

# Spamhaus Domain Reputation Update

## Apr 2024 - Sept 2024

Spamhaus, the independent leader in IP and domain reputation, reviews the domain name ecosphere. From the number of newly registered domains to the domain abuse our threat hunters are observing, this update highlights trends and provides insights into the poor reputation of domains, and champions providers where positive improvements are seen.

Welcome to the Spamhaus Domain Reputation Update Apr 2024 – Sept 2024.







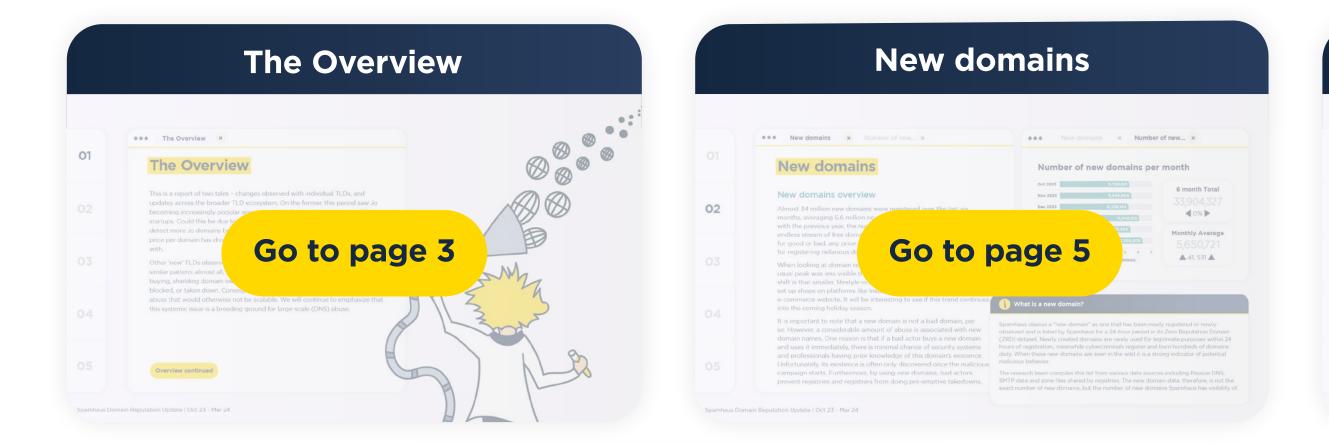


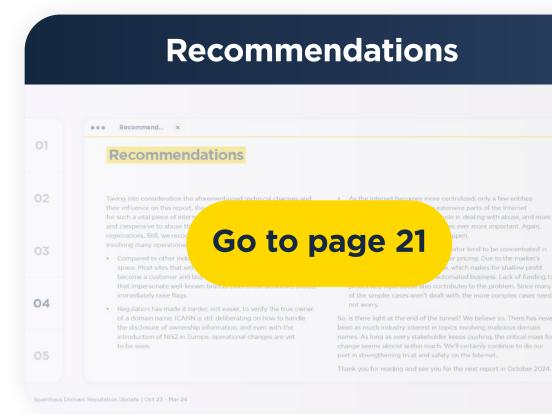


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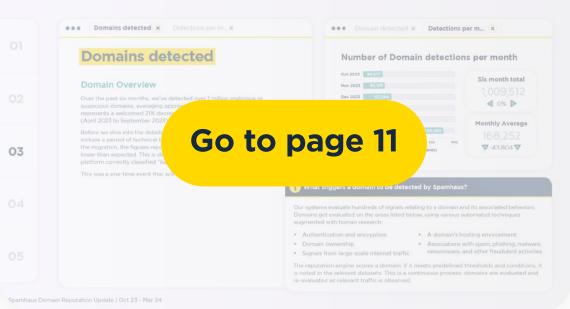
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## Malicious/suspicious domains



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	Spamhaus is the trusted authors of the domain reputation, unique	aterprise business and research data is analyzed by our
	industry because of its s and quality of actionable only protects but also p networks and email work	b page 22 and marual investigations at on. The data in this report is has observed identified nalicious and bad reputation
	With over two decades of the second sec	eted to specific geographies,
	exposing malicious activity to make the internet a better place for everyone. A wide range of industries, including leading global technology	<ul> <li>Bue to ongoing issues outside of our control to do with WHOIS and RDAP data, some of our data is incomplete. This is a direct result of GDPR.</li> </ul>
	companies, use Spamhaus' data. Currentiy, it protects over three billion mailboxes worldwide.	<ul> <li>Where we are missing zone file data we welcome registries to contact us and share this data.</li> </ul>
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••• The Overview

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## **The Overview**

Readers of this report who follow ICANN proceedings may have noticed that, in mid July, <u>ICANN sent out a letter to the .TOP registry</u>, notifying them of a breach of contract. This notification highlights their shortcomings in handling (DNS) abuse in various forms. Some pessimistic observers might also point out that one of the issues raised was about late payment to ICANN - but let's focus on the positives!

ICANN is using the recently updated Registry Agreement (RA), which now includes language about dealing with abuse, to enforce better anti-abuse practices amongst gTLD registry operators. Given .top TLD's poor performance, when it comes to (DNS) abuse, we applaud this action.





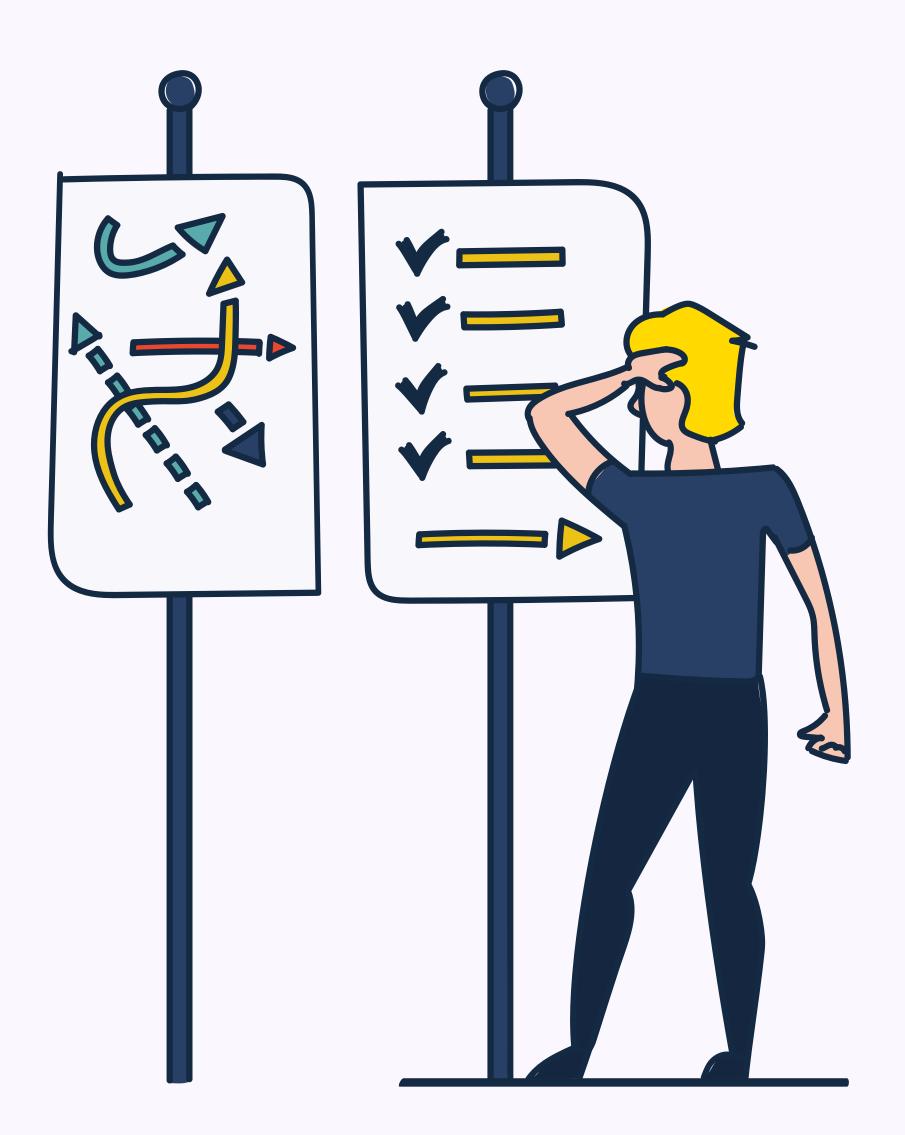
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#### Overview cont. ×

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While some of the reported contractual breaches are straightforward (like not having a published abuse contact) it should serve as a warning to other TLDs that frequently appear in our statistics. In this report, we give context to TLD activity by providing the percentage of bad reputation domains relative to their total zone file size. This edition features six gTLDs whose zone files have over 25% of domain names in one of our bad reputation datasets.

This makes them outliers - even compared to .top - that require special attention. We hope the newly added provisions around dealing with abuse will empower ICANN to investigate these cases as well.





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••• New domains

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## **New domains**

## New domains overview

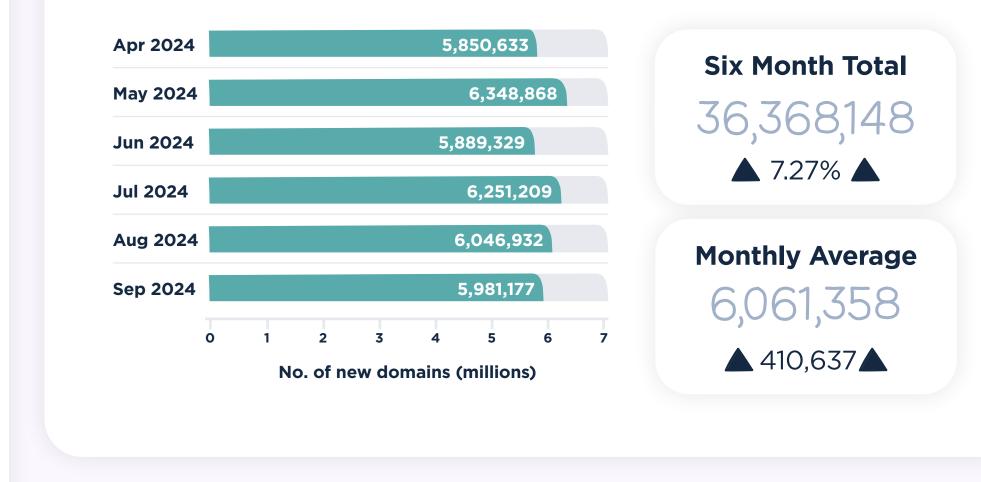
Over 36 million new domains were registered over the last six months, averaging 6 million new registrations per month. Compared with the previous six months, registrations have increased by 7%.

The busiest month was May with just over 6.3 million new domains, however all six months were close to the monthly average with minimal difference.

It is important to note that a new domain is not a bad domain, per se. However, a considerable amount of abuse is associated with new domain names. One reason is that if a bad actor buys a new domain and uses it immediately, there is minimal chance of security systems and professionals having prior knowledge of this domain's existence. Unfortunately, its existence is often only discovered once the malicious campaign starts. Furthermore, by using new domains, bad actors prevent registries and registrars from doing pre-emptive takedowns.

#### ••• New domains × Number of new... ×

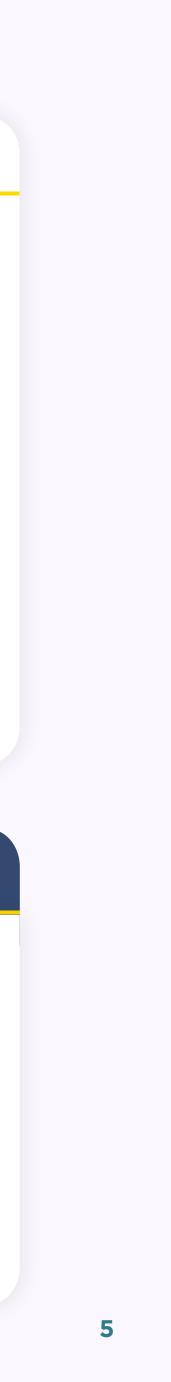
#### Number of new domains per month



#### What is a new domain?

Spamhaus classes a "new domain" as one that has been newly registered or newly observed and is listed by Spamhaus for a 24-hour period in its Zero Reputation Domain (ZRD) dataset. Newly created domains are rarely used for legitimate purposes within 24 hours of registration, meanwhile cybercriminals register and burn hundreds of domains daily. When these new domains are seen in the wild it is a strong indicator of potential malicious behavior.

The research team compiles this list from various data sources including Passive DNS, SMTP data and zone files shared by registries. The new domain data, therefore, is not the exact number of new domains, but the number of new domains Spamhaus has visibility of.



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## New domains by top-level domain (TLD)

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Over the last six months, the percentage of ccTLDs increased marginally to 29%, with a corresponding decrease in gTLD registrations to 71%.

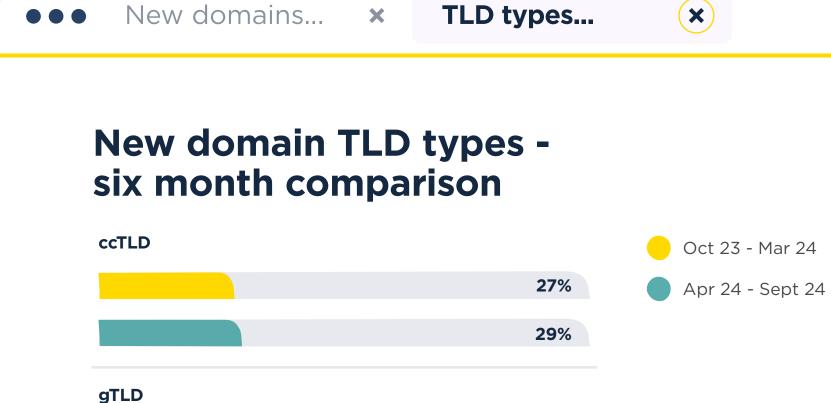
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Looking at ccTLDs, .cn (#1), .cc (#5) and .us (#6), all had significant increases in new domain registrations, which appear to be linked to promotions at various registrars. Customers can purchase .cc for \$2.40 at Porkbun with promo code 'awesomeness' - not so awesome - enabling abuse with such low price points.

With the continued growth in tech and start-ups, ccTLD .ai entered the Top 20 at rank #19 for the first time. Primarily the ccTLD for Anguilla in the Caribbean, this TLD operates as a gTLD with open registration policies. Available for anywhere between \$33 - \$99 it's unlikely this TLD is being used for abuse.

The gTLD .bond saw an 80% rise in new domain registrations over the past six months, climbing six spots to rank #6 with over 1 million domains, which is more than its current zone file size. This shows how many domains are canceled in relation to abuse issues. Unsurprisingly, readers will see .bond make an appearance in our poor reputation TLD statistics, as when new registrations occur, the number of malicious domains is often relative.

This reporting period also includes new entries from gTLDs .buzz (#16) and .today (#17). Unfortunately, a considerable number of entries are domains that either use domain generated algorithms (DGAs), or otherwise appear unsuitable for human consumption – often consisting of 12 random alphanumeric characters followed by the TLD. We question the value of these registrations and would be surprised to see a legitimate use case for them.



TLD types...

73%

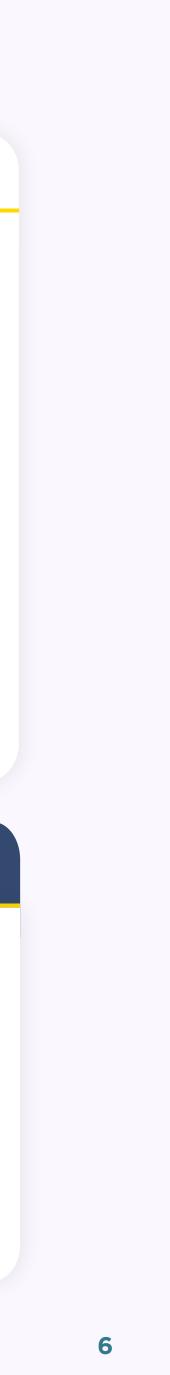
71%

## **Top-level domains – a quick explanation**

New domains... ×

There are a couple of different top-level domains (TLDs) including:

- Generic TLDs (gTLDs) these are under ICANN jurisdiction. Some gTLDs are open i.e. can be used by anyone e.g., .com, some have strict policies regulating who and how they can be used e.g., .bank, and some are closed e.g., .honda.
- **Country code TLDs (ccTLDs)** typically these relate to a country or region. Registries define the policies relating to these TLDs; some allow registrations from anywhere, some require local presence, and some license their namespace wholesale to others.



Top 20 TLDs... ×

## **Top 20 TLDs used in new domains**

Rank	New domain TLD	TLD type	Apr 24 - Sept 24		Apr 24 da	- Sepi ta bar	t 24		Oct 23 - Mar 24	% Change
1	.com	gTLD	11,614,263						11,639,454	0%
2	.xyz	gTLD	1,325,079						987,598	<b>3</b> 4%
3	.shop	gTLD	1,311,392						1,377,092	<b>V</b> -5%
4	.cn	ccTLD	1,115,908						646,482	<b>7</b> 3%
5	.top	gTLD	1,043,030						823,320	<b>27%</b>
6	.online	gTLD	1,004,182						1,067,222	<b>-</b> 6%
7	.bond	gTLD	1,003,486						557,932	▲ 80%
8	.org	gTLD	836,264						729,065	<b>1</b> 5%
9	.de	ccTLD	797,102						621,992	<b>2</b> 8%
10	.net	gTLD	736,083						830,805	-11%
11	.com.br	ccTLD	654,045						480,118	<b>3</b> 6%
12	.store	gTLD	533,065						595,228	-10%
13	.ru	ccTLD	533,039						615,020	<b>-</b> 13%
14	.site	gTLD	511,931						680,511	<b>V</b> -25%
15	.CC	ccTLD	459,145						-	New entry
16	.US	ccTLD	457,849						-	New entry
17	.co.uk	ccTLD	435,210						502,739	<b>V</b> -13%
18	.CO	ccTLD	393,125						396,904	<b>V</b> -1%
19	.info	gTLD	386,754						351,338	<b>1</b> 0%
20	.lol	gTLD	383,141	0	3	6	9	12	-	New entry

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## **Top 20 ccTLDs used in new domains**

Rank	New domain TLD	Apr 24 - Sept 24	Apr 24 - Sept 24 data bar	Oct 23 - Mar 24	% Change
1	.cn	1,115,908		646,482	<b>7</b> 3%
2	.de	797,102		621,992	<b>2</b> 8%
3	.com.br	654,045		480,118	<b>3</b> 6%
4	.ru	533,039		615,020	<b>-</b> 13%
5	.CC	459,145		258,567	<b>7</b> 8%
6	.US	457,849		210,435	<b>1</b> 18%
7	.co.uk	435,210		502,739	<b>V</b> -13%
8	.CO	393,125		396,904	<b>V</b> -1%
9	.in	343,245		333,679	<b>3</b> %
10	.nl	341,688		321,826	<b>6</b> %
11	.fr	281,673		351,893	<b>V</b> -20%
12	.com.au	242,577		208,724	<b>1</b> 6%
13	.ca	239,300		275,314	<b>V</b> -13%
14	.eu	195,610		200,988	▼-3%
15	.au	191,874		-	New entry
16	.it	183,077		189,547	▼-3%
17	.com.tr	155,005		146,900	<b>6</b> %
18	.pl	153,612		175,597	<b>V</b> -13%
19	.ai	146,074		-	New entry
20	.ir	144,614	0 3 6 9 1	139,670	4%



Top20 gTLD - new 🗙

## **Top 20 gTLDs used in new domains**

Rank	New domain TLD	Apr 24 - Sept 24	Apr 24 - Sept 24 data bar	Oct 23 - Mar 24	% Change
1	.com	11,614,263		11,639,454	0%
2	.xyz	1,325,079		987,598	▲ 34%
3	.shop	1,311,392		1,377,092	<b>V</b> -5%
4	.top	1,043,030		823,320	<b>27%</b>
5	.online	1,004,182		1,067,222	<b>V</b> -6%
6	.bond	1,003,486		557,932	▲ 80%
7	.org	836,264		729,065	<b>1</b> 5%
8	.net	736,083		830,805	<b>-</b> 11%
9	.store	533,065		595,228	<b>V</b> -10%
10	.site	511,931		680,511	<b>V</b> -25%
11	.info	386,754		351,338	<b>1</b> 0%
12	.lol	383,141		260,161	<b>4</b> 7%
13	.sbs	371,983		424,338	<b>V</b> -12%
14	.vip	350,495		258,415	<b>3</b> 6%
15	.pro	223,057		161,626	<b>3</b> 8%
16	.buzz	210,829		-	New entry
17	.today	201,927		-	New entry
18	.click	180,417		177,547	<b>2</b> %
19	.icu	167,220		171,208	▼-2%
20	.fun	154,989	0 3 6 9 12	160,391 2	<b>V</b> -3%

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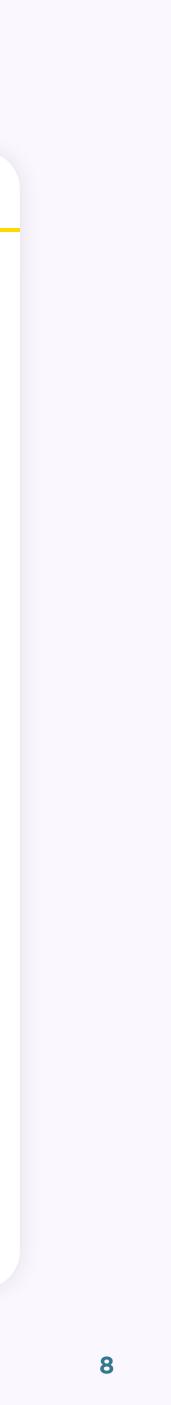
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## Top 20 gTLDs by % of zone file that are new domains

Rank	New domain TLD	Apr 24 - Sept 24	Zone size	% of zone newly observed	% of zone data bar
1	.bond	1,003,486	464,385	216.09%	
2	.lol	383,141	573,896	66.76%	
3	.buzz	210,829	336,408	62.67%	
4	.today	201,927	432,436	46.70%	
5	.sbs	371,983	805,396	46.19%	
6	.click	180,417	429,115	42.04%	
7	.shop	1,311,392	3,362,971	39.00%	
8	.xyz	1,325,079	3,688,719	35.92%	
9	.fun	154,989	437,399	35.43%	
10	.icu	167,220	483,318	34.60%	
11	.site	511,931	1,510,354	33.89%	
12	.store	533,065	1,573,843	33.87%	
13	.vip	350,495	1,074,824	32.61%	
14	.online	1,004,182	3,177,266	31.61%	
15	.pro	223,057	708,501	31.48%	
16	.top	1,043,030	5,735,506	18.19%	
17	.info	386,754	3,657,425	10.57%	
18	.org	836,264	11,521,597	7.26%	
19	.com	11,614,263	160,666,523	7.23%	
20	.net	736,083	13,205,699	5.57%	0 50% 100% 150% 21



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#### Trending terms... ×

### Trending terms in new domains

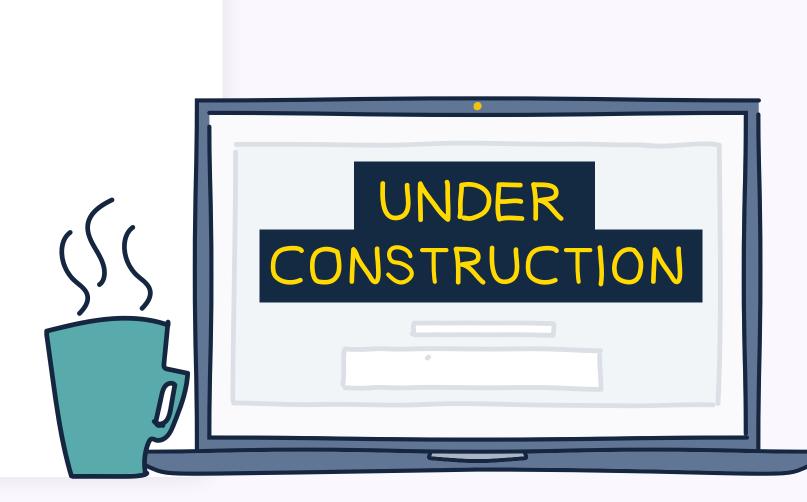
In the last six months, trending terms in new domain registrations have remained fairly generic, with little change to the Top 20 list. Trending terms "service" and "online" continue to hold the #1 and #2, spots. A new entry, "course" likely reflects the end of the holiday season and a return to work or education.

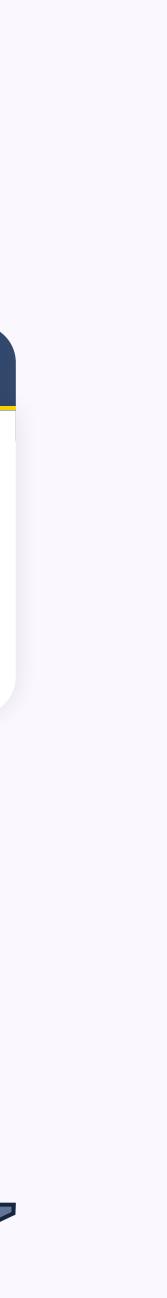
Building on the last report, the term "casino" remains prevalent, with 107,722 new registrations - a 46% increase on the previous six months. Aside from the regulatory changes mentioned in the previous report, another possible factor could be domain squatting or flipping. This is when criminals register domains with trademarks belonging to someone else for profit. Due to the high value of certain keywords, the online gaming sector is especially attractive to miscreants.

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Methodology for trending terms

We use a text vectorizer to find the most common strings in new domain names and break the counts down by date, which highlights trends in domain name themes. For example, we saw a spike in domain names containing "ukraine" following the Russian invasion.





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Top 20 Trending... 🗙

### **Top 20 trending terms in new domains**

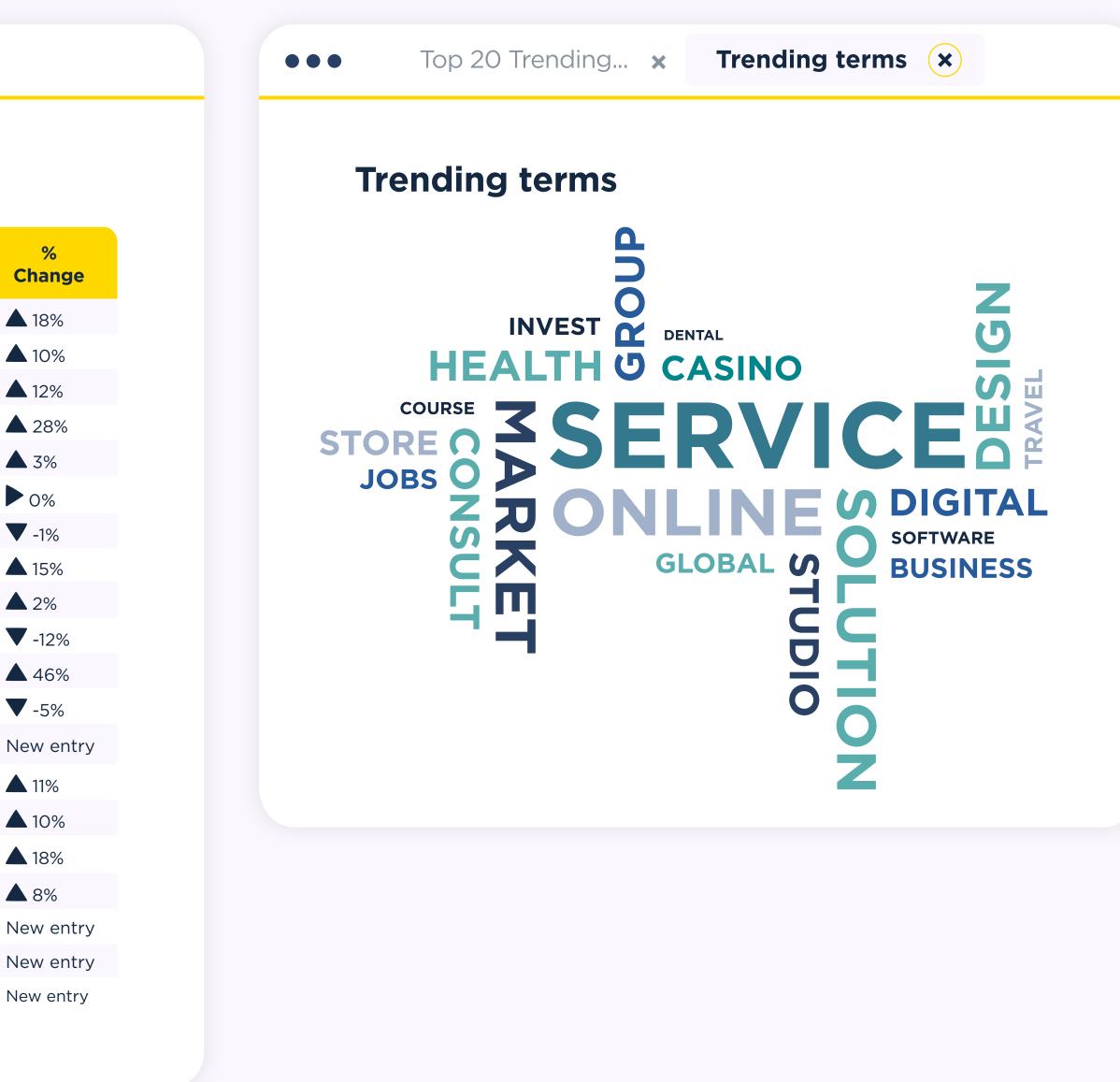
Rank	Apr 24 - Sept 24 trending terms	Apr 24 - Sept 24
1	service	273,901
2	online	192,092
3	solution	167,646
4	market	165,294
5	design	142,299
5	studio	126,694
7	group	123,499
3	health	123,065
9	consult	121,739
10	digital	119,336
11	casino	107,722
12	store	105,515
3	business	82,619
14	jobs	80,863
15	global	80,855
16	invest	72,662
17	travel	72,637
18	software	58,114
19	course	51,403
20	dental	47,099

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Malicious/suspici... (×)

#### Listings

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## Malicious/suspicious domains

### **Domain overview**

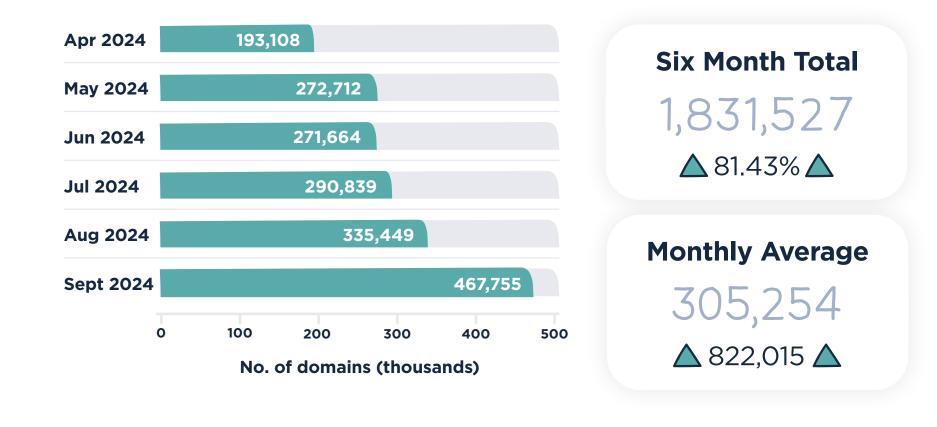
In the past six months, over 1.8 million malicious or suspicious domains were detected, averaging approximately 305K per month. This represents an 81% increase compared to the previous six months (October 2023 to March 2024).

While this increase is significant, it's important to note that the previous report included a period of technical transition to an upgraded platform. This means the figures reported may have been lower than normally expected.

Additionally, changes to our Domain Blocklist expiration policy mean certain domains which are inherently bad, will remain part of various datasets for longer. Normally these listings would be removed after a two week period, and only readded if detected again in the future. However, the opportunity to reuse these domains once they are out of the zone file is no more. As a result, the number of listings is expected to increase.



## Number of Domain listings per month



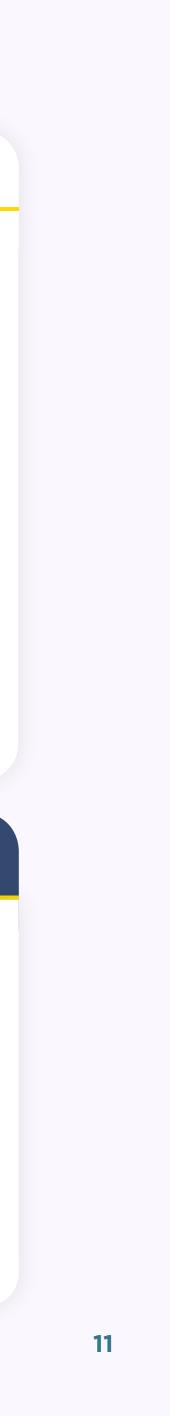
#### What triggers a domain to be listed as malicious/suspicious by Spamhaus?

Our systems evaluate hundreds of signals relating to a domain and its associated behaviors. Domains get evaluated on the areas listed below, using various automated techniques augmented with human research:

- Authentication and encryption
- Domain ownership
- Signals from large-scale internet traffic
- A domain's hosting environment
- Associations with spam, phishing, malware, ransomware, and other fraudulent activities.

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The reputation engine scores a domain; if it meets predefined thresholds and conditions, it is noted in the relevant datasets. This is a continuous process: domains are evaluated and re-evaluated as relevant traffic is observed.





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#### Trending terms... (×)

## TLDs listed in our domain data

As expected, Freenom and its controversial free ccTLDs are no more, with .cf, .gq and .tk finally dropping out of the Top 20 TLDs listed in our domain data. Although, the percentage of malicious or suspicious ccTLDs stayed at 18% and gTLDs at 82%, there has been some interesting activity.

This reporting period saw two notable gTLD entries: .vip and .pink. The gTLD .vip ranked #4 in the Top 20 gTLDs, with a 306% increase - the second largest increase with 69,289 domains listed. Meanwhile, nearly half (48.96%) of all .pink domains in the zone file are listed as malicious or suspicious. Both make suitable candidates for ICANN to pursue further!

Seven new ccTLDs entered the Top 20: .sx (#5), .st (#8), .pm (#11), .lc (#14), .tw (#16), .pl (#19), .cz (#20). Many of these listings featured thousands of unpronounceable short length domains, primarily associated with sms-based abuse such as phishing or delivery scams.

There were also significant increases for TLDs .cc (365%), .co (358%), and .tv (128%). Unsurprisingly, these ccTLDs are cheap to register, with minimal restrictions, and available for global use a hotbed for malicious activity. The ccTLD, .tv, which belongs to Tuvalu,

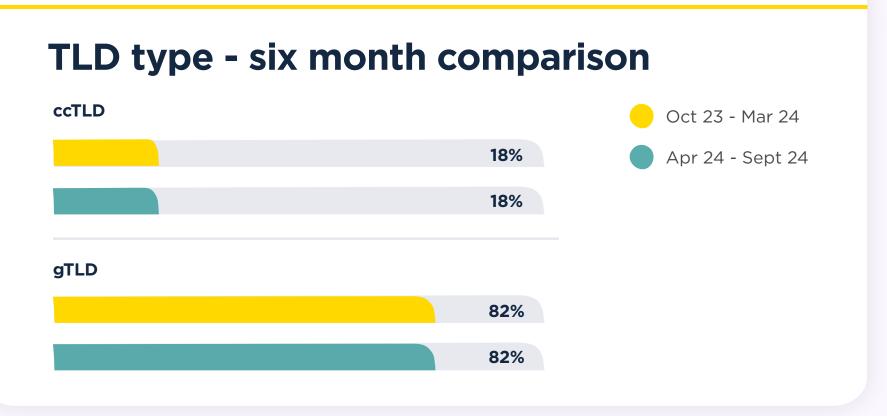
a small Pacific island, is more commonly used as a gTLD, due to the surge in video content and live streaming platforms. It's an obvious choice for content creators, and equally attractive to cybercriminals!

#### Interpreting the data

Registries with a greater number of active domains have greater exposure to abuse. For example, between April 2024 and Sept 2024 .wang had 109,332 domains in its zone, of which 5.06% were listed.

Meanwhile, .loans had 11,187 domains in its zone, with 41.62% listed in our domain dataset. Both are in the Top 20 of our listings. Still, one had a much higher percentage of active domains listed than the other.

TLD type - six... (x) 





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### Top 20 TLDs... ×

#### Top 20 ccTLDs... ×

## Top 20 TLDs

Rank	Domain TLD	Type of TLD	Apr 24 - Sept 24	Apr 24 - Sept 24 data bar	Oct 23 - Mar 24	% Change
1	.com	gTLD	532,978		343,299	<b>4</b> 55%
2	.top	gTLD	211,406		86,718	<b>A</b> 144%
3	.xyz	gTLD	140,065		64,650	<b>1</b> 17%
4	.00	ccTLD	89,506		19,228	▲ 365%
5	.vip	gTLD	69,289		17,080	▲ 306%
6	.cn	ccTLD	61,420		70,279	<b>V</b> -13%
7	.shop	gTLD	56,987		22,542	<b>A</b> 153%
8	.ru	ccTLD	49,027		26,856	<b>A</b> 83%
9	.club	gTLD	46,239		12,791	<b>A</b> 261%
10	.net	gTLD	40,887		34,093	<b>A</b> 20%
11	.00.	ccTLD	26,438		-	New ent
12	.rest	gTLD	24,641		-	New ent
13	.org	gTLD	24,471		19,614	<b>A</b> 25%
14	.app	gTLD	23,223		-	New ent
15	.info	gTLD	20,834		21,079	<b>V</b> -1%
16	.bond	gTLD	16,802		8,054	<b>A</b> 109%
17	.online	gTLD	15,355		22,285	▼ -31%
18	.sbs	gTLD	15,037		26,564	▼-43%
19	.buzz	gTLD	14,344		-	New ent
20	.pro	gTLD	12,916	0 300 6	-	New ent

## Top 20 ccTLDs

Rank	Domain TLD	Apr 24 - Sept 24	Apr 24 - Sept 24 data bar	Oct 23 - Mar 24	% Change
1	.CC	89,506		19,228	▲ 365%
2	.cn	61,420		70,279	<b>V</b> -13%
3	.ru	49,027		26,856	<b>A</b> 83%
4	.CO	26,438		5,771	▲ 385%
5	.SX	9,128		-	New entry
6	.US	6,798		4,807	<b>4</b> 1%
7	.me	6,435		4,308	<b>4</b> 9%
8	.st	5,256		-	New entry
9	.de	5,102		2,850	<b>A</b> 79%
10	.uk	4,990		3,866	<b>A</b> 29%
11	.pm	4,139		-	New entry
12	.tv	3,671		1,612	<b>A</b> 128%
13	.eu	2,706		1,597	<b>6</b> 9%
14	.lc	2,691		-	New entry
15	.ng	2,565		2,469	<b>4</b> %
16	.tw	2,540		-	New entry
17	.in	2,492		3,387	▼-26%
18	.pw	2,160		2,532	<b>V</b> -15%
19	.pl	1,872		-	New entry
20	.CZ	1,833	0 50 100	-	New entry

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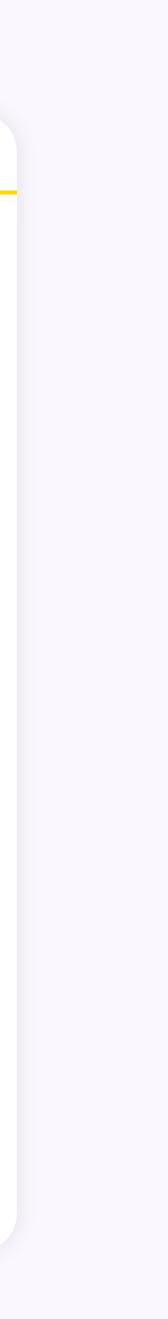
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## Top 20 gTLD

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Rank	Domain TLD	Apr 24 - Sept 24	Apr 24 - Sept 24 data bar	Oct 23 - Mar 24	% Change
1	.com	532,978		343,299	<b>5</b> 5%
2	.top	211,406		86,718	<b>1</b> 44%
3	.xyz	140,065		64,650	<b>1</b> 17%
4	.vip	69,289		17,080	▲ 306%
5	.shop	56,987		22,542	<b>1</b> 53%
6	.club	46,239		12,791	<b>A</b> 261%
7	.net	40,887		34,093	<b>2</b> 0%
8	.rest	24,641		-	New entry
9	.org	24,471		19,614	<b>2</b> 5%
10	.app	23,223		-	New entry
11	.info	20,834		21,079	<b>V</b> -1%
12	.bond	16,802		8,054	<b>1</b> 09%
13	.online	15,355		22,285	<b>V</b> -31%
14	.sbs	15,037		26,564	▼-43%
15	.buzz	14,344		5,386	<b>1</b> 66%
16	.pro	12,916		-	New entry
17	.cam	12,127		-	New entry
18	.000	11,808		-	New entry
19	.icu	11,671		5,371	<b>1</b> 17%
20	.cfd	10,194	0 300 600	14,967	▼-32%

Top 20 gTLDs... 🗙

Spamhaus Domain Reputation Update | Apr 24 - Sept 24

## Top 20 gTLDs by % of zone file

Rank	Domain TLD	Apr 24 - Sept 24	Zone size	% of zone listed	% of zone data bar
1	.pink	9,020	18,422	48.96%	
2	.loans	4,656	11,187	41.62%	
3	.loan	6,750	17,208	39.23%	
4	.rest	24,641	66,757	36.91%	
5	.000	11,808	43,023	27.45%	
6	.photo	7,732	28,217	27.40%	
7	.cam	12,127	51,662	23.47%	
8	.wiki	10,121	74,098	13.66%	
9	.party	3,024	23,602	12.81%	
10	.miami	1,875	15,736	11.92%	
11	.christmas	2,204	21,341	10.33%	
12	.bid	2,107	21,709	9.71%	
13	.pet	1,876	20,360	9.21%	
14	.photos	2,109	26,138	8.07%	
15	.college	1,907	24,472	7.79%	
16	.club	46,239	627,148	7.37%	
17	.vip	69,289	1,074,824	6.45%	
18	.men	799	14,985	5.33%	
19	.wang	5,529	109,332	5.06%	
20	.skin	3,081	61,572	5.00%	0% 25% 50



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#### Trending terms... (×)

### Trending phishing terms for malicious or suspicious domains

Over the past year, we've continued to see a recurring pattern in the Top 20 Phishing Terms related to package delivery, specifically targeting well-known postal services or known large volume shippers, including: "usps" (#4), "correo" (#13), "laposte" (#19), and "amazon" (#20).

Our researchers are observing a rise in delivery scams, where recipients receive messages, often via SMS, asking them to reschedule a delivery or pay an import tax fee. These scams are becoming increasingly sophisticated, using previously stolen names, email addresses, and phone numbers to deceive victims into transferring money. The scams are so convincing that many fall victim.

Spamhaus Domain Reputation Update | Apr 24 - Sept 24

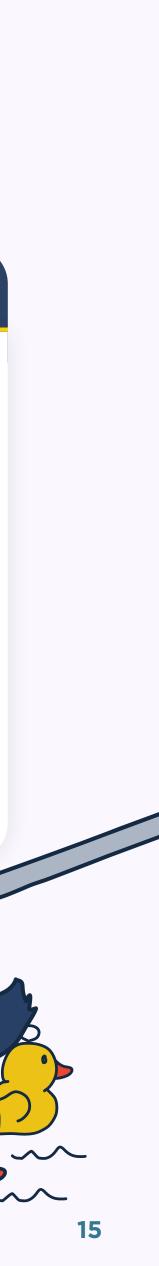
In a turn of events, "apple" has finally dropped out of the Top 20, after being a fixture since the very first Domain Report. Meanwhile, context-related terms such as "service" (#1), "account" (#3), or "online" (#5) and actionrelated terms like login (#2) and verification (#7) continue to remain popular in phishing domains.

#### What terms do bad actors use for domain names?

Some miscreants don't care what a domain name looks like; however, others do. When it comes to the latter, they favor one of two options:

- **1.** Try to look like a legitimate brand with the inclusion of a well-known brand name, e.g., "amazon".
- 2. Use words in the domain name that read like a call to action, e.g. "update now" and "verify your account".





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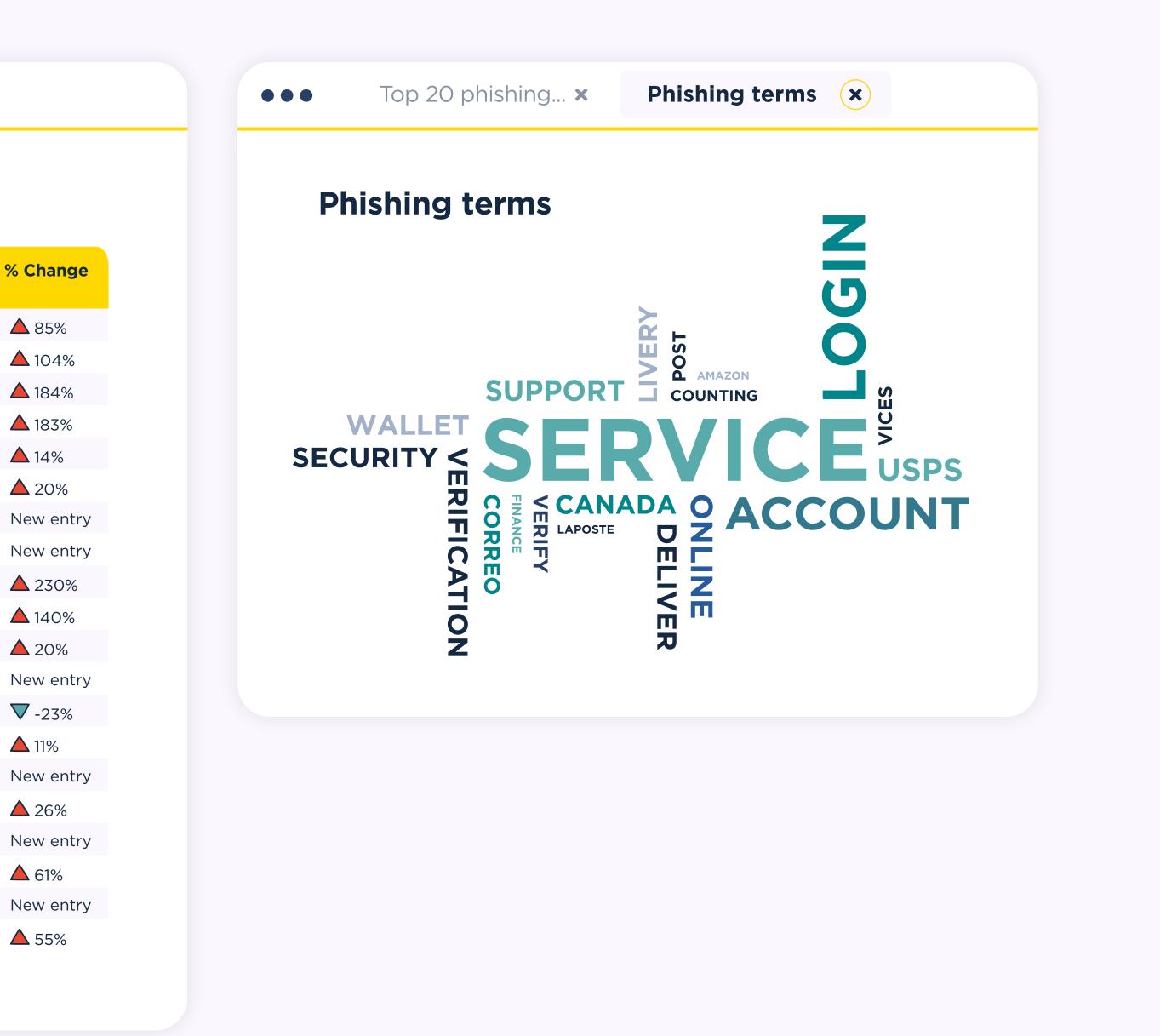
**Top 20 phishing terms** 

Top 20 phishing... ×

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Rank	Term	Apr 24 - Sept 24	Apr 24 - Sept 24 data bar	Oct 23 - Mar 24	%
1	service	12,187		6,582	
2	login	8,219		4,028	
3	account	6,277		2,211	
4	usps	4,364		1,543	
5	online	4,201		3,692	
6	support	4,003		3,324	
7	verification	3,819		-	١
8	security	3,815		-	١
9	wallet	3,742		1,134	
10	canada	3,670		1,532	
11	deliver	3,644		3,033	
12	livery	3,489		-	١
13	correo	3,074		3,993	
14	verify	2,740		2,458	
15	vices	2,673		-	١
16	post	2,502		1,986	
17	counting	2,127		-	١
18	finance	1,733		1,074	
19	laposte	1,604		-	١
20	amazon	1,567	0 4 8 12	1,009	

Phishing terms **×** 





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Types of abuse

## Types of abuse

During this reporting period, the number of compromised domains decreased across all types of abuse, except for phishing, which increased by 156%. This is largely due to an increased focus by Spamhaus researchers in this area. Malware distribution took a big hit in May thanks to Operation Endgame - the largest ever takedown operation targeting botnets involved with ransomware.

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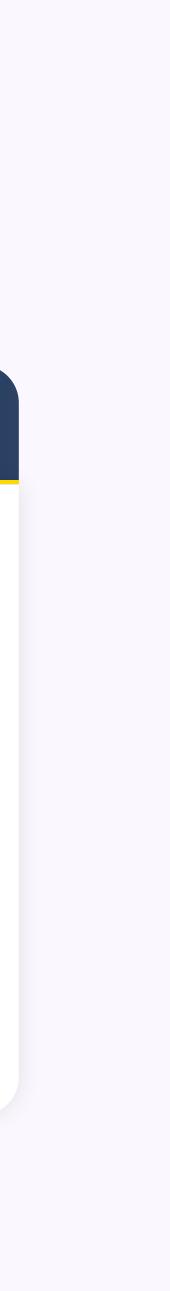
As mentioned earlier in the report, in malicious registrations thousands of domains listed during this period consist of four or five random characters. This pattern is typical of sms-based phishing abuse, where the 160 character limit encourages the use of shorter domain names.

As most established TLDs no longer have many 4-letter domains available, phishers are moving to less popular TLDs where these are still unregistered. Unsurprisingly, some of these TLDs, such as .buzz (#15) which featured in the Top 20 gTLDs, cost less than \$1. Unfortunately, this very low pricing makes such domains ripe for abuse.

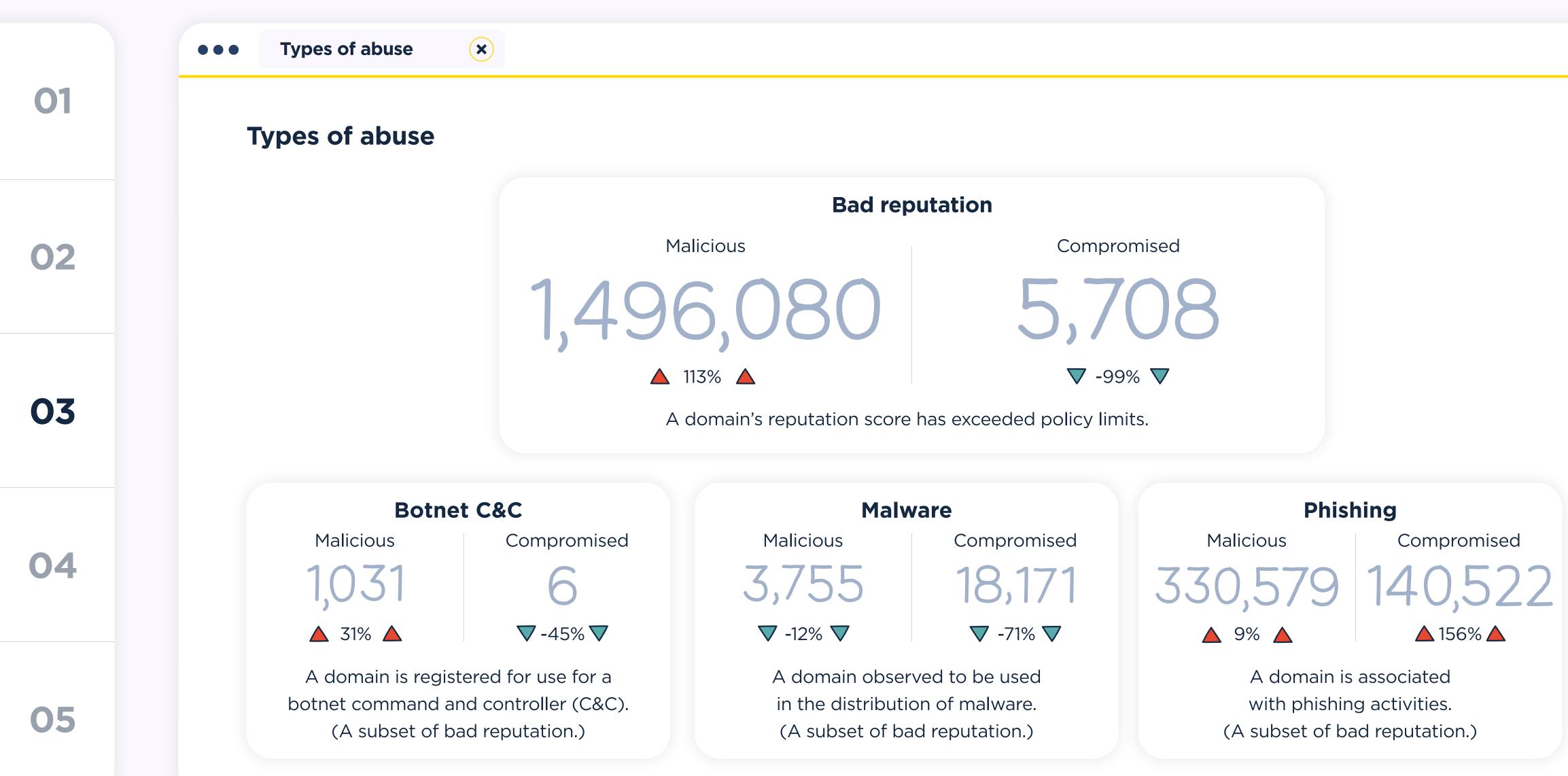
#### **Differences between** compromised and malicious domains

A compromised domain is where it is evident to our research team that the domain has a legitimate owner; however, a bad actor has compromised it. One example is where a content management system (CMS) is hacked, and the domain is being used to send spam resulting in the listing of the domain. Within Spamhaus these types of listings are referred to as "abused-legit".

A malicious domain is where a domain is registered by the person committing the internet abuse.

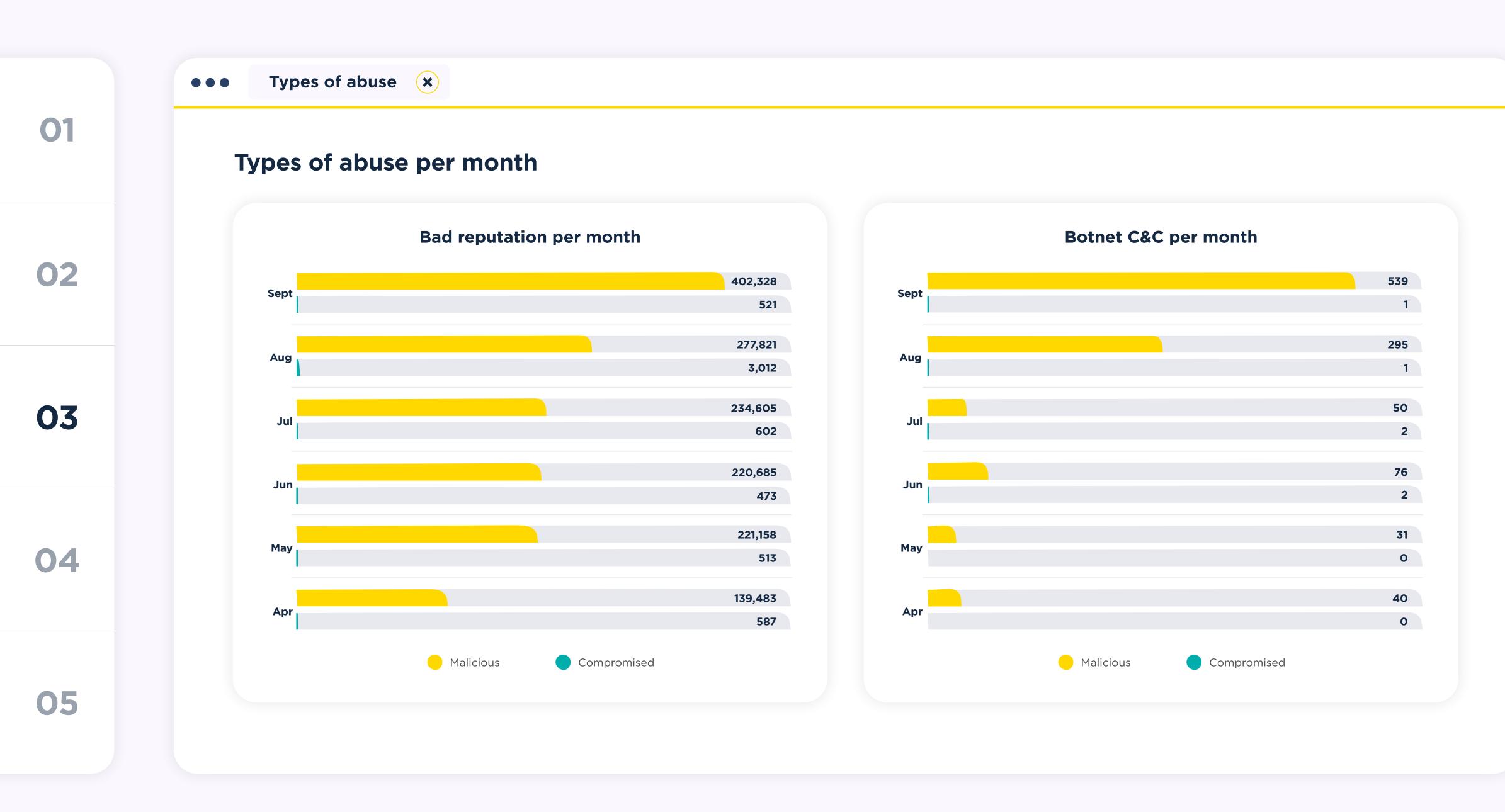


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Recommend...

## **Recommendations**

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As these reports are consumed by many registries and registrars, we want to take this opportunity to provide additional background information and recommendations regarding the data we publish. This applies to the data we publish in our blocklists, the website <u>reputation</u> <u>statistics</u> and the data in these reports.

#### Takedown isn't always a requirement

The inclusion of a domain (or cluster of domains) in any blocklist does not mean that we expect the responsible registry or registrar to immediately take down the domain. Our systems are driven by reputation engines. This means good or legitimate domain names may end up in a blocklist due to poor decisions made by their owners. While these decisions may be poor, they don't always warrant immediate action from registrars or registries.

#### **Expiration dates change**

#### Make sure you always fully understand the data

If your use case does not involve blocking or scoring domains with our data, make sure you consider the various policies and details around the listings. If you're ever unsure, don't hesitate to reach out to us - we always welcome working with the community.

When using this data for statistical purposes, keep in mind that different

how the domains are used, whether they are fully malicious registrations

entries in datasets may have different expiration dates, depending on

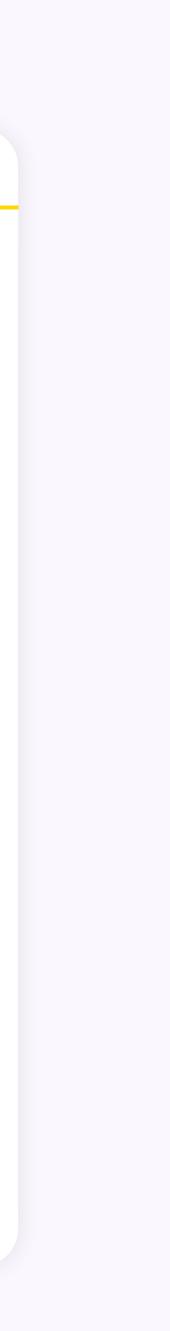
or simply compromised domains. These expirations can also change

#### Get social

over time.

As a final recommendation, keep an eye on our blog and social media to stay in touch with everything we observe.

See you in April 2025 for the next report!





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Additional info ×

## **Additional info**

#### **About Spamhaus**

Spamhaus strengthens trust and safety for the Internet. Advocating for change through sharing reliable intelligence and expertise. As the authority on IP and domain reputation data, Spamhaus is trusted across the industry because of its strong ethics, impartiality, and quality of actionable data. This data not only protects but also provides signal and insight across networks and email worldwide.

With over two decades of experience, its researchers and threat hunters focus on exposing malicious activity to make the Internet a better place for everyone. A wide range of industries, including leading global technology companies, use Spamhaus' data. Currently, it protects over 4.5 billion mailboxes worldwide.

#### **Report Methodology**

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- Various sources, including ISPs, ESPs, Enterprise business and research specialists share data with Spamhaus. This data is analyzed by our researchers via machine learning, heuristics, and manual investigations to identify malicious behavior and poor reputation. The data in this report reflects the malicious domains that Spamhaus has observed identified and listed, it does not reflect the entirety of malicious and bad reputation domains on the internet.
- Malicious campaigns are regularly targeted to specific geographies, ISPs or organizations. This in turn can skew figures.
- Due to ongoing issues outside of our control to do with WHOIS and RDAP data, some of our data is incomplete. This is a direct result of GDPR.
- Where we are missing zone file data we welcome registries to contact us and share this data.

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