	CENSYS Quick Start Reference	censys.io
What is Censys?	Physical Location	Web Apps
Censys is a publicly available search engine, similar to Shodan but unique in its own right, which scans the entire Internet for a limited number of services and	Country – Search by country code Example: location.country_code:"US"	Page's Title – Search for text in page's title Example: 443.https.get.title:"Index of /ftp"
enumerates discovered services by their banner responses, indexes that data and makes it searchable.	City – Search by city name Example: location.city:Paris	Page's HTML Body – Search body of webpage for text string Example: 443.https.get.body:"XML-RPC server accepts"
Censys stores the information in structured fields which can be queried specifically for enumerating data on hosts, services and (in particular) web certificates.	State – Search by state name Example: location.province:South Carolina	Web Technologies – Search for specific web technologies Example: 443.https.get.metadata.product: php
Be sure to use the 'Raw Data' option on any discovered host to see all of the data types Censys has stored.	Zip Code – Search by postal ZIP code Example: location.postal_code:92127	TLS Version – Determine most recent version supported Example: 443.https.tls.version:TLSv1.2
Censys also indexes WHOIS data which can be viewed from the same menu under "Raw WHOIS".	Geo: Latitude Range – Search GPS coordinates - Latitude Example: location.latitude:[45.0 TO 59.0]	SSLv3 – Find instances of SSLv3 Example: 443.https.ssl_3.support:true
IP Addresses & Subnets	Geo: Longitude Range – Search GPS coordinates - Longitude Example: location.longitude:[15.0 TO 18.5]	Expired Certificates — Search for expired HTTPS certs Example:
Single IP Address – Search for findings on single IP Example: 52.179.197.205 <i>or</i> ip:52.179.197.205	Operating Systems & Products	443.https.tls.certificate.parsed.validity.end:[2018-12-31 TO *]
IP Subnet by CIDR – Search across a specific CIDR Example: ip:52.179.197.0/24	Operating System – Search by operating system type Examples: metadata.os:Windows	Self-Signed Certificates — Search for expired HTTPS certs Example: 443.https.tls.certificate.parsed.signature.self_signed:true
IP Subnet by Range – Search across a specific range Example: ip:[216.189.94.1 TO 216.189.94.32]	Product (Web Service) – Search by known product name Example: 443.https.get.metadata.product:nginx	Invalid Cert Signatures — Find invalid cert signatures Example:
Hostname – Search on result of a DNS "A" / host entry	Manufacturer – Search for known manufacturers Example: metadata.manufacturer:"Huawei"	443.https.tls.certificate.parsed.signature.valid:false Trusted Certs – Determine trusted certs by browsers
Example: a:panerabread.com Mail Servers – Search on DNS "MX" entries for domain	Microsoft SMBv1 – Search for instances of SMBv1 Example: 445.smb.banner.smbv1_support:true	Example: 443.https.tls.validation.browser_trusted
Example: mx:panerabread.com	Dates & Ranges	Heartbleed – Find potential instances of Heartbleed vuln Example:
Port – Find any instances of active services on a port Example: ports:21	Date: After – Search for findings that appear after a date Example: updated_at:[2018-12-15 TO *]	443.https.heartbleed.heartbleed_vulnerable:true Tags
Service – Search for instances of specific services Example: protocols:"21/ftp"	Date: Before – Search for findings that appear before a date Example: updated_at:[* TO 2018-12-31]	A list of common tags that I've found useful: bacnet, database, DSL/cable modem, embedded, Heartbleed, industrial control system, known-private-key, modbus, mssql,
Autonomous System Number (ASN) – Search by ASN Example: autonomous_system.asn: 7018	Date: Range – Search for findings that appear within a range Example: updated_at:[2018-12-15 TO 2018-12-31]	mysql, network, oracle, postgres, printer, rdp, remote_display, raspberry pi, scada, smb, vnc