



dnssec.uz

PROTECT YOUR WEBSITE

 **UZINFOCOM**



DNSSEC Implementation in .UZ, first steps



dnssec.uz



CC TLD.UZ

TLD	Signed?	DS in Root?	ISC DLV?
UZ	YES	YES	NO



29 April, 2021 The domain zone .UZ has been signed with dnssec

http://stats.research.icann.org/dns/tld_report/

```
askhat@PC-2530: ~  
askhat@PC-2530:~$ dig @8.8.8.8 uz ds  
  
;<<>> DiG 9.11.5-P4-5.1+deb10u5-Debian <<>> @8.8.8.8 uz ds  
;<<>> (1 server found)  
;; global options: +cmd  
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51172  
;; flags: qr rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 512  
;; QUESTION SECTION:  
;uz. IN DS  
  
;; ANSWER SECTION:  
uz. 86379 IN DS 3685 8 2 D058D5A354EFB638058DABD7E0310AF31BD168FFDCCF49405750BF4D 5CE5AE0B  
  
;; Query time: 104 msec  
;; SERVER: 8.8.8.8#53(8.8.8.8)  
;; WHEN: Tue Jan 25 16:44:39 +05 2022  
;; MSG SIZE rcvd: 79  
  
askhat@PC-2530:~$
```

Scheme of interaction



End users

Request to add
a DS records



Registrars

Add a DS records
to DNSSEC.UZ System



Registry

Approve
a DS records

Centralized system for registering DS records for end users - DNSSEC.UZ



Homepage News What is DNSSEC? Registrars Statistics FAQ Tools

DNSSEC - protect your website

Check domain for DNSSEC technology

Enter your domain

Technology advantages

- Domain name system security extensions
- Data source authentication
- Data integrity check
- Reduces vulnerability to attacks
- Promotes innovation. Creates data trust in applications outside of DNS
- Helps protect the internet and users, companies, organizations and government

Purchase DNSSEC and protect your website data

Placeholder text: Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam

DNSSEC registration system

File Edit View Bookmarks Tools Window Help

https://dnssec.uz/en/ds/create

English Kadirov A.A.

DNSSEC

- Dashboard
- Domains
- Domain Transfers
- DS records
- Events
- Registrars
- Administrator
- Accounting

Add DS

DS record text

Domain name: dnssec-test.uz

Key tag

Key algorithm: DSA/SHA1(3)

Digest type: SHA1 (Type 1)

Key digest

Is active: Not active

Is valid: Invalid

[Back to DS records list](#)

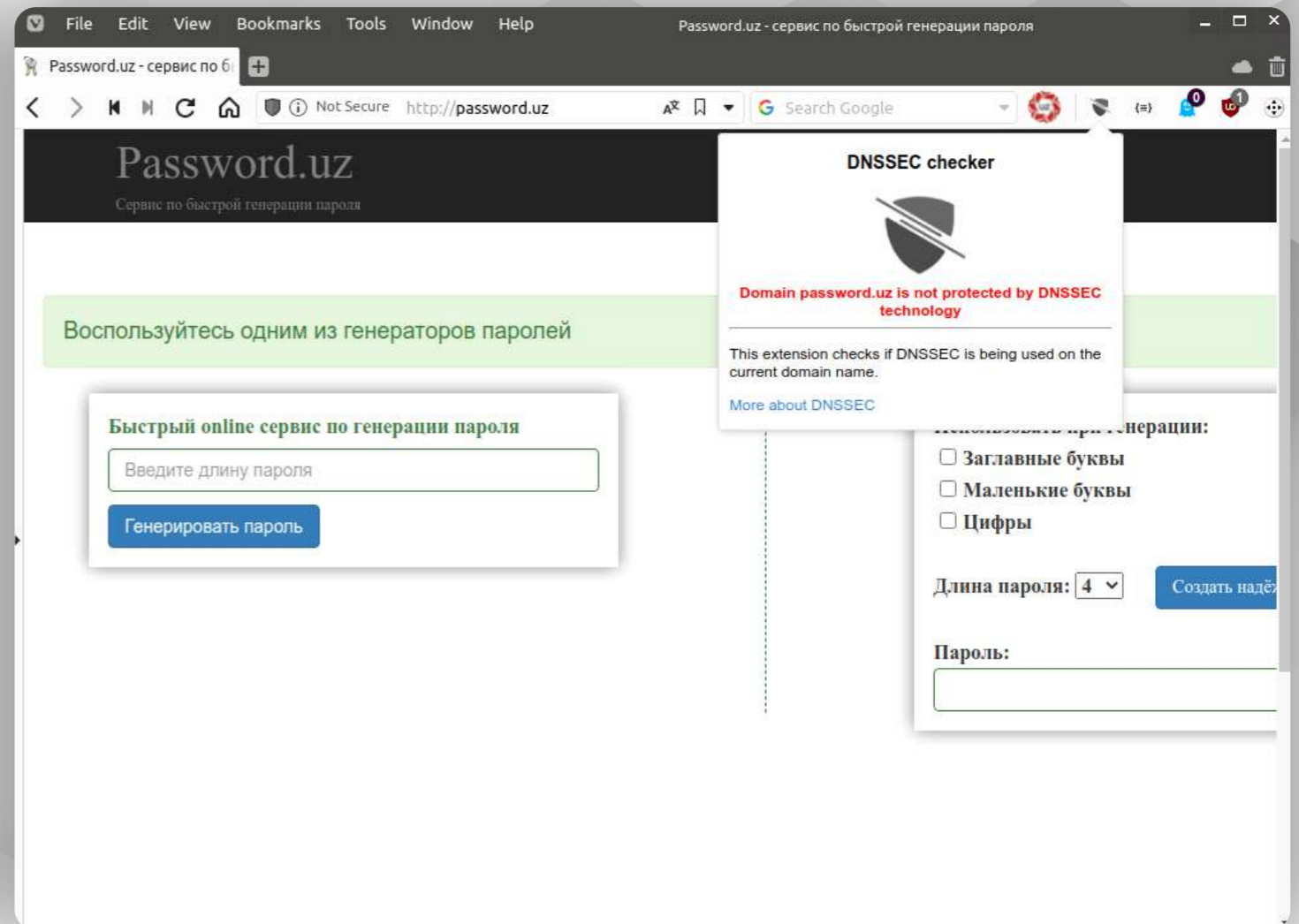
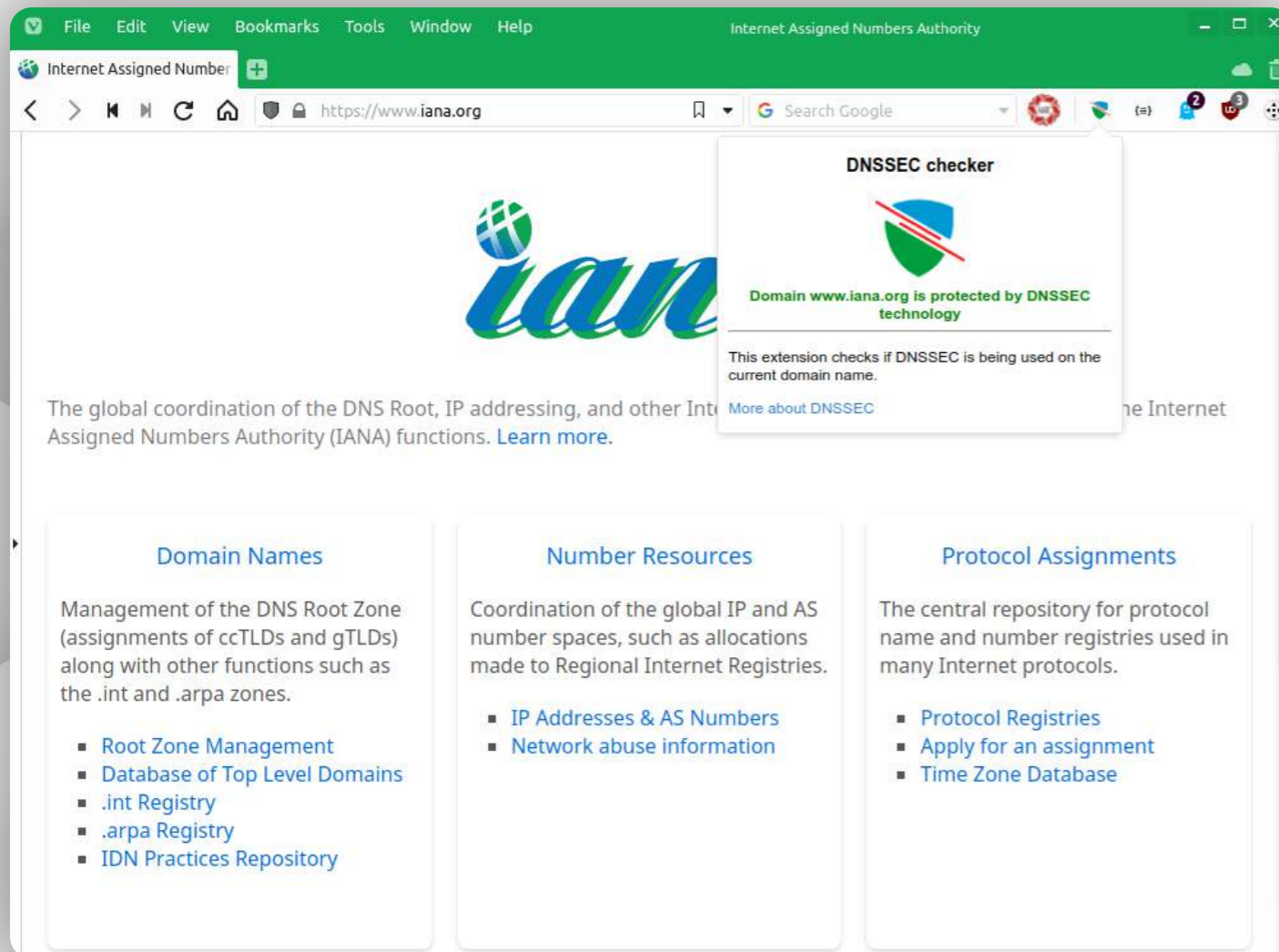
Web Service / API

Capabilities of DNSSEC.UZ

Browser extension for checking DNSSEC



Browser extension for checking DNSSEC



The DNSSEC browser extension automatically checks if DNSSEC is available on the current domain

Capabilities of DNSSEC.UZ

Browser extension for checking DNSSEC



The Featured badge is assigned to extensions that follow Chrome Web Store's technical best practices and meet a high standard of user experience and design

chrome web store

Home > Extensions > DNSSEC Checker

DNSSEC Checker Available on Chrome

Featured

★★★★★ 2 ⓘ | Developer Tools | 163 users

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intelsystem - [Popcorn] x +

dnssec.uz

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DNSSEC - protect your website

Check domain for DNSSEC technology

Enter your domain



DNSSEC VISUALIZATION TOOLS

This tool is based on an open source tool (<https://github.com/dnsviz/dnsviz>)

The screenshot shows the dnsviz website interface. At the top, there is a navigation menu with links for Homepage, News, What is DNSSEC?, Registrars, Statistics, and FAQ. Below the menu, a green banner states: "Domain iana.org is protected with DNSSEC technology. Updated time: 28-01-2022 16:25:19".

The main content area displays three hierarchical diagrams illustrating the DNSSEC chain for iana.org:

- Root:** A single DNSKEY record (alg=8, id=20326, 2048 bits) pointing to a DS record (digest alg=2).
- org:** A DNSKEY record (alg=8, id=20974, 2048 bits) pointing to four DS records (digest alg=1, 1, 1, 2).
- iana.org:** A DNSKEY record (alg=8, id=39817, 2048 bits) pointing to three DNSKEY records (alg=8, id=21911, 1024 bits; alg=8, id=1795, 1024 bits; alg=8, id=30184, 1024 bits). These three DNSKEY records point to various records: iana.org/NS, iana.org/A, iana.org/SOA, iana.org/CNAME, iana.org/MX, iana.org/TXT, iana.org/AAAA, and xs1vn6u63p.iana.org. Two NSEC records are also shown pointing to iana.org/A and iana.org/SOA.

At the bottom of the page, a warning message reads: "Beware - there are lots of threats on the Internet that require additional protection".

Promotion DNSSEC for Registrars




Providing DNSSEC technology training for registrars



газета.uz Общество Политика Экономика Спорт Коронавирус

Главная Новости Статьи Медиа 30 декабря, четверг COVID-19 Afisha Spot Zira Погода Вакансии




С технологией DNSSEC можно встретить Новый год, не беспокоясь о веб-сайте

UZINFOCOM предлагает подключить технологию DNSSEC, которая защитит личные данные пользователей сайта.

Сегодня, 13:00 Технологии Реклама

Команда UZINFOCOM поздравляет всех с наступающим новым 2022 годом. Новый год — это праздник начала новой жизни, новых творческих замыслов и добрых перемен. UZINFOCOM искренне желает, чтобы в наступающем году покоренных вершин стало еще больше. UZINFOCOM надеется, что Новый год приумножит все достигнутое вами, станет годом перспектив, знаменательных событий и успешных свершений. Пока вы будете отдыхать, технология DNSSEC будет работать, надежно защищая данные, сохраняя их полностью конфиденциальными.



Посмотреть на YouTube


А если вы еще не установили себе DNSSEC, то услугу можно с легкостью приобрести на сайте.



Shutdowns Technologies Resilience Centralization Pulse Blog About FAQ Data Partners EN

15:46 0,7 КБ/с 55%

Твитнуть

 Viktor Dukhovni @VDukhovni

The .uz (Uzbekistan) ccTLD was signed today: dnsviz.net/d/uz/YlgxA/dn...





Both ZSK and KSK are RSASHA256(8) at 2048 bits. Both signed the DNSKEY RRSets.


A more conservative design could use a 1280-bit RSA ZSK or ECDSA(13) for both, and avoid the needless ZSK signature of the DNSKEYs.

Перевести твит


05:13 · 28 апр. 21 · Twitter Web App


2 Отметки(-ок) «Нравится»

 Internet.nl @internet_nl · 28 апр. 21

В ответ @VDukhovni

 @UZINFOCOM @ccTLDuz

Твитнуть ответ 

Home / Pulse Blog / Cypriot, Libyan and Uzbek Domains Now Support DNSSEC

Cypriot, Libyan and Uzbek Domains Now Support DNSSEC



Mat Ford
Technology Insights

Categories: Technology



13 августа 2021 г.

In the second quarter of 2021, three more countries have joined the ranks of those with DNSSEC-signed country-code Top Level Domains (ccTLD) and security keys deployed in the DNS root zone.

Just about every Internet communication starts with a Domain Name System (DNS) lookup. The DNS is an essential piece of Internet infrastructure that translates human-friendly names (internetsociety.org) into computer-friendly numbers (2001:41c8:20:b31a).

Like many other components of the Internet, the DNS started out in an insecure form in a vastly different Internet landscape. Today, security and trustworthiness are vital foundations for the ongoing evolution and growth of a robust Internet that benefits users everywhere. DNS Security Extensions (DNSSEC) was developed to provide an additional level of security using cryptographic techniques to validate the authenticity of DNS information.

To date, 142 countries have DNSSEC-enabled ccTLDs with Uzbekistan (.uz), Libya (.ly) and Cyprus (.cy) all joining this group in the second quarter of 2021.

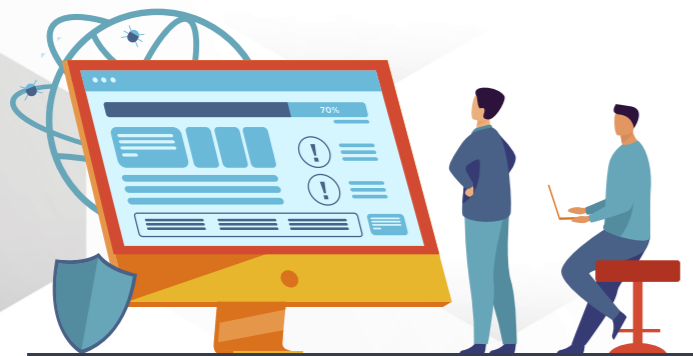
Signing the domain and installing security keys in the root zone of the DNS is only a first step to more widespread DNSSEC deployment, but it's an important one. Incentivising registrants to sign their domains is also key, as is encouraging ISPs to enable DNSSEC validation in the recursive resolvers they provide to their subscribers.

You can continue to observe the steady increase in ccTLD DNSSEC adoption, and the adoption of DNSSEC validation too, via our [Pulse Enabling Technologies page](#).

Photo by [chris panas](#) on Unsplash

GOT DNSSEC.UZ IN THE SPOTLIGHT

.UZ IS ABOUT DNSSEC.UZ: KEEPING THE MOMENTUM



~ 110,000
Second-level
domains in .UZ



26
Registrars



20
Number of second-
level domains signed
with DNSSEC

FUTURE PLANS



1

DNSSEC coverage
for whole .UZ
domain



2

Promotion of
DNSSEC
technology



3

Implementing
DNSSEC technology
to the commercial
and public sectors



4

DS Automation with
CDNS/CDNSKEY
records

Conclusion



Box solution for Registrars and END-USERS



Training and promotion for Registrars



Promotion for END-USERS (by social media etc.)



A payable service of DNSSEC



dnssec.uz



www.cctld.uz

www.dnssec.uz



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