# Cheatography

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

Labels

IP Addresses and Subnets	
Single IP ( <i>supports IPv4 and IPv6</i> )	8.8.8.8 or 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 and/or vendor	services: (software.vendor:"Apache" AND software.product:"HTTPD")
Software by URI / CPE	<pre>services.software.cpe =`cpe:2.3:o:mikrotik:- routeros::::::::</pre>
Banner grab	services.banner:"HTTP/"
Device type	services.software: (other.key:"Device" and other.value:"Router")
Number of open ports on host	service_count: [1 to 20]

## 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

# С

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search by lab	bel 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, cryptocur-		
rency, managed-file-transfer, ipv6, tarpit, honeypot.		
Handy Censys Search CLI JQ filters		
List of IP addresses	'.[].ip'	
Banners	'.[]   .ip as \$ip   .services[]   [ \$ip, .transport_protocol, .port, .service_name, .banner ]'	
Usage:censys search <qu ery="">   jq <fi lte="" r=""></fi></qu>		

#### Web Entities (HTTP/S) services.http.response.html\_title:"dashboard" HTML Title Response Body services.http.response.body:"login" or servicplaintext or hash es.http.response.body\_hashes:\* Status code services.http.response.status\_code=200 Server header services.http.response.headers: (key: Serve r and value.headers:nginx) Certificate Issuer services.tls.certificates.leaf\_data.issuer.organization:"Let's Encrypt" Certificate Subject services.tls.certificates.leaf\_data.subject.c-Common Name ommon\_name:\*.hero kua pp.com TLS version services.tls.version\_selected:"TLSv1\_1" (Highest negotiated version) Favicon MD5 Hash services.http.response.favicons.md5\_hash:\* Favicon Shodan services.http.response.favicons.shodan\_-Hash (mmh3) hash:\*

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# 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 mote -access
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', 'trunc- ated'}
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 icon and toggle **Virtual Hosts: INCLUDE** 

## Certificates

Unexpired certif- icates 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-s- igned"
Trusted certs from a specific CA expiring on specific day	parsed.issuer.organization: "Let's Encrypt" and labels: "trusted" and parsed.validity_pe- riod.not_after: 2023-10-13

Learn more about the data collected in our certificates dataset: https://search.censys.io/search/definitions?resource=certificates



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