

OCTOBER 2023

# MONTHLY MALWARE DIGEST

In this report, we highlight malware trends utilizing data from abuse.ch's open platforms. These collect, track and share resources relating to malware campaigns, including the URLs of malware distribution sites, malware samples, and indicators of compromise.

Each section will provide you with a detailed look at who and what data has been shared in the past month showing possible trends in malware operations.

11,471

Malware sites shared  
by security  
on

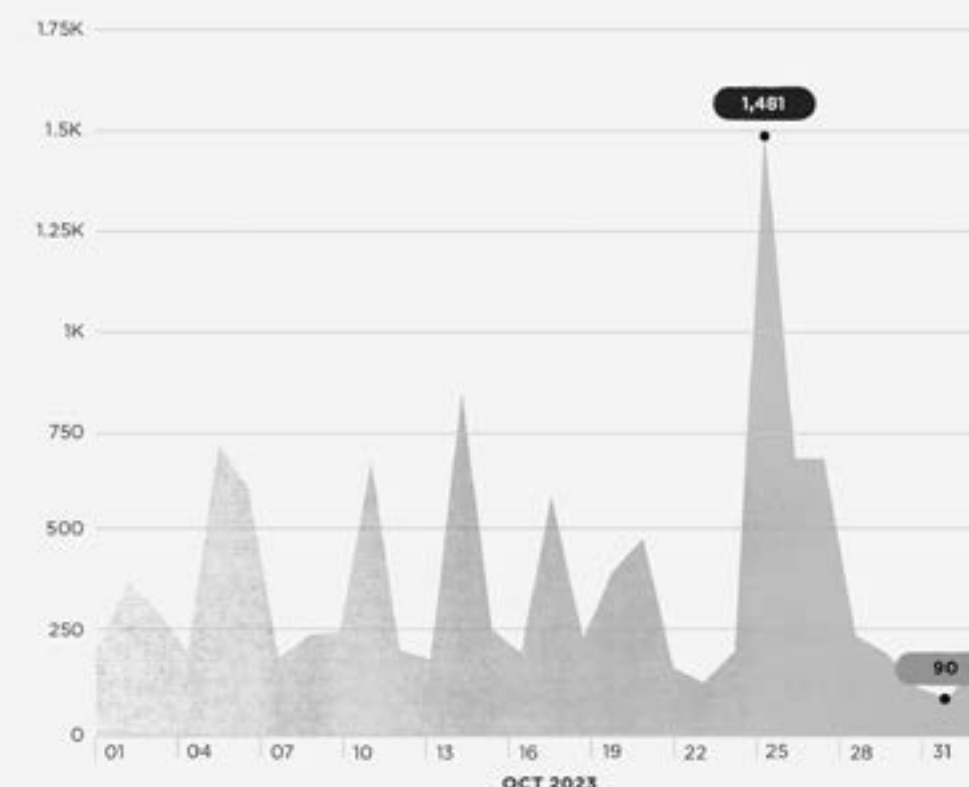


## Monthly Malware Digest | October 2023

4

### NUMBER OF SUBMISSIONS

The chart below documents the number of submissions (unique malware URLs) reported to URLhaus per day this month.



### TOP MALWARE DISTRIBUTION SITE CONTRIBUTORS

Community is at the heart of abuse.ch, so a special thanks to all those who report malware URLs. Those listed below have submitted the largest number of reports to URLhaus over this month.

RANK	# OF REPORTS	% CHANGE	CONTRIBUTOR
01	2,833	— New entry	k3dg333
02	1,224	⬆️ +40.05	geenensp
02	1,224	⬆️ +3.55	tolisec
03	1,128	— New entry	0x48215333
04	522	⬆️ +26.70	Cryptolaemus1
05	521	— New entry	misa11n
06	357	⬇️ -24.04	lrz_urlhaus
07	294	⬆️ +21.99	onecert_ir
08	270	⬆️ +175.51	bryancampbell
09	261	⬆️ +26.09	andretavare5
10	156	⬆️ +262.79	Gootloader2
11	152	— New entry	sp4ceinvaders
12	129	⬆️ +18.35	Casperinious
13	128	⬇️ -39.62	JAMESWT_MHT



# ABOUT THE DATA

All the data in this report is provided by [abuse.ch](#), a project committed to fighting abuse on the internet.

abuse.ch operates multiple community driven platforms which are open to everyone to both contribute and consume cyber threat intelligence data.

Security researchers, internet service providers and network operators trust in data provided by abuse.ch to protect their infrastructure from malware and botnet threats.

## HOW TO BECOME A CONTRIBUTOR

If you would like to contribute URLs of sites distributing malware, malware samples, IOCs or YARA files, then please go to the relevant platform and register by validating with a Twitter account.

Once you have proved to be a trustworthy contributor, you will then be invited to become a trusted member of the abuse.ch community.

<b>URLhaus</b> <a href="https://urlhaus.abuse.ch">https://urlhaus.abuse.ch</a>	<b>MalwareBazaar</b> <a href="https://bazaar.abuse.ch">https://bazaar.abuse.ch</a>
<b>ThreatFox</b> <a href="https://threatfox.abuse.ch">https://threatfox.abuse.ch</a>	<b>YARAify</b> <a href="https://yaraify.abuse.ch">https://yaraify.abuse.ch</a>

## HOW TO CONSUME THE DATA

Currently, all data available via abuse.ch’s platforms is free. Below are the links to the relevant APIs:

<b>URLhaus</b> <a href="https://urlhaus.abuse.ch/api/">https://urlhaus.abuse.ch/api/</a>	<b>MalwareBazaar</b> <a href="https://bazaar.abuse.ch/api/">https://bazaar.abuse.ch/api/</a>
<b>ThreatFox</b> <a href="https://threatfox.abuse.ch/api/">https://threatfox.abuse.ch/api/</a>	<b>YARAify</b> <a href="https://yaraify.abuse.ch/api/">https://yaraify.abuse.ch/api/</a>

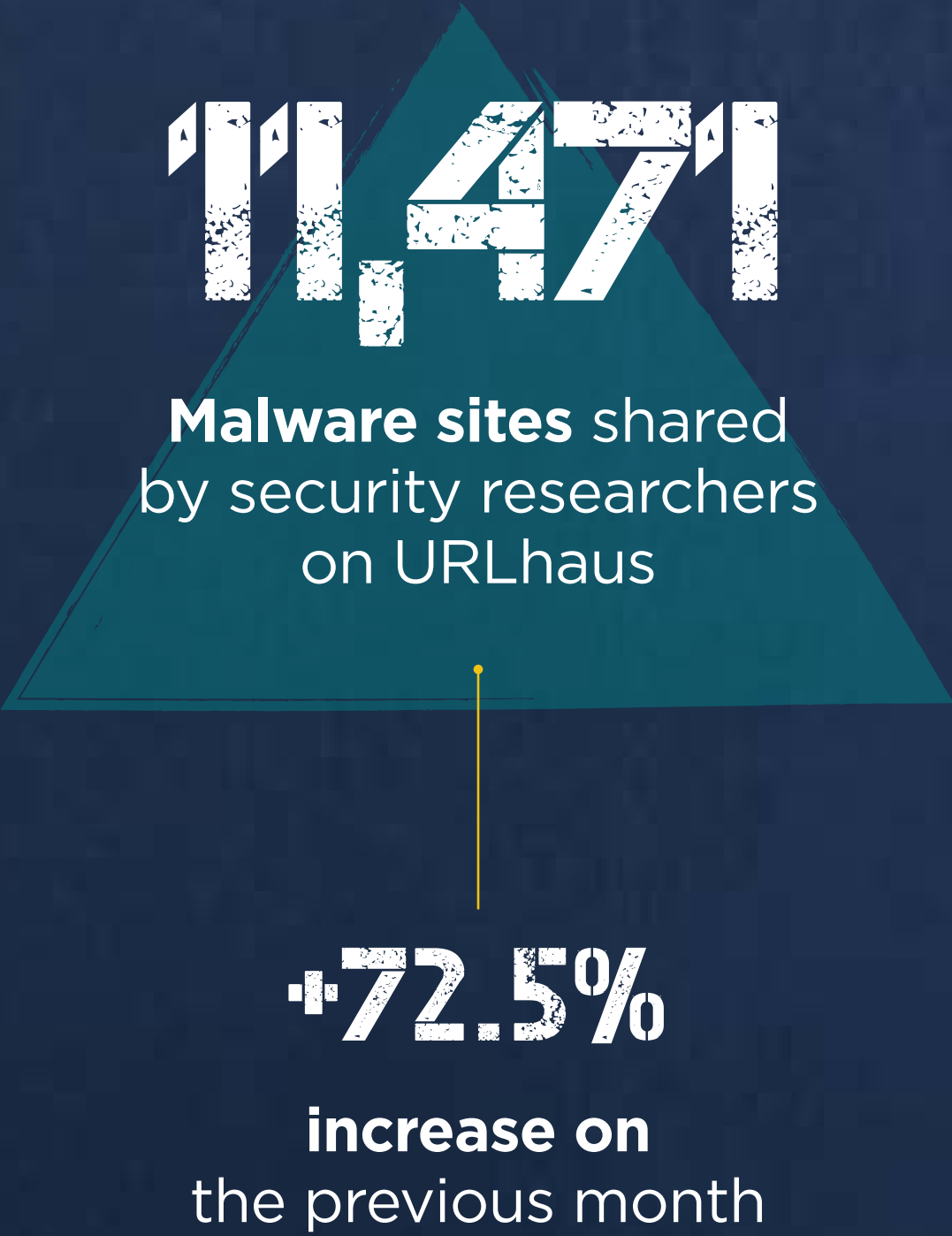
# URL-HAUS

This platform focuses on collecting, tracking and sharing actionable threat intelligence on active malware distribution sites.

Trusted third parties, including security researchers, are continually reporting sites hosting malware to URLhaus. This community-led approach enables hosting companies and network owners to take rapid action on harmful content. Additionally, it provides organizations with actionable threat intelligence data to protect against malware threats.

Explore URLhaus

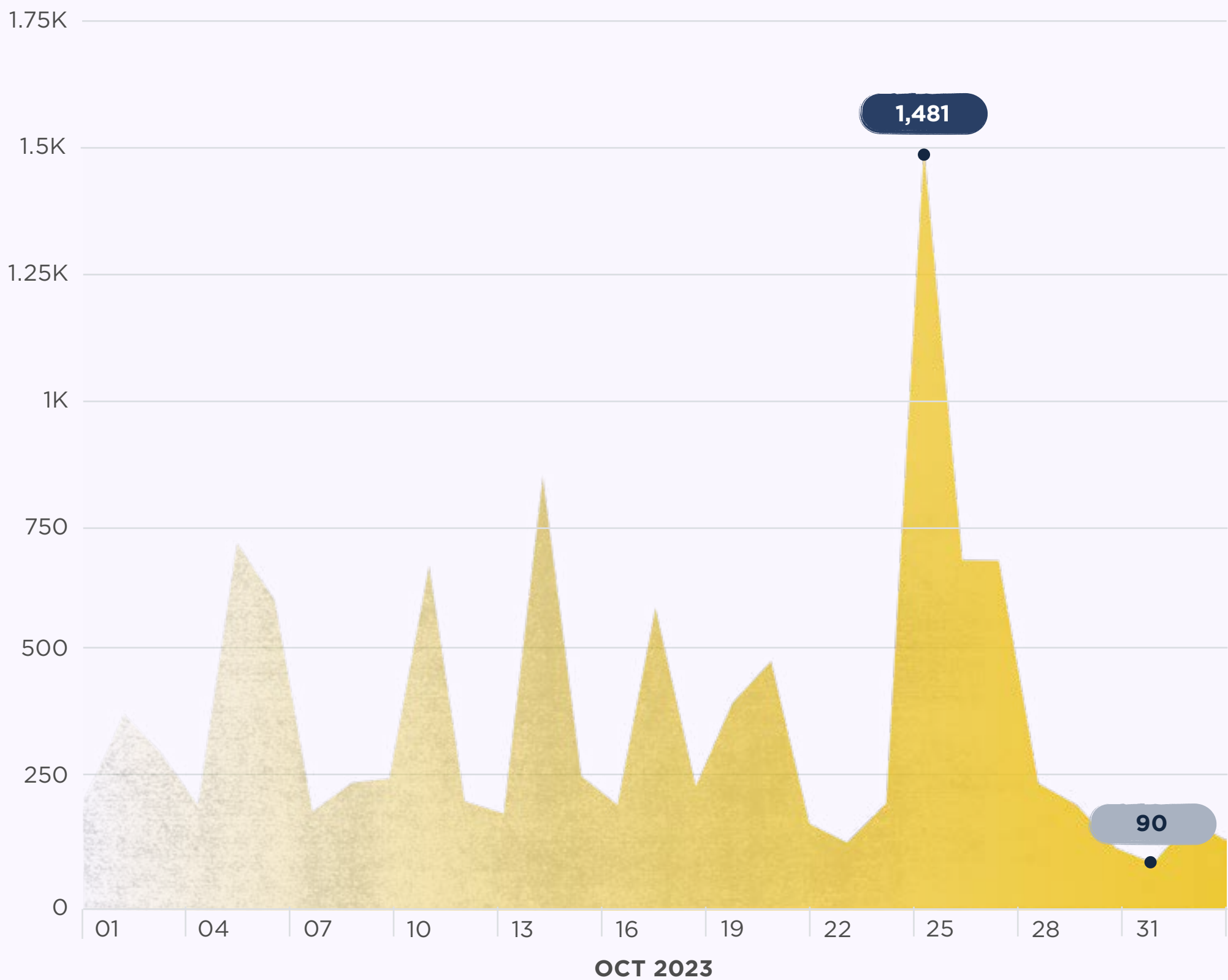
## ACTIVE MALWARE DISTRIBUTION SITES





NUMBER OF SUBMISSIONS

The chart below documents the number of submissions (unique malware URLs) reported to URLhaus per day this month.



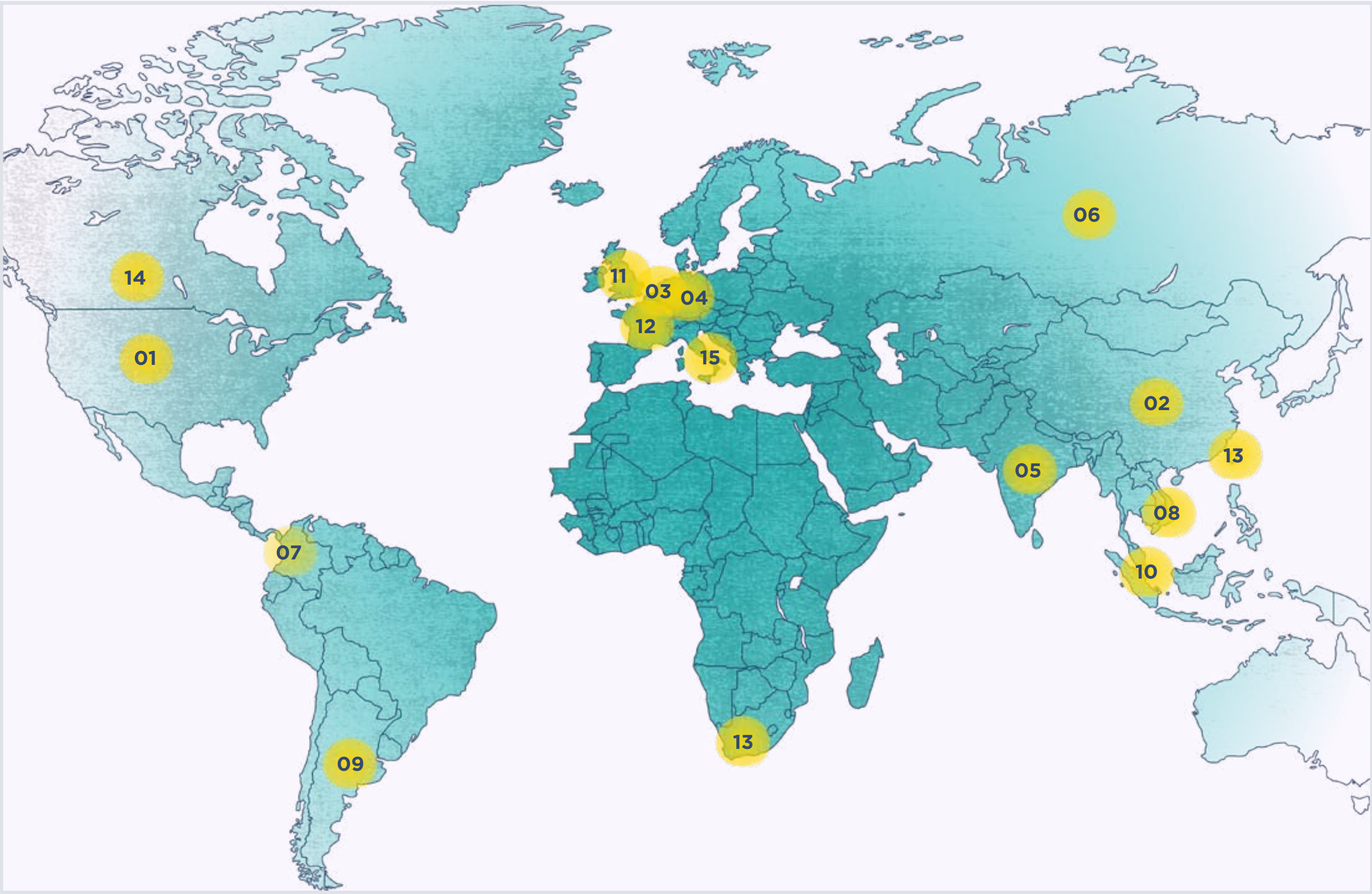
TOP MALWARE DISTRIBUTION SITE CONTRIBUTORS

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RANK	# OF REPORTS	% CHANGE	CONTRIBUTOR
01	2,833	New entry	k3dg333
02	1,224	+40.05	geenensp
02	1,224	+3.55	tolisec
03	1,128	New entry	0x48215333
04	522	+26.70	Cryptolaemus1
05	521	New entry	misa11n
06	357	-24.04	lrz_urlhaus
07	294	+21.99	onecert_ir
08	270	+175.51	bryancampbell
09	261	+26.09	andretavare5
10	156	+262.79	Gootloader2
11	152	New entry	sp4ceinvaders
12	129	+18.35	Casperinous
13	128	-39.62	JAMESWT_MHT
14	68	+94.29	aubrey_eats_pie



GEOLOCATION OF ACTIVE MALWARE DISTRIBUTION SITES



RANK	# OF SITES	% CHANGE	COUNTRY
01	4,467	⬆️ +126.18	United States
02	959	⬆️ +85.85	China
03	946	⬆️ -2.67	Netherlands
04	798	⬆️ +111.11	Germany
05	527	⬆️ +181.82	India
06	459	⬆️ +8.77	Russia
07	339	⬆️ +132.19	Colombia
08	238	⬆️ +5.31	Vietnam
09	235	⬆️ +76.69	Argentina
10	199	⬆️ +139.76	Singapore
11	183	⬆️ +40.77	United Kingdom
12	178	⬆️ +111.90	France
13	135	⬆️ +80.00	South Africa
14	127	— New entry	Canada
15	121	— New entry	Italy



## TOP NETWORKS HOSTING MALWARE DISTRIBUTION SITES

The following table shows the networks hosting the largest number of malware distribution sites this month.

RANK	# OF URLS	AS NUMBER	ORGANIZATION NAME	COUNTRY
01	832	AS22612	NAMECHEAP-NET	United States
02	750	AS13335	CLOUDFLARENET	United States
03	660	AS211252	AS_DELIS	Netherlands
04	646	AS4837	CHINA169-BACKBONE CHINA UNICOM China169 Backbone	China
05	597	AS46606	UNIFIEDLAYER-AS-1	United States
06	368	AS36352	AS-COLOCROSSING	United States
07	291	AS4134	CHINANET-BACKBONE No.31,Jin-rong Street	China
08	280	AS19871	NETWORK-SOLUTIONS-HOSTING	United States
09	269	AS19557	CHANGEIP-01	United States
10	267	AS26496	AS-26496-GO-DADDY-COM-LLC	United States
11	228	AS24940	HETZNER-AS	Germany
12	217	AS10617	SION S.A	Argentina
13	209	AS49581	FERDINANDZINK	Germany
14	203	AS47541	VKONTAKTE-SPB-AS vk.com	Russia
15	200	AS9829	BSNL-NIB National Internet Backbone	India

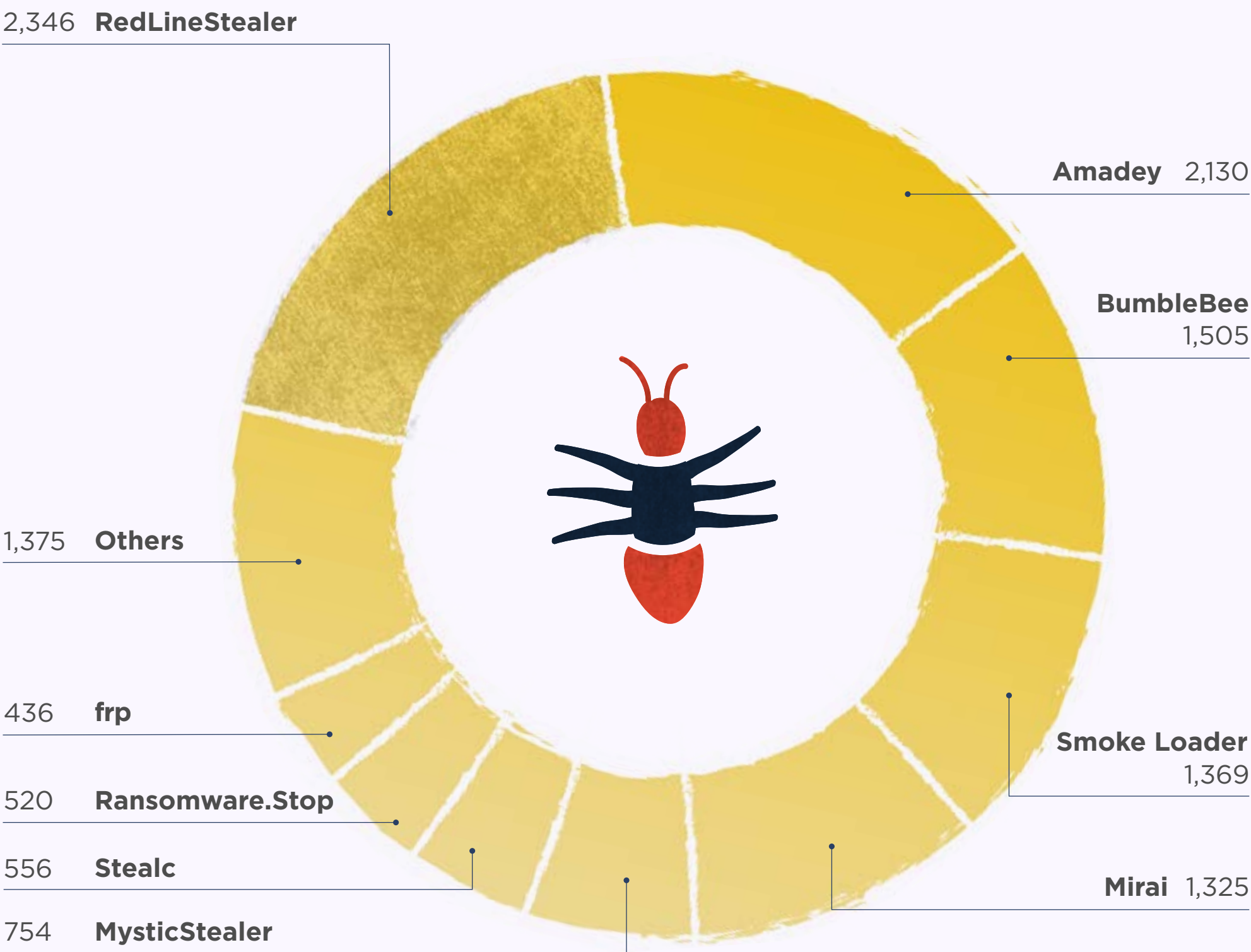
## TOP MALWARE HOSTS

The following table shows the details of the top malware hosts and their associated providers this month.

RANK	# OF MALWARE SITES	HOST	PROVIDER	COUNTRY
01	203	vk.com	VK	Russia
02	106	drive.google.com	Google	United States
03	100	www.dropbox.com	Dropbox	United States
04	97	wtools.io	n/a	null
05	48	transfer.sh	n/a	null
06	19	paste.ee	n/a	null
07	14	pasteio.com	n/a	null
07	14	docs.google.com	Google	United States
09	13	pastebin.com	Pastebin	United States

### TOP MALWARE FAMILIES ASSOCIATED WITH MALWARE SITES

This chart shows the malware families associated with the largest number of reported sites.



### TOP MALWARE FAMILIES - % CHANGES MONTH ON MONTH

The following table shows the malware families that experienced the greatest percentage increases this month, compared to the previous one.

RANK	MALWARE FAMILY	% CHANGE	LAST 3 MONTHS	# OF SAMPLES
01	Stealc	⬆️ +84.72	<div><div></div><div></div><div></div></div>	556
02	UACModuleSmokeLoader	⬆️ +14.35	<div><div></div><div></div><div></div></div>	247
03	Mirai	⬆️ +5.58	<div><div></div><div></div><div></div></div>	1,325
04	CoinMiner	⬆️ -3.43	<div><div></div><div></div><div></div></div>	225
05	BumbleBee	⬆️ -7.38	<div><div></div><div></div><div></div></div>	1,505
06	Ransomware.Stop	⬆️ -13.62	<div><div></div><div></div><div></div></div>	520
07	Smoke Loader	⬆️ -17.23	<div><div></div><div></div><div></div></div>	1,369
08	Amadey	⬆️ -30.48	<div><div></div><div></div><div></div></div>	2,130
09	frp	⬆️ -42.86	<div><div></div><div></div><div></div></div>	436
10	MysticStealer	⬆️ -48.04	<div><div></div><div></div><div></div></div>	754
11	RedLineStealer	⬆️ -48.92	<div><div></div><div></div><div></div></div>	2,346
12	MarsStealer	— New entry	<div><div></div><div></div><div></div></div>	422
12	AgentTesla	— New entry	<div><div></div><div></div><div></div></div>	168
12	RecordBreaker	— New entry	<div><div></div><div></div><div></div></div>	158
12	IRATA	— New entry	<div><div></div><div></div><div></div></div>	155

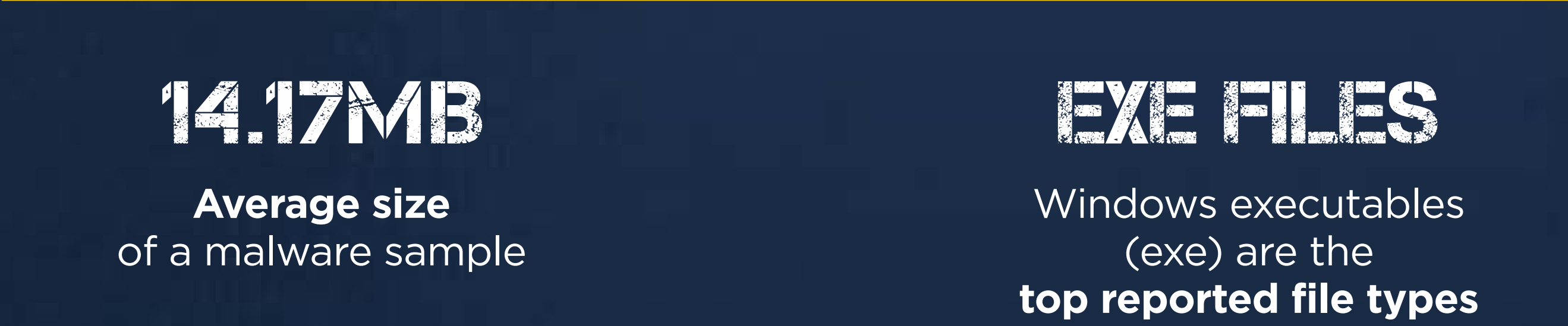
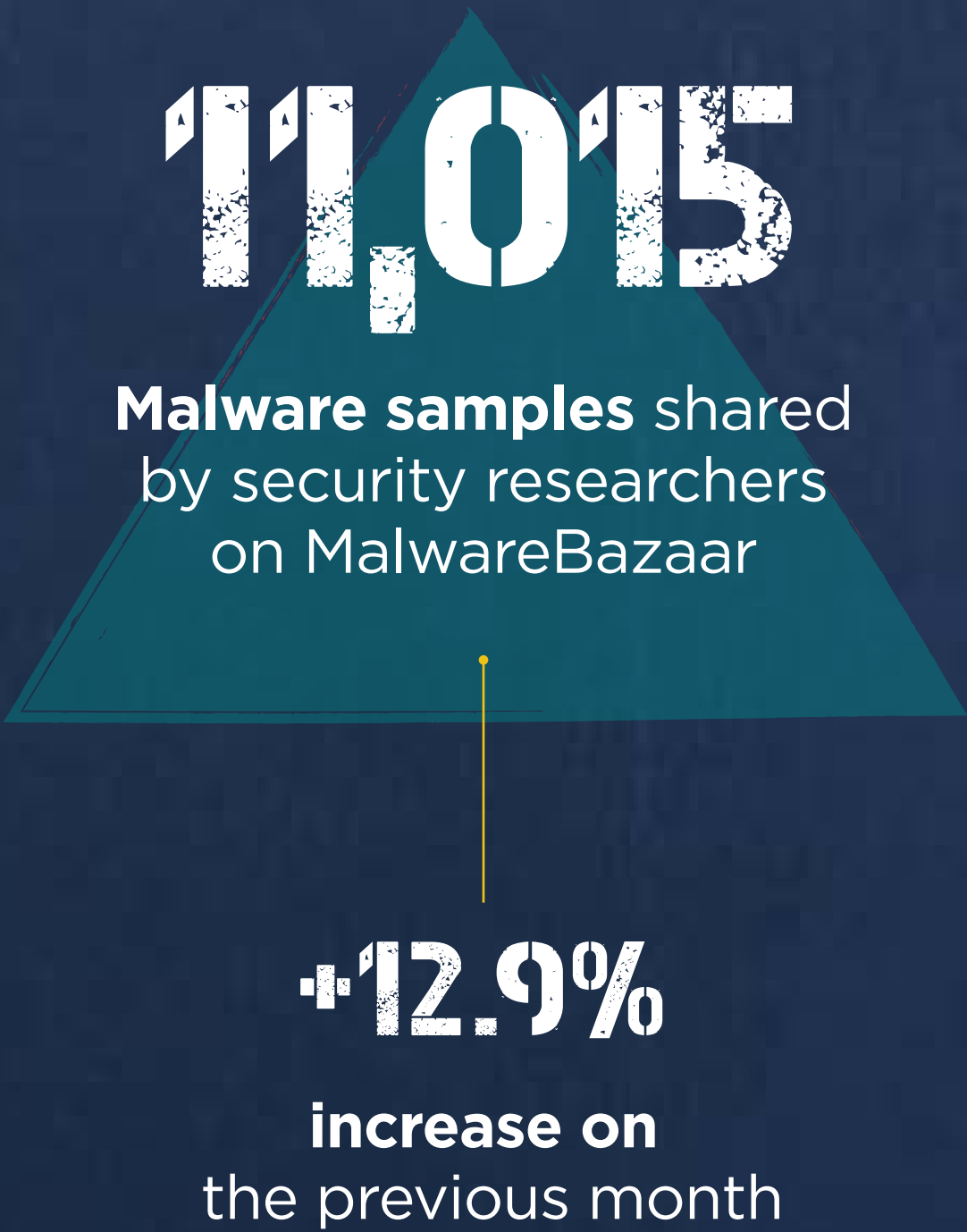
# MALWARE BAZAAR

Through this platform security researchers and the wider industry can share, classify and hunt for confirmed malware samples.

The platform allows security researchers to hunt for malware samples by deploying custom hunting rules, e.g., using the power of vendor-based threat detections.

Explore MalwareBazaar

## MALWARE SAMPLES





MALWARE SAMPLES

The chart below shows the number of unique malware samples shared on MalwareBazaar per day this month.



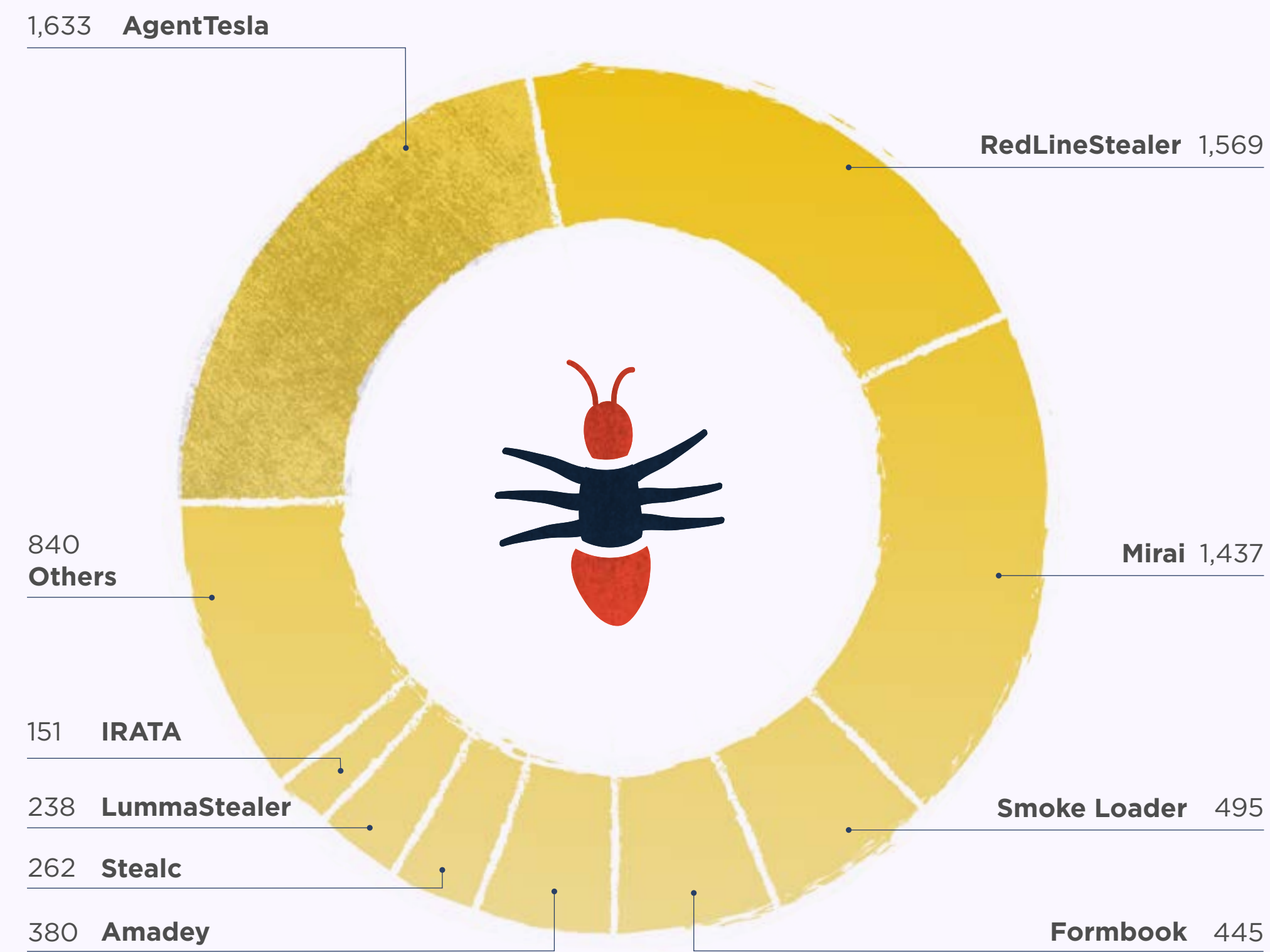
TOP SAMPLE CONTRIBUTORS

Community is at the heart of abuse.ch, so a special thanks to all those who provide malware samples. Those listed below have submitted the largest number of samples to MalwareBazaar over this month.

RANK	# OF MALWARE SAMPLES	% CHANGE	CONTRIBUTOR
01	2,390	⬆️ +85.70	@andretavare5
02	546	⬆️ +27.57	@cocaman
03	496	⬆️ +4.42	@elfdigest
04	406	⬆️ -12.88	@JAMESWT_MHT
05	267	⬆️ -32.91	@lowmal3
06	237	⬆️ +16.18	@r3dbU7z
07	181	⬆️ +38.17	@TeamDreier
08	174	⬆️ -18.31	@adrian__luca
09	151	⬆️ +11.03	@onecert_ir
10	123	⬆️ +35.16	@malwarelabnet
11	122	— New entry	@gOnjxa
12	109	⬆️ +7.92	@smica83
13	94	— New entry	@prOxylife
14	55	⬆️ -35.29	@jstrosch
14	55	— New entry	@vovaan

### TOP MALWARE FAMILIES ASSOCIATED WITH SAMPLES SHARED

This chart shows the malware families that were associated with the largest number of samples.



### TOP MALWARE FAMILIES - % CHANGE MONTH ON MONTH

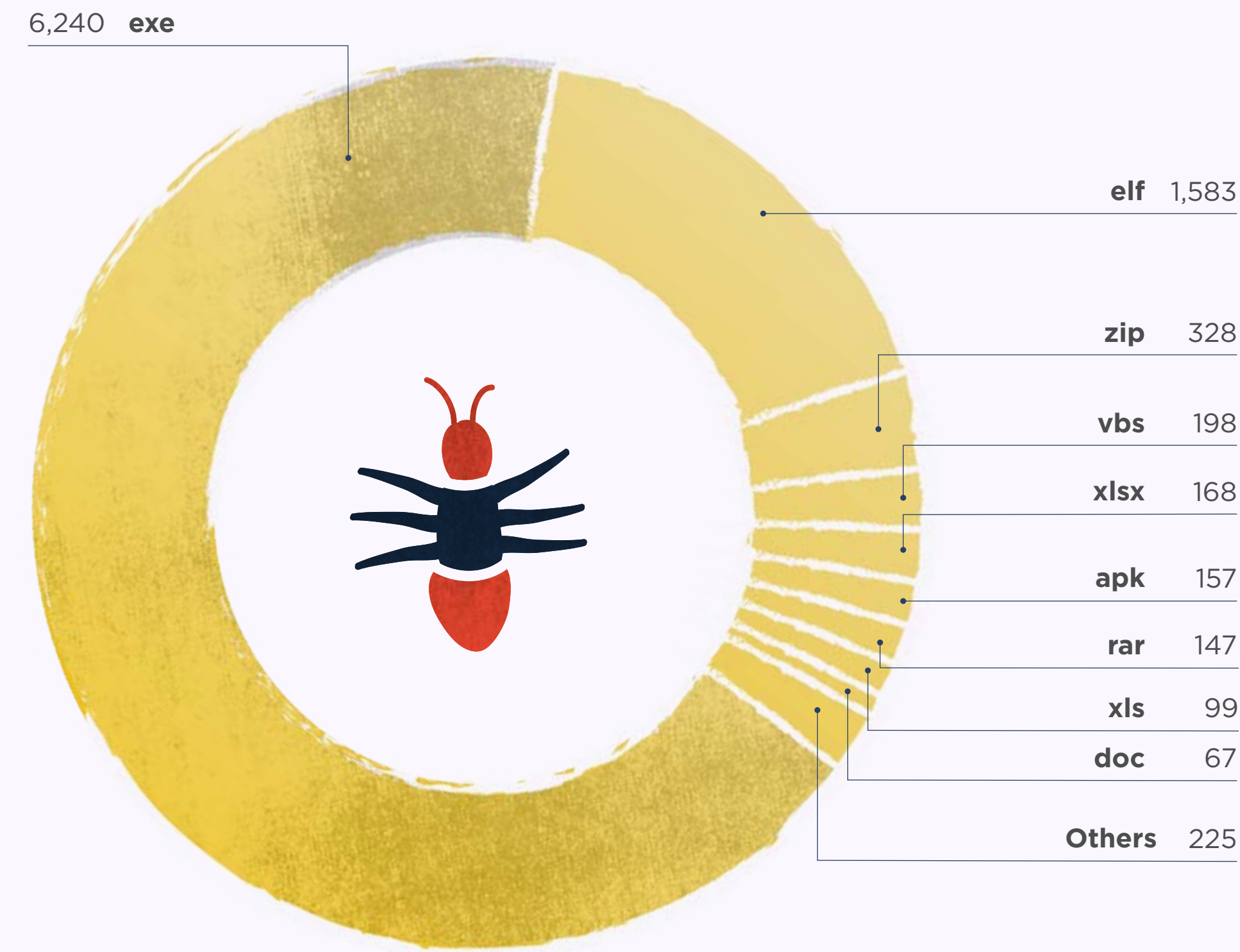
The following table shows the malware families that experienced the greatest percentage increases this month, compared to the previous one.

RANK	MALWARE FAMILY	% CHANGE	LAST 3 MONTHS	# OF SAMPLES
01	AsyncRAT	⬆️ +39.58	<div><div></div><div></div><div></div></div>	134
02	RedLineStealer	⬆️ +38.48	<div><div></div><div></div><div></div></div>	1,569
03	Formbook	⬆️ +36.50	<div><div></div><div></div><div></div></div>	445
04	Stealc	⬆️ +34.36	<div><div></div><div></div><div></div></div>	262
05	Smoke Loader	⬆️ +33.42	<div><div></div><div></div><div></div></div>	495
06	AgentTesla	⬆️ +11.24	<div><div></div><div></div><div></div></div>	1,633
07	SnakeKeylogger	⬆️ +8.15	<div><div></div><div></div><div></div></div>	146
08	IRATA	⬆️ +7.86	<div><div></div><div></div><div></div></div>	151
09	Amadey	⬆️ +4.97	<div><div></div><div></div><div></div></div>	380
10	Mirai	⬆️ -4.26	<div><div></div><div></div><div></div></div>	1,437
11	LummaStealer	— New entry	<div><div></div><div></div><div></div></div>	238
11	GuLoader	— New entry	<div><div></div><div></div><div></div></div>	149
11	RecordBreaker	— New entry	<div><div></div><div></div><div></div></div>	140
11	Gafgyt	— New entry	<div><div></div><div></div><div></div></div>	138
11	Tofsee	— New entry	<div><div></div><div></div><div></div></div>	133



TOP FILE TYPES

This chart shows the most popular tags related to the reported IOCs.



TOP MATCHING YARA RULES

Community is at the heart of abuse.ch, so a special thanks to all those who contribute. The following table lists the [YARA](#) rules and their authors associated with the largest number of samples submitted.

RANK	# MALWARE SAMPLES	YARA RULE	AUTHOR
01	2,792	NET	malware-lu
02	1,914	NETexecutableMicrosoft	malware-lu
03	1,834	DebuggerCheck__API	n/a
04	1,440	maldoc_find_kernel32_base_method_1	Didier Stevens
05	1,127	detect_Redline_Stealer	VarpOs
06	1,060	INDICATOR_EXE_Packed_ConfuserEx	ditekSHen
07	911	redline_stealer_1	Nikolaos 'nOt' Totosis
08	841	win_smokeloader_a2	pnx
09	792	pe_no_import_table	qux
10	571	linux_generic_ipv6_catcher	@_lubiedo
11	554	myMirai	n/a
12	553	MD5_Constants	phoul (@phoul)
13	529	INDICATOR_SUSPICIOUS_EXE_RegKeyComb_DisableWinDefender	ditekSHen
14	528	mal_healer	Nikos 'nOt' Totosis
15	526	cobalt_strike_tmp01925d3f	The DFIR Report

# THREATFOX

This platform enables organizations and security researchers to consume and contribute technical indicators connected to cyber attacks in a structured way. The shared indicators of compromise (IOCs) help others to detect potential cyber attacks within their environment.

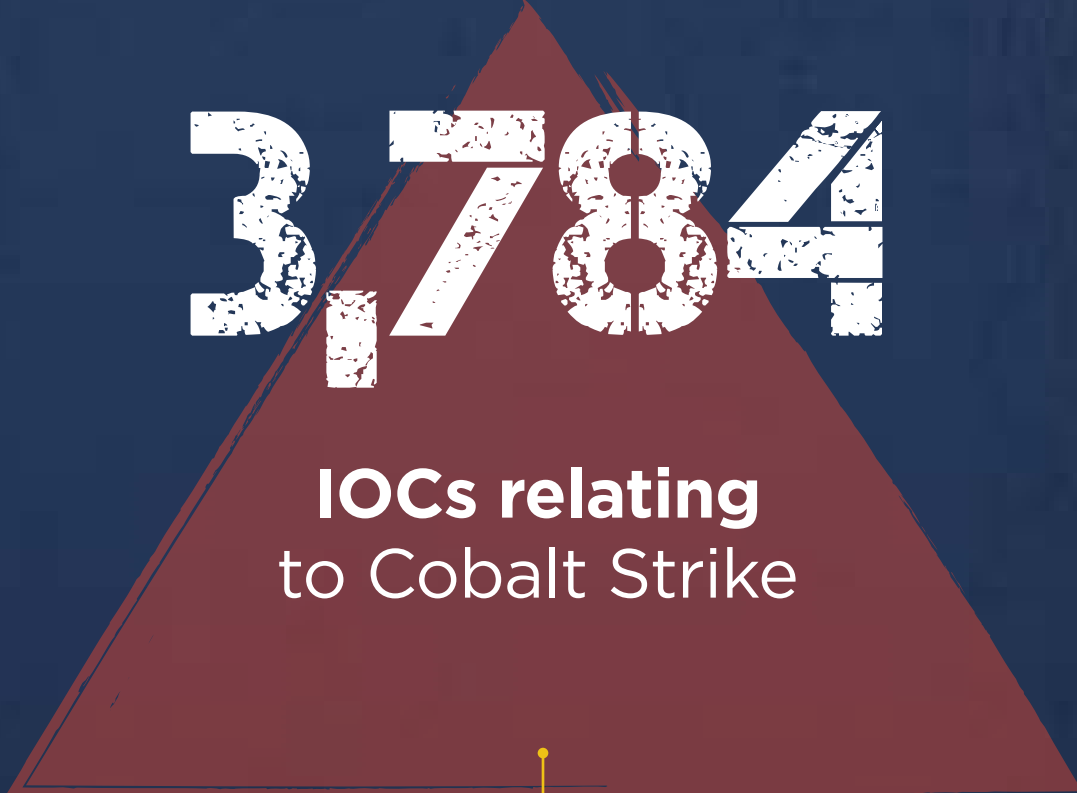
Explore ThreatFox

## INDICATORS OF COMPROMISE (IOCs)



-43.4%

decrease on the previous month



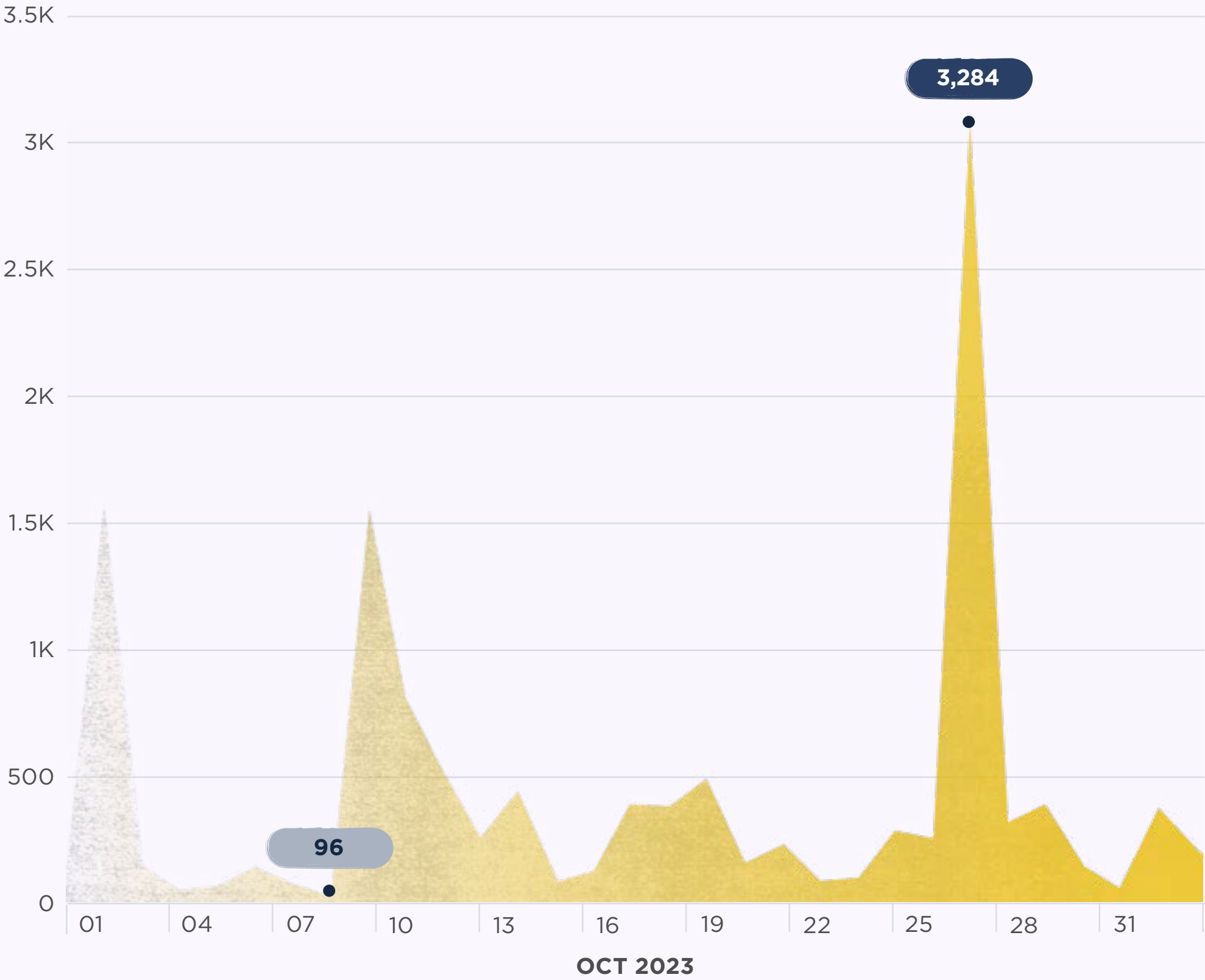
+99.89%

increase on the previous month



NUMBER OF IOCs SHARED PER DAY

The chart below shows the number of indicators of compromise (IOCs) shared on ThreatFox per day this month.



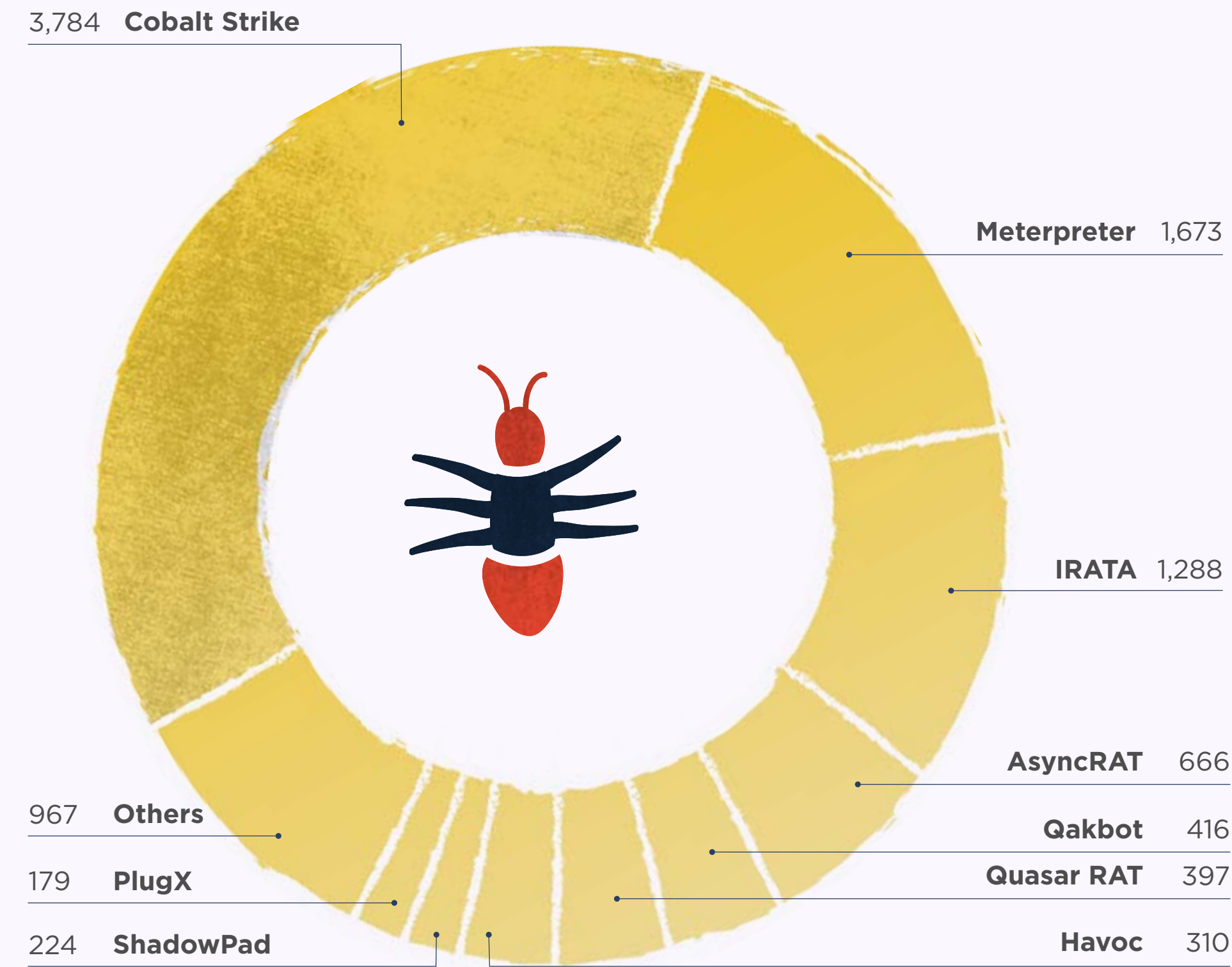
IOC TYPE

An IOC can be a domain name, IP address, or file hash. The following table identifies and explains the most common IOC types reported this month.

RANK	# OF IOCS	IOC TYPE	THREAT TYPE	EXPLANATION
01	7,475	ip:port	botnet_cc	ip:port combination that is used for botnet Command&control (C&C)
02	2,644	url	botnet_cc	URL that is used for botnet Command&control (C&C)
03	2,595	domain	botnet_cc	Domain that is used for botnet Command&control (C&C)
04	1,138	ip:port	payload_delivery	ip:port combination that delivers a malware payload
05	705	domain	payload_delivery	Domain name that delivers a malware payload
06	648	url	payload_delivery	URL that delivers a malware payload
07	199	sha256_hash	payload	SHA256 hash of a malware sample (payload)
08	174	md5_hash	payload	MD5 hash of a malware sample (payload)
09	7	domain	cc_skimming	Domain used for credit card skimming (usually related to Magecart attacks)

TOP MALWARE FAMILIES

This chart shows the malware families that were associated with the largest number of IOCs this month.



TOP MALWARE FAMILIES - % CHANGES MONTH ON MONTH

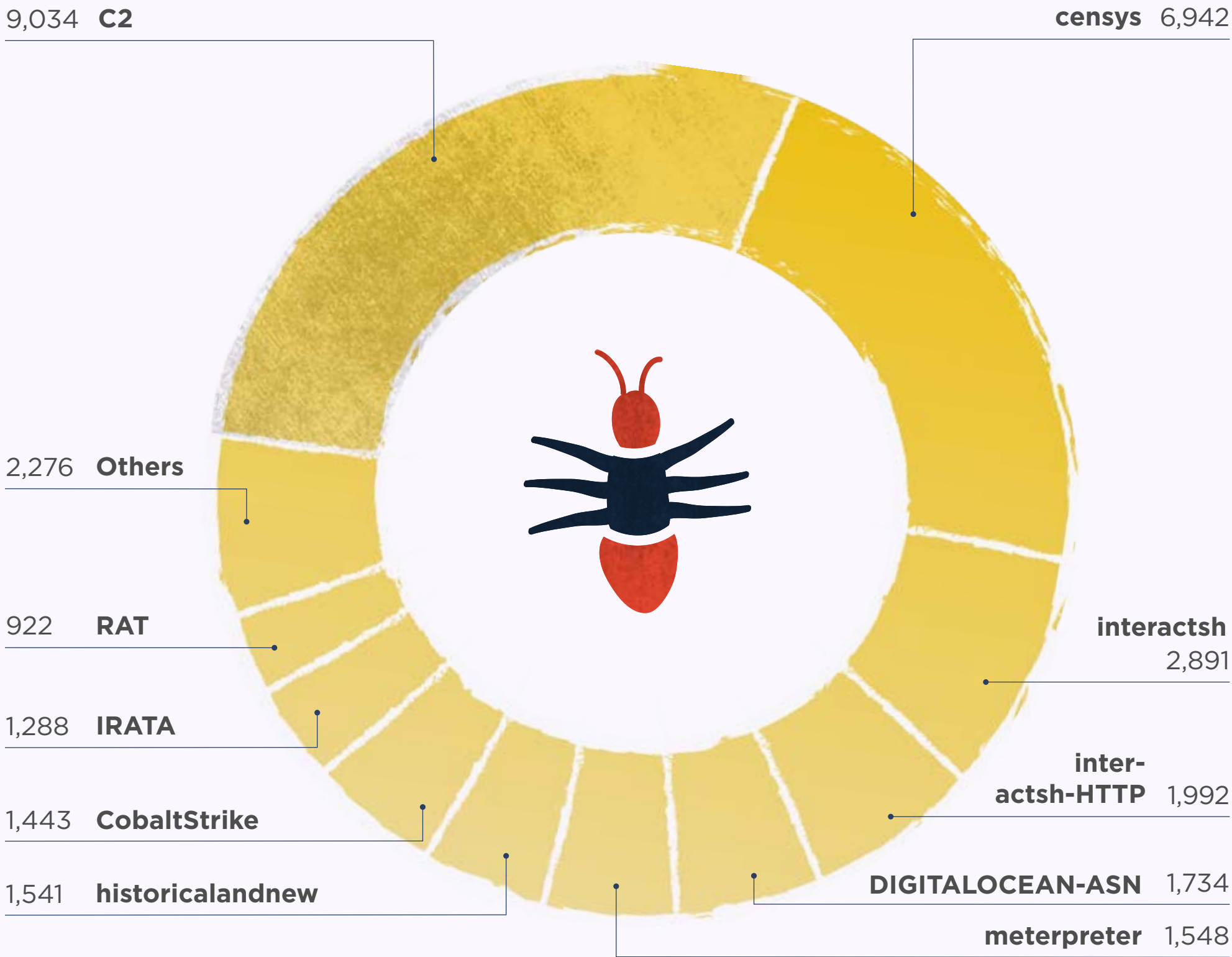
The following table shows the malware families that experienced the greatest percentage increases this month, compared to the previous one.

RANK	MALWARE FAMILY	% CHANGE	LAST 3 MONTHS	# OF IOCS
01	Cobalt Strike	⬆️ +99.89	<div><div></div><div></div><div></div></div>	3,784
02	IRATA	⬆️ +17.95	<div><div></div><div></div><div></div></div>	1,288
03	Quasar RAT	⬆️ -65.08	<div><div></div><div></div><div></div></div>	397
04	AsyncRAT	⬆️ -72.33	<div><div></div><div></div><div></div></div>	666
05	Meterpreter	— New entry	<div><div></div><div></div><div></div></div>	1,673
05	Qakbot	— New entry	<div><div></div><div></div><div></div></div>	416
05	Havoc	— New entry	<div><div></div><div></div><div></div></div>	310
05	ShadowPad	— New entry	<div><div></div><div></div><div></div></div>	224
05	PlugX	— New entry	<div><div></div><div></div><div></div></div>	179
05	RedlineStealer	— New entry	<div><div></div><div></div><div></div></div>	174
05	Sliver	— New entry	<div><div></div><div></div><div></div></div>	169
05	GootLoader	— New entry	<div><div></div><div></div><div></div></div>	164
05	Lumma	— New entry	<div><div></div><div></div><div></div></div>	159
05	DarkGate	— New entry	<div><div></div><div></div><div></div></div>	156
05	Pikabot	— New entry	<div><div></div><div></div><div></div></div>	145



TOP TAGS

Tags allow the contributor of an IOC to provide additional context about a threat. This chart shows the most popular tags used this month.



TOP TAGS - % CHANGES  
MONTH ON MONTH

The following table shows the malware families that experienced the greatest percentage increases this month, compared to the previous one.

RANK	MALWARE FAMILY	% CHANGE	# OF IOCS
01	IRATA	⬆️ +18.60	1,288
02	CobaltStrike	⬇️ -17.45	1,443
03	C2	⬇️ -55.96	9,034
04	RAT	⬇️ -74.41	922
05	AsyncRAT	⬇️ -84.92	359
06	historicalandnew	⬇️ -91.74	1,541
07	censys	— New entry	6,942
07	interactsh	— New entry	2,891
07	interactsh-HTTP	— New entry	1,992
07	DIGITALOCEAN-ASN	— New entry	1,734
07	meterpreter	— New entry	1,548
07	interactsh-SMTP	— New entry	674
07	cs-watermark-987654321	— New entry	464
07	Qakbot	— New entry	414
07	AMAZON-02	— New entry	365

# YARAIFY

A platform for threat hunters and security researchers to be able to hunt for suspicious files using YARA. Additionally, this community-based platform allows users to share their own YARA rules in structured way. [YARA rules are used to identify malware based on certain characteristics]

Explore YARAify

## YARAIFY STATISTICS

3,891,584

File scans conducted on YARAify

+29.3%

increase in file scans on the previous month

3,212,843

Distinct files that had scans performed on them

+26.9%

increase in distinct files on the previous month

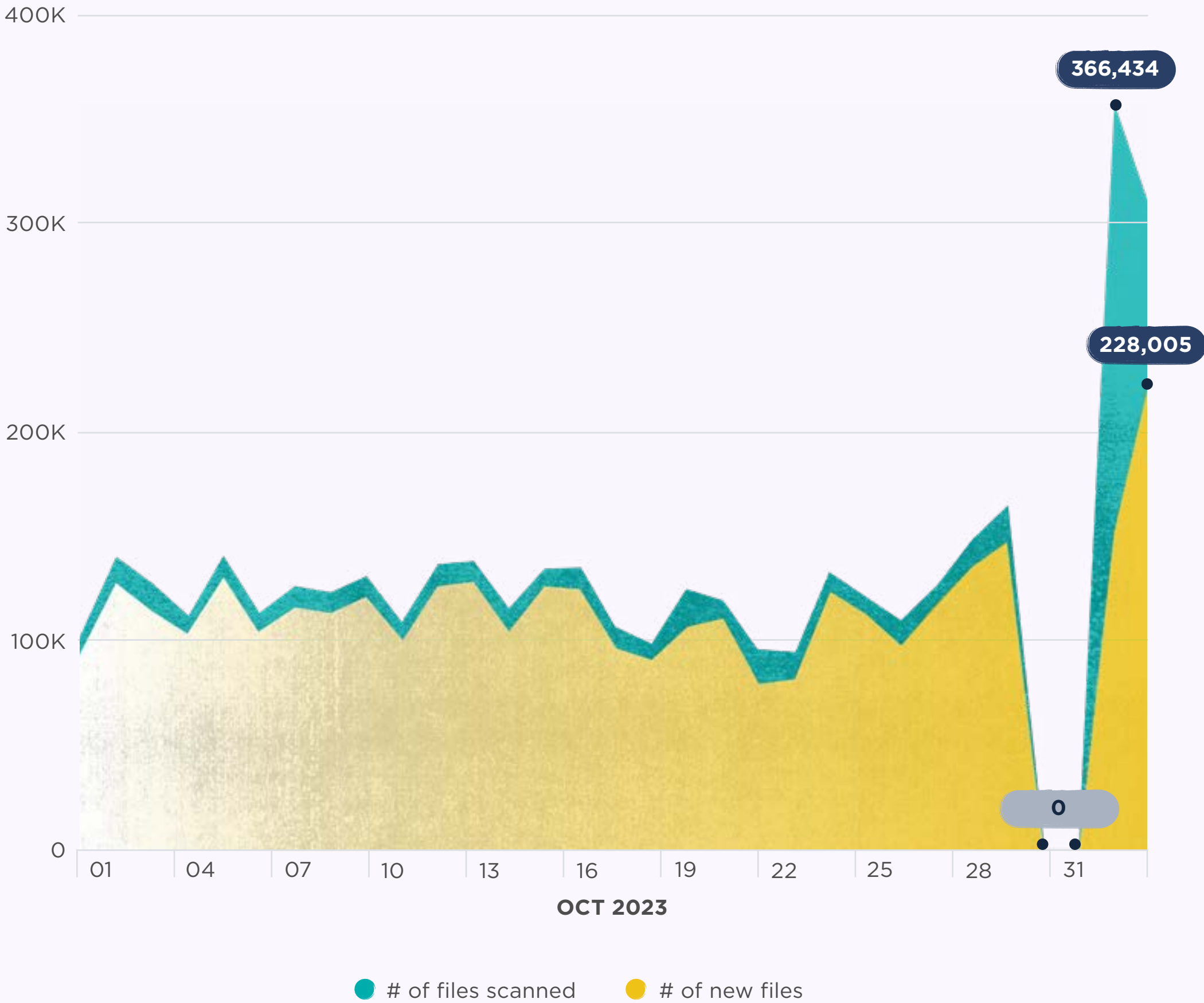
18,422

YARA rules deployed on YARAify and available for hunting



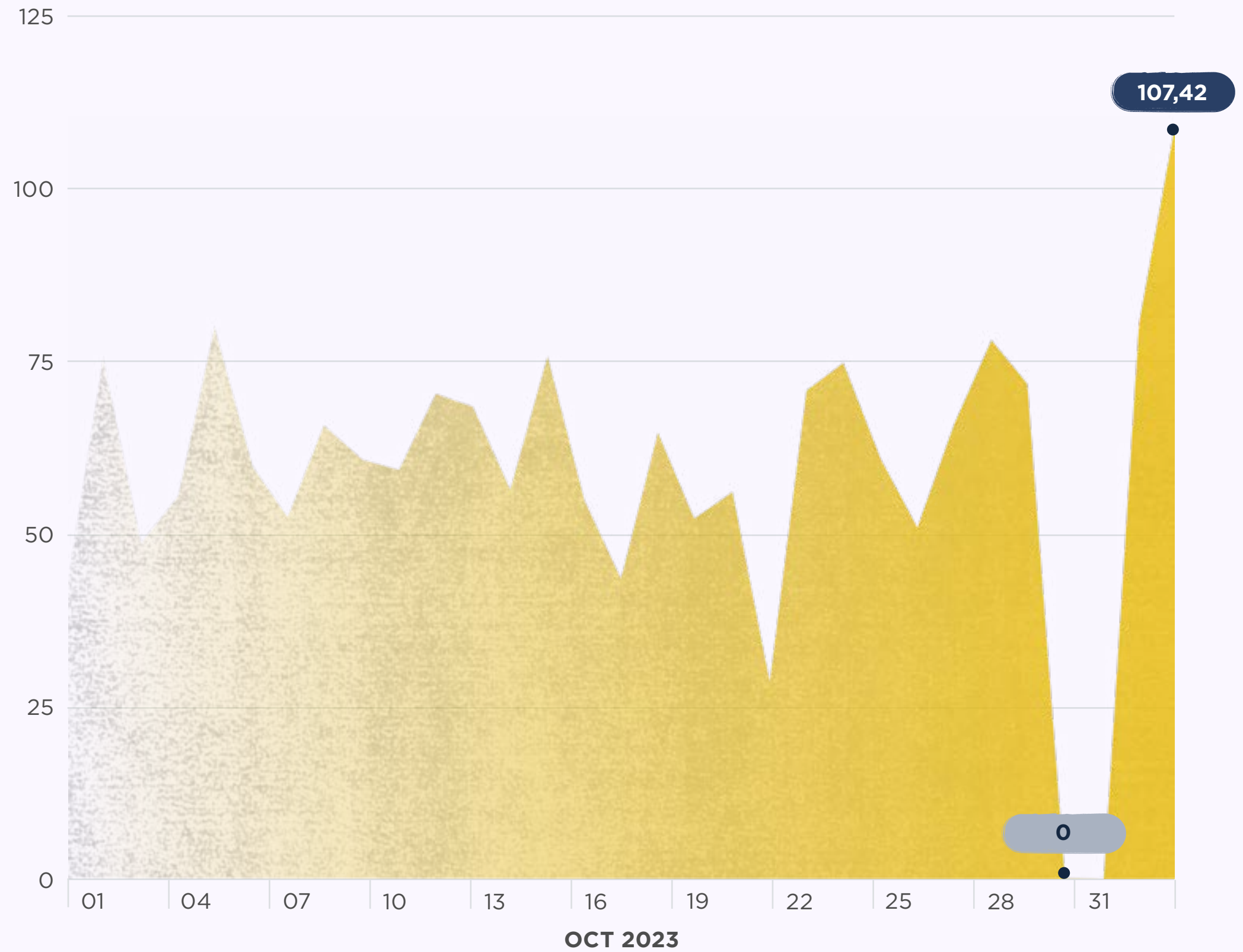
FILES SCANNED PER DAY

The chart below shows the number of file scans conducted by YARAify this month.



DATA SCANNED PER DAY

The chart below shows the amount of data scanned in gigabytes (GB) this month.



TOP MATCHING YARA RULES

The following table lists the YARA rules and their authors associated with the largest number of files matched.

RANK	# OF FILES MATCHED	% CHANGE	YARA RULE	AUTHOR
01	2,823,220	⬆️ +133.67	maldoc_getEIP_method_1	Didier Stevens
02	289,692	⬇️ -6.65	DebuggerCheck__API	n/a
03	175,476	⬇️ -17.55	NET	malware-lu
04	156,012	⬇️ -15.60	UPXV200V290Markus OberhumerLaszloMolnar- JohnReiser	malware-lu
05	150,859	⬇️ -15.99	maldoc_find_kernel32_ base_method_1	Didier Stevens ( <a href="https://Didier-Stevens.com">https://Didier-Stevens.com</a> )
06	135,572	⬇️ -19.44	UPXv20MarkusLaszloReiser	malware-lu
07	91,536	— New entry	Check_Dlls	n/a
08	87,609	⬇️ -18.10	MD5_Constants	phoul (@phoul)
09	83,271	— New entry	SUSP_XORed_URL_in_EXE_ RID2E46	n/a
10	83,107	— New entry	SUSP_XORed_URL_in_EXE	Florian Roth (Nex- tron Systems)
11	73,941	⬆️ +19.17	SEH__vba	n/a
12	73,505	⬇️ -33.98	SHA1_Constants	phoul (@phoul)
13	73,504	⬇️ -33.98	RIPEMD160_Constants	phoul (@phoul)
14	67,836	⬇️ -8.79	DebuggerException__ SetConsoleCtrl	n/a
15	57,966	⬆️ +2.86	Borland	malware-lu

TOP MATCHING CLAMAV SIGNATURES

The following table lists the Clam AntiVirus signatures that were used in the most tasks.

RANK	TASK COUNT	% CHANGE	CLAMAV SIGNATURE
01	1,784,353	⬆️ +86.03	PUA.Win.Packer.Lccwin-2
02	1,209,379	⬆️ +85.85	Win.Trojan.Obfus-38
03	763,099	⬆️ +58.27	Win.Trojan.Qukart-6874817-0
04	585,881	⬆️ +112.46	Win.Trojan.Padodor-9877164-0
05	537,173	⬆️ +131.56	Win.Malware.Qukart-6838239-0
06	202,545	⬇️ -4.73	Win.Trojan.Crypted-30
07	202,440	⬇️ -4.47	Win.Trojan.Crypted-29
08	135,581	— New entry	Win.Packed.Razy-10009896-0
09	125,014	— New entry	Win.Packed.Razy-10010080-0
10	118,103	⬆️ +15.49	Win.Trojan.Crypted-28
11	112,100	⬆️ +190.74	Win.Malware.Renos-10003934-0
12	104,287	⬆️ +88.01	Win.Packed.Lazy-10005437-0
13	100,302	⬆️ +260.57	Win.Packed.Zpack-10001780-0
14	86,673	⬆️ +56.81	Win.Trojan.Berbew-9845290-1
15	63,210	⬇️ -17.55	Win.Trojan.Crypted-31



# LOOK OUT FOR THE NEXT MALWARE DIGEST EARLY IN DECEMBER

Remember, sharing is caring.