

# Step-by-Step Guide to Getting Started with NRD 1.0

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Domain intelligence gleaned from WhoisXML API's Newly Registered & Just Expired Domains can help companies in multiple ways, including but not limited to:

- Supporting threat intelligence collection and correlation;
- Looking into domain registration trends and market shares;
- Enhancing brand and trademark protection strategies;
- Gathering data for competitor analysis and anticipating the rivals' next moves.

We tackle these use cases with illustrations in this in-depth guide, along with details on how to access such a source via flexible pricing plans.

## Choosing Pricing Plans and Licenses

	<small>?</small> Educational / Non-profit License	<small>?</small> Personal License	<small>?</small> Internal Restricted Business Purposes Only	<small>?</small> Commercial / Redistribution License
<b>Lite</b>	\$59/monthly	\$99/monthly	\$299/monthly	<a href="#">Contact us</a>
<b>Pro</b>	\$99/monthly	\$199/monthly	\$499/monthly	<a href="#">Contact us</a>
<b>Enterprise</b>	\$199/monthly	\$299/monthly	<b>\$999/monthly</b>	<a href="#">Contact us</a>
<b>Custom1</b>	\$299/monthly	\$399/monthly	\$1299/monthly	<a href="#">Contact us</a>
<b>Custom2</b>	\$399/monthly	\$499/monthly	\$1499/monthly	<a href="#">Contact us</a>

WhoisXML API offers five types of Newly Registered Domain (NRD) packages: Lite, Pro, Enterprise, Custom 1, and Custom 2. The package prices vary depending on the usage license you choose. Licenses come in the form of educational and nonprofit, personal, internal business, and commercial ones.

## Pricing Plans: What Features Do You Get with Each Package?

Our pricing plans differ in terms of pricing and features. Here is an overview:

### Lite

Under our Lite package, clients can access all registered domain names plus get daily downloads of the latest additions. The subscription prices start at \$59 a month.

### Pro

Our Pro package includes access to all registered domains, daily downloadable NRD feeds, and recently expired domain name feeds. Pro plans are available for as low as \$99 per month.

## Enterprise

Our Enterprise package enables companies to see the WHOIS records of all newly registered and recently expired domains. Thus, enterprise users can obtain full domain ownership information—with the key data points summarized in the table below. The prices for Enterprise plans start at \$199 monthly.

Data Points	Description
Registrar details	Registrar's name and Internet Assigned Numbers Authority (IANA) ID
Contact email address	Contact email address, same as registrant's
WHOIS server	WHOIS server used by registrar
Nameservers	List of nameservers used by domain name
Domain age	Includes creation, update, and expiration dates of domain
Status	Reflects current status of domain name
Registrant details	Registrant contact details include registrant's email address, name, organization, street address, country, postal code, and telephone numbers
Administrative contact details	Same data points as registrant details, plus administrative contact information
Billing Contact Details	Same data points as registrant details, plus billing contact information.
Technical contact details	Same data points as registrant details, plus technical contact information

## Custom 1

With our Custom 1 package, users can enjoy the same benefits as our Enterprise package users, but the domain names are also categorized by the registrant country. This unique feature makes it

easy for users to perform location-based market research. Market segmentation thus becomes more precise and less complicated. What's more, users get access to WHOIS archives dating back to 2012 with this package. Custom 1 package prices start at \$299 monthly for educational use.

## Custom 2

Custom 2 package users get access to all registered domains and daily downloadable feeds of newly registered and recently expired domain names. Categorization by the registrant country and access to WHOIS archives are also included in the package. Unredacted domain WHOIS data available through WHOIS proxy removal is also included at prices starting at \$399 a month.

Below is a visual representation of the features included in each pricing plan.

Features	Lite	Pro	Enterprise	Custom1	Custom2
All Registered Domains	✓	✓	✓	✓	✓
Just Expired Domains		✓	✓	✓	✓
Daily downloads	✓	✓	✓	✓	✓
WHOIS Data (full domain ownership information) <sup>?</sup>			✓	✓	✓
Categorized based on registrant country				✓	✓
Removal of WHOIS proxies <sup>?</sup>					✓

## Licenses: How Will You Use the Data?

The licenses that users select dictate package prices and how they can use the data provided. WhoisXML API offers four different license types described below.

- **Educational license:** As the name suggests, this license is for educational purposes only. The data is useful for professors or students working on research projects. During application, clients who want to use this license are required to submit their academic credentials.
- **Personal license:** This type of license gives users permission to access the database content for personal consumption only. Data use should remain noncommercial, which means users cannot use it for income-generating activities. The Personal license also prohibits users from sharing the database's content to third parties.
- **Internal Business license:** With the Internal Restricted License, businesses can use the database within their organization for internal research. This license does not allow users to integrate the database into any commercial product or solution. Sharing data with third parties is also prohibited under this license.
- **Commercial or Redistribution license:** Organizations that want to use Newly Registered & Just Expired Domains commercially should get this type of license. They can distribute the data to third parties and integrate it into commercial products, such as threat intelligence platforms, third-party risk management solutions, and the like.

The package prices under the Commercial license depend on the agreement between WhoisXML API and the client. You can send our sales team an email at [sales@whoisxmlapi.com](mailto:sales@whoisxmlapi.com) to discuss pricing and other terms.

## Downloading Newly Registered & Just Expired Domains

After choosing a pricing package, you can download the NRD files. That can be done via HyperText Transfer Protocol Secure (HTTPS) or File Transfer Protocol (FTP). For both methods, you need your application programming interface (API) key, which you can get from your account's [My Products](#) page (login is required).

The base path for downloading via HTTPS is <https://newly-registered-domains.whoisxmlapi.com/datafeeds>

. Depending on your product subscription, you will see other databases on this page, including one named “Newly\_Registered\_Domains.”

## Directory of <https://newly-registered-domains.whoisxmlapi.com/datafeeds/>

Login successful.

drwxrwxr-x	1	523	523	4 Nov 08	2019	<a href="#">All_Registered_Domains</a>
drwxrwxrwx	1	1009	1011	4096 Oct 27 00:25		<a href="#">DNS_Database_Download</a>
drwxr-xr-x	1	1006	mongod	152 Oct 15	2019	<a href="#">Daily_Website_Contacts_and_Categorization</a>
drwxr-xr-x	1	ftp_admin	1005	28672 Oct 28 12:01		<a href="#">Disposable_Email_Domains</a>
drwxr-xr-x	1	523	root	7 Aug 19	2019	<a href="#">Newly_Registered_Domains</a>
drwxr-xr-x	1	ftp_admin	ftp_admin	73728 Oct 29 00:04		<a href="#">Typosquatting_Datafeed</a>
drwxrwxr-x	2	ftp_admin	ftp_admin	4096 Dec 14	2018	<a href="#">test</a>

The link to the root file will take you to a directory where you can see the package you selected.

## (/Newly\_Registered\_Domains)

Login successful.

drwxrwxr-x	1	523	523	15 Aug 19	2019	<a href="#">custom1</a>
drwxrwxr-x	1	523	523	19 Aug 19	2019	<a href="#">custom2</a>
drwxrwxr-x	1	523	523	10 Aug 19	2019	<a href="#">enterprise</a>
drwxrwxr-x	1	523	523	4 Aug 19	2019	<a href="#">lite</a>
drwxrwxr-x	1	523	523	6 Aug 19	2019	<a href="#">pro</a>

Open the correct package by clicking its name and select the path named “**domain\_names\_new**.”

(/Newly\_Registered\_Domains/enterprise)

Login successful.

drwxr-xr-x	1	root	root	192512	Oct 28 02:58	<a href="#">domain_names_diff_whois</a>
drwxr-xr-x	1	root	root	17	Sep 24 2018	<a href="#">domain_names_dropped</a>
drwxr-xr-x	1	root	root	487424	Oct 28 02:50	<a href="#">domain_names_dropped_whois</a>
drwxr-xr-x	1	apache	502	17	Sep 24 2018	<a href="#">domain_names_new</a>
drwxr-xr-x	1	root	root	6172672	Oct 28 08:29	<a href="#">domain_names_ngtlds_diff_whois</a>
drwxr-xr-x	1	root	root	1255	Jul 16 17:02	<a href="#">domain_names_ngtlds_dropped</a>
drwxr-xr-x	1	root	root	5586944	Oct 28 08:32	<a href="#">domain_names_ngtlds_dropped_whois</a>
drwxr-xr-x	1	root	root	1257	Oct 28 13:16	<a href="#">domain_names_ngtlds_new</a>

Select the file you want to download identified by its gTLD. Clicking on a gTLD will take you to a directory where all available data feeds are listed, arranged from oldest to newest.

(/Newly\_Registered\_Domains/enterprise/domain\_names\_new)

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Login successful.

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-rw-r--r--	1	root	root	676	Nov	26	2013	<a href="#">README</a>
drwxr-xr-x	1	root	root	4066	Oct	28	18:51	<a href="#">aero</a>
drwxr-xr-x	1	root	root	4707	Apr	01	2020	<a href="#">asia</a>
drwxr-xr-x	1	root	root	5701	Mar	31	2020	<a href="#">biz</a>
drwxr-xr-x	1	root	root	6140	Oct	28	18:51	<a href="#">com</a>
drwxr-xr-x	1	root	root	33564	Oct	28	18:55	<a href="#">hashes</a>
drwxr-xr-x	1	root	root	5723	May	07	21:00	<a href="#">info</a>
drwxr-xr-x	1	root	root	3949	Oct	23	2017	<a href="#">mobi</a>
drwxr-xr-x	1	root	root	4468	Oct	28	18:51	<a href="#">name</a>
drwxr-xr-x	1	root	root	3953	Oct	23	2017	<a href="#">net</a>
drwxr-xr-x	1	root	root	5726	Mar	31	2020	<a href="#">org</a>
drwxr-xr-x	1	root	root	2808	Feb	10	2017	<a href="#">pro</a>
drwxr-xr-x	1	root	root	4793	Oct	28	18:54	<a href="#">status</a>
drwxr-xr-x	1	root	root	2356	Dec	11	2017	<a href="#">tel</a>
drwxr-xr-x	1	root	root	6079	Oct	28	18:54	<a href="#">us</a>

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To download files via FTP, use the base path <ftp://datafeeds.whoisxmlapi.com:21210>.

The file name of each data feed comes in the format of “add.[gTLD].csv.” If you download the .com file, the file name would then be “add.com.csv.” The domain names are listed per line without the domain extension. A sample is provided in the screenshot below.





add.com - Excel				
A1				
	A	B	C	
1	2094			
2	0001jiaxiao			
3	2094			
4	000-escort			
5	112094			
6	19666			
7	001-escorts			
8	001pw			
9	222094			
10	00228414-nets			
11	00-22gvb			
12	23695			
13	332094			

*Users can download the data feed file here: [2020-10-28-add.com.csv](#).*

Depending on the plan selected, more downloading paths will also be available in addition to **domain\_names\_new**. Here are brief descriptions of each:

## Lite

- **domain\_names\_ngtlds\_new:** Contains newly registered domain names categorized by new gTLD, ranging from .aaa to .zuerich.

## Pro

- Same as “Lite”
- **domain\_names\_dropped:** Contains a list of recently dropped domain names in major gTLD spaces, namely, .aero, .asia, .biz, .com, .info, .mobi, .name, .net, .org, .pro, .tel, and .us.
- **domain\_names\_ngtlds\_dropped:** Lists recently expired domain names in the new gTLD space, ranging from .aaa to .zuerich.

## Enterprise

- Same as “Pro”
- **domain\_names\_diff\_whois:** This data feed provides the WHOIS records of domain names that may not have been available on previous days. It only contains information on major gTLDs only.
- **domain\_names\_dropped\_whois:** This database contains newly dropped domains names

(only in the major gTLD spaces) for a given day, along with their WHOIS records.

- **domain\_names\_ngtlds\_diff\_whois:** Lists the domain names (new gTLDs only) whose WHOIS records changed on a given date and may not have been available on previous days.
- **domain\_names\_ngtlds\_dropped\_whois:** Contains the WHOIS records of recently expired domains (new gTLDs only) for a given date.

Below is an example of an Enterprise NRD file that is enriched with WHOIS data.

domainName	registrant_rawText	registrant_email	registrant_name	registrant_organization	registrant_street1
rottenrita.com	Registrant Name: W	2cac4d1ceb79463	WhoisGuard Prot	WhoisGuard, Inc.	P.O. Box 0823-03411
richfoodboutique.com	Registrant Name: Cc	yo4o5tr9hgxn@cc	Contact Privacy In	Contact Privacy Inc. Cust	96 Mowat Ave
rideaalong.com	Registrant State/Province: Michigan	F	Registrant State/Province: Michigan		
righttorich.com	Registrant Name: Gi	righttorich.com@Giri		righttorich	Hyderabad
rmt-ex.com	Registrant Organization: Round Mountain Excavation	Re	Round Mountain Excavation		
risolarshades.com	Registrant Organization: Yankee Sales & Services	Regist	Yankee Sales & Services		
rosmybeautyspa.com	Registrant Name: REDACTED FOR PRIV	REDACTED FOR PR	REDACTED FOR PRIVACY	REDACTED FOR PRIV	
restaurant-fleur-thym.com	Registrant Name: REDACTED FOR PRIV	REDACTED FOR PR	seo ethique	REDACTED FOR PRIV	
rovodoor.com	Registrant Name: Whois Agent	Regist	Whois Agent	Domain Protection Servi	PO Box 1769
rongonlines.com	Registrant Name: Cc	rongonlines.com	Contact Privacy In	Contact Privacy Inc. Cust	96 Mowat Ave
rqtmbx.com	Registrant Country: CN	Registry Regis	Registry Registrant ID: Not Available From Registry		
rosa-mendes.com	Registrant Name: jia	340659818@qq.cc	jiang bo yuan	yuan jiang bo	tong shan xian, tong
retrosoundamps.com	Registrant Name: Kr	retrosound_ampi	Krishnaphat Ming	Krishnaphat Mingsamdar	32/45 Reab Khlong 4
robotcespedweb.com	Registrant Name: RE	dataprivacyprote	REDACTED FOR PR	1&1 Internet Limited	REDACTED FOR PRIV
reviewyoutoo.com	Registrant Name: Re	reviewyoutoo.co	Registration Priva	Domains By Proxy, LLC	DomainsByProxy.co
reykpt.com	Registrant Name: PE	7c9iq2mqaaail0br7	PERFECT PRIVACY, LLC		5335 Gate Parkway
richysandoval.com	Registrant Name: Cc	zaqkgwvz19ob@c	Contact Privacy In	Contact Privacy Inc. Cust	96 Mowat Ave
roseredbeauty.com	Registrant Name: Su	roseredbeauty.cc	Super Privacy Service LTD c/o Dynadot		PO Box 701
ruopah.com	Registrant Name: Su	ruopah.com@sup	Super Privacy Service LTD c/o Dynadot		PO Box 701
rodbanchatchaiusedcar.com	Registrant Name: RE	info@domain-cor	REDACTED FOR PR	REDACTED FOR PRIVACY	REDACTED FOR PRIV

Enterprise and Custom 1 & 2 users can download the file here: [full\\_2020\\_10\\_29\\_com.csv.gz](https://www.whoisxmlapi.com/full_2020_10_29_com.csv.gz).

## Custom 1

- Same as “Enterprise”

- **domain\_names\_diff\_whois\_archive:** The database contains the historical WHOIS records of gTLD domains registered on a given day. The data feeds are arranged by the year.
- **domain\_names\_diff\_whois\_filtered\_reg\_country:** This data feed contains the WHOIS data of NRDs whose WHOIS records were not available on previous days. The domain names are categorized by the registrant country.
- **domain\_names\_ngtlds\_whois\_archive:** This data feed provides users with access to the archived WHOIS data of domains in the new gTLD space, registered on a given day.
- **domain\_names\_whois\_filtered\_reg\_country:** Contains the WHOIS data of domain names covering all major gTLDs categorized by the registrant country. The files are contained in gzipped .tar archives named after the date, gTLD, and country.
- **domain\_names\_whois\_filtered\_reg\_country\_archive:** This data feed contains the archived or historical WHOIS records of domains under major gTLDs categorized by the registrant country.

## Custom 2

- Same as “Custom 1”
- **domain\_names\_diff\_whois\_filtered\_reg\_country\_noproxy:** This database contains the WHOIS records of domains (major gTLDs only) categorized by the registrant country and with WHOIS guard and proxy protection removed.
- **domain\_names\_diff\_whois\_filtered\_reg\_country\_noproxy\_archive:** Contains the historical WHOIS records of domains across all major gTLDs categorized by registrant country with WHOIS proxies removed.
- **domain\_names\_ngtlds\_diff\_whois\_filtered\_reg\_country\_noproxy:** This data feed contains the unredacted WHOIS records of domains across all new gTLDs categorized by

the registrant country.

- **domain\_names\_whois\_filtered\_reg\_country\_noproxy:** This database contains the WHOIS records of domains under the new gTLDs. The data is categorized by the registrant country, with WHOIS guards and proxies removed.

## Newly Registered & Just Expired Domains in Action

You can use the Newly Registered & Just Expired Domains database for brand protection, threat intelligence, competitor analysis, market research, and other purposes. We illustrated some of these use cases in this section.

### Brand Protection

Brand and trademark protection includes monitoring new registrations for domain names that use your brand or trademarked names. Domain names that imitate a brand could figure in phishing campaigns or damage your company's reputation. For example, we downloaded a file dated 28 October 2020 and found several domains that use Adidas's brand name.



## Book

## Value

add.com.csv

adidaschaus

add.com.csv

adidascityrunners

add.com.csv

adidasgolffw21

add.com.csv

adidashrvatskahr

add.com.csv

adidas-ok

add.com.csv

adidastrturkiye

add.com.csv

clubadidas

add.com.csv

myadidasshoes

8 cell(s) found

Users can download the data feed file here: [2020-10-28-add.com.csv](#).

It also detected dozens of domain names that use the brand name PayPal.

Book	Value
add.com.csv	acc-paypal
add.com.csv	continuing-paypal
add.com.csv	inc-continuing-paypal
add.com.csv	incl-paypal
add.com.csv	inc-paypal-continuing
add.com.csv	journapaypal
add.com.csv	paypal24continuing
add.com.csv	paypal-24-continuing
add.com.csv	paypal-24-support
...	...

26 cell(s) found

Users can download the data feed file here: [2020-10-28-add.com.csv](#).

Monitoring NRDs allows companies to immediately take action when they notice copycats or threat actors abusing their brand or company name. Companies can also monitor recently expired domains that contain their brand name. That way, they can immediately take over these domains

and prevent threat actors from abusing them in the future.

Access to unredacted WHOIS records of cybersquatting domain names, meanwhile, allows companies to reach out to their registrants. The Enterprise package, for instance, reveals the registrant details of cybersquatting domain `restorepaypal48[.]com`. The company can contact the person to learn how he or she uses the domain.

domainName	registrant_rawText	registrant_email	registrant_name	registrant_organization	registrant_street1	registrant_street2
restorepaypal48.com	Registrant Name: Ja	javial.mecanico@protonmail.com	Javial Mecanico		2200 Alliance Rd NW	

*Enterprise and Custom 1 & 2 users can download the file here: [full\\_2020\\_10\\_29\\_com.csv.gz](https://www.whoisxmlapi.com/enterprise/downloads/full_2020_10_29_com.csv.gz).*

## Threat Intelligence Enrichment

Threat actors typically use NRDs to launch malicious campaigns, such as botnet infection and phishing attacks. In this way, monitoring them can help enrich a company's threat intelligence gathering and research. With a Commercial or Redistribution license, it's possible to integrate the Newly Registered & Just Expired Domains into security products for automated monitoring. Among the things that they need to check with regard to NRDs are:

- **Indicators of cybersquatting or typosquatting:** The Adidas and PayPal lookalike domains in the previous section are examples of these.
- **Presence of possible non-human- or domain generation algorithm (DGA)-generated domain names:** Malware and botnet creators use machines or DGA to make their command-and-control (C&C) servers less detectable. But DGA-generated domains are characterized by the presence of random strings of alphanumeric characters. That said, looking for domain names with these strings can improve threat intelligence efforts.

Some of the domains we downloaded appear to have been machine-generated. Out of 134,276 NRDs, hundreds had random characters. Some examples are:



- 51385[.]com
- 552094[.]com
- 772094[.]com
- 00853kjzx[.]com
- 0086zr[.]com
- 023105e0f43ec875352eadd78b763f2e[.]com
- 00886vnsr[.]com

## Competitor and Market Analysis

Newly Registered & Just Expired Domains can provide insights into market trends and offer a glimpse of what competitors are doing. A business that offers web design services, for instance, would find out that 35 new domains containing the string “webdesign” appeared on the DNS on 28 October.



Book	Value
add.com.csv	janepwebdesign
add.com.csv	jjnwebdesigns
add.com.csv	kinetikwebdesign
add.com.csv	lunettewebdesign
add.com.csv	mmserviceandwebdesignllc
add.com.csv	nkywebdesign
add.com.csv	outbackwebdesigns
add.com.csv	readywebdesigns
add.com.csv	relaxwebdesign
add.com.csv	rmwebdesigns
add.com.csv	sbwebdesigning
add.com.csv	simwebdesign
add.com.csv	swaffordwebdesigns
add.com.csv	valiantwebdesign
add.com.csv	webdesign0
add.com.csv	webdesign-bayreuth
add.com.csv	webdesignbismark

For those who want to learn about the business trends in Calgary, the feed also revealed that as of 28 October, eight out of the 13 NRDs were related to used car dealership.



Book

Value

add.com.csv

affordablecarscalgary

add.com.csv

akpsicalgary

add.com.csv

buyusedcarscalgary

add.com.csv

calgarybollards

add.com.csv

calgaryruralmed

add.com.csv

calgarytoilet

add.com.csv

calgaryusedauto

add.com.csv

calgaryusedcarskijiji

add.com.csv

cuscalgary

add.com.csv

kijijicalgaryusedcars

add.com.csv

usedautocalgary

add.com.csv

usedcarscalgaryalberta

add.com.csv

usedcarssalecalgary

The Newly Registered & Just Expired Domains database also makes it easy to conduct country-based research. The Custom 1 package along with others, for instance, categorizes data by the registrant country.



filtered_reg_country_2020_04_28.tar.gz\da		
Name	Size	
..		
AFGHANISTAN	7,695	
ALBANIA	26,891	
ALGERIA	28,139	
AMERICAN SA...	3,041	
ANDORRA	13,997	
ANGOLA	8,548	
ANGUILLA	3,836	
ANTIGUA AND ...	3,103	
ARGENTINA	322,162	
ARMENIA	7,535	
ARUBA	4,766	
AUSTRALIA	745,975	
AUSTRIA	171,345	
AZERBAIJAN	9,068	
BAHAMAS	304,436	
BAHRAIN	15,128	

Additionally, being able to see domains' WHOIS records and filter those that use proxies allows companies to map the domain name infrastructure of competitors and market leaders.

Competitors of Zurple, Inc., for instance, can get a glimpse of its competitors' business direction. With the Enterprise package, it can filter the Registrant Organization column and see that the company of interest registered two domain names on 29 October 2020, `laineysellingswflorida[.]com` and `winstonsalehomefinder[.]com`.

domainName	standar	standar	status	Registr	WhoisF	Audit_	registra	regist	registra	registrant_organiz
laineysellingswflorida.com	2020-10-2	2021-10-2	clientDele	Domain N	Domain N	2020-10-3	Registrant Organization: Zurp	Zurple, INC.		
winstonsalehomefinder.com	2020-10-2	2021-10-2	clientDele	Domain N	Domain N	2020-10-3	Registrant Organization: Zurp	Zurple, INC.		

Enterprise and Custom 1 & 2 users can download the file here: [full\\_2020\\_10\\_29\\_com.csv.gz](https://www.whoisxmlapi.com/enterprise/custom12/full_2020_10_29_com.csv.gz).

## Conclusion

As was illustrated, WhoisXML API's Newly Registered & Just Expired Domains database and its data feeds have multiple use cases, including cybersecurity, brand protection, and market research. Visit our [pricing page](#) for more information about our various licensing options and plans or contact us at [sales@whoisxmlapi.com](mailto:sales@whoisxmlapi.com) with any questions or sales queries you may have.