



Shodan: The Search Engine for Connected Devices

Every public IP. Every open port. Every banner. What's exposed about you — and the entire internet.

All

PUBLIC IPV4 / IPV6

24/7

CONTINUOUS SCANNING

Free

TIER AVAILABLE

Banners

+ TECH FINGERPRINTS

● What Shodan indexes

CORE

Open ports + services

Every responding port.
Service banners. Software versions.

TLS certificates

Cert details. Helps find hostnames + related infrastructure.

HTTP titles + bodies

Page titles, headers, response codes, HTML samples.

Tech fingerprints

Framework, CMS, web server, DB version inferred from banners.

● Useful search filters

org:"Your Company Inc" — everything attributed to your org
net:198.51.100.0/24 — IP CIDR range
hostname:example.com — by reverse-DNS
port:5432 country:US — open Postgres in the US (don't!)
product:"nginx" — by software
http.favicon.hash:-123456789 — find every host with same favicon
vuln:CVE-2024-XXXX — vulnerable hosts (paid tier)

DEFENDER USE

Self-search your org weekly. Find shadow IT before attackers do. The favicon-hash trick reveals corporate apps exposed on unexpected IPs.

LEGAL FLOOR

Searching Shodan = legal.
Accessing systems you find = not legal without authorization. Shodan tells you what exists; it does not authorize you to use it.

DEFENSIVE RECIPES

- 1 **Inventory open ports**
Every IP block you own
- 2 **CVE match by banner**
Detect outdated software at the edge
- 3 **Cert transparency cross-ref**
Find subdomains via crt.sh + Shodan
- 4 **Favicon-hash pivot**
Locate corporate apps on rogue IPs
- 5 **Alert on changes**
Shodan Monitor

PLANS

- 1 **Free**
Limited searches, basic filters
- 2 **Membership (\$69 once)**
Most useful tier for one-time learners
- 3 **Small Business +**
Continuous monitoring + vuln data

Full guide: djenterprises.ai/blog/osint-shodan

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