

LockBit and Black Basta Are the Most Active RaaS Groups as Victim Count Rises

Ransomware in Q2 and Q3 2022

This data sheet collates relevant information on the ransomware threat landscape for the second and third quarters of 2022, obtained from ransomware-as-a-service (RaaS) and extortion groups' leak sites, Trend Micro's open-source intelligence (OSINT) research, and the Trend Micro™ Smart Protection Network™. The data presented here describes ransomware activity in general and the four most prominent ransomware families in the threat landscape during the six-month span.

	APR	MAY	JUN	JUL	AUG	SEP
Email threats	582,985	791,076	685,258	571,420	385,555	563,870
URL threats	255,075	248,201	263,470	224,040	153,727	116,508
File threats	301,265	296,912	168,191	1,773,642	185,052	164,296
Total	1,139,325	1,336,189	1,116,919	2,569,102	724,334	844,674
Quarterly total:	3,592,433			4,138,110		

Table 1. The numbers of ransomware threats detected and blocked by Trend Micro across email, URL, and file layers per month in the second and third quarters of 2022

Source: Trend Micro™ Smart Protection Network™

	Q2	Q3
Total active RaaS and extortion groups	26	30
Victim organizations	591	700

Table 2. The numbers of active RaaS and extortion groups and victim organizations of successful ransomware attacks in the second and third quarters of 2022

Source: RaaS and extortion groups' leak sites

Q2		Q3	
Industry	Victim count	Industry	Victim count
Professional services	50	IT	72
Finance	44	Finance	52
Healthcare	44	Healthcare	51
IT	44	Construction	50
Construction	43	Professional services	45
Manufacturing	41	Manufacturing	43
Materials	32	Materials	40
Transportation	30	Academe	32
Academe	28	Food and staples	29
Government	27	Unknown	53

Table 3. The top 10 industries affected by successful RaaS and extortion attacks in terms of victim organizations in the second and third quarters of 2022

Source: RaaS and extortion groups' leak sites and Trend Micro's OSINT research

Segment	APR	MAY	JUN	Total
Enterprise	11,965	13,625	11,373	36,963
Consumer	2,899	2,762	2,404	8,065
SMB	1,204	1,402	1,782	4,388

Table 4. The number of ransomware file detections in machines in each business segment per month in the second quarter of 2022

Source: Trend Micro Smart Protection Network

Segment	JUL	AUG	SEP	Total	Percentage of growth in Q2 vs. Q3
Enterprise	29,983	8,624	6,456	45,063	21.9%
Consumer	2,355	3,739	4,081	10,175	26.2%
SMB	993	1,015	1,310	3,318	-24.4%

Table 5. The number of ransomware file detections in machines in each business segment per month in the third quarter of 2022

Source: Trend Micro Smart Protection Network

Q2		Q3	
Country	Victim count	Country	Victim count
United States	241	United States	280
Germany	39	United Kingdom	36
United Kingdom	34	France	32
Canada	30	Germany	32
Italy	28	Spain	31
France	22	Canada	21
Australia	12	Italy	18
Spain	12	Australia	15
Brazil	11	Brazil	12
Mexico	10	Unknown	53

Table 6. The top 10 countries affected by successful RaaS and extortion attacks in terms of victim organizations in the second and third quarters of 2022

Source: RaaS and extortion groups' leak sites and Trend Micro's OSINT research

Q2		Q3	
Ransomware family	Number of victim organizations	Ransomware family	Number of victim organizations
LockBit	206	LockBit	230
BlackCat	54	Karakurt	59
Black Basta	51	Black Basta	50

Table 7. The top three ransomware families used in successful RaaS and extortion attacks in terms of victim organizations in the second and third quarters of 2022

Source: RaaS and extortion groups' leak sites

Q2				Q3			
Organization size	LockBit	BlackCat	Black Basta	Organization size	LockBit	Karakurt	Black Basta
Small (1 to 200 employees)	133	30	22	Small (1 to 200 employees)	133	30	22
Medium (201 to 1,000 employees)	38	13	18	Medium (201 to 1,000 employees)	28	15	19
Large (more than 1,001 employees)	25	11	11	Large (more than 1,001 employees)	32	14	8
Unknown	10	0	0	Unknown	37	0	3
Total	206	54	51	Total	230	59	50

Table 8. The distribution by organization size of LockBit, BlackCat, Karakurt, and Black Basta's successful attacks in terms of victim organizations in the second and third quarters of 2022

Source: LockBit, BlackCat, and Black Basta's leak sites and Trend Micro's OSINT research

APR		MAY		JUN	
Ransomware Family	Target Count	Ransomware Family	Target Count	Ransomware Family	Target Count
Locky	949	Locky	954	Locky	969
Cerber	534	Zeppelin	944	Cerber	394
GandCrab	507	BlackByte	547	GandCrab	388
StopCrypt	370	Cerber	516	StopCrypt	328
LockBit	342	GandCrab	463	BlackCat	272
BlackCat	291	LockBit	356	Maze	225
Mount Locker	223	StopCrypt	327	LockBit	211
Crypwall	222	BlackCat	291	Hive	210
Sodinokibi	203	Sodinokibi	220	Mount Locker	190
Maze	200	Maze	197	Crypwall	181

Table 9. The top 10 ransomware families in terms of ransomware file detections in machines in the second quarter of 2022, with notable ransomware families highlighted

Source: Trend Micro Smart Protection Network

JUL		AUG		SEP	
Ransomware Family	Target Count	Ransomware Family	Target Count	Ransomware Family	Target Count
Locky	13,322	Locky	1,074	Magniber	914
Cerber	3,511	Cerber	440	Locky	790
GandCrab	623	Magniber	312	Cerber	282
Blackhole	571	StopCrypt	299	LockBit	211
Cryakl	497	Cobra	242	Cobra	200
Crypwall	397	GandCrab	203	StopCrypt	177
BlackCat	395	LockBit	163	BlackCat	175
Jskorbat	389	Hive	158	GandCrab	138

Table 10. The top 10 ransomware families in terms of ransomware file detections in machines per month in the third quarter of 2022, with notable ransomware families highlighted

Source: Trend Micro Smart Protection Network

APR		MAY		JUN	
Industry	File detections	Industry	File detections	Industry	File detections
Healthcare	695	Healthcare	954	Fast-moving consumer goods	890
Fast-moving consumer goods	611	Fast-moving consumer goods	746	Manufacturing	610
Retail	294	Government	689	Healthcare	556

Table 11. The top three industries in terms of ransomware file detections in machines per month in the second quarter of 2022

Source: Trend Micro Smart Protection Network

JUL		AUG		SEP	
Industry	File detections	Industry	File detections	Industry	File detections
Fast-moving consumer goods	650	Banking	721	Banking	780
Technology	413	Fast-moving consumer goods	674	Government	350
Healthcare	250	Technology	243	Telecommunications	348

Table 12. The top three industries in terms of ransomware file detections in machines per month in the third quarter of 2022

Source: Trend Micro Smart Protection Network

APR			MAY			JUN		
Industry	Ransomware family	Detections	Industry	Ransomware family	Detections	Industry	Ransomware family	Detections
Healthcare	Maze	21	Healthcare	Zeppelin	815	Fast-moving consumer goods	Cerber	48
	Cerber	18		Locky	12		Locky	44
	Locky	12		FileCoder	2		GandCrab	33
Fast-moving consumer goods	Cerber	37	Fast-moving consumer goods	Cerber	45	Manufacturing	Gorf	55
	Locky	33		Locky	41		Cerber	24
	Crypwall	26		Crypwall	31		Locky	24
Retail	Mount Locker	22	Government	BlackByte	487	Healthcare	Cerber	28
	GandCrab	22		Locky	26		Locky	28
	BlackCat	20		Knowbe	6		Crypwall	20

Table 13. The top three industries in terms of ransomware file detections in machines in the top affected industries per month in the second quarter of 2022

Source: Trend Micro Smart Protection Network

JUL			AUG			SEP		
Industry	Ransomware family	Detections	Industry	Ransomware family	Detections	Industry	Ransomware family	Detections
Fast-moving consumer goods	Cerber	37	Banking	Cerber	37	Banking	Cerber	37
	Locky	32		Locky	32		Locky	32
	Crypwall	26		Crypwall	26		BlackCat	27
Technology	BlackCat	36	Fast-moving consumer goods	Cerber	37	Government	Magniber	61
	LokiLocker	22		Locky	32		Locky	8
	Mount Locker	22		Crypwall	26		Cerber	7

JUL			AUG			SEP		
Industry	Ransomware family	Detections	Industry	Ransomware family	Detections	Industry	Ransomware family	Detections
Healthcare	Locky	11	Technology	Hive	13	Technology	Maze	14
	Scarab	9		Virlock	8		Scara	7
	Airacrop	6		Locky	7		Clop	6

Table 14. The top three industries in terms of ransomware file detections in machines in the top affected industries per month in the third quarter of 2022

Source: Trend Micro Smart Protection Network

Segment	APR		MAY		JUN	
Enterprise	GandCrab	454	Zeppelin	938	GandCrab	328
	Cerber	373	BlackByte	546	Locky	311
	Locky	353	GandCrab	407	Cerber	289
	BlackCat	289	Cerber	370	BlackCat	261
	LockBit	257	Locky	361	Maze	220
Consumer	Locky	231	Locky	203	Locky	176
	StopCrypt	211	StopCrypt	183	StopCrypt	152
	Cerber	103	Cerber	86	LockBit	67
	Gorf	53	LockBit	64	Cerber	52
	LockBit	49	Gorf	49	Gorf	46
SMB	StopCrypt	33	LockBit	85	Hive	91
	LockBit	22	Macaw	34	LockBit	38
	Macaw	20	Gorf	28	Cerber	37
	Makop	11	Maze	18	Macaw	36
	Crysis	11	Quantum Locker	18	Locky	35

Table 15. The top five ransomware families in terms of ransomware file detections in machines per business segment and per month in the second quarter of 2022, with notable ransomware families highlighted

Source: Trend Micro Smart Protection Network

Segment	JUL		AUG		SEP	
Enterprise	Locky	12,738	Locky	517	Magniber	270
	Cerber	3,411	Cerber	307	Locky	208
	GandCrab	595	Cobra	207	Cerber	175
	Blackhole	568	GandCrab	176	Cobra	167
	Cryakl	488	Maze	146	LockBit	137
Consumer	Locky	198	Magniber	257	Magniber	613
	StopCrypt	104	StopCrypt	191	Locky	238
	Cerber	63	Locky	188	StopCrypt	109
	LockBit	49	Cerber	69	Cerber	62
	Crawl	36	LockBit	57	LockBit	43
SMB	Locky	76	Cerber	36	BlackCat	88
	Macaw	40	Locky	34	Black Basta	30
	Ryuk	14	StopCrypt	24	LockBit	30
	StopCrypt	9	Conti	16	Magniber	29
	Conti	8	TargetCompany	10	Gorf	20

Table 16. The top five ransomware families in terms of ransomware file detections in machines in per business segment and per month in the third quarter of 2022, with notable ransomware families highlighted

Source: Trend Micro Smart Protection Network

JUL									
United States		France		Netherlands		Singapore		Japan	
10,100		8,612		2,954		2,060		1,162	
Locky	4,775	Locky	5,721	Locky	1,586	Locky	581	Locky	391
Cerber	1,569	Cerber	1,263	Cerber	292	Cerber	163	Cerber	47
Jsxorbat	287	Cryakl	229	Blackhole	118	Blackhole	159	LockBit	39
Blocker	254	GandCrab	159	Cryakl	110	Makop	47	DrodZp-A	36
Crypwall	204	Blackhole	106	Gorf	92	GandCrab	47	Inject	24
Blackhole	185	Crypwall	106	Makop	70	Stupid	31	DwnLdr	21
CRYPCTB	152	CRYPCTB	102	GandCrab	43	Spora	30	Crawl	18
Cryakl	130	Crilock	83	Zeppelin	40	Sodinokibi	28	Cryptoload	17
GandCrab	102	Jsxorbat	73	CRYPCTB	25	DarkSide	28	Gorf	17
Spora	93	Cribit	49	Foold	22	Conti	27	JSDldr	16

Table 17. The top 10 ransomware families in the top five countries in terms of ransomware file detections in machines in July 2022, with notable ransomware families highlighted

Source: Trend Micro Smart Protection Network

AUG									
Taiwan		United States		Japan		Turkey		Italy	
2,053		1,662		1,178		866		861	
Magniber	298	Locky	318	Locky	397	Cerber	54	Cerber	72
Convagent	51	Cerber	102	LockBit	44	Locky	39	Locky	52
StopCrypt	50	Maze	36	Cerber	33	GandCrab	28	Crypwall	28
Roduk	30	Encoder	31	DrodZp-A	32	Crypwall	36	GandCrab	23
Crypmod	24	Zeppelin	20	DwnLdr	19	Cryptesla	20	CRYPCTB	18
Ako	23	Blackhole	18	Cryptoload	15	StopCrypt	18	Cryptesla	16
Cobra	19	GandCrab	16	Inject	15	Crilock	15	Crilock	13
Conti	12	Black Basta	15	Gorf	14	Conti	14	Spora	11
Encoder	8	StopCrypt	13	Black Basta	12	CRYPCTB	13	Cryptlock	10
Cerber	4	LockBit	13	GandCrab	11	LockBit	12	LockBit	10

Table 18. The top 10 ransomware families in the top five countries in terms of ransomware file detections in machines in August 2022, with notable ransomware families highlighted

Source: Trend Micro Smart Protection Network

SEP									
Taiwan		United States		Japan		Italy		Turkey	
2,625		1,335		1,224		895		833	
Magniber	869	Locky	104	Locky	502	Cerber	38	Cerber	49
StopCrypt	65	Cerber	43	Cerber	49	Locky	38	Locky	35
Convagent	32	BlackCat	37	DrodZp	34	Crypwall	27	Crypwall	28
Crypmod	23	Black Basta	31	LockBit	32	GandCrab	23	GandCrab	36
Roduk	18	Hive	20	Cryptoload	21	Cryptesla	14	Gorf	21
Ako	14	LockBit	16	DwnLdr	21	LockBit	14	Crilock	16
Cobra	13	Crawl	15	Gorf	19	Crilock	12	Cryptesla	14
Vran	11	Zeppelin	13	Crawl	18	CRYPCTB	12	Spora	12
Encoder	10	Encoder	12	Inject	16	Spora	11	CRYPCTB	12
Gorf	8	Sodinokibi	11	JSDldr	15	JSDldr	10	LockBit	11

Table 19. The top 10 ransomware families in the top five countries in terms of ransomware file detections in machines in September 2022, with notable ransomware families highlighted

Source: Trend Micro Smart Protection Network

Q2		Q3	
Industry	Victim count	Industry	Victim count
Construction	17	Construction	21
Healthcare	16	Finance	20
Manufacturing	16	Healthcare	17
Transportation	16	IT	23
Food and staples	15	Materials	16
Others	126	Others	133
Total	206	Total	230

Table 20. The distribution by industry of LockBit’s successful attacks in terms of victim organizations in the second and third quarters of 2022

Source: LockBit’s leak site

Q2		Q3	
Region	Victim count	Region	Victim count
North America	75	Europe	78
Europe	71	North America	76
Asia-Pacific	36	Asia-Pacific	41
Latin America and the Carribean South	11	Latin America and the Carribean South	19
Middle East	7	Africa	5
Africa	5	Eastern Europe	4
Eastern Europe	1	Middle East	3
Unknown	0	Unknown	4
Total	206	Total	230

Table 21. The distribution by region of LockBit’s successful attacks in terms of victim organizations in the second and third quarters of 2022

Source: LockBit’s leak site

Q2		Q3	
Country	Victim count	Country	Victim count
United States	61	United States	68
Germany	15	France	27
Italy	13	Italy	10
France	9	Germany	9
Thailand	8	Taiwan	9
Others	100	Others	107
Total	206	Total	230

Table 22. The distribution by country of LockBit’s successful attacks in terms of victim organizations in the second quarter of 2022

Source: LockBit’s leak site

Industry	Victim count
Finance	9
Legal services	7
Academe	5
Professional services	5
Energy and utilities	4
Manufacturing	4
Construction	3
Government	3
IT	3
Automobile	2
Food and staples	2
Hospitality	2
Apparel and fashion	1
Materials	1
Media and entertainment	1
Retail	1
Transportation	1
Total	54

Table 23. The distribution by industry of BlackCat’s successful attacks in terms of victim organizations in the second quarter of 2022

Source: BlackCat’s leak site

Region	Victim count
North America	32
Europe	13
Asia-Pacific	4
Latin America and the Carribean South	2
Middle East	2
Africa	1
Total	54

Table 24. The distribution by region of BlackCat’s successful attacks in terms of victim organizations in the second quarter of 2022

Source: BlackCat’s leak site

Country	Victim count
United States	27
United Kingdom	5
Canada	3
Germany	2
Italy	2
Kuwait	2
Mexico	2
Argentina	1
Australia	1
Austria	1

Country	Victim count
Ecuador	1
France	1
India	1
Indonesia	1
Nigeria	1
Spain	1
Switzerland	1
Thailand	1
Total	54

Table 25. The distribution by country of BlackCat's successful attacks in terms of victim organizations in the second quarter of 2022

Source: BlackCat's leak site

Karakurt

Industry	Victim count
Professional services	6
Construction	5
Finance	5
Healthcare	5
IT	5
Others	33
Total	59

Table 26. The distribution by industry of Karakurt's successful attacks in terms of victim organizations in the third quarter of 2022

Source: Karakurt's leak site

Region	Victim count
North America	43
Europe	8
Asia-Pacific	2
Latin America and the Caribbean South	2
Africa	2
Eastern Europe	1
Middle East	1
Total	59

Table 27. The distribution by region of Karakurt's successful attacks in terms of victim organizations in the third quarter of 2022

Source: Karakurt's leak site

Country	Victim count
United States	41
United Kingdom	3
Canada	2
Brazil	2
China	2
Others	9
Total	59

Table 28. The distribution by country of Karakurt's successful attacks in terms of victim organizations in the third quarter of 2022

Source: Karakurt's leak site

Black Basta

Q2		Q3	
Industry	Victim count	Industry	Victim count
Construction	8	Construction	6
Apparel and fashion	5	Professional services	5
Manufacturing	5	Materials	5
Materials	5	Transportation	5
Professional services	1	Apparel and fashion	4
Others	23	Others	25
Total	51	Total	50

Table 29. The distribution by industry of Black Basta's successful attacks in terms of victim organizations in the second and third quarters of 2022

Source: Black Basta's leak site

Q2		Q3	
Region	Victim count	Region	Victim count
North America	28	North America	32
Europe	22	Europe	17
Asia-Pacific	1	Asia-Pacific	1
Total	51	Total	50

Table 30. The distribution by region of Black Basta's successful attacks in terms of victim organizations in the second and third quarters of 2022

Source: Black Basta's leak site

Q2		Q3	
Country	Victim count	Country	Victim count
United States	24	United States	30
Germany	11	Germany	11
Canada	4	Canada	2
France	2	Austria	2
Italy	2	Australia	1
Others	8	Others	4
Total	51	Total	50

Table 31. The distribution by country of Black Basta’s successful attacks in terms of victim organizations in the second and third quarters of 2022

Source: Black Basta’s leak site

