



DNS stats & analytics

TLDCON, 2020

08.09.2020

Dashboard

TRAFFIC PER COLLECTOR (GARD)

QTYPE EVENTS (GARD)

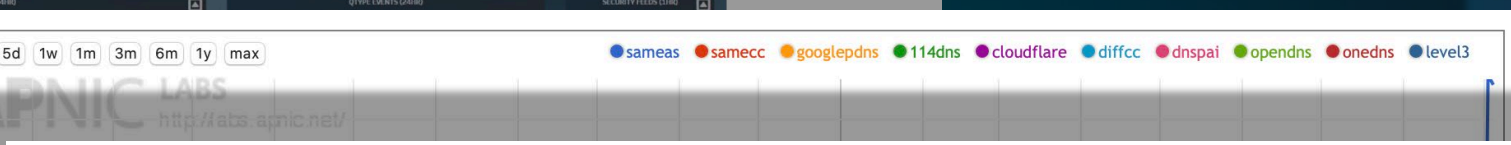
SECURITY FEEDS (GARD)

Description
Dashboard prov

Variants
n/a

Data display

- Traffic graphs
- All traffic p
- Traffic for a
- Traffic for a
- Traffic for a
- Top QTYPE ev
- Top domain n
- security feeds
- RCODE health



EXECUTIVE SUMMARY

The second quarter of 2020 (TLDs), an increase of 3% in 2020.^{1,2} Domain name registrations totalled 148.7 million domain name registrations.

Total country-code TLD domain name registrations in the second quarter of 2020, an increase of 0.12% compared to the same quarter of 2020.^{1,2} ccTLD domain name registrations totalled 148.7 million domain name registrations.

The .com and .net TLDs domain name registrations at the end of the second quarter of 2020, compared to the end of the second quarter of 2020, domain name registrations totalled 148.7 million domain name registrations.

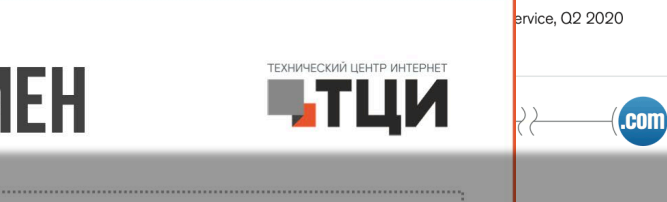
New .com and .net domain name registrations in the second quarter of 2020, compared to 10.3 million domain name registrations in the second quarter of 2020.

Total new gTLD (ngTLD) domain name registrations in the second quarter of 2020, a decrease of 0.15% compared to the second quarter of 2020. ngTLD domain name registrations totalled 148.7 million domain name registrations.

As of June 30, 2020, the number of domain name registrations in .org, .nl, .icu and .ru.^{1,2,4}

THE DOMAIN NAME IN

TOP 10 LARGEST TLDs BY NUMBER OF REPORTED DOMAIN NAMES



СТАТИСТИКА ДОМЕННЫХ ИМЕН ЗА ИЮЛЬ 2020



НЕТОСКОП
netoscope.ru нетоскоп.рф

КООРДИНАЦИОННЫЙ ЦЕНТР ДОМЕНОВ .RU/.PH
cctld.ru кц.рф

ОТЧЕТ ПРОЕКТА НЕТОСКОП ЗА 2 КВАРТАЛ 2020 ГОДА

БАЗА ДАННЫХ ПРОЕКТА НЕТОСКОП



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DNS: Service monitoring

Before World Wide Web (1989):

Event/Document/Tool	Year
RFC 881-883	1983
JEEVES ¹	1984
BIND (The Berkeley Internet Name Domain Server ²)	1984
RFC 1157 (SNMP)	1990
RFC 1611 (DNS Server MIB Extensions)	1994

After World Wide Web:

Event/Document/Tool	Year
ICANN	1998
Root Servers Operators	1984-2000
RFC 2010 (Root Name Server Operational Requirements)	2000
New gTLD Program	2013

¹ - <https://www.icann.org/en/system/files/files/rssac-023-04nov16-en.pdf>

² - <https://www2.eecs.berkeley.edu/Pubs/TechRpts/1984/CSD-84-182.pdf>

2. Service Level Agreement Matrix

Current Network Status
Last Updated: Sun Sep 6 18:10:35 MSK 2020 - Update in 67 seconds view log
icinga Classic UI 1.13.3 (Backend r2.4.4-1) - Logged in as paul

[View Alert History For This Host](#)
[View Notifications For This Host](#)
[View Host AND Services For All Hosts](#)
[View Host Status Detail For All Hosts](#)

Set Filters

Host	Service	Status
harvest-dummy.ripn.net	A.DNS-SERVICE	OK
harvest-dummy.ripn.net	B.DNS-SERVICE	OK
harvest-dummy.ripn.net	D.DNS-SERVICE	OK
harvest-dummy.ripn.net	DNS-SERVICE	OK
harvest-dummy.ripn.net	E.DNS-SERVICE	OK
harvest-dummy.ripn.net	F.DNS-SERVICE	OK
harvest-dummy.ripn.net	IPV4-A.DNS	OK
harvest-dummy.ripn.net	IPV4-B.DNS	OK
harvest-dummy.ripn.net	IPV4-D.DNS	OK
harvest-dummy.ripn.net	IPV4-E.DNS	OK
harvest-dummy.ripn.net	IPV4-F.DNS	OK
harvest-dummy.ripn.net	IPV4-TCP-A.DNS	OK
harvest-dummy.ripn.net	IPV4-TCP-A.NS	OK
harvest-dummy.ripn.net	IPV4-TCP-B.DNS	OK
harvest-dummy.ripn.net	IPV4-TCP-D.DNS	OK
harvest-dummy.ripn.net	IPV4-TCP-E.DNS	OK
harvest-dummy.ripn.net	IPV4-TCP-F.DNS	OK
harvest-dummy.ripn.net	IPV4-UDP-A.DNS	OK
harvest-dummy.ripn.net	IPV4-UDP-A.NS	OK
harvest-dummy.ripn.net	IPV4-UDP-B.DNS	OK
harvest-dummy.ripn.net	IPV4-UDP-D.DNS	OK
harvest-dummy.ripn.net	IPV4-UDP-E.DNS	OK
harvest-dummy.ripn.net	IPV4-UDP-F.DNS	OK
harvest-dummy.ripn.net	IPV6-A.DNS	OK
harvest-dummy.ripn.net	IPV6-B.DNS	OK
harvest-dummy.ripn.net	IPV6-D.DNS	OK
harvest-dummy.ripn.net	IPV6-E.DNS	OK
harvest-dummy.ripn.net	IPV6-F.DNS	OK
harvest-dummy.ripn.net	IPV6-TCP-A.DNS	OK
harvest-dummy.ripn.net	IPV6-TCP-A.NS	OK
harvest-dummy.ripn.net	IPV6-TCP-B.DNS	OK
harvest-dummy.ripn.net	IPV6-TCP-D.DNS	OK
harvest-dummy.ripn.net	IPV6-TCP-E.DNS	OK
harvest-dummy.ripn.net	IPV6-TCP-F.DNS	OK
harvest-dummy.ripn.net	IPV6-UDP-A.DNS	OK
harvest-dummy.ripn.net	IPV6-UDP-A.NS	OK
harvest-dummy.ripn.net	IPV6-UDP-B.DNS	OK
harvest-dummy.ripn.net	IPV6-UDP-D.DNS	OK
harvest-dummy.ripn.net	IPV6-UDP-E.DNS	OK
harvest-dummy.ripn.net	IPV6-UDP-F.DNS	OK
harvest-dummy.ripn.net	RU-A.DNS-SERVICE	OK
harvest-dummy.ripn.net	RU-B.DNS-SERVICE	OK
harvest-dummy.ripn.net	RU-D.DNS-SERVICE	OK
harvest-dummy.ripn.net	RU-E.DNS-SERVICE	OK
harvest-dummy.ripn.net	RU-F.DNS-SERVICE	OK
harvest-dummy.ripn.net	RU-IPV4-A.DNS	OK
harvest-dummy.ripn.net	RU-IPV4-B.DNS	OK
harvest-dummy.ripn.net	RU-IPV4-D.DNS	OK
harvest-dummy.ripn.net	RU-IPV4-E.DNS	OK

Available visualisations: DNS

- Map, colour-coded response time or diversity
- List of probes, sortable by response time



DNS measurement to ns1.opteamax.de

Probe	ASN (v4)	ASN (v6)	Time	Name	Response Time
17840	6327		2015-05-19 09:38	null	362.009
18035	43030		2015-05-19 09:50	null	347.39
18129	327805		2015-05-19 09:49	null	207.743
15844	32098		2015-05-19 09:48	null	184.237
17857	852		2015-05-19 09:37	null	177.694
19894	6327		2015-05-19 09:36	null	168.689
19204	21513		2015-05-19 09:50	null	141.199
15922	30036		2015-05-19 09:47	null	133.309

DNS: Competition between DNS-service providers

neustar // UltraTools Free Domain, DNS, WHOIS and IP Tools

Home | DNS Tools | World | Raw Performance | Uptime | Quality | Last 30 days

DNSSPerf Type: World Raw Performance Uptime

DNS name	Query Speed
1.1.1.1	
Google	
OpenDNS/	
i.root	
4 Cloudflare	14.34 ms
5 NextDNS	16.84 ms
6 Neustar	17.38 ms
7 Norton	18.68 ms
8 Quad9	19.5 ms
9 SafeDNS	21.06 ms
10 NuSEC	25.03 ms
11 Verisign	26.38 ms
12 Yandex	26.4 ms
9 DNSMadeEasy	26.4 ms
10 RcodeZero	27.43 ms

DNSSPerf DNS operations dashboard

Description
Dashboard provides an at-a-glance overview of the DNS traffic for the past 24 hours

Variants
n/a

Data displayed

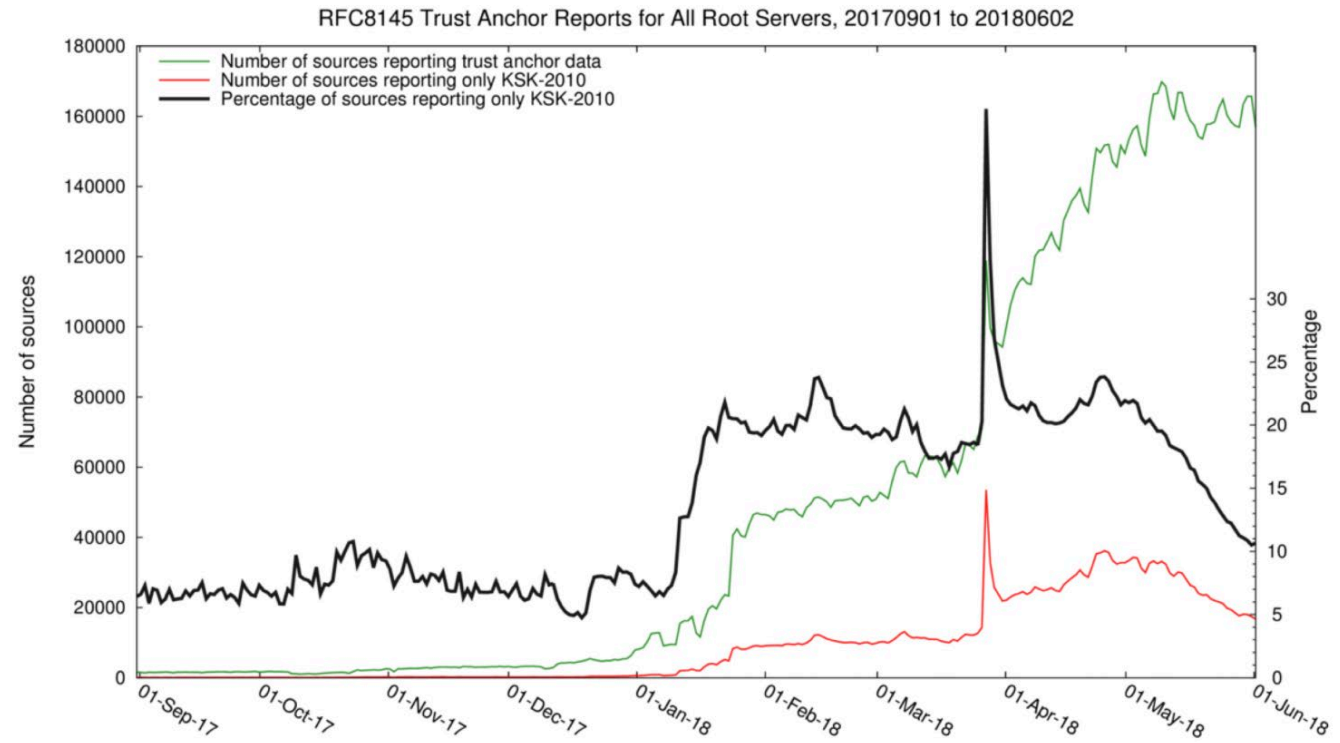
- Traffic graphs:
 - All traffic per Collector
 - Traffic for all Collectors by Internet Protocol (IP) - TCP and UDP
 - Traffic for all Collectors by IP version - IPv4 and IPv6
 - Traffic for all Collectors by common QTYPEs: A, AAAA, ANY, MX, NS, PTR, TXT
- Top QTYPE events in the past 24 hours
- Top domain names (QNAMEs) and source IP addresses flagged as a security risk in the past hour. Note: Requires integration with third-party security feeds
- RCODE health status bar showing the 'quality' of responses to queries at a per-minute resolution

Postponing the Root KSK Rotation

Matt Larson and P
17 October 2017



A Quick Look at Data



ZookNIC Internet Intelligence

Home

Current Analysis/Products

- Domain Name Counts
- Domain Industry Analysis
- Domain Name Market
- Map of TLDs
- Internet User M
- Samples of Wo

Historical Data/

- Domain Name International United Sta
- Domain Name Domains by U
- Top Domain H
- Secondary Sale Nameservers
- Length of Dom

Academic Resea

- Academic Rese

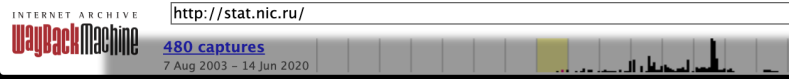
Questions?

- FAQ
- Background
- Press Releases
- Contact Us

Last Updated April,
Copyright 1998-2008, Z

History of gTLD domain name growth

This page provide
org, biz, info) dom
of the growth of t



Earlier data is fo

Date	(gTLDs)
1/1/98	2,29
7/1/97	1,30
1/1/97	82
7/1/96	48
1/1/96	24
7/1/95	12
1/1/95	71
7/1/94	46
1/1/94	30
7/1/93	26
1/1/93	21
7/1/92	16

THE DOMAIN NAME INDUSTRY BRIEF

Домены России

О проекте .RU .Ф .SU Сравнение отчётов

Сводный отчёт

Домены

Общее число доменов

Динамика изменения числа доменов

Динамика продлений доменов

Распределение доменов между физическими и юридическими лицами

География распределения доменов

Длина доменных имён

Распределение доменов по возрасту

За 5 сентября 2020 (вчера)

Всего доменов **4 958 130** ▲ +0,04 %

Делегированных доменов **4 770 995** ▲ +0,04 %

Доля делегированных доменов **96,23 %** ▼ -0,01 %

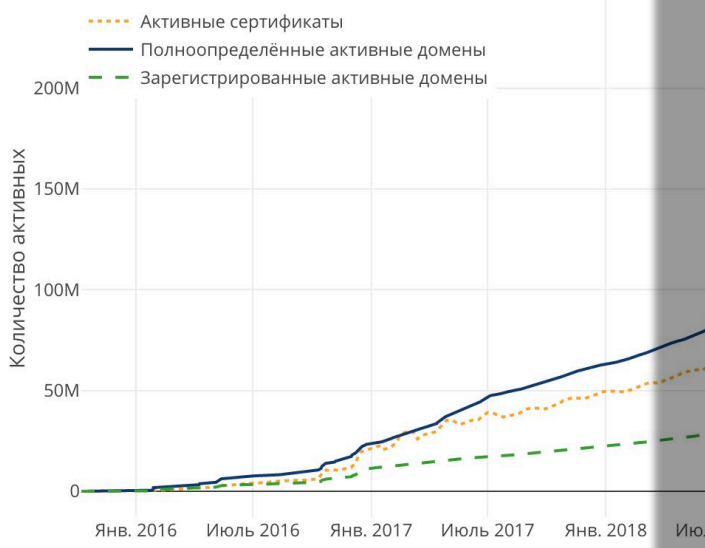
Общее число доменов

млн.

Дек 2011 Ноя Окт Сен 2014 Авг Июль Июнь Май 2017 Апр Мар Фев 2020

Статистика Let's Encrypt

Рост Let's Encrypt



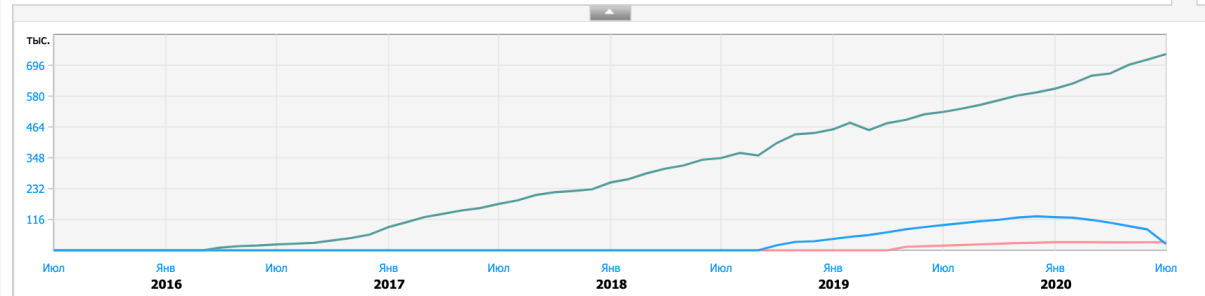
Домены России

О проекте .RU .РФ .SU Сравнение отчётов

Сводный отчёт

Распределение по УЦ

июл 2015 — июл 2020



На графике Let's Encrypt Authority X3 (Сертификаты, число) Sectigo RSA Domain Validation Secure Server CA (Сертификаты, число) CloudFlare Inc ECC CA-2 (Сертификаты, число)

Рейтинг УЦ

	Сертификаты, число	Сертификаты, доля
Всего	867 413	100,00
Let's Encrypt Authority X3	738 489	85,14 %
Sectigo RSA Domain Validation Secure	30 384	3,50 %
CloudFlare Inc ECC CA-2	23 383	2,70 %
Others (<1%)	19 549	2,25 %
Thawte RSA CA 2018	15 482	1,78 %
cPanel, Inc. Certification Authority	14 617	1,69 %
GlobalSign RSA DV SSL CA 2018	13 619	1,57 %
Encryption Everywhere DV TLS CA - G1	11 890	1,37 %

SBL XBL PBL DBL DROP ROKSO

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КООРДИНАЦИОННЫЙ ЦЕНТР НАЦИОНАЛЬНОГО ДОМЕНА СЕТИ ИНТЕРНЕТ

Новости Пре

О ПРОЕКТЕ

Проект Координационного центра информационно-аналитического пространства. На сайте публикуются отчеты о распространении «зловредов», доступен онлайн-сервис по формированию отчетов по типологии вредоносных ресурсов. Участники научно-технической агрегации информации о вредоносных ресурсах обмениваются аналитическими данными о доменных ресурсах, анализом интернет-ресурсов, Координационный центр

Участники проекта

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 - ▶ Groups
 - ▶ Business
 - ▶ Civil Society
 - ▶ Complaints Office
 - ▶ Contractual Compliance

Domain Abuse Activity Reporting

ICANN's Domain Abuse Activity Reporting (DAAR) project is a system for studying and reporting on domain name registration and security threat (domain abuse) behavior across top-level domain (TLD) registries. The overarching purpose of DAAR is to develop a robust, reliable, reproducible, and replicable **methodology** for analyzing security threat activity that can then be later used by the ICANN community to facilitate informed policy decisions.

The system collects TLD zone data and complements these data sets with a large set of high-confidence reputation (security threat) data feeds. The aggregated and anonymized data collected by the DAAR system can serve as a platform for studying or reporting daily or historical registration or abuse activity by each registry. The data is currently being pushed to registries using the ICANN SLAM system.

The data collected out of the DAAR system is being used to generate the DAAR monthly reports. The reports are point-in-time analysis of all TLDs for which data was available. The report provides aggregated statistics and time-series analysis about security threats of interest to DAAR namely phishing, malware, spam, and botnet command-and-control.

Independent market research and competitive analysis of next-generation business and technology solution service providers and vendors

HEAVY READING

The Role of DNS

■ Agree

■ Disagree

■ Not sure

DNS will continue to play a critical role going forward as WAN and security functions are combined to create converged edge nodes such as the secure access service edge (SASE) function



DNS is critical to 5G adoption



DNS is critical for delivery of cloud-based managed security services



DNS is critical to MEC adoption



DNS will change how we define our containerization strategy



DNS The Evolution Will

A custom Heavy Reading survey

AUTHOR: JIM HODGES, C