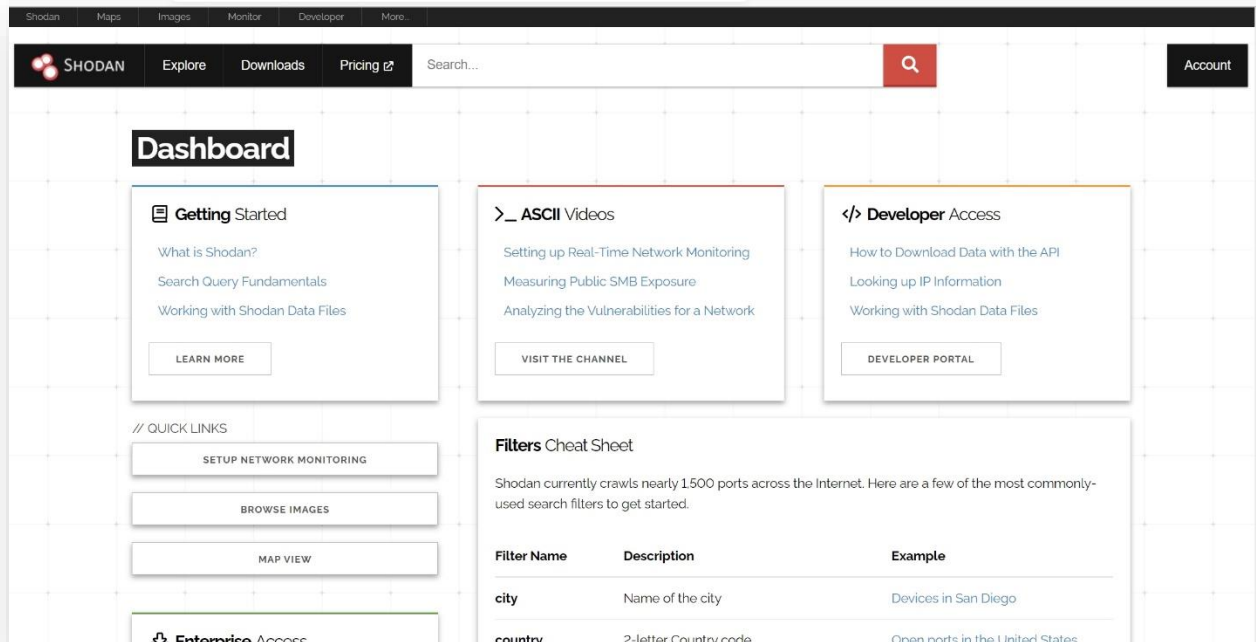


# Lab 11-4-2: Vulnerable Webcams using Shodan

## Lab Requirement

- Web browser with internet connection
- Python installed
- Command Line

## Step 1: Log in to Shodan



## Step 2: Set Up Shodan via Command Line (Optional)

```
$ pip install shodan
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: shodan in /usr/lib/python3/dist-packages (1.26.1)
```

## Step 3: Search for Accessible Webcams

Shodan

Maps

Images

Monitor

Developer

More...

SHODAN

Explore

Downloads

Pricing

webcamxp


Q

Account

TOTAL RESULTS

1,620

TOP COUNTRIES



Switzerland	1,142
United States	78
Russian Federation	76
United Kingdom	43
Germany	39
<a href="#">More...</a>	

TOP PORTS

8080	213
80	144
81	124
443	123
60001	122
<a href="#">More...</a>	

TOP ORGANIZATIONS

Swisscom (Schweiz) AG	1,140
Linode	75
Softline Trade JSC	59
Linode, LLC	23
139.162.0.0/16	20
<a href="#">More...</a>	

TOP PRODUCTS

webcamXP httpd	190
webcam 7 httpd	7

View Report

Browse Images

View on Map

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

webcamXP 5

1.213.178.190

LG DACOM Corporation

Korea, Republic of Seoul

HTTP/1.1 200 OK

Connection: close

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

Content-Length: 2192

Cache-control: no-cache, must revalidate

Date: Thu, 17 Feb 2022 06:48:51 GMT

Expires: Thu, 17 Feb 2022 06:48:51 GMT

Pragma: no-cache

Server: webcamXP 5

2022-02-17T06:48:27.344655

webcamXP 5

192.76.5.49

ucomdsl-192.76.5.49 uco

m.net

United Telephone Association, Inc.

United States, Coldwater

HTTP/1.1 200 OK

Connection: close

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

Content-Length: 7313

Cache-control: no-cache, must revalidate


Date: Thu, 17 Feb 2022 06:02:17 GMT



Expires: Thu, 17 Feb 2022 06:02:17 GMT

Pragma: no-cache

Server: webcamXP 5

2022-02-17T06:02:17.240172





To do this from the command line, use the **search** option. (Results below truncated.)

~\$ shodan search webcamxp

```
File Actions Edit View Help
107.13.2.109 8080 mta-107-13-2-109.ncr.com HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7420\r\nCache-control: no-cache, must revalidate\r\nDate: Thu, 17 Feb 2022 06:59:04 GMT\r\nExpires: Thu, 17 Feb 2022 06:59:04 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n1213.178.190 20000 LG DACOM Corporation HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 2192\r\nCache-control: no-cache, must revalidate\r\nDate: Thu, 17 Feb 2022 06:48:51 GMT\r\nExpires: Thu, 17 Feb 2022 06:48:51 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n192.76.5.49 8080 ucomdel-192-76-5-49.ucom.net HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7313\r\nCache-control: no-cache, must revalidate\r\nDate: Thu, 17 Feb 2022 06:02:17 GMT\r\nExpires: Thu, 17 Feb 2022 06:02:17 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n80.153.10.199 80 p50990ac7.dip0.i-ipconnect.de HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7174\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 19:33:11 GMT\r\nExpires: Wed, 16 Feb 2022 19:33:11 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n185.26.170.129 9999 HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 2192\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 16:48:32 GMT\r\nExpires: Wed, 16 Feb 2022 16:48:32 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n138.123.62.124 8080 s-a228-01.dttc.edu HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7327\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 14:13:22 GMT\r\nExpires: Wed, 16 Feb 2022 14:13:22 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n82.207.41.104 8010 104-41-207-82.jp.ukrtel.net HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7327\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 14:13:01 GMT\r\nExpires: Wed, 16 Feb 2022 14:13:01 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n212.50.18.179 8090 HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 2225\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 13:12:36 GMT\r\nExpires: Wed, 16 Feb 2022 13:12:36 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n22.207.41.104 8000 104-41-207-82.jp.ukrtel.net HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7327\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 11:16:58 GMT\r\nExpires: Wed, 16 Feb 2022 11:16:58 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n92.118.2.251 9000 HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7413\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 10:28:45 GMT\r\nExpires: Wed, 16 Feb 2022 10:28:45 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n65.102.199.230 8080 HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7518\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 09:11:15 GMT\r\nExpires: Wed, 16 Feb 2022 09:11:15 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n80.208.214.122 8080 ftx-pool-80.208.214.122.bambit.de HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7414\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 08:08:48 GMT\r\nExpires: Wed, 16 Feb 2022 08:08:48 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n178.236.210.226 8888 mx.zernovoe.com HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 2166\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 06:46:42 GMT\r\nExpires: Wed, 16 Feb 2022 06:46:42 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n112.127.208.184 8005 212-127-208-184.cable.dynamic.v4.ziggo.nl HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7413\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 07:38:21 GMT\r\nExpires: Wed, 16 Feb 2022 07:38:21 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n31.208.147.126 81 31-208-147-126.cust.bredband2.com HTTP/1.1 200 OK\r\nConnection: keep-alive\r\nContent-Type: text/html\r\nContent-Length: 6428\r\nCache-control: no-cache, must revalidate\r\nDate: Wed, 16 Feb 2022 07:01:09 GMT\r\nExpires: Wed, 16 Feb 2022 06:38:09 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n217.107.96.178 80 pppoe-dynamic6.mosblast.ru HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 2192\r\nCache-control: no-cache, must revalidate\r\nDate: Tue, 15 Feb 2022 23:20:03 GMT\r\nExpires: Tue, 15 Feb 2022 23:20:03 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n151.55.191.138 8080 HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7603\r\nCache-control: no-cache, must revalidate\r\nDate: Tue, 15 Feb 2022 20:42:23 GMT\r\nExpires: Tue, 15 Feb 2022 20:42:23 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n86.86.252.179 8010 86-86-252-179.fixed.kpn.net HTTP/1.1 200 OK\r\nConnection: keep-alive\r\nContent-Type: text/html\r\nContent-Length: 2177\r\nCache-control: no-cache, must revalidate\r\nDate: Tue, 15 Feb 2022 21:20:43 GMT\r\nExpires: Tue, 15 Feb 2022 20:57:43 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n121.221.173.173 8200 cpe-121-221-173-vb01.vic.asp.telstra.net HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7413\r\nCache-control: no-cache, must revalidate\r\nDate: Tue, 15 Feb 2022 19:35:39 GMT\r\nExpires: Tue, 15 Feb 2022 19:35:39 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n217.107.96.178 80 pppoe-dynamic6.mosblast.ru HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 2224\r\nCache-control: no-cache, must revalidate\r\nDate: Tue, 15 Feb 2022 18:31:01 GMT\r\nExpires: Tue, 15 Feb 2022 18:31:01 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n86.127.251.151 9090 86-127-251-151.digimobil.es HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 8072\r\nCache-control: no-cache, must revalidate\r\nDate: Tue, 15 Feb 2022 16:56:43 GMT\r\nExpires: Tue, 15 Feb 2022 16:56:43 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n24.255.72.234 8080 ip24-255-72-234.rn.hr.cox.net HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 7417\r\nCache-control: no-cache, must revalidate\r\nDate: Tue, 15 Feb 2022 16:42:31 GMT\r\nExpires: Tue, 15 Feb 2022 16:42:31 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n99.3.97.73 8080 99-3-97-73.lightspeed.frnca.sbcglobal.net HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html; charset=utf-8\r\nContent-Length: 2154\r\nCache-control: no-cache, must revalidate\r\nDate: Tue, 15 Feb 2022 15:55:45 GMT\r\nExpires: Tue, 15 Feb 2022 15:55:45 GMT\r\nPragma: no-cache\r\nServer: webcamXP 5\r\n\r\n172.105.97.164 80 l2000-164.members.linode.com HTTP/1.1 200 OK\r\nServer: 360 web server, 792/71644 HTTP Server version 2.0 - TELDAT S.A., A10WS/1.00, ADB Broadband HTTP Server, ADH-Web, AR, ASUSTek UPnP/1.0 MiniUPnPd
```

shodan search --fields ip\_str,port,org,hostnames webcamxp

```
107.13.2.109 8080 Charter Communications Inc mta-107-13-2-109.ncr.com
1213.178.190 20000 LG DACOM Corporation
192.76.5.49 8080 United Telephone Association, Inc ucomdel-192-76-5-49.ucom.net
80.153.10.199 80 Deutsche Telekom AG p50990ac7.dip0.i-ipconnect.de
185.26.170.129 9999 OOO PKF Delta Telekom
138.123.62.124 8080 Delaware Technical Community College s-a228-01.dttc.edu
82.207.41.104 8010 PJSC Ukrtelecom 104-41-207-82.jp.ukrtel.net
212.50.18.179 8090 Spectrum Net Infrastructure
82.207.41.104 8000 PJSC Ukrtelecom 104-41-207-82.jp.ukrtel.net
92.118.2.251 9000 Ping BV
65.102.199.230 8080 Katie Stenger
80.208.214.122 8080 Stadtnetz Bamberg Gesellschaft fuer Telekommunikation mbH ftx-pool-80.208.214.122.bambit.de
178.236.210.226 8888 JSC Russian Company. Internet service provider in Tyumen mx.zernovoe.com
212.127.208.184 8005 Ziggo Consumers 212-127-208-184.cable.dynamic.v4.ziggo.nl
31.208.147.126 81 Bredband2 AB 31-208-147-126.cust.bredband2.com
116.68.111 8000 Deutsche Telekom AG p5090686f.dip0.i-ipconnect.de
151.55.191.138 8080 WIND Telecomunicazioni S.p.A
86.86.252.179 8010 KPN B.V. 86-86-252-179.fixed.kpn.net
121.221.173.173 8200 Telstra Internet cpe-121-221-173-vb01.vic.asp.telstra.net
217.107.96.178 80 PJSC Rostelecom pppoe-dynamic6.mosblast.ru
86.127.251.151 9090 DIGI Spain Telecom 86-127-251-151.digimobil.es
24.255.72.234 8080 Cox Communications Inc ip24-255-72-234.rn.hr.cox.net
99.3.97.73 8080 AT&T Corp. 99-3-97-73.lightspeed.frnca.sbcglobal.net
172.105.97.164 80 Linode l2000-164.members.linode.com
95.66.159.87 8080 Limited Liability Company Vladinfo
81.22.234.143 84 Union de Redes de Fibra Optica S.L.
172.105.97.164 60001 Linode l2000-164.members.linode.com
223.16.190.219 8080 HSC Global Communications Limited 219-190-16-223-on-nets.com
189.22.203.126 8080 Intelligent Networks LLC
177.84.244.149 9090 4INET SOROCABALTD AEP 149.244.84.177.4inet.net.br
69.243.44.170 10001 Comcast Cable Communications, Inc c-69-243-44-170.hsd1.md.comcast.net
51.15.75.241 50000 ONLINE SAS 241-75-15-51.instances.scw.cloud
93.204.100.25 8180 Deutsche Telekom AG p5d0c6419.dip0.i-ipconnect.de
72.134.16.6 8080 Charter Communications Inc cpe-72-134-16-6.natso.res.res.com
212.111.434 9000 Linode, LLC l782-4.members.linode.com
51.15.75.241 49152 ONLINE SAS 241-75-15-51.instances.scw.cloud
88.203.201.150 8080 Sofia, Bulgaria
185.53.40.32 8080 Stadtnetz Bamberg Gesellschaft fuer Telekommunikation mbH ftx-pool-185.53.40.32.bambit.de
77.167.52.178 8080 KPN B.V. 77-167-52-178.hybrid.kpn.net
172.104.23.166 80 Linode l1842-166.members.linode.com
75.144.14.37 9000 Comcast Cable Communications, LLC 75-144-14-37-Naples-hfc.comcastbusiness.net
206.198.246.90 8081 Gtek Computers LLC ip-206-198-246-90-narptw04-fidia-TX.gtek.biz
139.162.213.30 81 139.162.0.0/6 l1376-30.members.linode.com
```

Look through the results and find webcams you want to try out. Input their domain name into a browser and see if you get instant access. Here is an array of open webcams from various hotels in Palafrugell, Spain, that I was able to access without any login credentials:

