

The TLD-OPS standing committee is sharing this list of TLD Monitoring tools. These tools may be useful in the advent of a security incident to remotely assist in determining the status of a TLD.

If you have a TLD monitoring tool that is not on the list below, please share with the committee and we will gladly add.

Please take some time to look at the tools below, some you might like, some not, some provide real time status, some have history, some are commercial that offer free services to TLDs, but knowing what is available before a security incident occurs can save valuable time in isolating the root cause and developing a response plan.

DNS TLD STATUS :

- <https://tldmon.dns-oarc.net/nagios> : This project keeping eyes on various TLD using Nagios.
- <https://atlas.ripe.net/dnsmon> : It measures DNS performance between sites that host RIPE Atlas Anchors and those where DNS servers are installed.
- <https://www.thousandeyes.com> : Its cisco's solution for infrastructure monitoring. It can be used for dns nodes monitoring as well.

DNS Monitoring and Configuration testing tools :

- <https://dnsspy.io> : It monitors, validates and verifies DNS configurations. Subscription may be required.
- <http://dns.squish.net> : Checks every single branch of the DNS tree to ensure your addresses are delegating and resolving correctly. (Unfortunately, the site is running on http and not on https, i.e., no encryption between client and the server).
- <https://www.statdns.com/cctlds> : It gives up to date information about various ccTLDs.
- <https://www.robtex.com> : It has indexed information about domain names, ip addresses, ASNs across internet and can be used for analysis and research/academic purposes.
- <https://www.zonemaster.net> : Investigates the state of the domain from beginning to end. This is done through examining DNS from the root (.) to the TLD (top-level domain, for example, .in), and then finally through the DNS servers that contain information about the specified domain.
- <https://ednscomp.isc.org/> : ISC EDNS compliance testing utility.

DNSSEC STATUS CHECKER :

- <http://dnsviz.net/d/ca/dnssec> : It gives DNSSEC information in visualization form (change 'ca' with your ccTLD).
- <http://www.dnssek.info> : DNSSEC early warning system. Provides info about signature's expiry for the TLDs.
- <http://rick.eng.br/dnssecstat/> : It provides information about DNSSEC deployment across Internet.
- <https://dnssec-debugger.verisignlabs.com> : Verisign lab's tool for debugging the DNSSEC issues.

SECURITY TOOLS/REPORTS :

- https://opendata.rapid7.com/sonar.fdns_v2/ : Conducts internet-wide surveys across different services and protocols to gain insights into global exposure to common vulnerabilities. Subscription may be required.
- <http://www.securedomain.org> : Provide service for reputation Data API. Requires an API to query the database.
- <https://scout.dnsdb.info> : Dashboard for DNSDB data. Subscription may be required.
- <https://Censys.io> , <https://shodan.io> , <https://GreyNoise.io> : These sites can be used for looking the exposure of assets to the world. Services like Censys perform full internet scan and maintain the directory of all the reachable setups they encounters and mark any exposed vulnerability they find on the Internet. Similar stuff is available at Shodan.io also. Subscription may be required.

This list is available online at : <http://ccnso.icann.org/resources/tld-ops-secure-communication.htm>

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