

Censys Search Cheat Sheet

by himajedi via cheatography.com/196419/cs/41272/

addresses

| IP Addresses and Subnets | |
|------------------------------|-------------------------------------|
| Single IP (supports IPv4 and | 8.8.8.8 or |
| <i>IPv6</i>) | ip:8.8.8.8 |
| Subnet by CIDR | ip: "23.0.0.0/8" |
| Subnet by IP Range | ip: [1.12.0.0 to 1.15.255.255] |
| Hostname | dns.names:"*.zip" |
| Autonomous System # (ASN) | autonomous_system.asn:16509 |
| Autonomous System Name | autonomous_system.name:"AMAZ-ON-02" |
| IPv6 hosts | ip: "2001::/3" or labels:ipv6 |

| Ports, Protocols, and Software | |
|--------------------------------|---|
| Port | services.port:22 |
| | services.port:{20,21,22} |
| Service / Protocol | services.service_name:SSH |
| Transport protocol | services.transport_protocol:TCP |
| Software by product | services: (software.vendor:"Apache" AND |
| and/or vendor | software.product:"HTTPD") |
| Software by URI / | services.software.cpe = `cpe:2.3:o:mikrotik:- |
| CPE | routeros::::::: |
| Banner grab | services.banner:"HTTP/" |
| Device type | services.software: (other.key:"Device" and |
| | other.value:"Router") |
| Number of open ports | service_count: [1 to 20] |
| on host | |

| Geography | |
|-----------|---|
| Country | location.country:"United States" |
| City | location.city:"Ann Arbor" |
| State | location.province:"Michigan" |
| GPS | (location.coordinates.latitude=41.85003 AND location.c- |
| Coordi- | oordinates.longitude=-87.65005) |
| nates | |

Pro tip: Use Map To Censys to draw a box over the geographic area of interest and click "Open in Search" to see hosts in the area

| Labels | | |
|--|---------------------------------------|--|
| search by label | labels: <la -na="" bel="" me=""></la> | |
| Labels provide broad context about a host or service. Some useful host labels: c2, login-page, open-dir, ics, network.device, cryptocurrency, managed-file-transfer, ipv6, tarpit, honeypot. | | |
| Handy Censys Search CLI JQ filters | | |
| List of IP '.[].ip' | TOLI JQ IIILEIS | |

Banners '.[] | .ip as \$ip | .services[] | [\$ip, .transport_protocol, .port, .service_name, .banner]'

Usage: censys search <qu ery> | jq <fi lte r>

| Web Entities (HTTP/S) | |
|--|---|
| HTML Title | services.http.response.html_title:"dashboard" |
| Response Body - plaintext or hash | services.http.response.body:"login" or services.http.response.body_hashes:* |
| Status code | services.http.response.status_code=200 |
| Server header | <pre>services.http.response.headers: (key: Serve r and value.headers:nginx)</pre> |
| Certificate Issuer | services.tls.certificates.leaf_data.issuer.or- ganization:"Let's Encrypt" |
| Certificate Subject Common Name | services.tls.certificates.leaf_data.subject.c- ommon_name:*.hero kua pp.com |
| TLS version (Highest negotiated version) | services.tls.version_selected:"TLSv1_1" |
| Favicon MD5 Hash | services.http.response.favicons.md5_hash:* |
| Favicon Shodan Hash (mmh3) | services.http.response.favicons.shodan hash:* |



By **himajedi** cheatography.com/himajedi/

Published 14th November, 2023. Last updated 29th April, 2024. Page 1 of 2. Sponsored by **Readable.com**Measure your website readability!
https://readable.com



Censys Search Cheat Sheet by himajedi via cheatography.com/196419/cs/41272/

| Use Case Examples | |
|---|--|
| Hacked web servers | services: (service_name:"HTTP" and http.response.html_title:"hacked by") |
| Hosts serving login pages with port 22 open | services.port:22 and labels:login-pa |
| Servers in Russia running remote access protocols | location.country:"Russia" and labels:re |
| Filter out hosts with 100+ ports open | services.truncated: false |
| Compromised MikroTik routers | services.service_name: MIKROT- IK_BW and "HACKED" |
| Filter out honeypots and noisy hosts | not labels:{'honeypot', 'tarpit', 'truncated'} |
| RDP running on nonsta- ndard ports | services: (service_name="RDP" and NOT port=3389) |
| Pro tip: Get more results by including virtual hosts click the gear | |

Pro tip: Get more results by including virtual hosts -- click the gear icon and toggle **Virtual Hosts**: **INCLUDE**

| Certificates | |
|---|--|
| Unexpired certificates for a specific domain | labels=unexpired and names: censys.io |
| Self-signed certif- icates observed in Censys host scans | ever_seen_in_scan: true and labels: "self-signed" |
| Trusted certs from a specific CA expiring on specific day | parsed.issuer.organization: "Let's Encrypt" and labels: "trusted" and parsed.validity_period.not_after: 2023-10-13 |
| Learn more about the data collected in our certificates dataset: https://search.censys.io/search/definitions?resource=certificates | |



By **himajedi** cheatography.com/himajedi/

Published 14th November, 2023. Last updated 29th April, 2024. Page 2 of 2. Sponsored by **Readable.com**Measure your website readability!
https://readable.com