



WhoisXMLAPI

Product Sheet

DNS Database Download

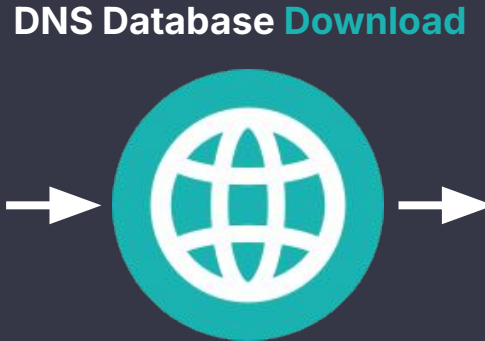
Why Businesses Choose Our Passive DNS Data?



Precisely reconstructing attack timelines requires deep historical DNS data and highly accurate timestamps.

Key Industry Challenges

- The rapid generation of DNS records from continuous Internet activities results in massive historical DNS datasets that demand extensive storage and robust indexing capabilities.
- Short-term data retention by some passive DNS services restricts extensive historical analysis and attack timeline reconstruction.
- Incomplete or inaccurate DNS records significantly hinder precise time synchronization, which is essential for correlating past DNS resolutions with security incidents.



So Why DNS Database Download?

- Encompasses 116B+ DNS records for comprehensive, market-leading visibility.
- Tracks DNS record changes over time, with diverse files for different update timelines.
- Offers bulk data access in a standard file format for seamless integration and analysis.



DNS Database Download Key Benefits

Monitor the DNS footprints of legitimate and malicious entities.

The database encompasses billions of DNS events, featuring the highest number of recorded unique fully qualified domain names (FQDNs).

The database tracks eight types of DNS records, namely, A, AAAA, NS, TXT, CNAME, SOA, MX, and PTR records.

Full DNS data access with daily, weekly, and monthly updates ensures continuous visibility.

Files are well-parsed and normalized to a consistent format for easy integration with your solutions.

BENEFITS

- Up-to-date
- Well-parsed
- Easy to integrate
- Tracks several DNS record types
- Varied update frequencies

116 billion+
DNS records

348 million+
DNS records added
weekly

60%+
Cyber 150 vendors in
key categories trust us

52,000+
Satisfied customers

DNS Database Download Details



FILE TYPES	DESCRIPTION
A records	Details the IPv4 address(es) for a given domain or subdomain name
AAAA records	Details the IPv6 address(es) for a given domain or subdomain name
MX records	Specifies the mail servers for a given domain or subdomain name
NS records	Specifies the authoritative DNS server containing the records of a given domain or subdomain name
TXT records	Contains any descriptive text associated with a domain or subdomain name
CNAME records	Refers to the domain name alias(es) that point to a root or canonical domain name
SOA records	Contains administrative information related to a given domain's zone
PTR records	Maps an IP address to a domain name

SUBSCRIPTION TYPES
<ul style="list-style-type: none">• Premium database: Offers extended coverage of current and historical DNS records collected for the past 90 or 365 days before a given date.• Standard database: Contains current DNS records collected for the past 90 days prior to a given date.• Lite database: Limited coverage of A DNS records, designed for academic purposes.

DOWNLOADING FILES
<ul style="list-style-type: none">• Downloading via HTTPS• Downloading via FTP• Downloading via FTPS

Premium DNS Database* Download Files



DAILY UPDATES Include DNS records that have been added during a previous day for a given date.	WEEKLY UPDATES Include changes in the weekly full database of DNS records compared to the previous period.	MONTHLY UPDATES Include changes in the monthly full database compared to the previous period.
WEEKLY FULL DATABASE A weekly full database of DNS records collected for the past 90 days before a given date.	MONTHLY FULL DATABASE A monthly full database of DNS records collected for the previous 365 days before a given date.	

* The Standard DNS Database Download includes all of the files listed above, except for the **Monthly Full Database**. Additionally, it includes the **Lite Database** files.

DNS Database Download CSV File Preview



DNS Database Download comes in eight file types representing different DNS records—A, AAAA, NS, MX, TXT, CNAME, SOA, and PTR.

Except for the MX records file, each file has the same columns, namely:

- **Domain:** The domain or subdomain
- **Date of last update:** The UNIX timestamp of the last visit/update on current record
- **Priority:** This column identifies the preferred mail server and is unique to the **MX records** file
- **DNS record type:** Depending on the file type, this column reflects the A, AAAA, NS, MX, TXT, CNAME, SOA, or PTR record
- **Wildcard:** This field indicates if the DNS record is part of a wildcard entry
- **Active:** The active field shows whether a DNS record exists for the given domain

d	du	ips	wildcard	active
0-11235.com	1728663261	43.250.142.134	FALSE	TRUE
0-40.nl	1728768594	109.235.32.116	FALSE	TRUE
0-9.au	1728741527	43.250.142.43	FALSE	TRUE
0-a.com	1728774816	64.190.63.222	FALSE	TRUE
0-apps.net	1728755461	80.190.158.32	FALSE	TRUE

Sample A DNS database file

d	du	cname	wildcard	active
000-0.com	1728642227	domain.stringer.win	FALSE	TRUE
0000.co.uk	1728791547	77980.bodis.com	FALSE	TRUE
000123.cc	1728809605	67899.mercurialsoLdes.com	FALSE	TRUE
000la.com	1728609003	traff-1.hugedomains.com	FALSE	TRUE
001.xn--vhquv	1728822951	001.xn--vhquv.lo701.faipod.com	FALSE	TRUE

Sample CNAME DNS database file

d	du	pr	mx	wildcard	active
0-11235.com	1728663262	0	0-11235.com	FALSE	TRUE
0-40.nl	1728768594	10	mail.0-40.nl	FALSE	TRUE
0-40.nl	1728768594	50	mx1.sipo.nl	FALSE	TRUE
0-40.nl	1728768594	50	mx2.sipo.nl	FALSE	TRUE
0-40.nl	1728768594	500	mx3.sipo.nl	FALSE	TRUE

Sample MX DNS database file

You can explore more samples [here](#).

Access Current and Historical DNS Data via APIs



DNS Chronicle API



Access historical DNS records—forward search (FQDN to A/AAAA) or reverse search (IP to FQDN).

[Check API](#)

DNS Lookup API



Retrieve comprehensive DNS information, including A, MX, NS, and TXT records.

[Check API](#)

Reverse IP API



Get a list of all domains associated with an IP address.

[Check API](#)

Access Current and Historical DNS Data via APIs



Reverse MX API



Get a list of domain names that link back to a specific mail server.

[Check API](#)

Reverse NS API



Discover domains connected to the same nameserver.

[Check API](#)

Reverse DNS API



Search for domain names associated to an SOA, TXT, or CNAME.

[Check API](#)



What Our Clients Say?

WhoisXML was the game changer for us. It has revolutionized our ability to disrupt cybercrime in process and at scale by quickly identifying all of the vendors providing material support for scammers using sophisticated website templates that look legitimate. By quickly identifying the vendors unknowingly supporting the criminals, we can provide them with public interest justification to burn down the criminal infrastructure.

Michael Roberts

Founder & Private Investigator
Rexxfield

WhoisXML API's passive DNS database, even the lite version for academic purposes, has much better subdomain data coverage compared with other commercial and free databases.

Shahnoor Kiani

Volunteer
CyberPeace Institute
[Learn more](#)

Thank you

www.whoisxmlapi.com



WhoisXMLAPI

The Who Behind Domain, IP & Cyber Threat Intelligence