

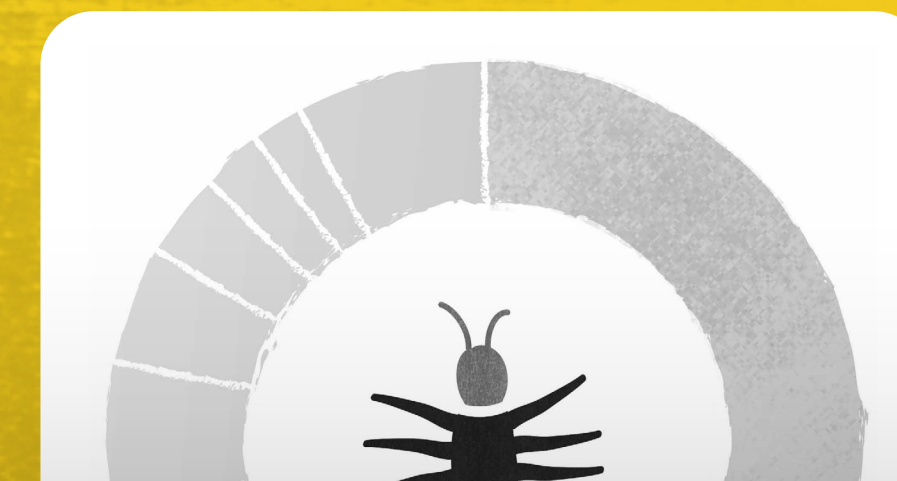
# MONTHLY MALWARE DIGEST

6,649

Malware sites shared  
by security researchers on

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.



Monthly Malware Digest | September 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	1,182	— New entry	tolisec
02	874	↘ -81.41	geenensp
03	470	↘ -89.34	lrz_urlhaus
04	412	↗ +285.05	Cryptolaemus1
05	241	— New entry	oncert_ir
06	235	— New entry	abus3reports
07	212	↗ +127.96	JAMESWT_MHT
08	207	↗ +38	andretavare5
09	109	↗ +23.86	Casperinous
10	98	— New entry	bryancampbell
11	43	↘ -84.64	Gootloader2
12	35	— New entry	aubrey_eats_pie
13	33	— New entry	johnk3r
14	32	— New entry	cre4milk



# ABOUT THE DATA

All the data in this report is provided by [abuse.ch](https://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>



# URLHAUS

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.

## ACTIVE MALWARE DISTRIBUTION SITES

6,649

Malware sites shared by security researchers on URLhaus

-54%

decrease on the previous month

9,605

Abuse reports sent out to hosting providers and network owners

86.1%

of abuse reports have been acted upon

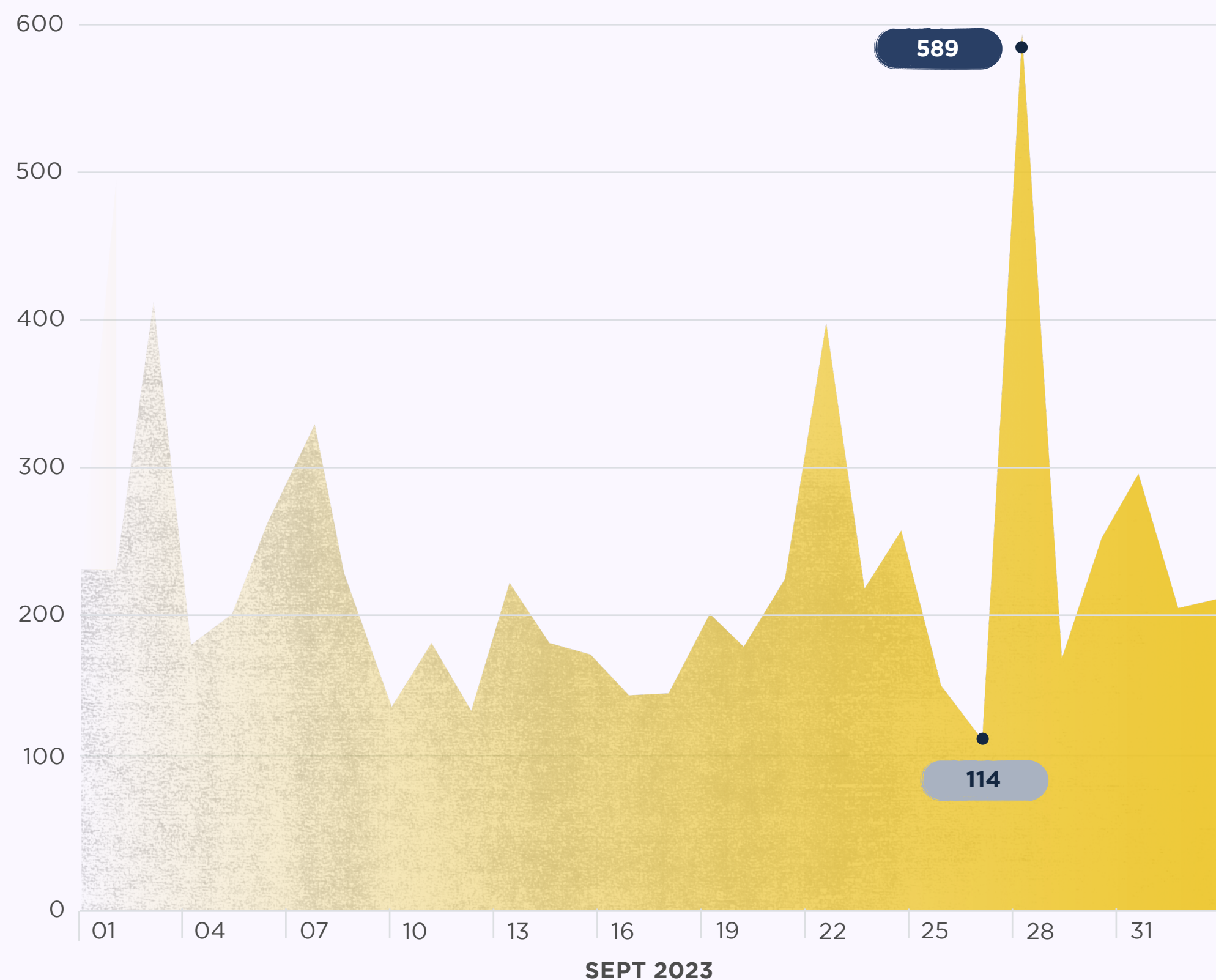
Explore URLhaus





## NUMBER OF SUBMISSIONS

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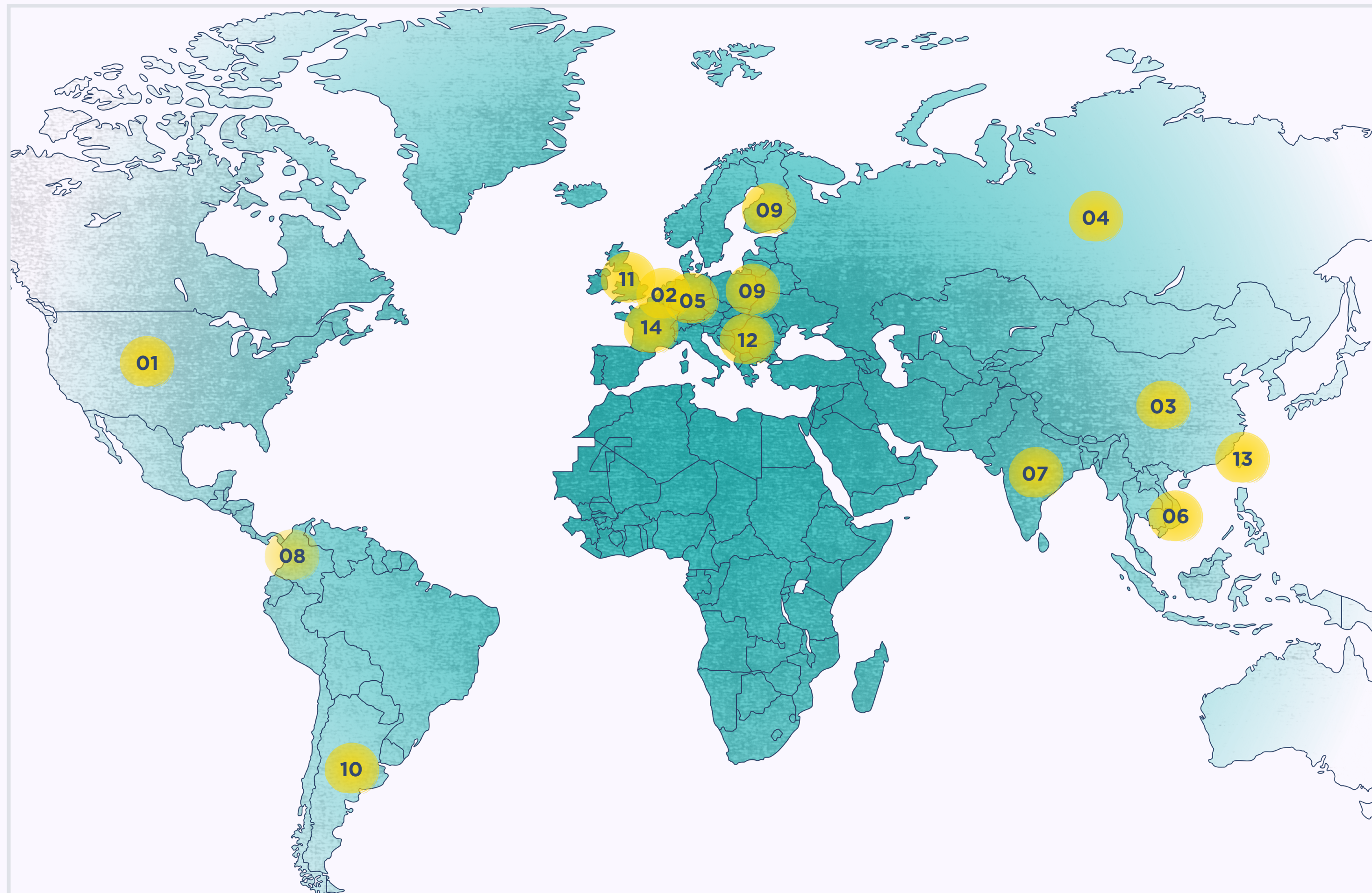
## TOP MALWARE DISTRIBUTION SITE CONTRIBUTORS

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13	33	— New entry	johnk3r
14	32	— New entry	cre4milk
14	32	— New entry	vovaan



## GEOLOCATION OF ACTIVE MALWARE DISTRIBUTION SITES



RANK	# OF SITES	% CHANGE	COUNTRY
01	1,975	⬆️ +47.50	United States
02	972	⬆️ +25.91	Netherlands
03	516	⬆️ -90.66	China
04	422	⬆️ -6.22	Russia
05	378	⬆️ -31.27	Germany
06	226	⬆️ +30.64	Vietnam
07	187	⬆️ -93.07	India
08	146	— New entry	Colombia
09	135	— New entry	Finland
09	135	— New entry	Lithuania
10	133	⬆️ -68.71	Argentina
11	130	— New entry	United Kingdom
12	100	— New entry	Hungary
13	93	⬆️ -7.92	Taiwan (PoC)
14	84	⬆️ -56.25	France



## 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	760	AS211252	AS_DELIS	Netherlands
02	397	AS13335	CLOUDFLARENET	United States
03	309	AS4837	CHINA169-BACKBONE CHINA UNICOM China169 Backbone	China
04	181	AS22612	NAMECHEAP-NET	United States
05	176	AS36352	AS-COLOCROSSING	United States
06	173	AS19557	CHANGEIP-01	United States
07	166	AS4134	CHINANET-BACKBONE No.31,Jin-rong Street	China
08	159	AS47541	VKONTAKTE-SPB-AS vk.com	Russia
09	158	AS9829	BSNL-NIB National Internet Backbone	India
10	154	AS14061	DIGITALOCEAN-ASN	United States
11	128	AS203727	ALTAWK	Ukraine
12	126	AS10617	SION S.A	Argentina
13	125	AS8075	MICROSOFT-CORP-MSN-AS-BLOCK	United States
14	122	AS46606	UNIFIEDLAYER-AS-1	United States
15	108	AS209605	HOSTBALTIC	Lithuania

## TOP MALWARE HOSTS

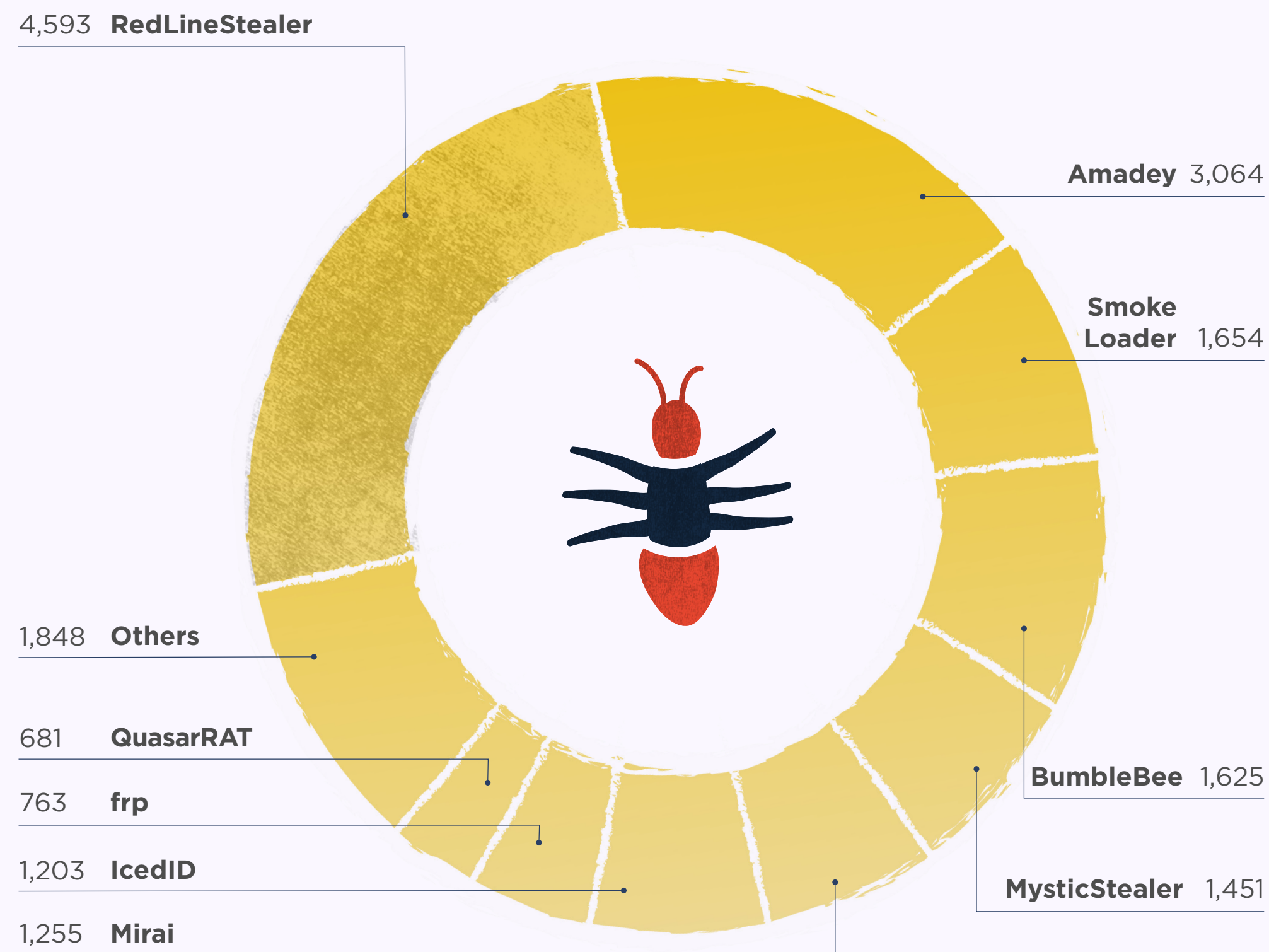
The following table shows the details of the top malware hosts and their associated providers this month.

RANK	# OF MALWARE SITES	HOST	PROVIDER	COUNTRY
01	161	vk.com	VK	Russia
02	67	wtools.io	n/a	null
03	56	cdn.discordapp.com	Discord	United States
04	44	pasteio.com	n/a	null
05	23	transfer.sh	n/a	null
06	17	filebin.net	n/a	null



## 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	Smoke Loader	⬆️ +334.12		1,654
02	BumbleBee	⬆️ +62.34		1,625
03	Fabookie	⬆️ +41.67		136
04	RedLineStealer	⬆️ +41.28		4,593
05	QuasarRAT	⬆️ +40.99		681
06	Ransomware.Stop	⬆️ +10.46		602
07	Amadey	⬇️ -4.73		3,064
08	CoinMiner	⬇️ -5.28		233
09	UACModuleSmokeLoader	⬇️ -16.92		216
10	Mirai	⬇️ -20.57		1,255
11	IcedID	⬇️ -35.18		1,203
12	MysticStealer	— New entry		1,451
12	frp	— New entry		763
12	Backdoor.TeamViewer	— New entry		360
12	Stealc	— New entry		301



# 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

9,755

Malware samples shared by security researchers on MalwareBazaar

+1.8%

increase on the previous month

1,318

Active hunting rules

+0.3%

increase on the previous month

11.64MB

Average size of a malware sample

EXE FILES

Windows executables (exe) are the top reported file types



## MALWARE SAMPLES

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



## TOP SAMPLE CONTRIBUTORS

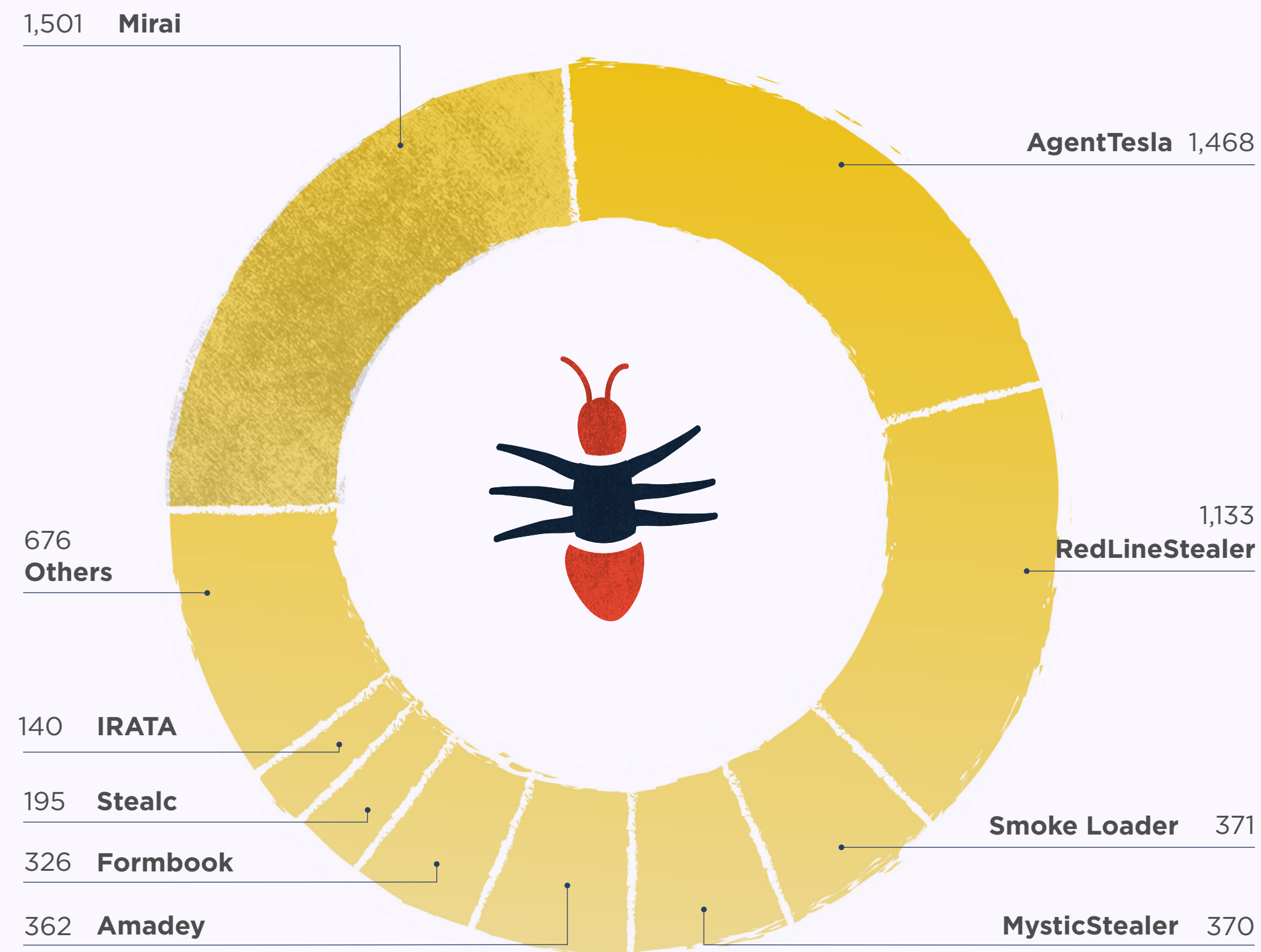
Community is at the heart of abuse.ch, so a special thanks to all those who provide malware samples. Those listed below have submitted the largest number of samples to MalwareBazaar over this month.

RANK	# OF MALWARE SAMPLES	% CHANGE	CONTRIBUTOR
01	1,287	⬆️ +337.76	@andretavare5
02	475	— New entry	@elfdigest
03	466	⬆️ +146.56	@JAMESWT_MHT
04	428	⬇️ -16.89	@cocaman
05	398	⬆️ +36.30	@lowmal3
06	213	⬇️ -14.11	@adrian__luca
07	204	— New entry	@r3dbU7z
08	164	— New entry	@Turkeytmfounder
09	136	— New entry	@onecert_ir
10	131	⬆️ +43.96	@TeamDreier
11	101	⬇️ -25.19	@smica83
12	91	⬇️ -18.02	@malwarelabnet
13	85	⬆️ +37.10	@jstrosch
14	84	⬆️ +18.31	@Porcupine
15	78	— New entry	@monitorsg



## 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

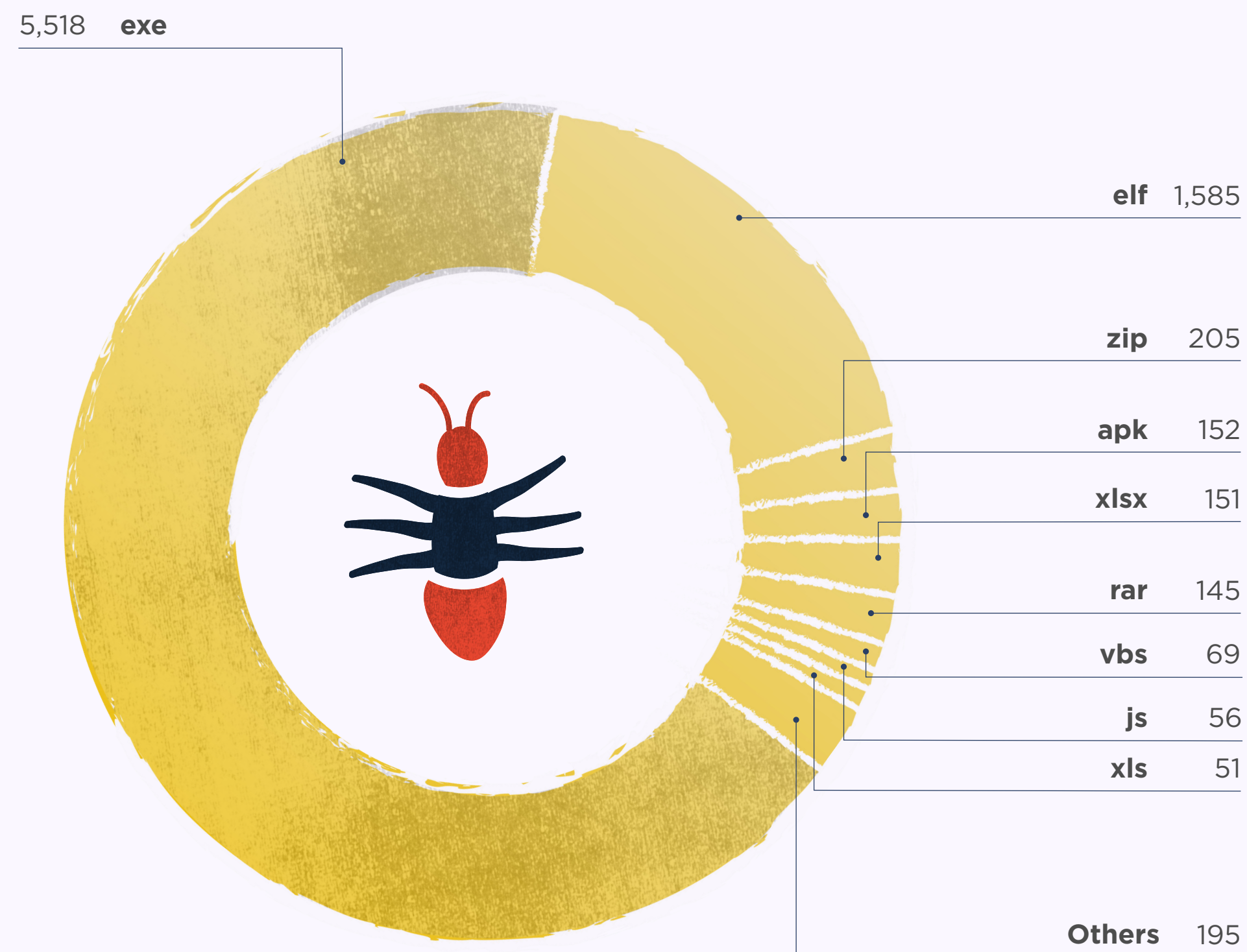
The following table shows the malware families that experienced the greatest percentage increases this month, compared to the previous one.

RANK	MALWARE FAMILY	% CHANGE	LAST 3 MONTHS	# OF SAMPLES
01	AsyncRAT	▲ +15.66		96
02	SnakeKeylogger	▲ +14.41		135
03	RedLineStealer	▲ +6.38		1,133
04	AgentTesla	▼ -3.36		1,468
05	RemcosRAT	▼ -7.14		130
06	Mirai	▼ -10.65		1,501
07	Formbook	▼ -30.49		326
08	Loki	⚡ -43.94		111
09	Amadey	⚡ -46.29		362
10	Smoke Loader	— New entry		371
10	MysticStealer	— New entry		370
10	Stealc	— New entry		195
10	IRATA	— New entry		140
10	DarkGate	— New entry		106
10	Backdoor.TeamViewer	— New entry		98



## 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	2,799	NET	malware-lu
02	2,566	DebuggerCheck__API	n/a
03	1,780	maldoc_find_kernel32_base_method_1	Didier Stevens
04	1,335	NETexecutableMicrosoft	malware-lu
05	782	cobalt_strike_tmp01925d3f	The DFIR Report
06	762	linux_generic_ipv6_catcher	@_lubiedo
07	730	myMirai	n/a
08	723	MALWARE_Win_RedLine	ditekSHen
09	652	INDICATOR_EXE_Packed_ConfuserEx	ditekSHen
10	620	unixredflags3	Tim Brown @ timb_machine
11	524	PE_Digital_Certificate	albertzsigovits
12	508	redline_stealer_1	Nikolaos 'nOt' Totosis
13	495	detect_Redline_Stealer	VarpOs
14	482	win_smokeloader_a2	pnx
15	474	ThreadControl__Context	n/a



# 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.

## INDICATORS OF COMPROMISE (IOCs)

27,379

Indicators of  
compromise (IOCs)  
shared on ThreatFox

+206.1%

increase on  
the previous month

5,129

IOCs relating  
to NJRAT

+2,149.56%

increase on  
the previous month

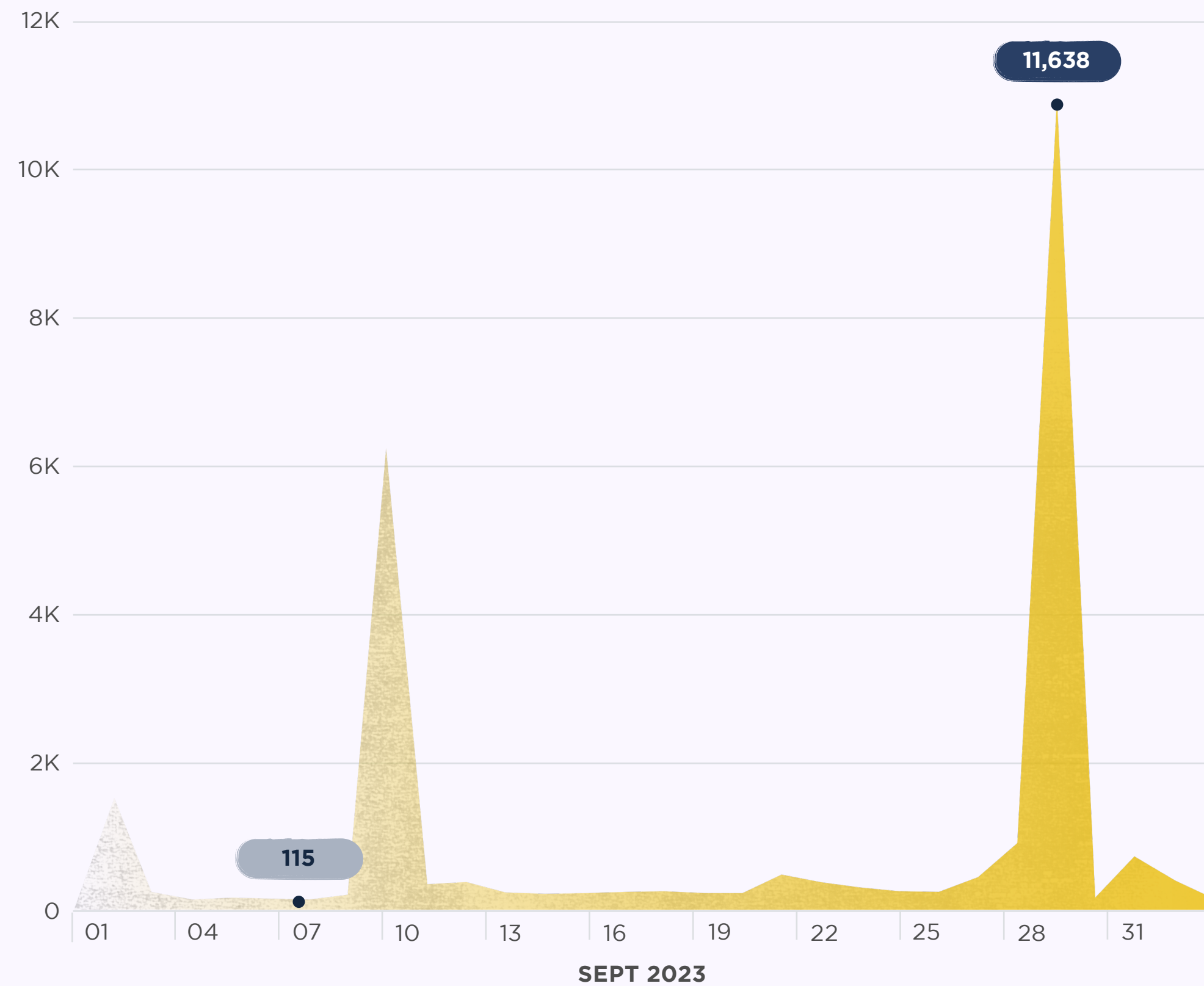
Explore ThreatFox





## 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

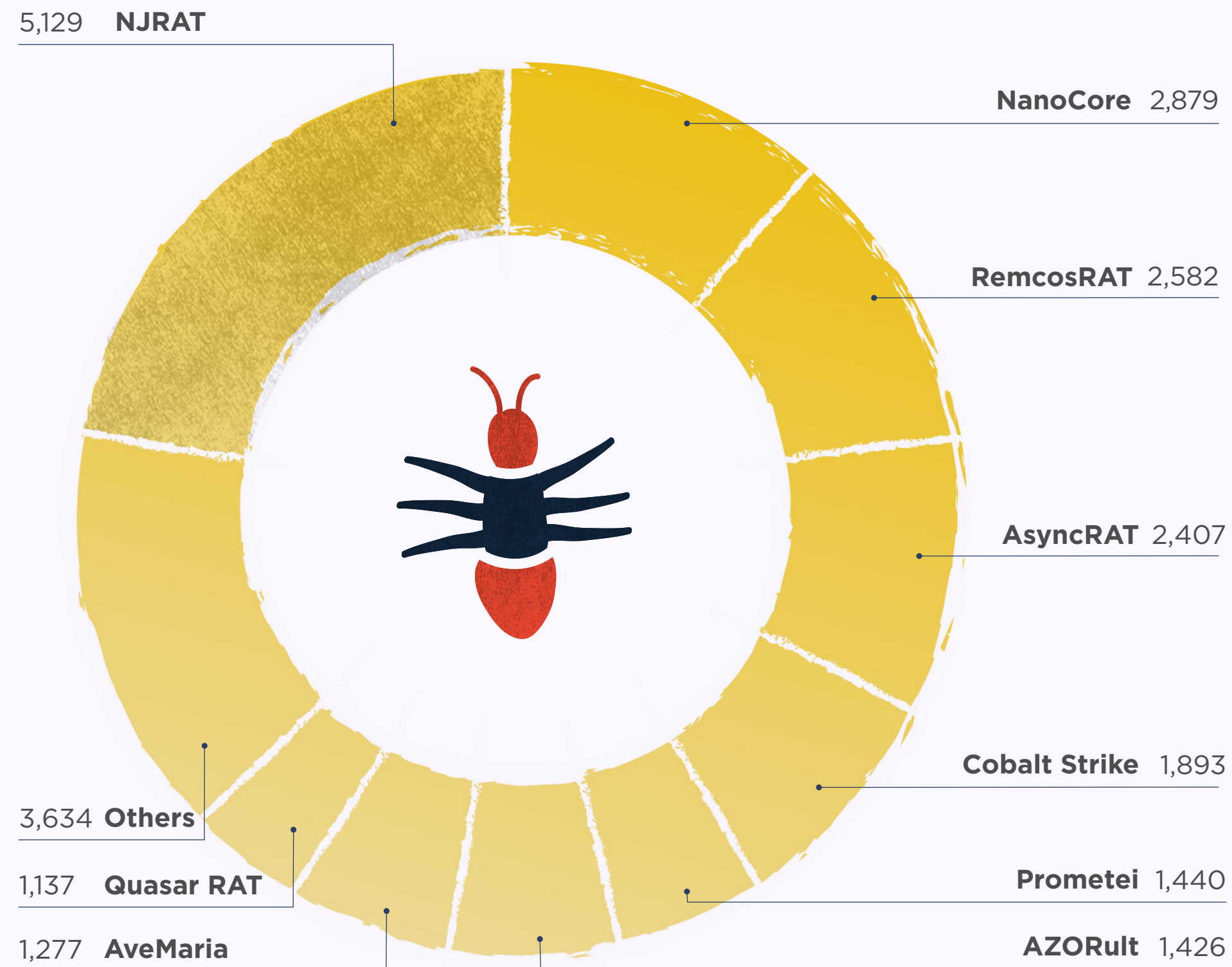
An IOC can be a domain name, IP address, or file hash. The following table identifies and explains the most common IOC types reported this month.

RANK	# OF IOCS	IOC TYPE	THREAT TYPE	EXPLANATION
01	15,819	domain	botnet_cc	Domain that is used for botnet Command&control (C&C)
02	6,914	ip:port	botnet_cc	ip:port combination that is used for botnet Command&control (C&C)
03	3,319	url	botnet_cc	URL that is used for botnet Command&control (C&C)
04	546	url	payload_delivery	URL that delivers a malware payload
05	473	domain	payload_delivery	Domain name that delivers a malware payload
06	177	md5_hash	payload	MD5 hash of a malware sample (payload)
07	153	sha256_hash	payload	SHA256 hash of a malware sample (payload)
08	22	ip:port	payload_delivery	ip:port combination that delivers a malware payload



## 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

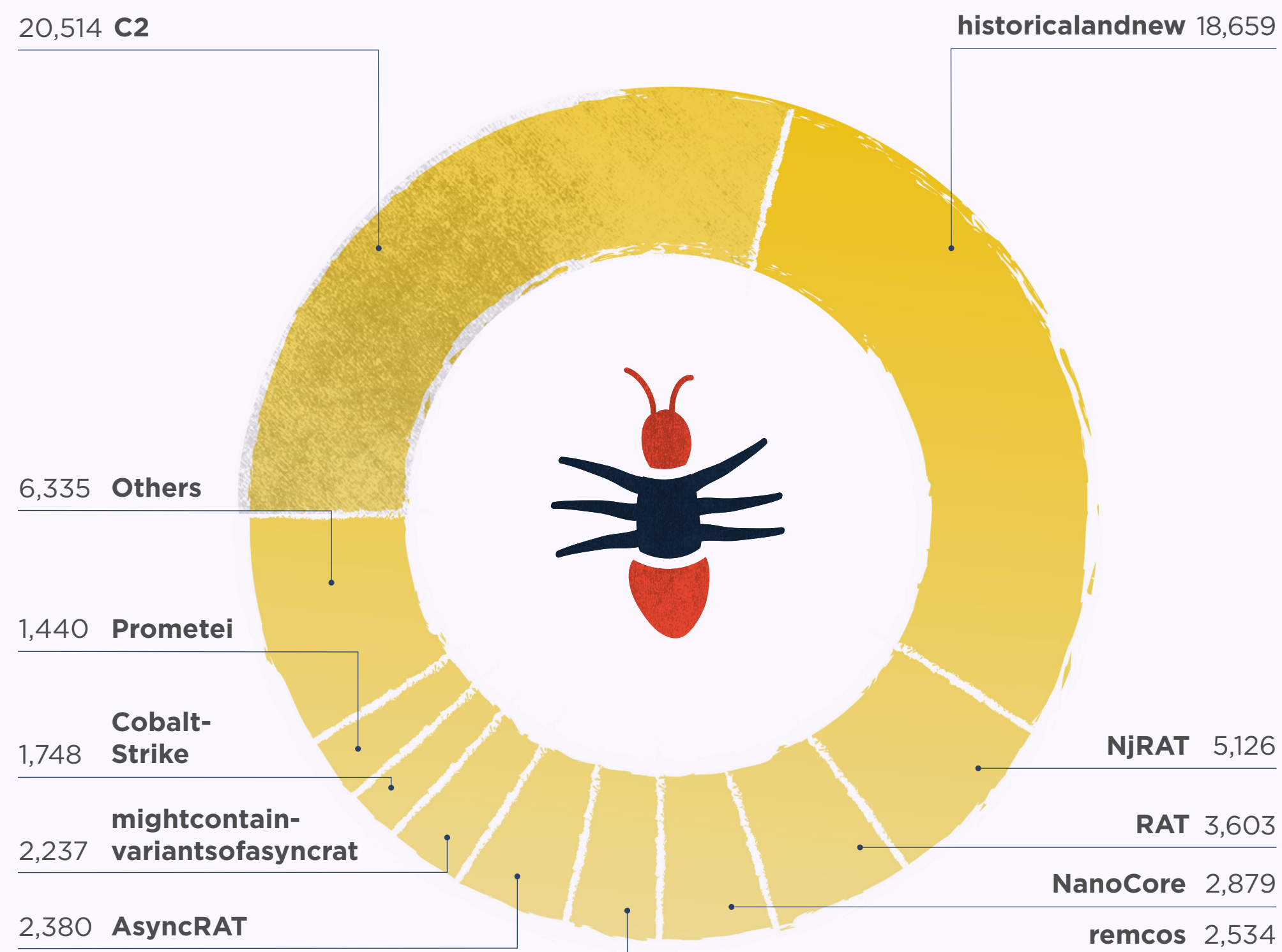
The following table shows the malware families that experienced the greatest percentage increases this month, compared to the previous one.

RANK	MALWARE FAMILY	% CHANGE	LAST 3 MONTHS	# OF IOCS
01	NJRAT	⬆️ +2,149.56		5,129
02	RemcosRAT	⬆️ +1,392.49		2,582
03	CryptBot	⬆️ +733.66		842
04	IRATA	⬆️ +574.07		1,092
05	IcedID	⬆️ +200.00		501
06	Cobalt Strike	⬆️ +3.33		1,893
07	Prometei	⬇️ -0.07		1,440
08	NanoCore	— New entry		2,879
08	AsyncRAT	— New entry		2,407
08	AZORult	— New entry		1,426
08	AveMaria	— New entry		1,277
08	Quasar RAT	— New entry		1,137
08	Gozi	— New entry		533
08	BitRAT	— New entry		359
08	Xworm	— New entry		307



## 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	RAT	⬆️ +1,280.46	<u>3,603</u>
02	C2	⬆️ +844.91	<u>20,514</u>
03	DGA	> 0.00	<u>1,440</u>
03	Prometei	⬇️ -0.07	<u>1,440</u>
04	CobaltStrike	⬇️ -4.17	<u>1,748</u>
05	historicalandnew	— New entry	<u>18,659</u>
05	NjRAT	— New entry	<u>5,126</u>
05	NanoCore	— New entry	<u>2,879</u>
05	remcos	— New entry	<u>2,534</u>
05	AsyncRAT	— New entry	<u>2,380</u>
05	mightcontainvariantsofasyncrat	— New entry	<u>2,237</u>
05	AZORult	— New entry	<u>1,426</u>
05	warzonerat	— New entry	<u>1,260</u>
05	QuasarRAT	— New entry	<u>1,123</u>
05	IRATA	— New entry	<u>1,086</u>



# YARAIIFY

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]

## YARAIIFY STATISTICS

3,008,981

File scans conducted on YARAify

+25.2%

increase in file scans on the previous month

2,530,996

Distinct files that had scans performed on them

+28.5%

increase in distinct files on the previous month

17,874

YARA rules deployed on YARAify and available for hunting

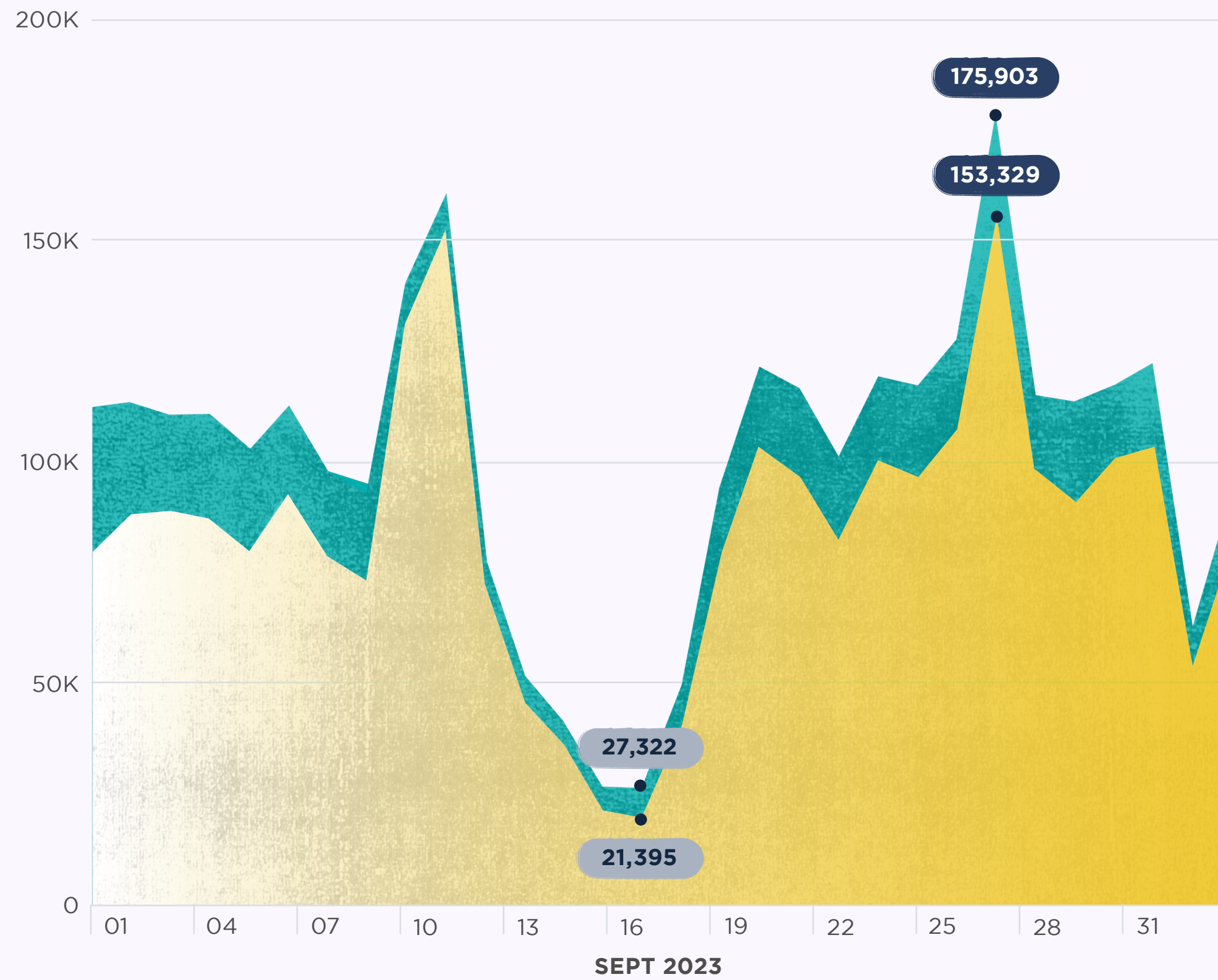
Explore YARAify





### FILES SCANNED PER DAY

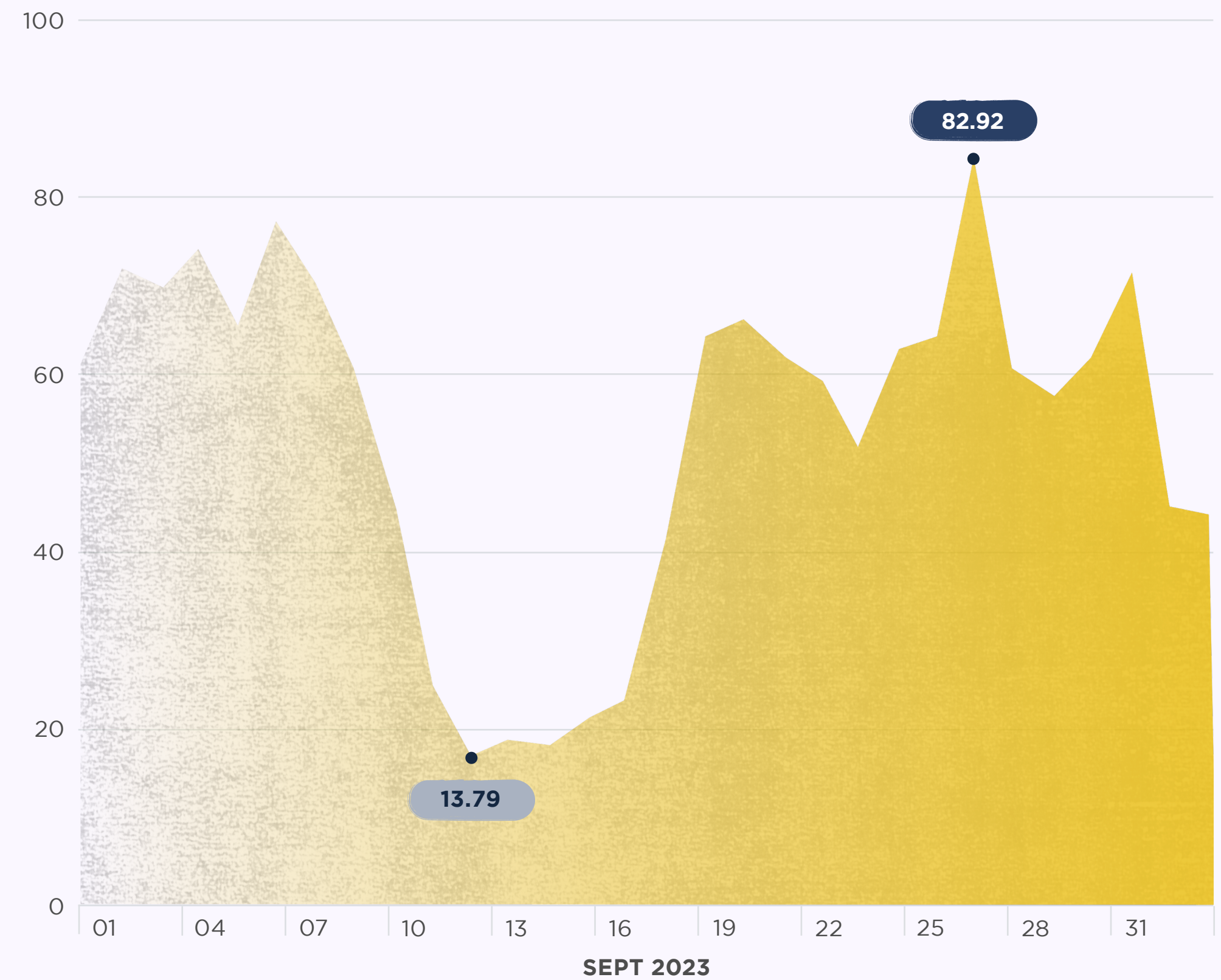
The chart below shows the number of file scans conducted by YARAify this month.



● # of files scanned ● # of new files

### 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	1,208,227	⬆️ +87.73	maldoc_getEIP_method_1	Didier Stevens
02	310,315	⬇️ -18.30	DebuggerCheck__API	n/a
03	227,157	— New entry	mal_rndwormie	Nikolaos 'nOt' Totosis
04	212,840	⬆️ +23.31	NET	malware-lu
05	184,839	⬇️ -19.53	UPXV200V290MarkusOberhumerLaszloMolnar-JohnReiser	malware-lu
06	179,579	⬇️ -9.24	maldoc_find_kernel32_base_method_1	Didier Stevens
07	168,287	⬇️ -15.31	UPXv20MarkusLaszloReiser	malware-lu
08	111,335	⬇️ -12.09	RIPEMD160_Constants	phoul (@phoul)
08	111,335	⬇️ -12.09	SHA1_Constants	phoul (@phoul)
09	74,375	⬇️ -32.60	DebuggerException__SetConsoleCtrl	n/a
10	74,183	⬇️ -31.70	MD5_Constants	phoul (@phoul)
11	62,049	— New entry	SEH__vba	n/a
12	56,356	⬇️ -28.34	Borland	malware-lu
13	51,476	⬇️ -30.41	ThreadControl__Context	n/a
14	49,916	⬇️ -35.42	Check_OutputDebugStringA_iat	n/a

## 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	959,186	⬆️ +167.41	PUA.Win.Packer.Lccwin-2
02	650,724	⬆️ +169.44	Win.Trojan.Obfus-38
03	482,142	⬆️ +211.71	Win.Trojan.Qukart-6874817-0
04	275,765	⬆️ +165.84	Win.Trojan.Padodor-9877164-0
05	231,977	⬆️ +189.71	Win.Malware.Qukart-6838239-0
06	212,608	⬆️ +76.51	Win.Trojan.Crypted-30
07	211,909	⬆️ +75.92	Win.Trojan.Crypted-29
08	102,259	⬆️ +91.90	Win.Trojan.Crypted-28
09	93,499	⬇️ -24.19	Win.Malware.Dqqw-9951425-0
10	93,381	⬇️ -23.82	Win.Trojan.QQPass-5710308-0
10	93,381	⬇️ -23.82	Win.Malware.Zusy-6804618-0
11	76,660	⬆️ +55.78	Win.Trojan.Crypted-31
12	55,469	⬆️ +33.31	Win.Packed.Lazy-10005437-0
13	55,273	⬆️ +35.37	Win.Trojan.Berbew-9845290-1
14	41,527	⬆️ +63.26	Win.Trojan.Qbot-10002723-0



# LOOK OUT FOR THE NEXT MALWARE DIGEST EARLY IN NOVEMBER

Remember, sharing is caring.