

Integrating a Newly Registered Domains Database into Enterprise Cybersecurity Strategies

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It's generally agreed that newly registered domains are potential sources of threats. After all, many of these domain registrations are made opportunistically—sometimes even in bulk, following [public announcements and global events](#). While not all of these domains have to be avoided at all costs, they certainly deserve more scrutiny than others that have been established for years.

The good news is that monitoring newly registered domains is doable with the help of the [Newly Registered & Just Expired Domains Database](#).

Enterprise Cybersecurity Stakeholders: Who Can Benefit From a Newly Registered Domains Database Integration?

In this post, we explore how security platform developers, security operations centers (SOCs), and managed security service providers (MSSPs) can use a newly registered domains list to bolster their cybersecurity strategies.

1. Security Platform Developers

With statistics revealing that [70% of newly-registered domains are malicious](#), developers can deliver a lot of value to users by adding the monitoring of said domain names to their applications. Let's take a look at an example.

Over the past few months, companies have been battling COVID-19-related phishing attacks, some of which rely on fake emails sent by impersonators of known healthcare organizations. When falling for the usual traps, victims either get redirected to a phishing website and lose their credentials to attackers or install malware that steals data from their computers.

What victims may not know is that most of the domains figuring in these phishing attacks are newly registered. To illustrate this point and how risky it can be to let them into corporate networks, we obtained a list of indicators of compromise (IoCs) related to COVID-19 attacks from the [U.S. Department of Homeland Security](#).

The said IoC list contained close to 2,300 domains, which we subjected to a [bulk WHOIS lookup](#).

domainName	registrant	contactEn	whoisServ	domainAv	nameServ	createdDate	updatedDate	expiresDa	standardR	standardR	standardR	status	Registry
1 kaaryathalo.com	PDR Ltd. d/b/	pgyawa@gm	whois.publicdomainregistri	ns1.agmweb	2019-05-05	2019-05-05	2019-05-05	2019-05-05	2019-05-05	2019-05-05	2019-05-05	clientTransfe	Domain
2 coronavirusecuador.com	Wild West Di	coronaviruse	whois.wildwestdomains.ci	JILL.NS.CLOU	2020-03-01	2020-03-01	2020-03-01	2020-03-01	2020-03-01	2020-03-01	2020-03-01	clientTransfe	Domain
3 hrandyou.co.uk	eNom LLC [Tag = ENOM]		whois.nic.uk	ns0.ukfast.ni	2015-09-19	2015-09-19	2015-09-19	2015-09-19	2015-09-19	2015-09-19	2015-09-19	ok	Domain
4 bangkukuliah.com	WEBCC	gsyahbdg@g	whois.webnic.cc	DNS1.INDOV	2015-09-19	2015-09-19	2015-09-19	2015-09-19	2015-09-19	2015-09-19	2015-09-19	ok	Domain
5 coronabye.com	FastDomain	WHOIS@BLL	whois.bluehost.com	NS1.BLUEHO	2020-01-30	2020-01-30	2020-01-30	2020-01-30	2020-01-30	2020-01-30	2020-01-30	ok	Domain
6 coronastats.net	GoDaddy.cor	abuse@god	whois.godaddy.com	NS-324.AWS	2020-02-18	2020-02-18	2020-02-18	2020-02-18	2020-02-18	2020-02-18	2020-02-18	clientTransfe	Domain
7 xxx-wa.com	Wild West Di	xxx-wa.com	whois.wildwestdomains.ci	HANS.NS.CL	2020-02-04	2020-02-04	2020-02-04	2020-02-04	2020-02-04	2020-02-04	2020-02-04	clientTransfe	Domain
8 coronavirusabc.com	GoDaddy.cor	abuse@god	whois.godaddy.com	NS05.DOMA	2020-01-29	2020-01-29	2020-01-29	2020-01-29	2020-01-29	2020-01-29	2020-01-29	clientTransfe	Domain
9 westcoasttelemetry.com	Network Soli	westcoasttel	whois.networksolutions.c	NS1.WEBM	2003-06-29	2003-06-29	2003-06-29	2003-06-29	2003-06-29	2003-06-29	2003-06-29	clientTransfe	Domain
10 coronavirusofficialnews.com	TUCOWS, INI	coronavirusc	whois.tucows.com	dns1.p05.ni	2020-02-02	2020-02-02	2020-02-02	2020-02-02	2020-02-02	2020-02-02	2020-02-02	clientTransfe	Domain
11 coronanow.kr	Dotname Koi	Rdo205@g	whois.krncc.net	ns1.dothom	2020-02-03	2020-02-03	2020-02-03	2020-02-03	2020-02-03	2020-02-03	2020-02-03	00:00:00 UTC	query : (
12 heinrichrpp.com	ENOM, INC.	ABUSE@ENC	WHOIS.ENOM.COM	NS0.UKFAST	2018-07-14	2018-07-14	2018-07-14	2018-07-14	2018-07-14	2018-07-14	2018-07-14	clientTransfe	Domain
13 curemycovid19.com	Wix.Com Ltd	domain-abus	whois.wix.com	ns11.wixdn	2020-03-14	2020-03-14	2020-03-14	2020-03-14	2020-03-14	2020-03-14	2020-03-14	clientTransfe	Domain
14 trackcoronavirus.com	1&1 IONOS S	dataprivacy	whois.ionos.com	dns1.p05.ni	2020-01-26	2020-01-26	2020-01-26	2020-01-26	2020-01-26	2020-01-26	2020-01-26	clientTransfe	Domain
15 wheelchair-europe.com	IAPI GmbH	abuse@lapi	whois.lapi.net	NS1.SOKRAT	2018-12-15	2018-12-15	2018-12-15	2018-12-15	2018-12-15	2018-12-15	2018-12-15	clientTransfe	Domain
16 coronaviruszone.com	UNIREGISTR	4079229@PI	whois.uniregistrar.net	ns2.bluehost	2020-02-04	2020-02-04	2020-02-04	2020-02-04	2020-02-04	2020-02-04	2020-02-04	clientTransfe	Domain
17 coronavirus.app	GoDaddy.cor	abuse@god	whois.godaddy.com	ns09.domain	2019-06-07	2019-06-07	2019-06-07	2019-06-07	2019-06-07	2019-06-07	2019-06-07	clientTransfe	Domain
18 marsdefenseandscience.com	GoDaddy.cor	abuse@god	whois.godaddy.com	NS09.DOMA	2019-06-07	2019-06-07	2019-06-07	2019-06-07	2019-06-07	2019-06-07	2019-06-07	clientTransfe	Domain
19 coronavirus-testing.com	TUCOWS, INI	coronavirus-	whois.tucows.com	ns15.wixdn	2020-03-07	2020-03-07	2020-03-07	2020-03-07	2020-03-07	2020-03-07	2020-03-07	clientTransfe	Domain
20 mykipay.com	GoDaddy.cor	abuse@god	whois.godaddy.com	NS43.DOMA	2019-09-04	2019-09-04	2019-09-04	2019-09-04	2019-09-04	2019-09-04	2019-09-04	clientTransfe	Domain
21 coronavirus-monitor.ru	REGRU-RU		whois.rpkn.net	asa.ns.cloud	2020-01-26	2020-01-26	2020-01-26	2020-01-26	2020-01-26	2020-01-26	2020-01-26	REGISTERED, %	By sut
22 xxx-wa.com	Wild West Di	xxx-wa.com	whois.wildwestdomains.ci	HANS.NS.CL	2020-02-04	2020-02-04	2020-02-04	2020-02-04	2020-02-04	2020-02-04	2020-02-04	clientTransfe	Domain
23 coronavirus19news.com	NAMECHEAP	2125a328bal	whois.namecheap.com	ruth.ns.clou	2020-02-25	2020-02-25	2020-02-25	2020-02-25	2020-02-25	2020-02-25	2020-02-25	clientTransfe	Domain
24 coronavirus-realtime.com	WEBCC	reg_179500	whois.webnic.cc	NSS.TINO.OF	2020-01-30	2020-01-30	2020-01-30	2020-01-30	2020-01-30	2020-01-30	2020-01-30	clientUpdate	Domain
25 corona-antivirus.com	Internet Don	corona-antiv	whois.internet.bs	ns-canada.to	2020-03-05	2020-03-05	2020-03-05	2020-03-05	2020-03-05	2020-03-05	2020-03-05	clientTransfe	Domain
26 coronavirusupdates.eu			whois.eu										Timeout
27 coronavirusarscov2.com	GoDaddy.cor	abuse@god	whois.godaddy.com	NS71.DOMA	2020-03-22	2020-03-22	2020-03-22	2020-03-22	2020-03-22	2020-03-22	2020-03-22	clientTransfe	Domain
28 miraiingroupsumatera.com	Google LLC	ppzll8tbkxg	whois.google.com	NS1.ME.HO	2019-07-24	2019-07-24	2019-07-24	2019-07-24	2019-07-24	2019-07-24	2019-07-24	clientTransfe	Domain
29 pharmadrugdirect.com	ENOM, INC.	ABUSE@ENC	WHOIS.ENOM.COM	NS0.UKFAST	2012-07-28	2012-07-28	2012-07-28	2012-07-28	2012-07-28	2012-07-28	2012-07-28	clientTransfe	Domain
30 coronavirusoutbreakmap.com	TUCOWS, INI	coronavirusc	whois.tucows.com	ns1.hover.co	2020-01-30	2020-01-30	2020-01-30	2020-01-30	2020-01-30	2020-01-30	2020-01-30	clientTransfe	Domain
31 coronavirustoday.com	GoDaddy.cor	abuse@god	whois.godaddy.com	DILBERT.NS	1 (2020-01-24)	2020-01-24	2020-01-24	2020-01-24	2020-01-24	2020-01-24	2020-01-24	clientTransfe	Domain
32 216.170.123.111	LACNIC	netops@net3	co		06/05/14							00:00:00 UTC	% Joint
33 coronavirus123.com	UNIREGISTR	4165953@PI	whois.uniregistrar.net	ns3.digital	2020-02-27	2020-02-27	2020-02-27	2020-02-27	2020-02-27	2020-02-27	2020-02-27	clientTransfe	Domain
34 ee-cop.co.uk	Communal	communicati	whois.nic.uk	dns7.commu	22-Jan-20							00:00:00 UTC	Domain
35 corona-virus.tokyo	GMO Intern	abuse@gmo	whois.nic.tokyo	NS1.XSERVE	1 (2020-02-26)	2020-02-26	2020-02-26	2020-02-26	2020-02-26	2020-02-26	2020-02-26	ok	Domain
36 cbdnewsdirect.com	GoDaddy.cor	abuse@god	whois.godaddy.com	NS.LIQUIDW	2019-08-24	2019-08-24	2019-08-24	2019-08-24	2019-08-24	2019-08-24	2019-08-24	clientTransfe	Domain

We found that around 98% of them were recently registered and therefore could have been detected by a security solution that incorporates a newly registered domains database. Some of the remaining 2% (54 out of 2,264) of the domains could have been freshly registered when they were possibly used in attacks.

What's more, while the rise in new COVID-19 domain registrations may be utterly understandable as talks about the disease only surfaced late last year, the domains in the list claiming connections to institutions like the World Health Organization (WHO), for instance, are certainly deceitful. Established entities like WHO are more likely to house a COVID-19 page on their domain who[.]int rather than obtain a new one for it.

2. SOCs

One of the primary tasks of SOC staff is to dig deeper into ongoing attempts and attacks. It is their sworn duty to protect their organizations from all kinds of cyber threats.

Much like the phishing attacks we've seen a lot of these past few months, [business email compromise \(BEC\) gangs](#) are also ramping up their COVID-19-themed schemes. There has been an increase in the number of BEC scams targeting municipalities hoping to purchase personal protective equipment (PPE) and other related supplies to ward off the spread of the coronavirus.

One such group, dubbed "[Ancient Tortoise](#)," became known for exploiting aging reports that finance teams use to track unpaid customer invoices. Researchers discovered that the actors behind Ancient Tortoise jumped onto the coronavirus-themed attacks bandwagon as well.

The Ancient Tortoise gang isn't the only one hoping to lure companies and their customers or employees currently working from home into their traps, though. Another guise that BEC scammers employ is that of a [legitimate co-worker](#) providing a victim with the latest COVID-19 information. And much like phishers, BEC scammers are also [fond of using newly registered domains](#) that are copycats of popular suppliers' legitimate domains.

At the time of writing, all 25 IoCs related to this particular attack are newly registered domains and known malware hosts. Take a look at the Threat Intelligence Platform analysis results for [coronavirusmedicalkit\[.\]com](#), [beatingcoronavirus\[.\]com](#), and [corona-crisis\[.\]com](#) as examples.

All in all, SOC staff can get alerted and quickly block access to these by integrating a newly registered domains list into their security information and event management (SIEM) or security orchestration, automation, and response (SOAR) platforms.



Parsed domain name: coronavirusmedicalkit.com
Domain name extension: .com
Estimated domain age: 43 day(s)
Contact email: 44ef50ba64694dbcb3aac7c6c8a91b16.protect@whoisguard.com
Created date: Thu, 05 Mar 2020 03:58:05 GMT
Updated date: Mon, 01 Jan 0001 00:00:00 GMT
Registrar name: NAMECHEAP INC
Registrar Internet Assigned Numbers Authority ID: 1068
WHOIS server: whois.namecheap.com
Domain EEP status codes by ICANN list: clientHold clientTransferProhibited
Custom field name 1: RegistrarContactEmail
Custom field value 1: abuse@namecheap.com
Custom field name 2: RegistrarContactPhone
Custom field value 2: +1.6613102107
Custom field name 3: RegistrarURL
Custom field value 3: http://www.namecheap.com

3. MSSPs

Client protection should not only cover blocking known attack vectors but extend to preventing access to unknown threat sources, too. And these, of course, are likely to be newly registered domains that security solutions have yet to analyze and consequently block.

Take, for instance, a malicious domain connected to another COVID-19 related threat. Attackers preyed on user fear and anxiety to spread an [information stealer](#) via a fake coronavirus infection map. Apart from getting updates on the ensuing pandemic, however, users (who could be part of the organization an MSSP serves) also installed a malware application.

Much like in the other COVID-19-themed cases, the malware host's domain—[coronavirusstatus\[.\]space](#)—is a recently registered domain.



Parsed domain name: coronavirusstatus.space

Domain name extension: .space

Estimated domain age: 69 day(s)

Contact email: coronavirusstatus.space@regprivate.ru

Registrar name: Registrar of Domain Names REG.RU, LLC

Registrar Internet Assigned Numbers Authority ID: 1606

Record update dates

Created date: Fri, 03 Apr 2020 15:17:24 GMT

Updated date: Fri, 03 Apr 2020 15:17:24 GMT

Such a threat is, therefore, avoidable with the help of a newly registered domains database. But as was said, the buck doesn't stop there for MSSPs. They should also be able to protect clients from the unknown. Apart from screening newly registered domains, they can use other domain and IP intelligence solutions.

MSSPs can, for instance, identify IP addresses and other domains connected to the known threat source via solutions like the [Threat Intelligence Platform](#). They can then monitor and subsequently block access to related IP addresses and domains should the need arise. An example would be domains related to known malware host [corona-explained\[.\]com](#). MSSPs can subject the domains

on the same IP address to further scrutiny, too.

Other domains on the same IP [?]

moose.exnihilo.nl 

[Build report](#)

jxnkx.icu 

[Build report](#)

Threats That Organizations Can Avoid by Constantly Monitoring Their Newly Registered Domains List

Phishing, BEC, and malware attacks [aren't the only threats](#) that Newly Registered & Just Expired Domains Database can help protect against. Others include:

- [Spammers](#) who are ramping up their campaigns with fake emails supposedly coming from institutions at the forefront of fighting the ensuing pandemic such as WHO and the Centers for Disease Control and Prevention (CDC).

From: **Steve Garcia** <steve.garcia@ucdavis-edu.group>
Date: Thu, Apr 9, 2020 at 6:50 AM
Subject: QUOTE ?
To:

Hello,

I'm writing on behalf of UCDavis. for inquiries on below products.

Our request needed in setting up a new location we are working on.

we are certainly in position to use several of these products to meet up our requirement.

Quote,

*) Ventilator LTV1150
*) Philips HeartStart AEDs Defibrillator (M5066A-CO2/753182615684)

I will like to know the range of discount you offer. Get back on availability price and stock.

Regards.

Steve Garcia
Purchasing Agent/Safety Coordinator
University of California, Davis
Davis, CA 95616-8504
510 279 4927

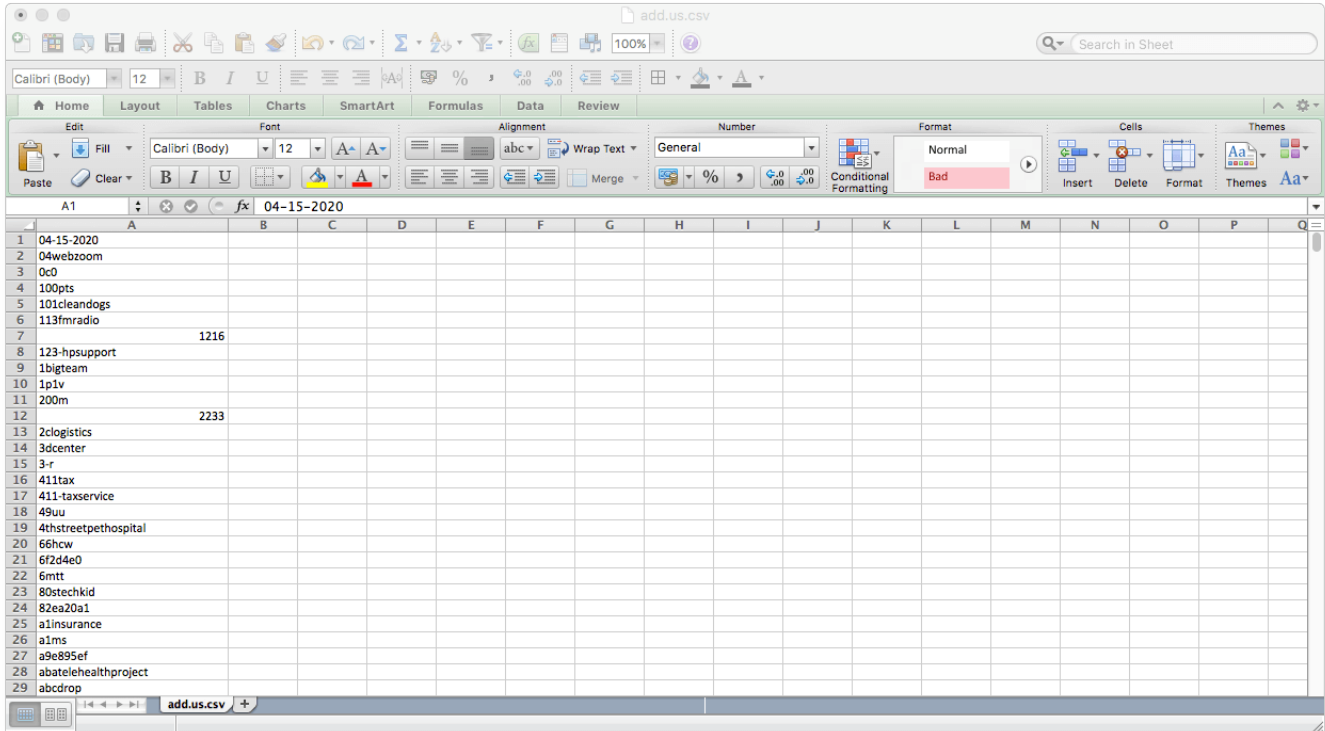
- [Typosquatters](#) who are also bringing their A-game as evidenced by the proliferation of bulk coronavirus-themed domain registrations in the past few months alone.

As we demonstrated earlier, however, companies are not helpless. They can ensure their own or clients' protection amid the ever-increasing volume of threats by adding newly-registered domain monitoring to their cybersecurity strategies.

How to Integrate a Newly Registered Domains Database into Existing Systems and Solutions

Security platform manufacturers, SOCs, and MSSPs can reap the benefits that the Newly Registered & Just Expired Domains Database provides by integrating it into existing solutions and systems. Just follow these steps:

- Log in to the [Newly Registered & Just Expired Domains Database](#) page with your WhoisXML API account credentials.
- Download the database by following the steps in [this post](#). It comes in the form of a comma-separated values (CSV) file that can work with practically any solution or system. Here's a sample file containing the additions to .us domains on 17 April.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	04-15-2020																
2	04webzoom																
3	0c0																
4	100pts																
5	101cleandogs																
6	113fmradio																
7		1216															
8	123-hpsupport																
9	1bigteam																
10	1p1v																
11	200m																
12		2233															
13	2clogistics																
14	3dcenter																
15	3-r																
16	411tax																
17	411-taxservice																
18	49uu																
19	4thstreetpethospital																
20	66hcw																
21	6f2d4e0																
22	6mtt																
23	80stechkid																
24	82ea20a1																
25	a1insurance																
26	a1ms																
27	a9e895ef																
28	abatelehealthproject																
29	abcdrop																

- Hook the database up to your security solutions and processes as an information source.

[Newly Registered & Just Expired Domains Database](#) is a comprehensive source of information for organizations looking to avoid dangerous new entities circulating on the Internet. Integrating it into existing solutions and systems will allow security platform manufacturers, SOCs, and MSSPs to offer best-of-breed products and services to clients, whether internal (co-workers in the same organization) or external (third-party customers).