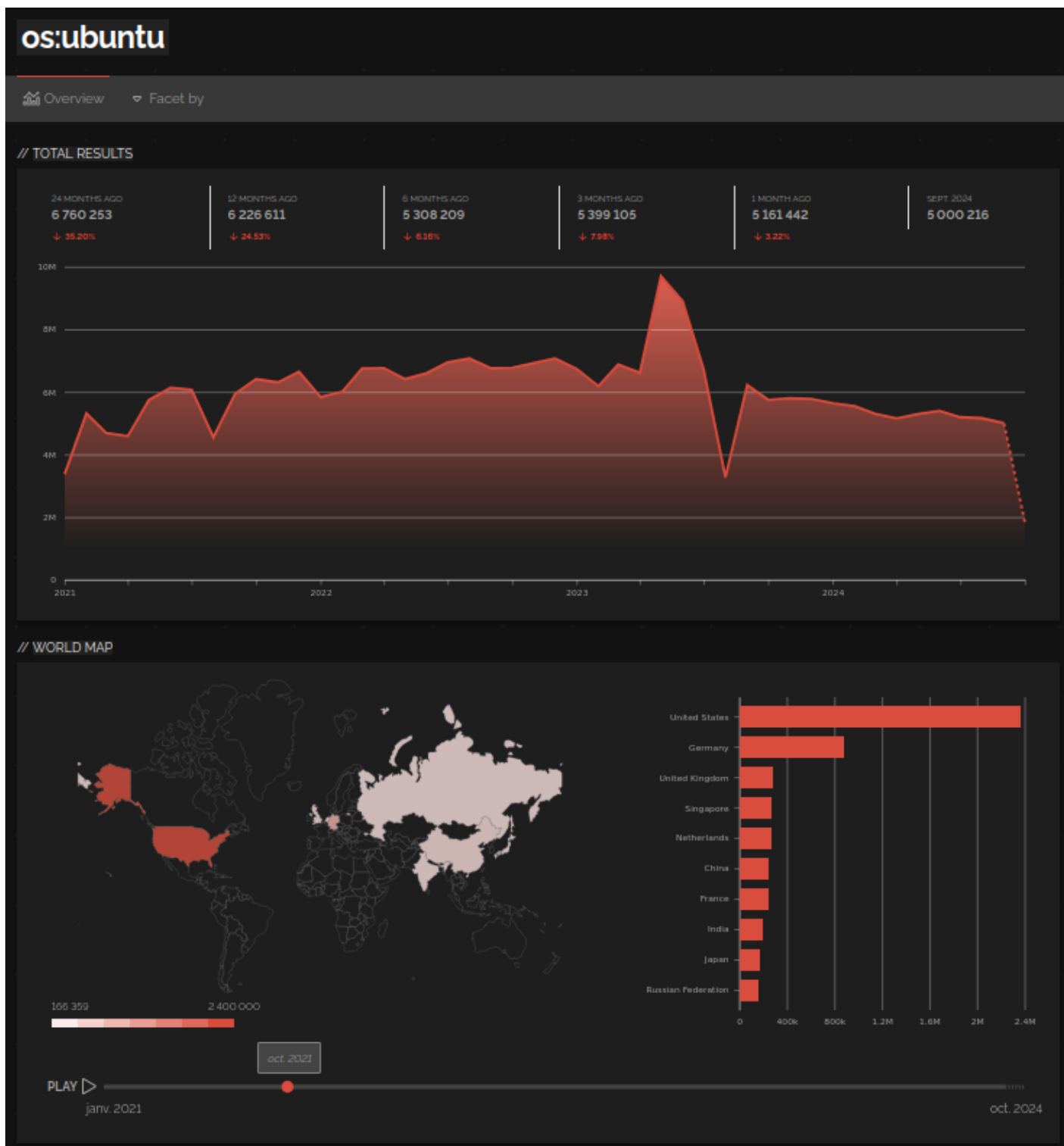
 Browse Images

 View on Map

 Advanced Search

Partner Spotlight: Looking for a Splunk alternative to store all the Shodan data? Check out [Gravwell](#)

<b>69.167.49.68</b>  <a href="#">ipinfo.io/ip/69.167.49.68</a>  United States, Orem	SSH-2, 8-OpenSSH_7.6p1_Ubuntu-4ubuntu8.5 Key type: ssh-rsa Key: AAAAB3NzaC1yc2EAAAADAQABAAQDAQ0ZBVW7ZJ+oD6JUSY1+9EU0Ht6gTn/ZawJjbra5pTsup98 oyIFhgT5Q5oe9RfPqkqtrub2N3DRvGh.lqjIrn1NKTG6slzYfARdtCz6zRy189W0uequf/nj3Rb 6ypsb/Bj5k14yLzXBU1kDwedDqk+Dw75uwSh7t2FVLAnrda3/G8Ky6thGd2n/7AwM761FGz8Qj E08 ...	2024-10-08T07:53:37.27580
<b>97.107.133.136</b>  <a href="#">ipinfo.io/ip/97.107.133.136</a>  United States, Cedar Knolls 	SSH-2, 8-OpenSSH_7.6p1_Ubuntu-4ubuntu8.7 Key type: ssh-rsa Key: AAAAB3NzaC1yc2EAAAADAQABAAQDu/vJse3kaJZkg3Kj7V6Jzy6H8ancdI3Q0/KT96WlJsup 17ft/XD06BvSAvgJvcMvTE+KVVUESuWAZvJM0R680X/ZUtbvoh1Q1N7NunctkyG+eugzYDfp0Uhl C71a1fQ3Mj7M0up0FtskIht187vtpgJdPDcct0UJA1evdXR6Z0BXW0ag5+AtQ+qq3021nEzrkf fkG ...	2024-10-08T07:53:35.585771
<b>103.139.175.30</b>  <a href="#">ipinfo.io/ip/103.139.175.30</a>  Indonesia, Jakarta	SSH-2, 8-OpenSSH_7.6p1_Ubuntu-4ubuntu8.7 Key type: ssh-rsa Key: AAAAB3NzaC1yc2EAAAADAQABAAQgQ5D91ntfT/B8Hmh7TV6DpcNuYU/cdGjHmH100EECIgys hnsSP0wakL9LHQcX8u0b6SgSazAG1lyA8tbo453pR4ch064TF+4tFvG9ekxJHgC+Sp/GJLT 9kcp0lag40j1zVypJtnq8IsD1XNMP0wXUqfIn3mDmkCIswNqPj7TDgPy3f4jy7C13xd8gs gGF ...	2024-10-08T07:53:35.111220
<b>54.36.182.218</b>  <a href="#">ipinfo.io/ip/54.36.182.218</a>  France, Lille	SSH-2, 8-OpenSSH_7.2p2_Ubuntu-4ubuntu2.8 Key type: ssh-rsa Key: AAAAB3NzaC1yc2EAAAADAQABAAQDDIDApC1R/x85FKzsupIrjZw00Q05t21MA+TB5K1z2N6 BTz3I2wgmL2ZMPKs10W4XAutC8hJPKgkZwZKc1LLMP5CnwWfZ3P9DU+y4X1LMj56M5151qz4 B7z3I2wgmL2ZMPKs10W4XAutC8hJPKgkZwZKc1LLMP5CnwWfZ3P9DU+y4X1LMj56M5151qz4	2024-10-08T07:53:34.201552



## Tracking de serveurs C2

Certains filtres ont été mis en place pour chercher des serveurs de commande et contrôle (C2) :

- <https://github.com/BushidoUK/OSINT-SearchOperators/blob/main/ShodanAdversaryInfra.md>

Serveurs C2	Filtres
-------------	---------

Metasploit	http.favicon.hash:-12788697 ssl:MetasploitSelfSignedCA http.html:"msf4"
Cobalt Strike	ssl.jarm:07d14d16d21d21d07c42d41d00041d24a458a375 eef0c576d23a7bab9a9fb1 port:443 ssl.cert.serial:146473198 product:"Cobalt Strike Beacon" http.html:"cs4.4"
Brute Ratel	http.html_hash:-1957161625 product:"Brute Ratel C4"

Vous pouvez aussi retrouver des **JARM** de C2 qui sont des empreintes des certificats par défaut :

- <https://github.com/BushidoUK/OSINT-SearchOperators/blob/main/ShodanAdversaryInfa.md>

## API

Pour utiliser l'API, il vous faut payer (une version premium à 69\$ payable en une seule fois vous autorise à 100 queries par mois).

Une fois votre clé API récupérée, vous pouvez initialiser shodan :

```
shodan init <API_KEY>
```

Pour faire une recherche :

```
shodan search "<QUERY>"
```

Pour trouver des informations sur une IP :

```
shodan host <IP>
```

Pour télécharger les résultats d'une recherche au format **JSON** :

```
shodan download <OUTPUT>.json "<QUERY>"
```

Pour consulter les résultats :

```
shodan parse <OUTPUT>.json
```

Ou alors :

```
cat <OUTPUT>.json | jq
```

Revision #5

Created 8 October 2024 06:54:43 by Elieroc

Updated 8 October 2024 07:56:08 by Elieroc