Cheatography

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

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

Labels		
search by lab	oel	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 Censy List of IP	vs Search CL '.[].ip'	LI JQ filters

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

services.http.response.html_title:"dashboard"

services.http.response.body:"login" or servic-

services.http.response.headers: (key: Serve

services.tls.certificates.leaf_data.issuer.or-

services.tls.certificates.leaf_data.subject.c-

ommon_name:*.hero kua pp.com

services.tls.version_selected:"TLSv1_1"

services.http.response.favicons.md5_hash:*

services.http.response.favicons.shodan_-

services.http.response.status_code=200

es.http.response.body_hashes:*

r and value.headers:nginx)

ganization:"Let's Encrypt"

hash:*

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

Web Entities (HTTP/S)

HTML Title

Response Body -

plaintext or hash Status code

Server header

Certificate Issuer

Certificate Subject

(Highest negotiated

Favicon MD5 Hash

Favicon Shodan

Hash (mmh3)

Common Name

TLS version

version)

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 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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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 certiflabels=unexpired and names: censys.io icates for a specific domain Self-signed certifever_seen_in_scan: true and labels: "self-sicates observed in igned" Censys host scans Trusted certs from a parsed.issuer.organization: "Let's Encrypt" specific CA expiring and labels: "trusted" and parsed.validity_peon specific day 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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