

## Shodan

**Shodan** is a search engine that allows users to search for the internet-connected devices. It searches for the network that is created by the device connected to internet. Shodan will gather information such as OS that is used or the services running on the port. Basically, it will try to gain information about any devices that is connected to internet.

**We can get information on:**

**Traffic Signals:**

**Webcam:** Beside IP we also get the country, ports, organization to merge with our query.

**TOTAL RESULTS**  
293

**TOP COUNTRIES**

United States	154
Germany	26
Canada	17
Russian Federation	12
Japan	10

**TOP SERVICES**

HTTPS	121
8081	94
NAS Web Interfaces	17
HTTP	8
HTTP (8181)	6

**TOP ORGANIZATIONS**

Cyber Wux LLC	52
MOJOHOST	28
Blue Gravity Communications	15
Comcast Cable	10
Verizon Fios	5

**TOP OPERATING SYSTEMS**

QTS	1
Linux 3.x	1

**52.213.14.231**  
ec2-52-213-14-231.eu-west-1.amazonaws.com  
Amazon Data Services Ireland Limited  
Ireland, Dublin  
Details

HTTP/1.1 200 OK  
Server: nginx/1.10.3 (Ubuntu)  
Date: Mon, 27 Nov 2017 23:15:28 GMT  
Content-Type: text/html; charset=UTF-8  
Transfer-Encoding: chunked  
Connection: keep-alive  
Set-Cookie: advanced-frontent-rugpt461u891b804n69ft38454; path=/; HttpOnly  
Expires: Thu, 19 Nov 1981 08:52:00 GMT  
Cach...

**87.78.135.78**  
87-78-135-78.netcologne.de  
NetCologne GmbH  
Germany, Köln  
Details

HTTP/1.0 200 OK  
Content-Type: text/html  
Connection: close  
Server: KQPS-Streamer/8.2  
Cache-Control: no-store, no-cache, must-revalidate, pre-check=0, post-check=0, max-age=0  
Pragma: no-cache  
Expires: Mon, 3 Jan 2000 12:34:56 GMT  
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://w...>

**70.93.98.248**  
cpe-70-93-98-248.natcom.net.com  
Time Warner Cable  
United States, Yuma  
Details

HTTP/1.1 200 OK  
Connection: close  
Content-Type: text/html; charset=utf-8  
Content-Length: 7413  
Cache-control: no-cache, must revalidate  
Date: Mon, 27 Nov 2017 22:13:59 GMT  
Expires: Mon, 27 Nov 2017 22:13:59 GMT  
Pragma: no-cache  
Server: webcamXP 5  
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML...

All this IP Address has a webcam from around the world. That are available to public.

**TOP COUNTRIES**

|               |     |
|---------------|-----|
| United States | 101 |
| Germany       | 13  |
| Canada        | 4   |
| Austria       | 3   |
| France        | 3   |
| More...       |     |

**TOP PORTS**

|         |    |
|---------|----|
| 443     | 97 |
| 8081    | 15 |
| 9000    | 6  |
| 80      | 5  |
| 3389    | 4  |
| More... |    |

**TOP ORGANIZATIONS**

|                           |    |
|---------------------------|----|
| Mojohost                  | 71 |
| Mediacast                 | 7  |
| FRAZIER MOUNTAIN INTERNET | 6  |

**69.57.196.239**  
69-57-196-239.cablecom.net  
The Municipal Government of Cedar Falls, Iowa  
United States, Cedar Falls  
Details

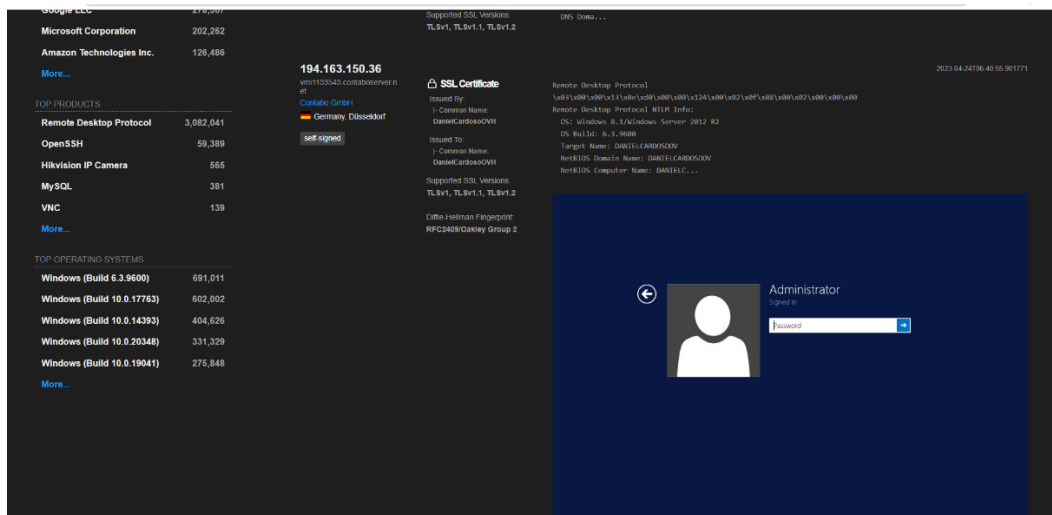
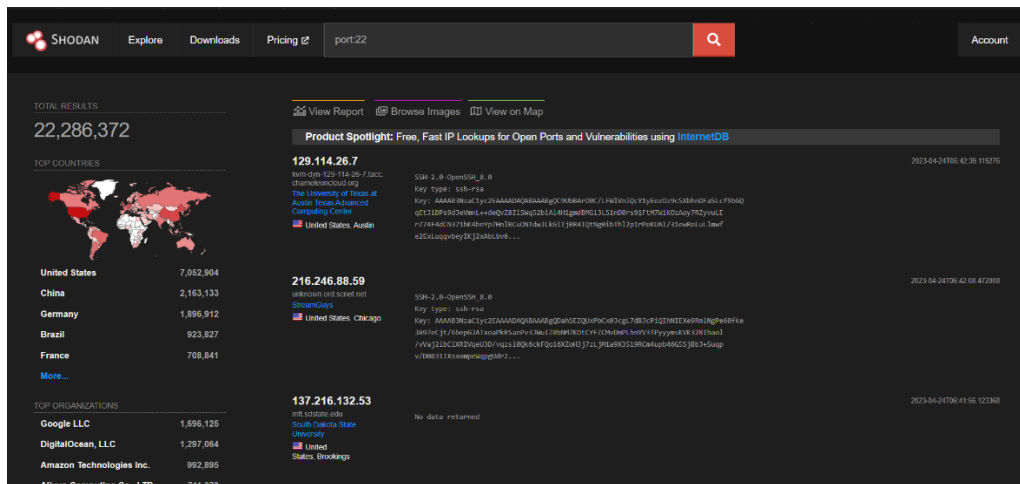
HTTP/1.0 200 OK  
Content-type: text/html  
Connection: close  
Server: KQPS-Streamer/8.2  
Cache-Control: no-store, no-cache, must-revalidate, pre-check=0, post-check=0, max-age=0  
Pragma: no-cache  
Expires: Mon, 3 Jan 2000 12:34:56 GMT  
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://w...>

2023-04-24T06:19:13.225196

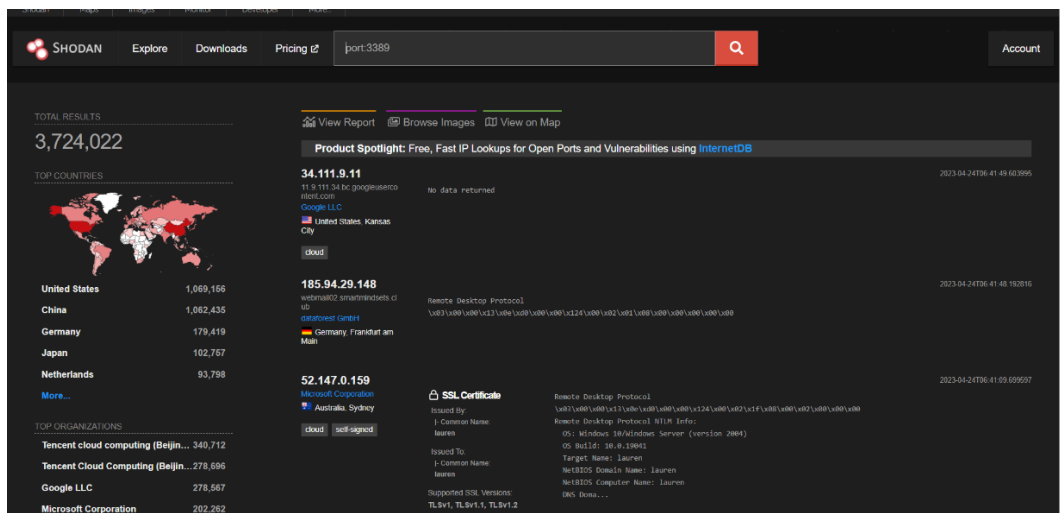
Webcam feed showing a desk setup with a monitor, keyboard, and various items.

## Ports:

Port 22: Port 22 is commonly used for Secure Shell (SSH) communication and allows remote administration access to a device.



Port 3389: Remote Desktop Protocol (RDP) is a Microsoft proprietary protocol that enables remote connections to other computers, typically over TCP port 3389. It provides network access for a remote user over an encrypted channel.



**Routers: All the router of netgear that are publicly available will show up.**

The screenshot shows the Shodan search interface with the query 'netgear'. The total results are 52,642. The top countries are United States (25,457), Russian Federation (3,144), United Kingdom (2,171), China (1,863), and France (1,519). The top ports are 8443 (21,506), 8080 (8,186), 80 (3,832), and 21 (3,029). The product spotlight is '401 Unauthorized' from LocalTel Communications, United States, Viasat, with a self-signed SSL certificate. The details for the 401 Unauthorized result show it was issued by LocalTel Communications, United States, Viasat, with a self-signed SSL certificate. The details for the 123.56.82.84 result show it is from Ajan Computing Co., LTD, China, Beijing, with a self-signed SSL certificate.

**Operating System: All the windows machine that are publicly available will show up.**

The screenshot shows the Shodan search interface with the query 'os:windows'. The total results are 13,513,695. The top countries are United States (3,882,157), China (2,492,398), Hong Kong (651,187), Germany (572,011), and Japan (455,006). The top ports are 80 (3,133,869), 3389 (2,836,954), 443 (2,094,449), and 5985 (1,514,823). The product spotlight is 'Object moved' from host-021-001-029-212.custo, Germany, Munich, with a self-signed SSL certificate. The details for the Object moved result show it was found on host-021-001-029-212.custo, Germany, Munich, with a self-signed SSL certificate. The details for the 5.186.61.25 result show it is from 5.186.61.25 static.fdn.net, Denmark, Taastrup, with a self-signed SSL certificate.

**City: Every device in Mumbai city will be shown.**

The screenshot shows the Shodan search interface with the query 'city:mumbai'. The total results are 2,788,725. The top ports are 80 (642,909), 443 (572,125), 22 (270,673), 161 (76,607), and 53 (43,950). The top organizations are Amazon Data Services India (1,108,617), Akamal Technologies, Inc. (230,810), Amazon.com, Inc. (179,122), 101A Platina Building, Plot No. C... (86,316), and Google LLC (77,182). The top products are OpenSSH (269,563), 172.105.35.240 (172.105.35.240 ip.indouse, India, Mumbai), and 13.126.182.141 (13.126.182.141 ip.indouse, India, Mumbai). The product spotlight is '103.56.211.35' from Flungama.com Pvt. Ltd, India, Mumbai, with no data returned. The details for the 103.56.211.35 result show it was found on 103.56.211.35, India, Mumbai, with no data returned. The details for the 301 Moved Permanently result show it was found on 52.219.156.204, Amazon.com, India, Mumbai, with a self-signed SSL certificate. The details for the 172.105.35.240 result show it was found on 172.105.35.240 ip.indouse, India, Mumbai, with a self-signed SSL certificate. The details for the 13.126.182.141 result show it was found on 13.126.182.141 ip.indouse, India, Mumbai, with a self-signed SSL certificate.

We can merge two queries too.

Server:

All the server of aws in India will be given.

The screenshot shows the Shodan search interface with the query 'server:aws country:IN'. The search results are displayed in a dark theme. On the left, there are filters for 'TOTAL RESULTS' (2,778), 'TOP CITIES' (Mumbai: 2,641, Hyderabad: 126, Pune: 4, Airoli: 2, Doddaballapura: 2), 'TOP PORTS' (80: 1,197, 443: 1,091, 6379: 253, 444: 134, 3389: 19), and 'TOP ORGANIZATIONS' (Amazon Technologies Inc.: 2,130). The main results area shows three entries for IP addresses 52.219.158.214, 52.219.156.151, and 52.219.158.131, all belonging to Amazon Technologies Inc. in India, Mumbai. Each entry includes a 'cloud' icon and a 'View Report' link. The details for each IP show an HTTP 1.1 307 Temporary Redirect response from an AmazonS3 server.

Apache server throughout the world will be shown.

The screenshot shows the Shodan search interface with the query 'APACHE'. The search results are displayed in a dark theme. On the left, there are filters for 'TOTAL RESULTS' (22,060,999), 'TOP COUNTRIES' (United States: 7,007,078, Germany: 2,169,104, Japan: 1,769,341, China: 1,229,798, France: 1,039,642), 'TOP PORTS' (80: 9,499,218, 443: 7,592,820, 8080: 391,639, 8081: 174,712), and 'TOP ORGANIZATIONS'. The main results area shows two entries for IP addresses 208.71.174.214 and 302 Found. The first entry is for e-musicals.com, showing an SSL Certificate issued by ePanel, Inc. The second entry is for GMD Peppino, Inc. in Japan, showing an HTTP 1.1 302 Found response from an Apache server.

Country: All device from India.

The screenshot shows the Shodan search interface with the query 'country:in'. The search results are displayed in a dark theme. On the left, there are filters for 'TOTAL RESULTS' (8,019,129), 'TOP CITIES' (Mumbai: 2,789,697, Chennai: 962,787, Delhi: 507,778, Hyderabad: 383,409, Bengaluru: 361,637), 'TOP PORTS' (80: 1,908,082, 443: 1,449,357, 22: 486,624, 63: 386,149, 161: 352,102), and 'TOP ORGANIZATIONS' (Amazon Data Services India: 1,122,848). The main results area shows three entries for IP addresses 20.204.77.38, 14.140.50.42, and 301 Moved Permanently. The first entry is for Microsoft Corporation in India, Pune. The second entry is for Internet Service Provider in India, Mumbai. The third entry is for World Tower, DLF CITY in India, Noida, showing an HTTP 1.1 301 Moved Permanently response from a Microsoft server.

## Country + City:

The screenshot shows the Shodan search interface with the query 'country:in city:mumbai'. The search bar is at the top right, and the 'Account' button is next to it. The left sidebar displays 'TOTAL RESULTS: 2,789,877' and lists 'TOP PORTS' (80, 443, 22, 161, 53) and 'TOP ORGANIZATIONS' (Amazon Data Services India, Akamai Technologies, Inc., Amazon.com, Inc., 101A Platina Building, Plot No. C-..., Google LLC). The main content area shows 'Product Spotlight: Free, Fast IP Lookups for Open Ports and Vulnerabilities using InternetDB'. Below this, there are three search results for 'Default Web Site Page' and 'Frozen Yogurt Shop'.

## Country + City + OS:

The screenshot shows the Shodan search interface with the query 'country:in city:mumbai os:windows'. The search bar is at the top right, and the 'Account' button is next to it. The left sidebar displays 'TOTAL RESULTS: 89,803' and lists 'TOP PORTS' (3389, 80, 443, 6985, 1433) and 'TOP ORGANIZATIONS' (Amazon Data Services India, Amazon.com, Inc., Microsoft Corporation, Web Werks India Pvt. Ltd., GoDaddy.com, LLC). The main content area shows 'Product Spotlight: Free, Fast IP Lookups for Open Ports and Vulnerabilities using InternetDB'. Below this, there are three search results for 'SSL Certificate', 'Not Found', and '3.6.122.34 - /'.

## Maps: We can see in Maps too using Maps option.

The screenshot shows the Shodan Maps view for the query 'country:in city:mumbai os:windows'. The map displays a large cluster of red dots representing search results in Mumbai, India. The left sidebar shows 'Total Results: 112,076' and lists 'Top Services' (RDP, HTTP, HTTPS, WinRM 2.0, 1433) and 'Top Organizations' (Amazon Data Services India, Amazon.com, Inc., Microsoft Corporation, Web Werks India Pvt. Ltd., GoDaddy.com, LLC). The map view is active, showing the geographical distribution of the search results.

## This shows in Map of the world.

## Country + City + OS + Organization:

The screenshot shows the Shodan search interface with the query 'country:in city:mumbai os:windows org:amazon'. The search results are displayed in a dark theme. On the left, there are summary statistics: 43,822 total results, top ports (3389, 80, 443, 1433, 5985), top organizations (Amazon Data Services India, Amazon Technologies Inc.), and top products (Remote Desktop Protocol, Microsoft IIS httpd, Microsoft HTTPAPI httpd, WinRM, Microsoft ftpd). The main content area shows a detailed view of a specific host: 65.1.184.196. It includes a 'Vulnerabilities' section with a table of shares (ADMIN\$, C\$, IPC\$, Printer) and their types and comments. Below this, there is a 'Not Found' section for a specific path. The right sidebar shows the host's status, SMB status, and capabilities.

**SHODAN** Explore Downloads Pricing  Account

TOTAL RESULTS: 43,822

TOP PORTS

3389	22,839
80	8,271
443	4,757
1433	1,702
5985	1,626

More...

TOP ORGANIZATIONS

Amazon Data Services India	43,813
Amazon Technologies Inc.	9

TOP PRODUCTS

Remote Desktop Protocol	22,845
Microsoft IIS httpd	12,389
Microsoft HTTPAPI httpd	3,431
WinRM	1,640
Microsoft ftpd	500

**65.1.184.196**

ec2-65-1-184-196.ap-south-1.compute.amazonaws.com  
Amazon Data Services India  
India, Mumbai

cloud doublepulsar

**Vulnerabilities**

EternalBlue

SMB Status:

Authentication: disabled  
SMB Version: 1  
OS: Windows 5.1  
Software: Windows 2000 LAN Manager  
Capabilities: extended-security, infolevel-passthru, large-files, large-reads, large-writes, level2-oplocks, loc

Name	Type	Comments
ADMIN\$	Disk	Remote Admin
C\$	Disk	Default Share
IPC\$	IPC	Remote IPC
Printer	Printer	Microsoft XPS Document Writer

**Not Found**

3.111.129.0  
ec2-3-111-129-0.ap-south-1.compute.amazonaws.com  
Amazon Data Services India  
India, Mumbai

cloud

HTTP/1.1 404 Not Found  
Content-Type: text/html; charset=us-ascii  
Server: Microsoft-IIS/7.0  
Date: Mon, 24 Apr 2023 07:46:37 GMT  
Connection: close  
Content-Length: 315

WINRM NTLM Info:

## Country + City + OS + Organization + Ports:

The screenshot shows the Shodan search interface with the query 'country:in city:mumbai os:windows org:amazon port:80'. The search results are displayed in a dark theme. On the left, there are summary statistics: 9,258 total results, top organizations (Amazon Data Services India, Amazon Technologies Inc.), top products (Microsoft IIS httpd, Microsoft HTTPAPI httpd), and top operating systems (Windows). The main content area shows a detailed view of a specific host: 13.233.36.196. It includes a 'Vulnerabilities' section with a table of shares (ADMIN\$, C\$, IPC\$, Printer) and their types and comments. Below this, there is a 'Not Found' section for a specific path. The right sidebar shows the host's status, SMB status, and capabilities.

**SHODAN** Explore Downloads Pricing  Account

TOTAL RESULTS: 9,258

TOP ORGANIZATIONS

Amazon Data Services India	9,255
Amazon Technologies Inc.	3

TOP PRODUCTS

Microsoft IIS httpd	7,622
Microsoft HTTPAPI httpd	1,634

TOP OPERATING SYSTEMS

Windows	9,210
Windows (Build 10.0.17763)	22
Windows (Build 10.0.14393)	12
Windows (Build 6.3.9600)	11
Windows (Build 10.0.20348)	2

More...

**13.233.36.196**

ec2-13-233-36-196.ap-south-1.compute.amazonaws.com  
Amazon Data Services India  
India, Mumbai

cloud

**IIS Windows Server**

13.234.34.45  
ec2-13-234-34-45.ap-south-1.compute.amazonaws.com  
Amazon Data Services India  
India, Mumbai

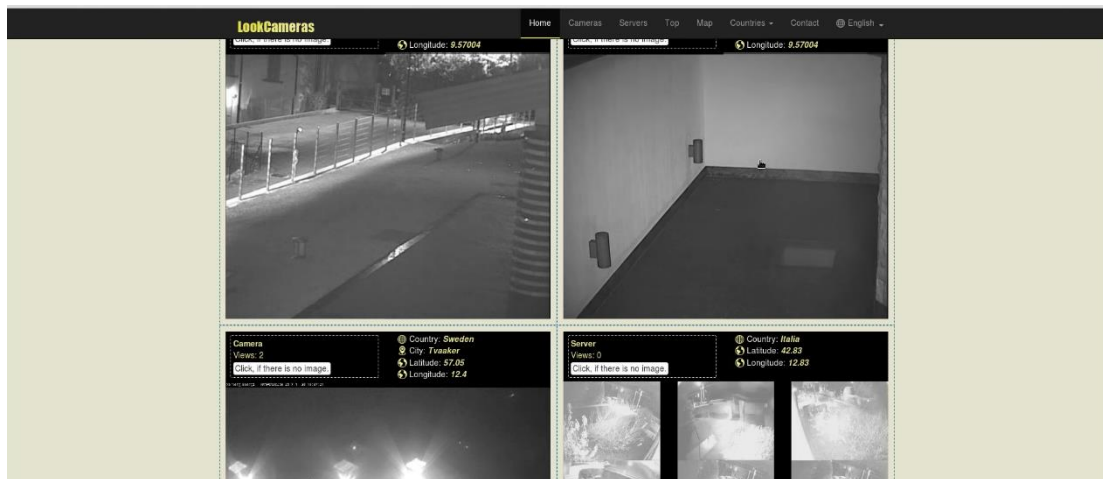
cloud

HTTP/1.1 307 Temporary Redirect  
Cache-Control: no-cache, no-store, must-revalidate  
Pragma: no-cache  
Transfer-Encoding: chunked  
Content-Type: text/html  
Expires: 0  
Location: https://13.233.36.196/  
Server: Microsoft-IIS/10.0  
X-Frame-Options: SAMEORIGIN  
X-Content-Type-Options: nosniff  
Refer...

HTTP/1.1 200 OK  
Content-Type: text/html  
Last-Modified: Tue, 12 Jul 2022 05:38:02 GMT  
Accept-Ranges: bytes  
ETag: "ec398c8db195d810"  
Server: Microsoft-IIS/10.0  
X-Powered-By: ASP.NET  
Date: Mon, 24 Apr 2023 07:38:27 GMT  
Content-Length: 793



## Webcams:



Shodan can find anything that connects directly to the internet — and if your internet-facing devices aren't protected, Shodan can tell hackers everything they need to know to break into your network.

Shodan works by requesting connections to every imaginable internet protocol (IP) address on the internet and indexing the information that it gets back from those connection requests.

Shodan crawls the web for devices using a global network of computers and servers that are running 24/7.

- Baby monitors
- Maritime satellites.
- Water treatment facilities.
- Prison pay phones.
- Nuclear power plants.