Detailing Daily Domain Hunting

pylos.co/2022/11/23/detailing-daily-domain-hunting/ Joe

11/23/2022



Updated 23 Nov 1355 MST: Added some additional observations related to logon spoofing infrastructure.

Domain "hunting" is a process of identifying new (or at least, newly identified) network infrastructure associated with threat actors of interest. Such a process does not start in a void, but rather requires understanding tendencies and patterns associated with adversary infrastructure creation and management. This is especially effective when viewing individual network observables – or indicators – as <u>natural composite objects</u>, items that accrue multiple sub-observations relating to the given object's creation, use, and potentially even <u>intention</u>.

One historical example of such activity is <u>ThreatConnect's analysis</u> of (then) long-running infrastructure tendencies linked to <u>APT28</u>, also known as <u>FancyBear</u>, but <u>associated with Russian Military Intelligence (GRU) 85th Main Special Service Center</u> (GTsSS). ThreatConnect's reporting publicized patterns used by intelligence professionals for several years prior, using a combination of x509 certificate information, domain registration tendencies, and domain hosting patterns to identify new APT28 infrastructure with high confidence as it was created. Unfortunately, the adversary largely migrated away from these patterns shortly after the blog's publication, but the overall idea remains a solid mechanism to <u>systematize external threat hunting</u> as well as implementing an <u>intelligence-driven pivoting process</u>.

There are multiple ways to approach domain hunting and tracking. One reasonable mechanism is to utilize internal visibility of newly-observed network objects or external feeds such as <u>DomainTools</u> to look for infrastructure objects fitting certain patterns based on domain sub-characteristics. Using this methodology, the following domain came to light on 22 November 2022:

msn-imap[.]com

Even at first glance, this appears suspicious given naming conventions, spoofing a combination of <u>MSN</u> and <u>IMAP</u> services. Further research, in this case using DomainTools Iris Investigate, shows further details that call this item out as likely malicious:

Q Inspect: msn-imap.com				🖶 🗶
Domain Profile Screenshot Histor	y Whois History Hosting History	SSL Profile		
	Та	ags		Screenshots
Find or create a tag to add			+ Add	No screenshot available.
	Risk S	Score		
7				
Overa	ll Score	Threat	: Profile	
	Supporting	; Evidence		
56	31		15	
Phishing	∰ Malware	🖌 Spam	🗢 Proximity	
	Domair	n Details		l
Recently Resolved As				
msn-imap.com			92.38.135.213	
	r Vie	w pDNS		
Email				
 9a79981fef9b4a20f8c1bb437683 abuse@support.gandi.net ~2,928, dns@openprovider.eu ~830,616 s 		are this value		
Registrant				
REDACTED FOR PRIVACY ~113,1 Country: Netherlands - (NL)	153,324 share this value			
Registrant Org				
• REDACTED FOR PRIVACY ~46,94	48,527 share this value			

DomainTools Iris Screenshot

Name Servers	No screenshot available.
 ns1.openprovider.nl ~844,500 share this value ns2.openprovider.bE ~0 share this value ns2.openprovider.be ~838,415 share this value ns3.openprovider.eu ~837,260 share this value 	
IP Address	
• 92.38.135.213 ~1 share this value	
IP Location	
92.38.135.213 • Country: Korea, Republic Of • Region: Seoul Teukbyeolsi • City: Seoul • ISP: G-core Labs S.a.	
ASN	
• AS202422 G-CORE LABS S.A., KR	
SSL	
No Results	
Domain Status	
• Active	
Whois History	
1 record have been archived since 2022-11-20	
r View Whois History	
Name Server History	
• 1 change on 2 unique name servers over 0 years	

DomainTools Iris ScreenShot

We can spot several items that look suspicious here – anonymized registration, dedicated hosting (on IP address 92.38.135.213), suspicious authoritative name server use – but unfortunately there's very little to pivot on to learn more about this item (or identify related infrastructure) using just domain information.

We can dig further by looking at the hosting address. In this case, using Censys Search we can profile this further:

🔘 censys	Q Hosts ~ 🎄 92.38.135.213	x x* Search Register Log In
92.38.135. As of: Nov 22, 2022 8:54an		
🖵 Summary 🧥 Ex	olore 🔊 History 📓 WHOIS	🖶 Raw Data 🗸
Basic Information		W a Pyongyang
Reverse DNS	onkrdot.info	35°08'58.6"N 126°54'5
	Ubuntu Linux	 View larger map
	GHOST (LU)	
	92.38.135.0/24 via AS202422	ong Yellow Sea 무산
-	22/SSH, 25/SMTP, 80/HTTP, 443/HTTP	Jeju 제중 +
22/SSH 🚥	Observed Nov 21, 2	1022 at 5:31pm UTC
Software		VIEW ALL DATA
Ubuntu Linux 20	0.04 🕜	Geographic Location
Q OpenBSD Open	SSH 8.2 📝	Province Gwangju
		Country South Korea (KR)
Details		Coordinates 35.1496, 126.9156
Host Key	ecdsa-sha2-nistp256	Timezone Asia/Seoul
-	2f94e03bb97d21d1c36d6659613388bea07d10dfa81abb50ea8b9ac6b663f0	12
	213460300370210103000039013300064070100140140030068809800000310	19
Negotiated		
	curve25519-sha256@libssh.org	
Symmetric Cipher	aes128-ctr [土] aes128-ctr [土]	
MAC	hmac-sha2-256 [🏝] hmac-sha2-256 [基]	

Censys Search Screenshot

25/SMTP 🚥

Observed Nov 22, 2022 at 8:54am UTC

Software		VIEW ALL DATA
🔍 linux 🗹		
🔍 Postfix 🗹		
Q Ubuntu Linux 🛛	8	
Details		
Banner	220 onkrdot.info ESMTP Postfix (Ubuntu)	
EHLO	250-onkrdot.info 250-PIPELINING 250-SIZE 10240000 250-VRFY 250-ETRN 250-STARTTLS 250-ENHANCEDSTATUSCODES 250-BBITMIME 250-DSN 250-SMTPUTF8 250 CHUNKING	
Start TLS	220 2.0.0 Ready to start TLS	
TLS		

Fingerprint

JA3S 475c9302dc42b2751db9edcac3b74891

Handshake

Version Selected TLSv1_3

Cipher Selected TLS_CHACHA20_POLY1305_SHA256

Leaf Certificate

8e5fc62dccc79ac902da74dc00d2ed36c4e7f7ccee7b201ecded0b3c1bcb29f9 CN=vps.hostry.com CN=vps.hostry.com

Censys Search Screenshot

80/HTTP 🚥

Observed Nov 22, 2022 at 12:21am UTC

Software	7	VIEW ALL DATA 🔷 GO
Apache HTTPD		
Details		
http://92.38.135.213		
Request	GET /	
Protocol	HTTP/1.1	
Status Code	302	
Status Reason	Found	
Body Hash	sha1:7b1c377cea51ac93e6f84ab5e60dc597cb25e0c1	
HTML Title	302 Found	
Response Body	EXPAND	
443/HTTP	ТСР	Observed Nov 22, 2022 at 12:21am UTC
Software		VIEW ALL DATA 🛛 🔶 GO
Software	2	VIEW ALL DATA 🔶 GO
		VIEW ALL DATA 🔶 GO
Q Ubuntu Linux Q Apache HTTPD		VIEW ALL DATA 🔶 GO
Q Ubuntu Linux (Q Apache HTTPD Details		VIEW ALL DATA 🔶 GO
Q Ubuntu Linux (Q Apache HTTPD Details	2.4.41 🔽	VIEW ALL DATA 🔶 GO
Q Ubuntu Linux (Q Apache HTTPD Details https://92.38.135.213 Request	2.4.41 🔽	VIEW ALL DATA
Q Ubuntu Linux (Q Apache HTTPD Details https://92.38.135.213 Request	GET / HTTP/1.1	VIEW ALL DATA 🔶 GO
Q Ubuntu Linux (Q Apache HTTPD Details https://92.38.135.213 Request Protocol	GET / HTTP/1.1 200	VIEW ALL DATA 🔶 GO
Q Ubuntu Linux (Q Apache HTTPD Details https://92.38.135.213 Request Protocol Status Code Status Reason	GET / HTTP/1.1 200	
Q Ubuntu Linux (Q Apache HTTPD Details https://92.38.135.213 Request Protocol Status Code Status Reason Body Hash	GET / HTTP/1.1 200 OK	
Q Apache HTTPD Details https://92.38.135.213 Request Protocol Status Code Status Reason Body Hash	GET / HTTP/1.1 200 OK sha1:c002186216f972bb72f8193cdab9717452aad212 404 Not Found	

Fingerprint

JA3S 15af977ce25de452b96affa2addb1036

Censys Search Screenshot

Now we're starting to get more details on how this object might be used by an adversary, as well as other observables that can be used for searching, hunting, and follow-on pivoting. Among other items, we've learned the following:

- The adversary's infrastructure characteristics:
 - Ubuntu Linux
 - Postfix SMTP server
 - Apache HTTP/HTTPS server
 - Use of Let's Encrypt SSL/TLS certificates
- · JA3S hashes for various TLS services
- · Additional potential indicators, such as the domain onkrdot[.]info associated with the SMTP server

One item that immediately stands out is the SMTP server. Given our original domain's email theme, we can hypothesize that this server may be utilized for future phishing infrastructure or email relay activity. However, we also have HTTP/HTTPS servers that appear active – but in a strange way. As seen in the above screenshot, an HTTPS request returns a status code of 200 (success), but the page content (based on the HTML title) says "404 Not Found." What is going on here?

To simplify our research, we can utilize another service – <u>urlscan.io</u> – to handle our interactions for us. And this serves up something strange:

404 Not Found

nginx

Website Capture from URLScan

This may seem unhelpful, but we've identified an interesting mismatch. Examination of the server through application fingerprinting indicates we are interacting with an <u>Apache webserver</u>, while the server itself is displaying a custom webpage modeled off of (but not exactly mirroring) an <u>Ngnix webserver</u> 404 landing page. While not a sign of obvious maliciousness, this mismatch and customization provides an interesting foothold for further exploration. One easy follow-on item lies within urlscan itself, where we can look for instances of similar landing pages based on the content hash of the delivered page – 9b43f670273b6a12b2b6894a9e29157c1859717594e98ccc5fb3eea05e71f4ed. This reveals something VERY interesting:

	hash	n:9b43f670273b6a12b2b6894a9e2	9157c1859717594e98cc	c5fb3eea05e71	f4ed	Q Sea	arch	× 😯 Help		
Searc	h result	ts (35 / 35, sorted by date, took	40ms)				↓ Sh	owing All Hits	∜ Det	ails: Hidder:
	URL			Age		Size	#	IPs		A
Ο	msn-imap.	com/	Public	21 hours	£	429 B	1	1	1	:•:
0	23.106.12	2.16/	Public	29 days	<u>.</u>	481 B	1	1	1	Ø
Ο	komale.eu/	/	Public	30 days	1	481 B	1	1	1	:•:
0	kakaocop.o	com/	Public	1 month	٤	481 B	1	1	1	:•:
Ο	daum-polio	cy.com/	Unlisted	2 months		429 B	1	1	1	:•:
0	daum-priv	acy.com/	Unlisted	2 months	810 192	429 B	1	1	1	:•:
Ο	daum-polio	cy.com/	Unlisted	2 months	810 032	429 B	1	1	1	:•:
Ο	koreailmin	.com/	Public	2 months	<u>.</u>	481 B	1	1	1	:•:
Ο	koreailmin	.com/	Public	2 months	97 072	481 B	1	1	1	:•:
	guser.eu/		Public	2 months	<u>.</u>	481 B	1	1	1	:•:
Ο	koreailmin	.com/	Public	2 months	87 612	481 B	1	1	1	:•:
Ο	koreailmin	.com/	Public	2 months		481 B	1	1	1	:•:
Ο	210.92.18	164/	Public	2 months		481 B	1	1	1	:•:
Ο	koreailmin	.com/	Public	2 months	±	481 B	1	1	1	:•:
Ο	koreailmin	.com/	Public	2 months	٤	481 B	1	1	1	:•:
	koreailmin	.com/	Public	2 months	٤	481 B	1	1	1	:•:
Ο	daum-secu	irity.com/	Unlisted	3 months	日間	429 B	1	1	1	:•:
Ο	23.106.12	2.16/	Public	3 months	٩	481 B	1	1	1	Ø
Ο	23.106.12	2.16/	Public	3 months	<u>.</u>	481 B	1	1	1	0
Ο	oncloudvip	o.info/	Unlisted	3 months	872 692	429 B	1	1	1	:•:
Ο	goooglesee	curity.com/	Public	3 months	<u>+</u>	481 B	1	1	1	0
Ο	navercorp.	center/	Unlisted	4 months		429 B	1	1	1	:•:
Ο	accountski	k.certuser.info/	Public	4 months	1	429 B	1	1	1	:•:
0	210.92.18	.161/	Public	4 months	<u>+</u>	429 B	1	1	1	:•:

Search for domains, IPs, filenames, hashes, ASNs

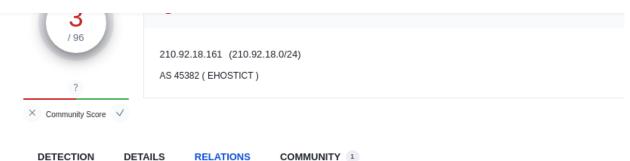
URLScan Pivot Results

We seem to have stumbled upon something reasonably unique, and linked to a variety of additional infrastructure – many of which spoof a variety of legitimate services. Among the items covered in this, we can see:

- Korean web portal Daum
- Korean web portal Naver
- Google services
- Various mail, cloud, and certificate themes

Infrastructure is overwhelmingly concentrated in Korean or East Asian hosting providers, and all items appear to be created between March and November 2022 (see Table 1 below for a list of all identified indicators).

Additionally, looking at pDNS records (in this case from VirusTotal) for the IP addresses from urlscan shows additional infrastructure of interest likely linked to this campaign:



Passive DNS Repli	cation (38) 🕕		
Date resolved	Detections	Resolver	Domain
2022-11-10	0 / 95	VirusTotal	nidpon.navemail.space
2022-11-05	1/96	Georgia Institute of Techn	
2022-11-05	1/90	ology	serviceprotect.eu
2022-11-05	0 / 95	Georgia Institute of Techn	
2022-11-05	0795	ology	navemail.space
2022-11-04	0 / 95	VirusTotal	accountslog.navemail.space
2022-11-04	2 / 96	VirusTotal	accountseros.serviceprotect.eu
2022-11-04	2 / 96	VirusTotal	loginssig.serviceprotect.eu
2022-11-04	0 / 95	VirusTotal	www.serviceprotect.eu
2022-10-18	0 / 95	VirusTotal	nidpon.servicemember.info
2022-10-12	0 / 95	VirusTotal	t1dm.certuser.info
2022-10-11	0 / 96	VirusTotal	wwwlog.navernail.eu

VirusTotal pDNS Information

At this stage we've collected a lot of information about various infrastructure created (and potentially used) in 2022 with similar themes, characteristics, and other observables. Yet it is important not to lose overall context as to *what* we might be looking at – so some external enrichment and research is required to learn more.

With no actual threat to go off of (yet), we can start our search looking for entities that typically host phishing infrastructure (either for sending email, or as landing pages for links) in East Asia (and especially South Korea), that focus on spoofing legitimate services with an emphasis on South Korean major web portals. Based on <u>multiple reports</u> from <u>various entities</u>, one threat group stands out matching these characteristics: <u>North Korean-related</u> entity <u>Kimsuky</u>.

While we cannot be certain at this stage, based on an initial suspicious feeling around one suspect domain, we have uncovered an entire ecosystem of related infrastructure that may be related to an in-progress Kimsuky-associated campaign, likely with a focus on website spoofing and phishing. Defenders, especially those with reason to believe they may be targeted by this North Korean-linked threat actor, should take the indicators provided in Table 1 and search historical logs to see if they have interacted with any of these infrastructure items as an initial defensive measure. Going forward, threat intelligence researchers can incorporate the characteristics in infrastructure creation documented in this report and the various linked resources to build a new hunting-and-pivoting profile for infrastructure related to this entity. Overall, network indicator research and refinement can yield fantastic results if you know both where to look, and what to look for.

Source Item	Hosting IP	Hosting Provider	Name Server	Registrar	Create Date
118.128.149[.]119	118.128.149.119	LG Dacom Boranet	N/A	N/A	N/A
210.92.18[.]161	210.92.18.161	EHOSTICT	N/A	N/A	N/A
210.92.18[.]164	210.92.18.164	EHOSTICT	N/A	N/A	N/A

Table 1 – Indicators From Research

23.106.122[.]16	23.106.122.16	LeaseWeb Asia Pacific Pte. Ltd.	N/A	N/A	N/A
61.82.110[.]46	61.82.110.46	Korea Telecom	N/A	N/A	N/A
61.82.110[.]60	61.82.110.60	Korea Telecom	N/A	N/A	N/A
accountskk.certuser[.]info	N/A	N/A	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 06-07
authuser[.]info	N/A	N/A	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 06-07
certuser[.]info	N/A	N/A	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 06-07
daum-policy[.]com	92.38.160.140	G-Core Labs S.A.	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 09-25
daum-privacy[.]com	92.38.160.134	G-Core Labs S.A.	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 09-25
daum-security[.]com	92.38.160.213	G-Core Labs S.A.	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 08-21
googlernails[.]com	N/A	N/A	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 03-03
googlmeil[.]com	209.99.40.222	Confluence Networks	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 05-31
goooglesecurity[.]com	27.102.66.162	Daou Technology	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 03-01
guser[.]eu	23.106.122.16	LeaseWeb Asia Pacific Pte. Ltd.	cloudns.net	PDR Ltd.	2022- 09-12
kakaocop[.]com	74.119.239.234	PDR	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 10-12
komale[.]eu	210.92.18.164	Sudokwonseobubonbu	cloudns.net	PDR Ltd.	2022- 10-20
koreailmin[.]com	74.119.239.234	PDR	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 09-02
main.in[.]net	N/A	N/A	N/A	PDR Ltd. d/b/a PublicDomainRegistry.com	2021- 04-02
nsn-imap[.]com	92.38.135.213	G-Core Labs S.A.	openprovider.nl	GANDI SAS	2022- 11-20
navemail[.]space	210.92.18.180	Sudokwonseobubonbu	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 09-12
navercorp[.]center	209.99.40.222	Confluence Networks	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2021- 08-31
navernail[.]eu	N/A	N/A	cloudns.net	PDR Ltd.	2022- 07-13
oncloudvip[.]info	92.38.135.166	G-Core Labs S.A.	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 08-22
onkrdot[.]info	N/A	N/A	N/A	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 10-02
servicemember[.]info	N/A	N/A	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 07-21

serviceprotect[.]eu	210.92.18.180	Sudokwonseobubonbu	cloudns.net	PDR Ltd.	2022- 07-18
usersec[.]info	N/A	N/A	cloudns.net	PDR Ltd. d/b/a PublicDomainRegistry.com	2022- 06-09

Table 1 – Indicators Related To Identified Activity

Additional Research

One thing that bothers me about the above are the "N/A" items for hosting – so, I decided to do some pDNS lookups in DomainTools to find out if there were subdomains hosted with these items. I was not disappointed:

Subdomain	Hosting	First Observed	Last Observed
loginslive.certuser[.]info	185.105.35[.]11	14 Nov 2022	14 Nov 2022
accountsmt.certuser[.]info	185.105.35[.]11	14 Nov 2022	14 Nov 2022
loginsmcmf.certuser[.]info	185.105.35[.]11	14 Nov 2022	14 Nov 2022
loginsioup.certuser[.]info	185.105.35[.]11	14 Nov 2022	14 Nov 2022
t1dm.certuser[.]info	185.105.35[.]11	14 Nov 2022	14 Nov 2022
mysql06.certuser[.]info	210.92.18[.]161	24 Oct 2022	14 Nov 2022
accountsms.certuser[.]info	210.92.18[.]161	20 Sep 2022	03 Nov 2022
loginslive.certuser[.]info	210.92.18[.]161	31 Aug 2022	14 Nov 2022
account.authuser[.]info	118.39.76[.]109	20 Jun 2022	21 Jun 2022
loginslive.certuser[.]info	185.105.35[.]11	14 Nov 2022	14 Nov 2022
accountsmt.certuser[.]info	185.105.35[.]11	14 Nov 2022	14 Nov 2022
accountsms.certuser[.]info	185.105.35[.]11	14 Nov 2022	14 Nov 2022
mysql06.certuser[.]info	210.92.18[.]161	24 Oct 2022	14 Nov 2022
staticnidlog.navernail[.]eu	210.92.18[.]161	24 Oct 2022	13 Nov 2022
remote.navernail[.]eu	210.92.18[.]161	20 Sep 2022	13 Nov 2022
vpn.navernail[.]eu	210.92.18[.]161	14 Sep 2022	14 Sep 2022
accountsig.servicemember[.]info	210.92.18[.]161	21 Sep 2022	21 Sep 2022
loginsig.servicemember[.]info	210.92.18[.]161	21 Sep 2022	21 Sep 2022

Table 2 – pDNS Responses Revealing Subdomains

But wait – there's more! We also have a few IP addresses from our original "haul" that didn't appear related to any other infrastructure at first pass. Additional pDNS searching looking for responses yields more domains and subdomains:

IP	Domain	First Seen	Last Seen
210.92.18[.]164	contentnts.slogin[.]eu	14 Nov 2022	14 Nov 2022
210.92.18[.]164	accounts.oksite[.]eu	05 Nov 2022	05 Nov 2022
210.92.18[.]164	cmember[.]eu	01 Nov 2022	01 Nov 2022
210.92.18[.]164	accountslog.puser[.]eu	30 Oct 2022	30 Oct 2022
210.92.18[.]164	accounts.slogin[.]edu	28 Oct 2022	09 Nov 2022

210.92.18[.]164	natescorp[.]com	28 Oct 2022	09 Nov 2022
210.92.18[.]164	accounts.auser[.]eu	06 Oct 2022	07 Oct 2022
210.92.18[.]164	account.koreailmin[.]com	12 Sep 2022	12 Sep 2022
210.92.18[.]164	mailuser[.]info	06 Sep 2022	06 Sep 2022
23.106.122[.]16	accounts.guser[.]eu	27 Oct 2022	28 Oct 2022
23.106.122[.]16	accounts.goooglesecurity[.]com	16 Aug 2022	09 Oct 2022
23.106.122[.]16	mobile.navernnail[.]com	23 Jun 2022	23 Jun 2022
61.82.110[.]60	nidm.navernnail[.]com	03 May 2022	03 May 2022
61.82.110[.]60	nidlogin.navernnail[.]com	25 Apr 2022	02 May 2022

Table 3 – pDNS Responses By IP Address

We can keep going back and forth between domains and IP addresses as long as we'd like, collecting indicators like so many <u>Pokémon</u>. But more usefully, we continued to refine our understanding of adversary infrastructure creation tendencies. Additionally, with the important caveat that pDNS data is not complete, we established rough timelines of when different infrastructure items appear to be "active" – allowing us to guide defenders as to when activity was most likely to have occurred.

Unfortunately, it appears most of the infrastructure identified is no longer "live." But there's more that we can do looking at other resources. For example, we can attempt to find mappings to file objects through resources such as VirusTotal. Similar to urlscan, we can search for the hash of the displayed, fake "404" page, which identifies additional items:

2 Community Score 🗸	9b43t670273b0 patch.php html	5a12b2b6894a9e29157c1	859717594e98ccc5fb3eea05e71f4ed	227 B 2022-03-10 04:24:57 UTC Size 8 months ago	
DETECTION DE	TAILS RELAT	TIONS CONTENT	TELEMETRY COMMUNITY 1		
TW Urls (81) 🕕					
Scanned	Detections	Status	URL		
2022-11-21	3/91	200	https://daum-master.com/		
2022-11-20	4/91	200	http://navercorp.world/		
2022-11-20	4/91	200	https://navercorp.world/		
2022-11-14	0 / 90	200	http://59.21.113.148/		
2022-11-01	0 / 90	200	http://natescorp.com/		
2022-10-31	2 / 90	404	http://23.106.122.16/dash/patch.php		
2022-10-24	0 / 90	200	http://23.106.122.16/dash/patch.php?name=Image		VirusTotal Resu
2022-11-04	1/90	200	http://kakaocop.com/		
2022-10-20	1/90	200	http://92.38.160.210/		
2022-11-20	10/91	200	http://login.daum-protect.com/		
			••••		
TW Domains (46) ①)				
Domain	Detections	Created	Registrar		
daum-master.com	4 / 96	2022-09-02	PDR Ltd. d/b/a PublicDomainRegistry.com		
navercorp.world	5 / 96	2022-08-23	-		
natescorp.com	0 / 96	2022-10-25			
kakaocop.com	1 / 96	2022-10-12	PDR Ltd. d/b/a PublicDomainRegistry.com		
login.daum-protect.com		2022-09-26			
nid.daum-protect.com	10 / 96	2022-09-26			
servicemember.info	3/96	2022-07-21			
guser.eu	10/96	-	-		
koreailmin.com	3/96	2022-09-02	PDR Ltd. d/b/a PublicDomainRegistry.com		
mailuser.info	0 / 96	2022-09-02			

For Fake Ngnix 404 Page

More interestingly, we can contingently verify that these campaigns are tied to credential theft via website spoofing by looking at the full submitted URL for one of the domains in question:

	① 4 security vendors flagged this URL as malicious	
4 /91 ? X Community Score ✓	http://accounts.auser.eu/v3/signin/identifier?dsh=s1175292950:1662186935234853&continue=mail.google.com/mail/&rip=1 &sacu=1&service=mail&flowname=glifwebsignin&flowentry=servicelogin&lfkv=aqn2rmwkknt1mu3slp5hkxhg61kkn7aakfggqz h2yeaqnpzdgsaeqfpadakj-u1fvxz31I-3hqzg&otp=asiapresshp&rtnurl=ahr0chm6iy9ty accounts.auser.eu	
DETECTION DE	TAILS TELEMETRY COMMUNITY	URL Submitted To
Categories (i)		
Forcepoint ThreatSeeke Comodo Valkyrie Verdic	*	
History 🕕		
Last Submission 202	2-10-06 18:13:26 UTC 2-11-21 23:59:14 UTC 2-11-21 23:59:14 UTC	

VirusTotal

While we can't completely confirm with available information, it does appear that there is a "passthrough" on the link that on submission will redirect the user (or input) to the legitimate Gmail site.

Ideally, we would find a file – an email, a payload, or some other object – that would allow us to link the infrastructure to follow-on capabilities. In this case, a cursory research effort fails to identify any such objects, limiting our ability to take this further. But, if this actor – likely Kimsuky – is of interest to you, the following provides an interesting overview of how this actor appears to utilize infrastructure to facilitate credential capture for services such as Google, Naver, Daum, and others.