



JOURNEY OF A CRYPTO SCAMMER NFT-001



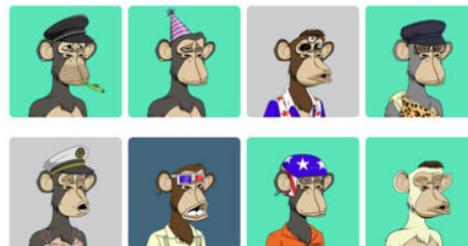
MORPHISEC
Breach Prevention Made Easy

morphisec.com

Introduction

What do Paris Hilton, Jimmy Fallon, and Justin Bieber all have in common? Collectively they all spent millions on a popular non-fungible token (NFT) called the **Bored Ape Yacht Club** (BAYC).

Depending on how they store their NFTs, they could also become high-profile targets for cybercrime. Already, in December 2021, a BAYC collector lost \$2.2 million after his BAYC and Mutant Ape Yacht Club NFTs were stolen by a hacker.



Bored Ape NFT collection up for sale (image: OpenSea)

Source: OpenSea a popular crypto wallet site



People walk by a Bored Ape Yacht Club NFT billboard in New York City's Times Square Tuesday. (Photo by Noam Galai/Getty Images) [-] GETTY IMAGES

This was not an isolated incident. With the NFT market booming (NFT trading volume increased by over 20,000% from 2020 to 2021), cybercriminals have rushed to adapt their strategies to exploit this still relatively new trend. From imitating social media accounts for NFT creators to making fake Google ads, hackers are exploring all avenues to make away with people's cryptos and NFTs.

However, one emerging threat vector for crypto crimes that the Morphisec Research Team has noticed and that is particularly worrying is happening through the Discord app. Last year, we

analyzed the BABADEDA Crypter, a crypter that specifically targets crypto and NFT communities through malicious Discord bots. Not only have the attackers behind this campaign evolved their attack methods since then (using other crypters besides the BABADEDA), but we have also recently noticed an increasing number of stopped attacks on Morphisec's customers' devices which originated from this particular NFT campaign.

In this report, we pick up where we left off in November 2021, taking a closer look at the attacker's motivations, infrastructure, and activities. We also explain why Next-Generation Anti-Virus (NGAV) and Endpoint Detection and Response (EDR) solutions are not able to protect against these types of campaigns and how Moving Target Defense technology can keep your devices safe from this dangerous threat.

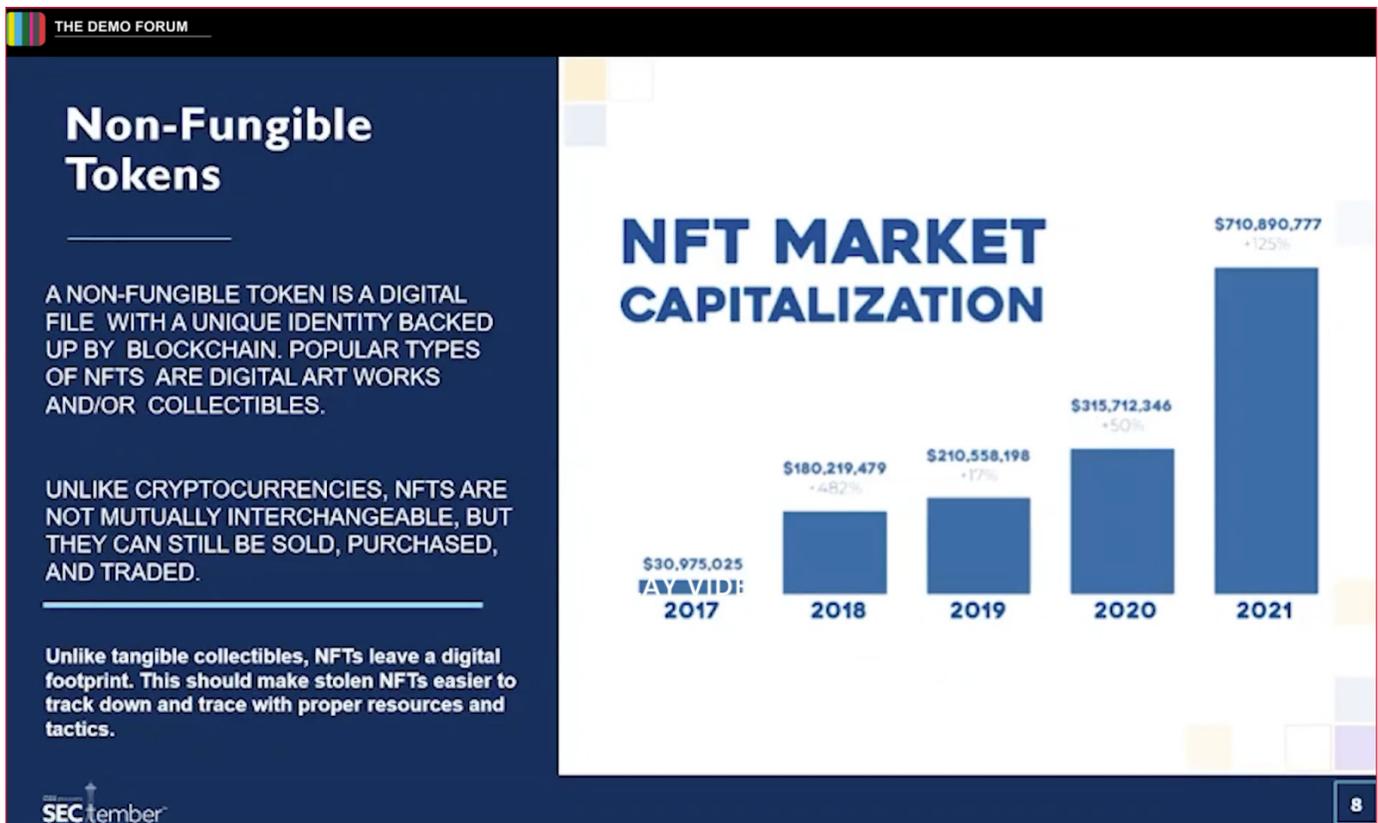
Wait... WHAT is an NFT???

Non-fungible tokens (NFTs) are digital files that, like cryptocurrencies such as Bitcoin or Ethereum, exist on a blockchain, a form of digital ledger. NFTs can be any type of digital object, from artwork and memes to tweets and audio. In some instances, NFTs may also be tied to physical objects.

Each NFT has a digital signature that acts as proof of ownership. However, unlike cryptocurrencies, NFTs are non-fungible, meaning that they can't

be equally exchanged for something else, nor can they be reproduced. In this way, NFTs can be likened to limited edition Baseball cards or rare minted coins, where rarity/scarcity equals value.

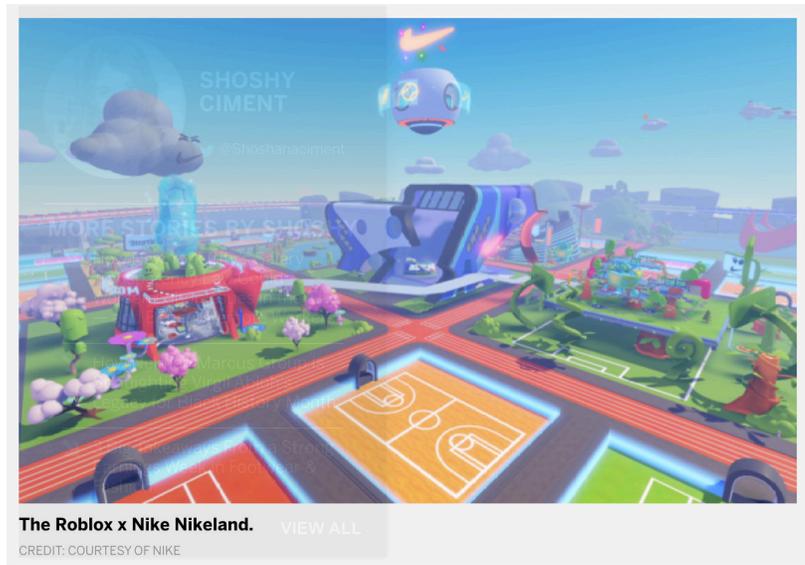
Compounded by increased interest in cryptocurrency (the underlying foundation to creating and tracking NFTs), this has caused a 125% increase in NFT growth, and everyone is jumping in to grab a piece of the pie.



Source: Cloud Security Alliance SECtember, 2021 via The Demo Forum

An Expanding Metaverse

Part of what is propelling the growth of NFT adoption is the promise of the metaverse. The metaverse will be an online, three-dimensional universe that combines multiple virtual spaces. Although it doesn't yet exist, many see it as a future version of the internet. Accessing these 3D spaces via smartglasses, mobile apps, gaming consoles, and other metaverse-friendly devices, users, represented as 3D avatars, will be able to collaborate, shop, play games, and socialize, much in the same way they do already in the real world.



Source: Nike

As an immersive virtual economy, the metaverse will rely on cryptocurrencies as a mode of payment, with each metaverse likely to have its own set of coins. Users will be able to use these coins to pay for goods and services within the metaverse, including NFTs, virtual real estate, shoes, and more. Walmart, Adidas, Gucci, and other popular brands have already invested millions as they make a giant leap into the realm of virtual goods.



Source: YouTube - #Metaverse | Walmart VR Virtual Shopping Experience SXSW

More Money, More Problems

One unforeseen consequence of the growing interest in cryptocurrencies, NFTs, and the metaverse is the rising number of scams. Considering that the NFT market is worth \$7 billion and that stealing NFTs can net malicious actors millions of dollars overnight, this is not surprising.

As users and businesses continue to embrace this new form of e-commerce, criminals are finding new ways to exploit them. We cover this trend in detail in the next section.

Early Warnings - Findings from the Morphisec Research Team

Not long ago, the Morphisec Research Team investigated an NFT and crypto crime campaign known as the BABADEDA Crypter, which we discovered during a new crypter research study. During our investigation, we focused on the crypter's mechanism and capabilities while also briefly discussing a new campaign targeting the crypto and NFT communities.

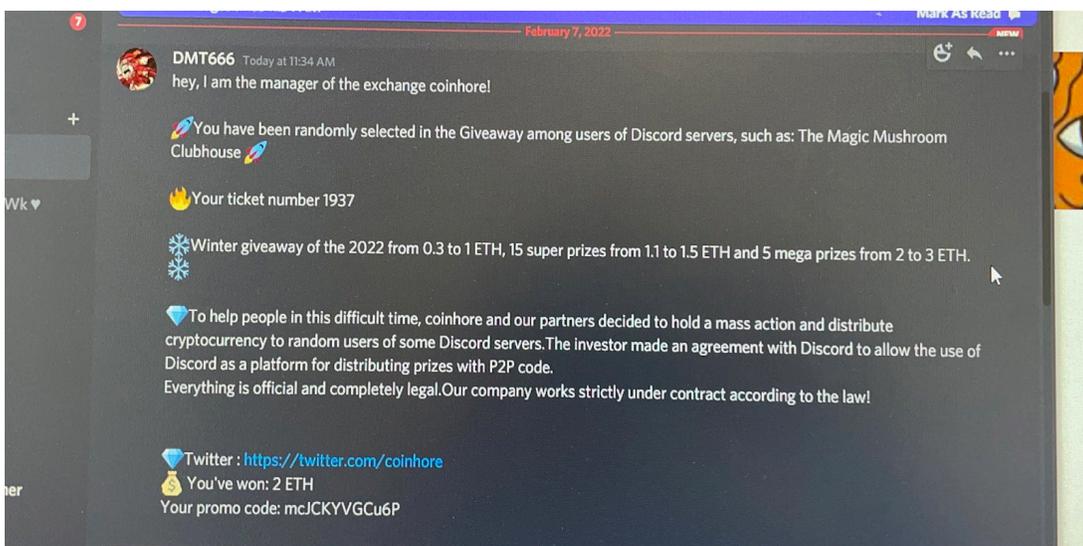
The recent surge in NFT scams and crypto crime activities, as well as a rising number of attacks on our customers' devices (fully prevented by Morphisec) linked to this NFT campaign, has prompted us to dive deeper into the attacker's infrastructure and dissect its activity. In this report, we will walk you through the progression of the attacker's infrastructure and capabilities since November 2020, the first evidence of its activity, until today.

Infection Strategy

Before moving forward, we need to understand the attacker's workflow, starting with who their target victims are, up until the point they steal their funds.

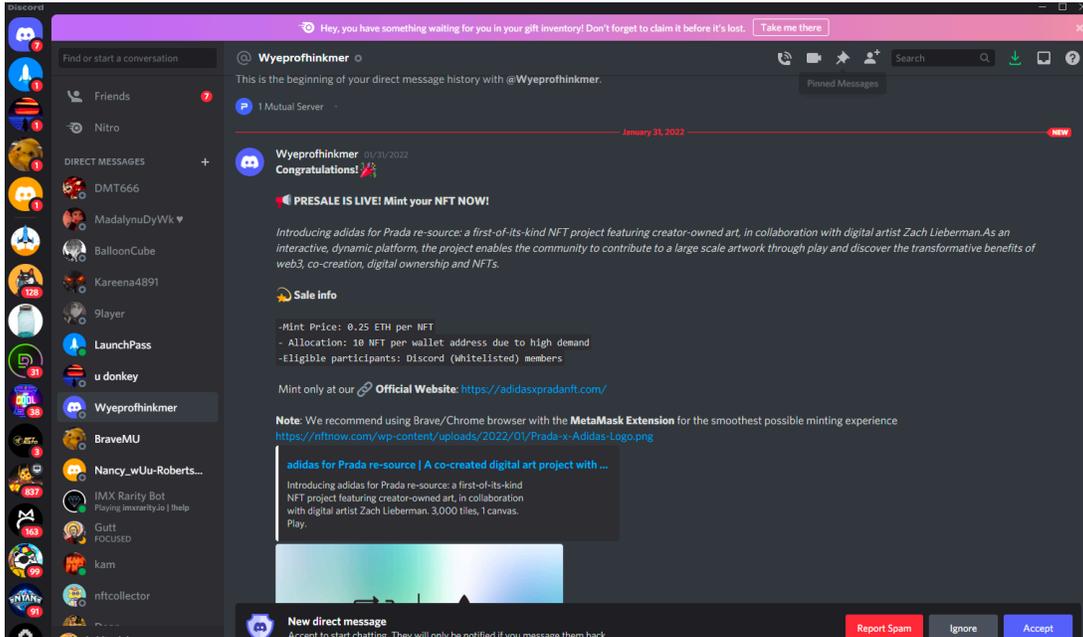
In this campaign, we identified that the attacker's targets are Crypto and NFT communities (as per our previous investigation). We know that the actor impersonates existing Crypto/NFT services with a Discord channel. Thus, their victims are members of such communities.

Here is an example of a real scam conducted on a popular Discord forum on February 7, 2022.



Source: Discord

Here is another example.



Source: Discord

Can You Spot a Fake?

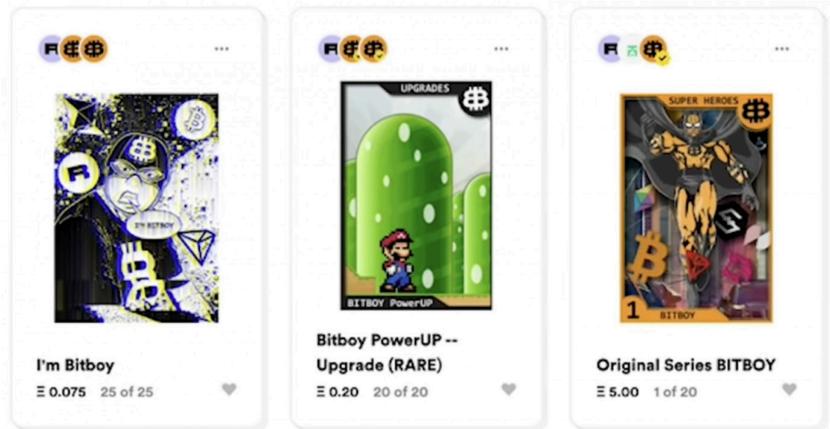
Take the example below. Two of the three NFTs are fakes. Can you tell which ones?

The leftmost NFT is sold by an artist with a stolen profile picture. We know this NFT is a scam because it doesn't have a yellow verification check mark in the upper left-hand corner.

The NFT in the middle is also a fake.

However, it is obvious that it was created by a more sophisticated criminal because they were able to fake the verification check mark. Nevertheless, if you zoom in, you can tell the difference between this verification check mark and a real check mark (the NFT on the right, with the verification check mark extending outside the avatar).

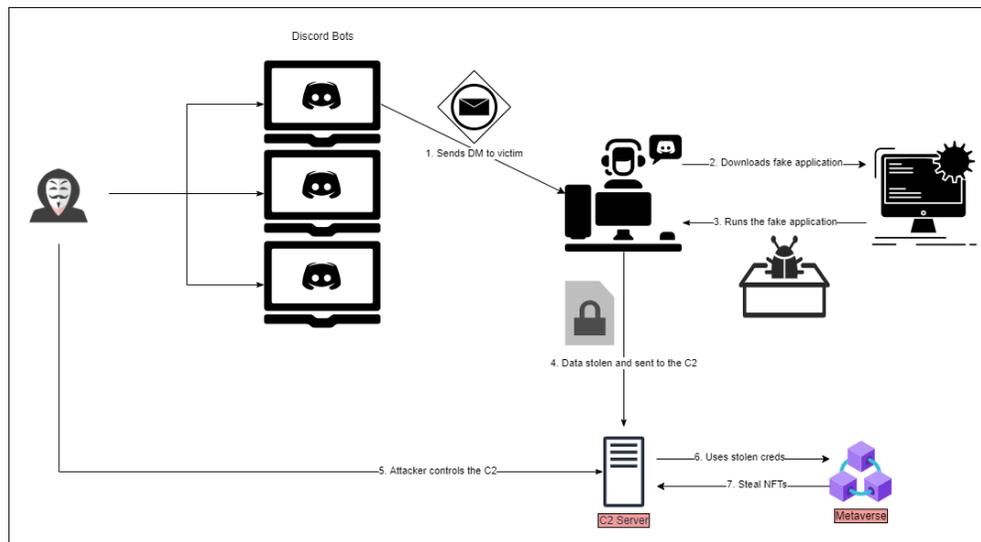
The sophistication of these types of scams, along with the attacks that follow, is increasing every day.



Source: Benzinga

You've Been Scammed, Now What?

By looking at the full attack chain, we can infer that the actor wants to steal high-value NFTs and cryptocurrencies. Their motives explain why they chose the kind of malware delivery method they did.



Full attack chain [Source: Morphisec]

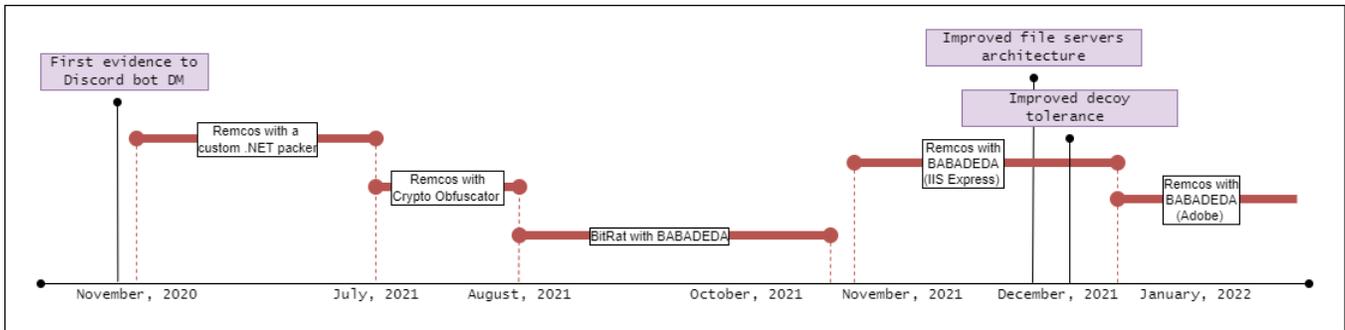
The attack chain comprises several components, and each one can be used as a standalone or as a service. This means that the actor stealing funds from a particular victim is not necessarily the developer of these components. The fact that the components are independent gives the attacker the ability to improve or change tactics quickly.

We will cover the following components in the following sections:

- The attacker creates Discord bots that, to the uninitiated eye, may look like they are owned by one of the official community administrators.
- The bots send private messages to channel members inviting them to download the new desktop application from an official-looking website that is actually owned by the attacker.
- The website is a perfect copy of the real site with one major change - a download button to the fake desktop application.
- Even when the application is downloaded and executed, victims still have no idea something is wrong. Under the hood, however, the malware unpacks itself and loads the final payload.
- The final payload, usually RAT, is used to steal the victim's browsing data and install keylogger and other surveillance functionalities, including ones that give the attacker complete control over the victim's machine.
- The attacker can use the stolen data to take over the victim's identity and transfer their possessions to their own wallet/account.

Malicious bots facilitate over 90% of NFT scams. These bots can be easily obtained through Discord forums, Twitter, and underground exchange communities on the dark web. They are easy to operate and are very lucrative. A motivated bot operator can purchase a program for 0.2 Ethereum (\$600 at the time of this writing) and get a 15x+ return in only one week. This return compounds as experience and efficiencies are gained.

Evolution of the Threat Actor



Campaign Timeline

Although an attack chain has many components, when looking at the evolution of the campaign, two main components jumped out:

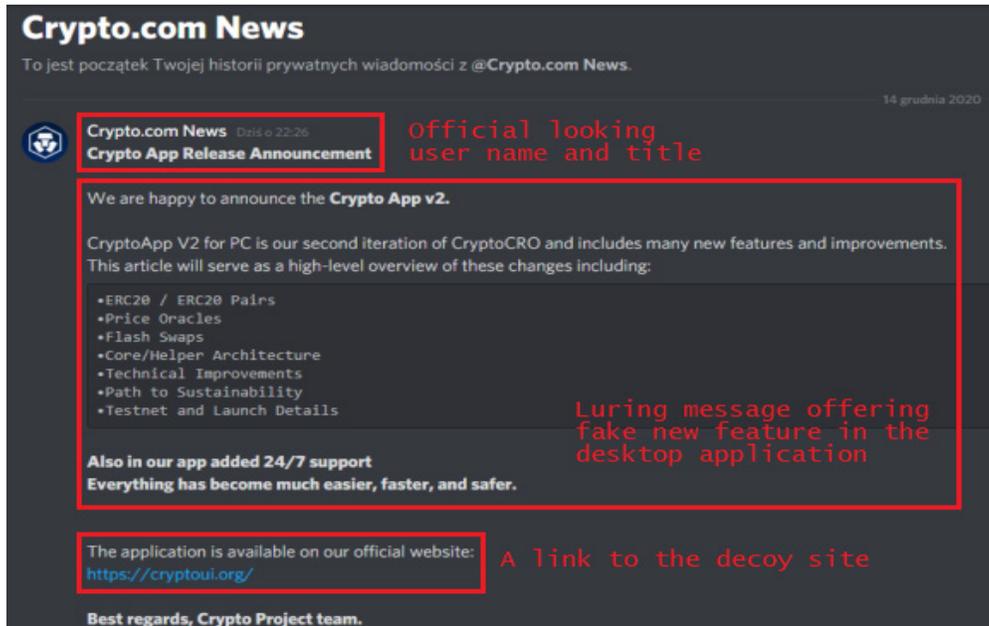
1. Improved architecture (both decoy servers and file servers)
2. The final payload used once successful infection is achieved.

In this section, we'll explain each component and its progression over time:

- Infrastructure - the DevOps and networking infrastructures required from start to finish.
- Execution Methods - which Crypter is being used to deliver the final payload.
- Final Payloads - what final payload the actor used.

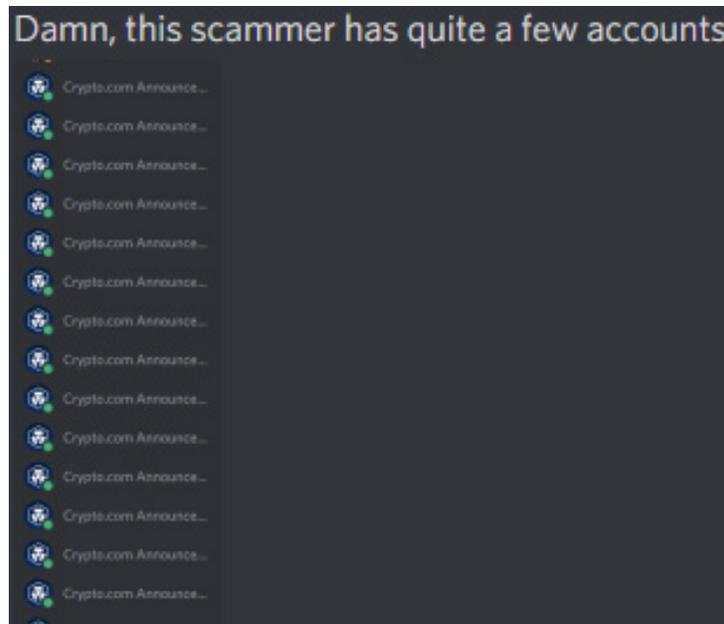
Infrastructure Discord Bots

The actor uses Discord bots to reach their victims. They do so by sending official-looking DMs in targeted Discord channels:



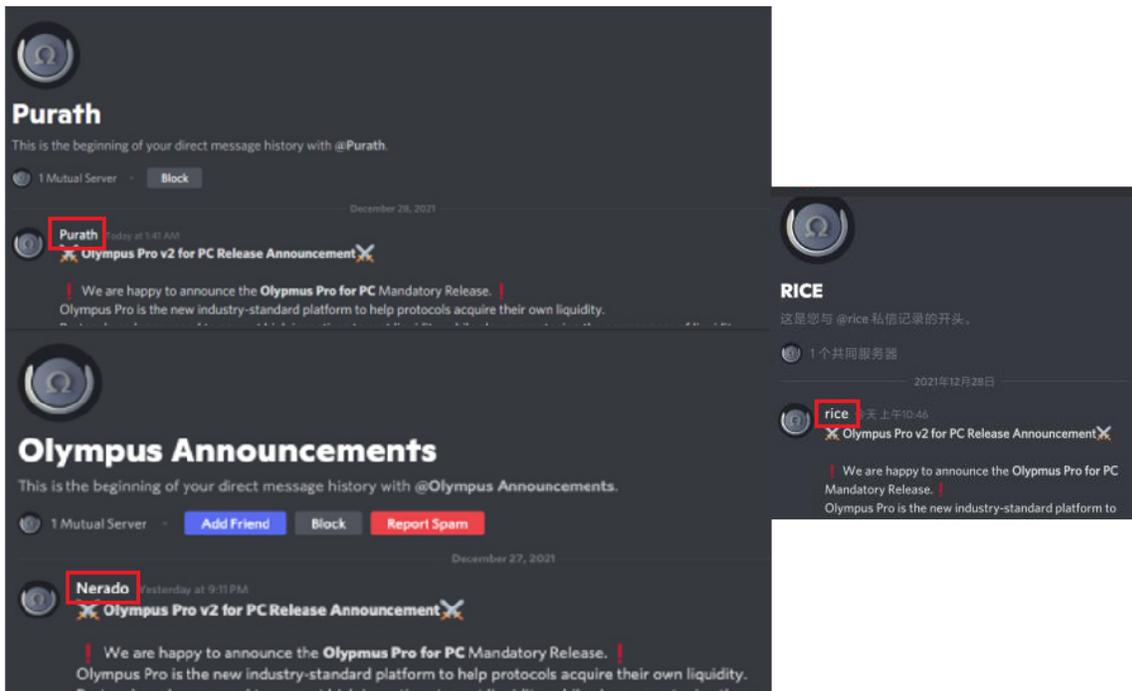
Discord private message luring a user to download a malicious app

To do this, the actor creates dozens of Discord bots that automatically send these messages to potential victims. However, spamming a forum with bots raises suspicions immediately.



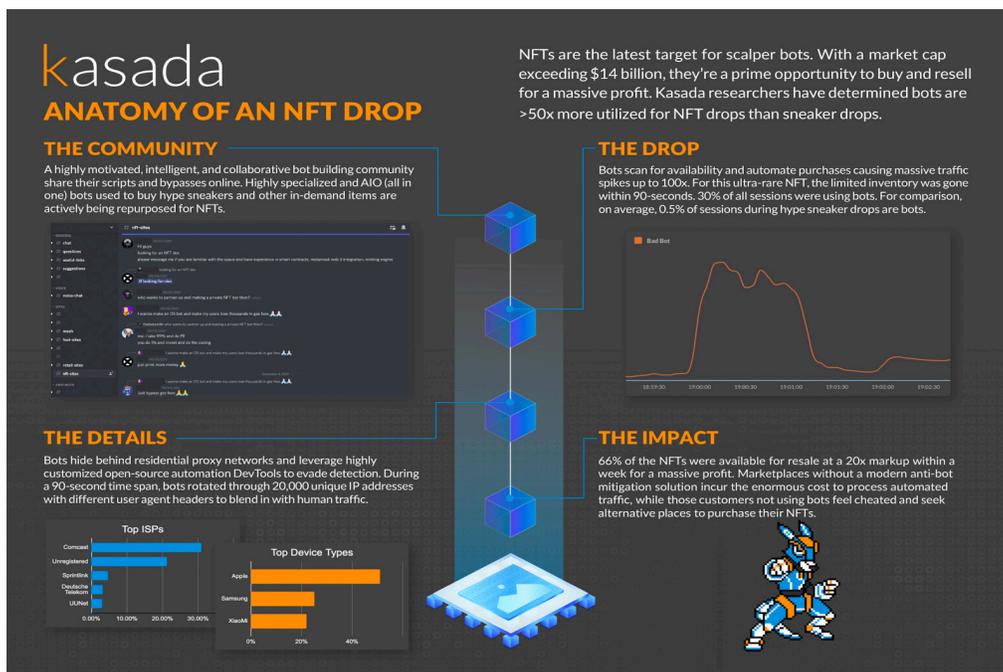
Bots accounts discovered by a user

Previously, finding and blocking the spamming bots was relatively easy - as shown on the previous page - leading the actor to use better naming conventions.



Different names to the bots

The latest campaign shows the actor using different content within these messages and randomized yet still valid looking usernames. This suggests that the actor actively improves their phishing capabilities and develops their infection method over time.



Source: Kasada

Decoy Sites

The main purpose of these fraudulent Discord messages is to lure the victim into downloading the “new official desktop application” from the “official site.” Keeping its real intentions hidden, the attacker creates an identical copy of the home page. The only thing they change is the CTA button.

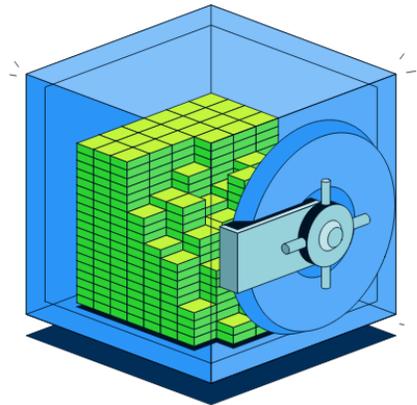


[Discord](#) [Twitter](#) [Telegram](#) [Docs](#)

The Decentralized Reserve Currency

Snowbank is building a community-owned decentralized financial infrastructure to bring more stability and transparency for the world.

Available on Avalanche 



[Discord](#) [Twitter](#) [Telegram](#) [Docs](#)

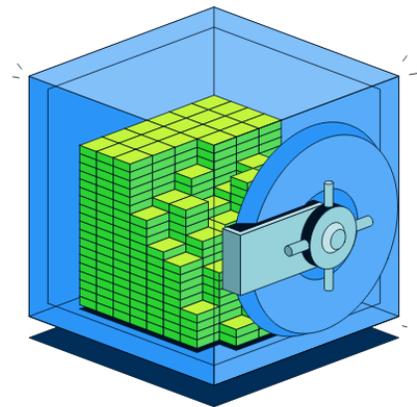
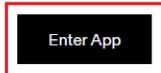
Decoy - snowbank.fund

Original - snowbank.finance

The Decentralized Reserve Currency

Snowbank is building a community-owned decentralized financial infrastructure to bring more stability and transparency for the world.

Available on Avalanche 



Decoy vs. Original Site

Although the technique for creating decoy sites hasn't changed, the targeted apps did. The attacker changes the active decoys according to the community it's currently targeting.

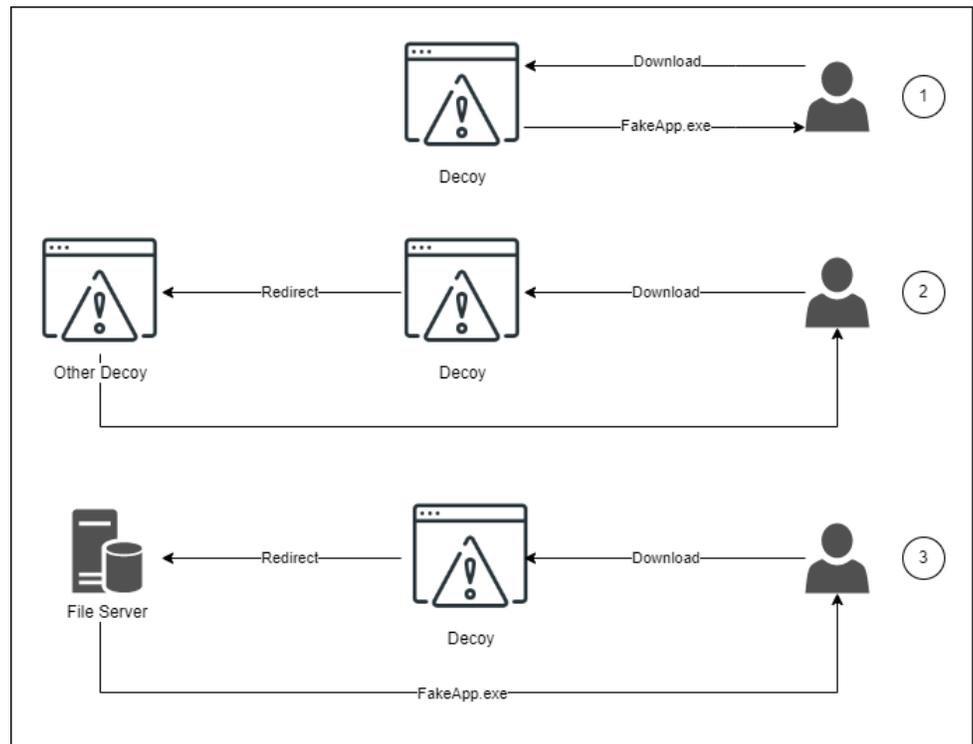
The figure below illustrates the changes the attacker made between December 2021 to February 2022.

December	January	February
spookyswap[.]fund	orca[.]mba	pegaxy[.]fund
popsicle[.]fund	xyfinance[.]fund	torix[.]fund
snowbank[.]fund	osmosiszone[.]fund	jonesdao[.]net
alchemists[.]fund	grim[.]fund	cocosbcx[.]fund
abracadabra[.]run	polychainsmonsters[.]com	gitcoin[.]fund
zapp3r[.]com	viper[.]fund	sushi-v3[.]app
olympus-dao[.]fund	woofsolana[.]fund	meritcircle[.]fund
debank[.]fund	steps[.]fund	biconomy[.]fund
polygon-project[.]com	strongblock[.]fund	oxdao[.]net
ring-finance[.]com	blocto-portto[.]fund	vvfinance[.]fund
terra-money[.]com		thor[.]fund

It is not clear why the attacker changes the targeted applications and communities. However, we can assume they do so when their scam is revealed or when they are trying to find a better attacking landscape in new and unaware communities.

File Servers

The third step of the infection is responsible for delivering the executable to the victim. During our research period, we tracked architectural changes in this mechanism. It looks like the attacker tested several approaches, and now they converge these into their final version.



Fake application delivery methods

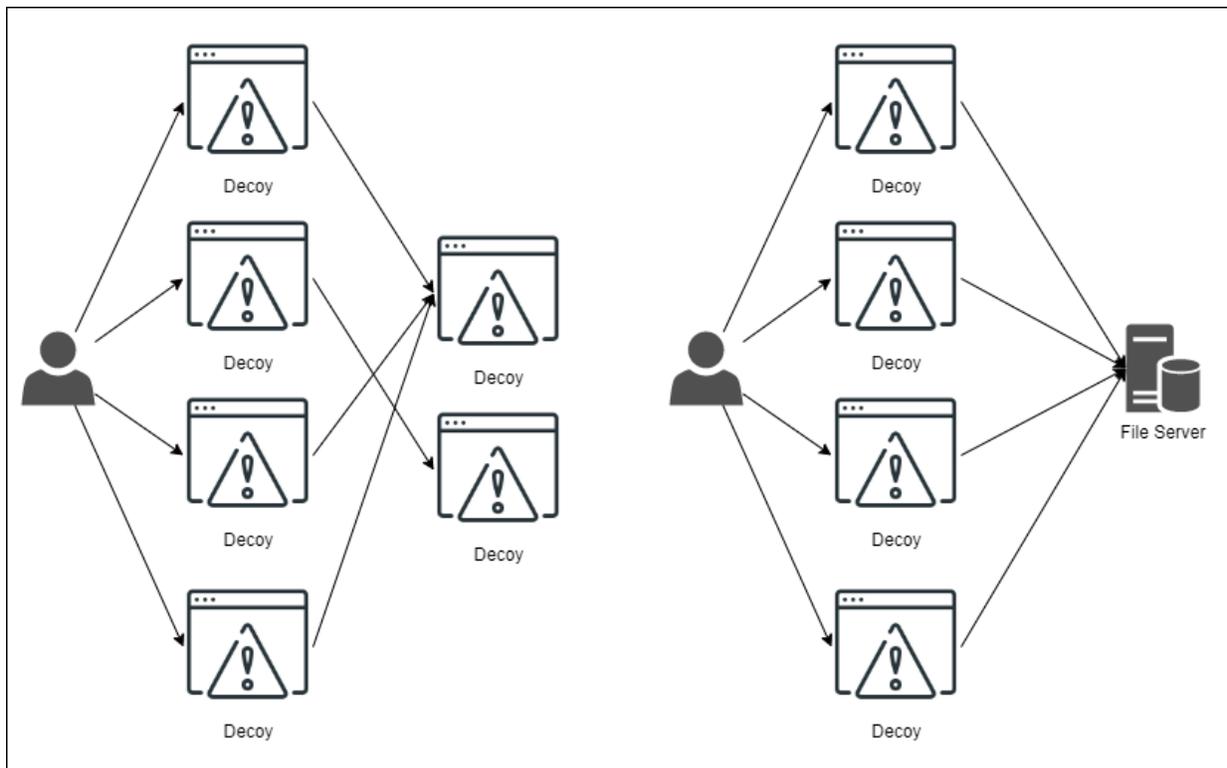
Version 1: The attacker hosted the fake application inside its respective decoy site. For example, **terra-money[.]net** served the file **Terra_Station_Setup_1.2.1.exe** when making a request to **terra-money[.]net/station/Terra_Station_Setup_1.2.1.exe** route.

Version 2: Cybersquatting. Decoy site A redirects the traffic to decoy site B that holds its malware. For example, **safemoone[.]net** is a decoy site to the original **safemoon.net** redirected by **larvaslab[.]com** to download the fake application from **safemoone[.]us/download/LarvaLabs-App_v2.1.1-setup.exe** route.

Version 3: All decoys download from the same centralized file server. As of writing this report, the file servers used in this campaign are:

Date Down	Domain	IP
17/12/2021 - 10/01/2022	veeffriends[.]com	46.30.40[.]105
12/01/2022 - Active	download-app-v2[.]fund	46.30.40[.]108
01/02/2022 - Active	server-storage-dwl[.]com	46.30.44[.]84

There's a clear shift between the methods used. In the beginning, the actor used the simplest working solution. We assume that the second method is a transition step to the third method - we saw a large number of decoy sites downloading from only two other decoy sites. Observing the third method, we can see that the attacker has evolved to use the "right" way from a distributed application's architecture



Fake application delivery methods

point of view.

Although the third method allows greater flexibility for the attacker to update their malware due to a centralized repository, the problem with this method is that it opens one point of failure - once the currently active file server is down, the attack chain breaks.

Hosting Services

The actor uses EuroByte's services as its preferred hosting service to deliver their fake applications. We have found references of other cybercriminals using EuroByte's services to host DCRat botnet controller (asos[.]click), Emotet (azatop[.]ru, korechok[.]ru, ...), AutoKMS (kmsmatrix[.]info), etc.

Domain	IP	Decoy Site?	Country	Hosting Service
spiritswaps[.]com	46.30.40[.]105	Yes	Russia	EuroByte.ru
splinterslands[.]com	46.30.40[.]105	Yes	Russia	EuroByte.ru
safemoone[.]us	46.30.40[.]105	Yes	Russia	EuroByte.ru
babydogecoin[.]com	46.30.40[.]105	Yes	Russia	EuroByte.ru
veeffriends[.]com	46.30.40[.]105	No	Russia	EuroByte.ru
download-app-v2[.]fund	46.30.40[.]108	No	Russia	EuroByte.ru
server-storage-dwl[.]com	46.30.40[.]84	No	Russia	EuroByte.ru

Files Delivered

The downloaded files have a similar naming convention, size, and icon as their legitimate counterparts. The naming convention and the icon help fool the victim into believing it's a legitimate application. On the other hand, a similar size may help evade scanning engines.

Domain	File Name	Size	Icon
grim[.]fund	GrimFinance-dApp-v2.3.1.exe	118MB	
metaverses-pro[.]com	MetaversePro-App-v2.0.exe	122MB	
debank[.]fund	DeBank-dApp-v2.2-release.exe	122MB	
helium-app[.]com	Helium-App-v2.2-release.exe	116MB	
moonebeam[.]com	MoonbeamApp-v2.1.0_release.exe	108MB	

Execution Methods

After mapping the infrastructure used throughout the campaign, we dug into the actor's execution methods. This campaign was first revealed when our team researched a new crypter used in the wild, but that's not the only crypter used.

At the beginning of the campaign (see the table below), we saw evidence of the actor using custom .NET Crypters and Crypto Obfuscator. However, starting from August 2021, it looks like the actor has moved to use BABADEDA Crypter as their main crypter of choice.

Although we don't think this threat actor is the developer behind BABADEDA Crypter, we found that they are the first to use the latest variants. This may suggest that this threat actor purchased a private stub or that there is a close relationship between the two.

By now, we know who the victims are, and we are also aware of the attacker's goal. What's left is understanding how the goal was achieved. To answer this question, we traced the final payload from the beginning of the campaign to the end. This resulted in three different RATs used as the final payload - Remcos, BitRAT, and AsyncRAT.

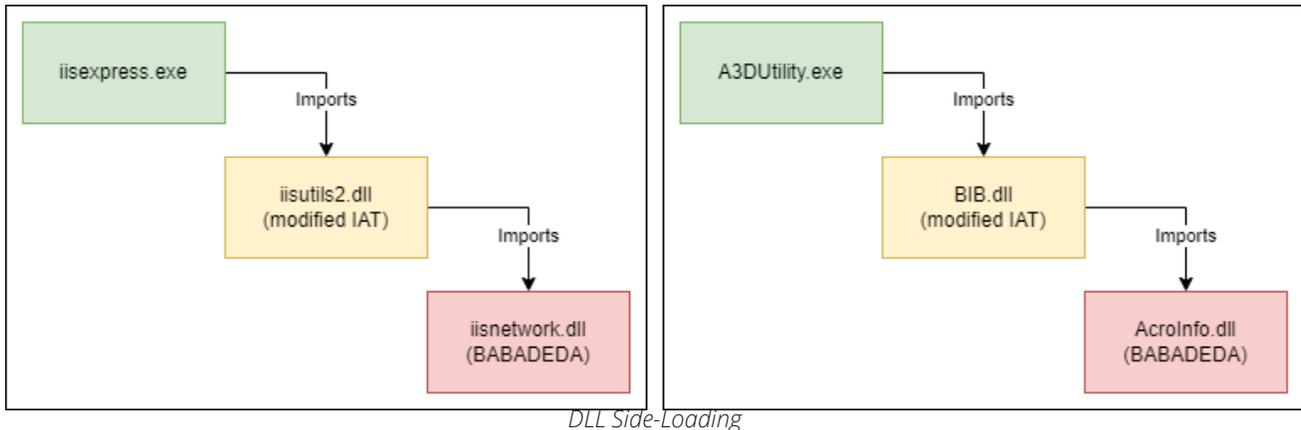
This can be seen in the following table:

Date	Packer/Crypter	Payload	C2	Port
11/2020 - 07/2021	Custom .NET packer	Remcos	95.217.114[.]96 37.48.89[.]8 94.23.218[.]87	4782 4783
07/2021 - 08/2021	Crypto Obfuscator (.NET)	Remcos	135.181.17[.]47	4783
08/2021 - 10/2021	BABADEDA	BitRAT	135.181.140[.]182 135.181.140[.]153 135.181.6[.]215	7777
11/2021 - 12/2021	BABADEDA using DLL sideloading with IIS Express	Remcos AsyncRAT	65.21.127[.]164	4783 4449
12/2021 - *Active	BABADEDA using DLL sideloading with Adobe/TopoEdit	Remcos	193.56.29[.]242	4783
01/2022 - *Active	BABADEDA using DLL sideloading with Link.exe	Remcos	157.90.1.54	4783

*Active - At the time of writing

Technical Details

One of the more recent features added to the attack chain is the usage of a DLL sideloading attack to inject the final payload into a benign application. In our [previous research](#), we explained in detail the inner workings of the BABADEDA Crypter. During our current investigation, we observed that all fake applications utilize a DLL Side-Loading technique on trusted applications such as **iisexpress.exe** (IIS Express), **A3DUtility.exe** (Adobe Acrobat Reader), and **TopoEdit.exe** (Microsoft tool)



The additional layer allows attackers to run the BABADEDA Crypter under a legitimate process instead of a fake one, as done previously. As shown in the figure above, a new DLL is loaded into the process.

First, the fake application's installer will unpack the files to the destination directory. Then it launches the benign executable, for example, **A3DUtility.exe**. Inside the executable's import table, we will find **BIB.dll** import. This is a modified version of the original **BIB.dll**, used for sideloading the first stage of the malicious payload. This version of **BIB.dll** isn't signed and has another entry in its IAT - an import of **AcroInfo.dll**.

BIB.dll Original				BIB.dll Modified			
Module Name	Imports	OFTs	TimeDateStamp	Module Name	Imports	OFTs	TimeDateStamp
szAnsi	(nFunctions)	Dword	Dword	szAnsi	(nFunctions)	Dword	Dword
KERNEL32.dll	23	00016A90	00000000	KERNEL32.dll	23	00016AE0	00000000
MSVCR80.dll	40	00016AF0	00000000	MSVCR80.dll	40	00016B40	00000000
				AcroInfo.dll	1	0001C06F	00000000

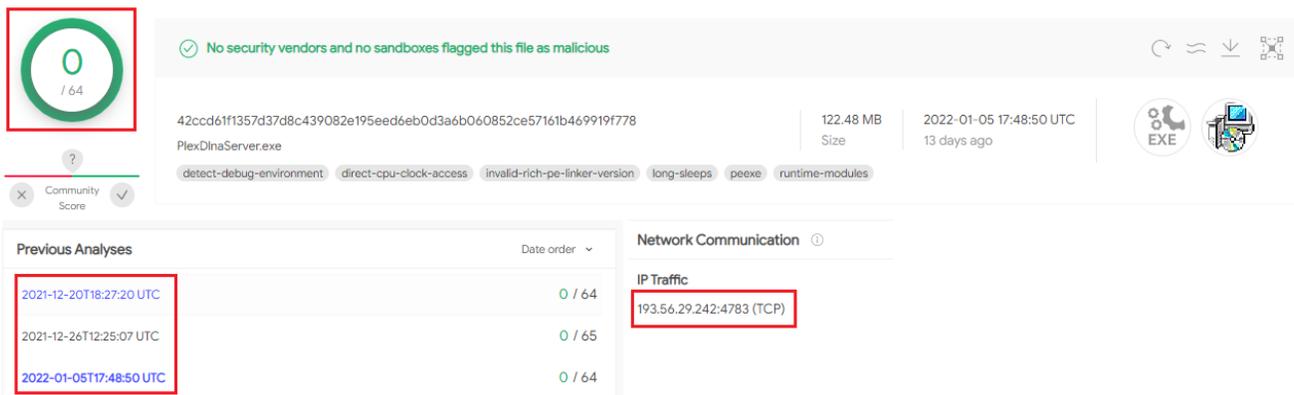
IAT comparison

Although the name may trick you into thinking this file is part of a benign Adobe Reader installation, in reality, this DLL loads the BABADEDA Crypter we covered in our previous research.

```
GetModuleFileNameW(0, Filename, 0x400u);
*(_WORD *)sub_10005C4E(Filename, 92) = 0;
SetCurrentDirectoryW(Filename);
for ( i = 0; i < 120; ++i )
{
    GetCurrentProcessId();
    sub_10004460(a1, a2);
    Sleep(0x32u);
}
v3 = LoadLibraryA("ctmndesk3.dll");
incopy = GetProcAddress(v3, "incopy");
return incopy();
```

Loading BABADEDA Crypter's DLL

BABADEDA Crypter already had a low detection rate in VT, and the new variant helps keep it totally FUD for multiple scans, as seen below.



The screenshot shows a VirusTotal analysis for the file PlexDlnaServer.exe. The file is identified by hash 42ccd61f1357d37d8c439082e195eed6eb0d3a6b060852ce57161b469919f778, has a size of 122.48 MB, and was uploaded on 2022-01-05 17:48:50 UTC. The analysis shows a score of 0/64, with a note: "No security vendors and no sandboxes flagged this file as malicious". The file is associated with the category "detect-debug-environment". The "Previous Analyses" table shows three scans, all with a score of 0/64. The "Network Communication" section shows IP traffic to 193.56.29.242:4783 (TCP).

Date	Score
2021-12-20T18:27:20 UTC	0 / 64
2021-12-26T12:25:07 UTC	0 / 65
2022-01-05T17:48:50 UTC	0 / 64

Totally FUD Remcos payload taking with its C2

Options to Prevention and Response

Gaining Insights

Hacked credentials and crypto accounts are among the most sought-after and valuable items for purchase on the dark web and underground communities. Due to the skyrocketing prices of BTC, ETH, and other cryptocurrencies, hacked accounts may hold large sums of coin-based currency and cash, protected by relaxed security measures after the initial verification process. This can then be cashed in for NFTs and other high-value goods in the metaverse and the physical world.

Crypto	\$ Average Price (USD) 2021
Hacked Coinbase verified account	\$610
USA verified LocalBitcoins account	\$350
Cypto.com verified account	\$300
Coinfield.com verified account	\$410
Kraken verified account	\$810
Cex.io verified account	\$710
Blockchain.com verified account	\$310
Binance verified account	\$410

Example listings of hacked cryptocurrency site accounts being sold.

Source: [Privacy Affairs Dark Web Price Index](#)

Morphisec Insights, as well as Morphisec Threat Intelligence, can act as an early warning system for your enterprise to give you visibility into criminals that are targeting your employees and organization. Credential theft and account takeover is a common entry point for criminals to establish a foothold into your organization and move laterally, further enforcing more damage to business operations and critical assets. The industry best practice is to monitor the areas where criminals operate to mitigate attacks before they occur.

Moving Target Defense

As a prevention-focused solution, **Morphisec Guard** morphs device memory to confuse and trap attacks that avoid NGAV solutions. As a result, defenders can automatically protect assets like NFTs and cryptocurrencies against zero-day threats like the crypters discussed in this report.

When All Else Fails

In many cases, we have found that it is already too late to prevent this type of attack from occurring, and incident response (IR) is needed. Morphisec Incident Response team works collaboratively with client organizations to triage critical security incidents and conduct forensic analysis to solve immediate cyberattacks, as well as provide recommendations for reducing your organization's risk exposure.

The Morphisec IR team will leverage this insight to:

- Help contain in-progress incidents and reduce damage.
- Provide recommendations for long-term risk reduction.
- Audit critical infrastructure to ensure you have the lowest possible risk of exposure to a cyberattack.

[Contact the Morphisec IR Team](#)

Conclusion

As demonstrated above, these highly dangerous crypters can have a devastating effect. Targeting cryptocurrency users through trusted attack vectors gives its distributors a fast-growing selection of potential victims. Because crypters can masquerade as known applications with complex obfuscation techniques, anyone relying on traditional signature-based malware detection has no way of knowing if a crypter is on their machine and can't stop it from executing. Machine learning and behavior-based endpoint protection platforms (EPP) or endpoint detection

and response (EDR) solutions may also have a difficult time detecting this type of attack, as they are not as effective against in-memory attacks.

Mitigating the threat posed by a crypter requires securing the device memory it targets. **Morphisec does this through Moving Target Defense (MTD)**, a technology that creates a dynamic attack surface and morphs process memory to trap crypters like BABADEDA before they are able to deploy.



MORPHISEC

SEE MORPHISEC IN ACTION!

Contact us now to get a demo of Morphisec Guard, and see how we make advanced security accessible to everyone.

[BOOK A DEMO](#)



The screenshot shows a dashboard with a sidebar on the left containing icons for Home, Threats, Alerts, Settings, and Help. The main content area features a bar chart titled "THREATS OVER TIME" with a legend for "Morphisec", "Proxynet", "Alert", and "Microsoft Defender". The x-axis represents months from Jan to Dec, and the y-axis represents the number of threats, ranging from 0 to 10. The chart shows a significant spike in threats in May, reaching approximately 10, while other months show lower counts, generally between 2 and 5.

IOCs

More IOCs can be found in [our previous blog](#).

Decoy Websites

Domains

alchemists[.]fund	zapp3r[.]com	orca[.]mba	meritcircle[.]fund
metaverses-pro[.]com	terra-money[.]com	blocto-portto[.]fund	biconomy[.]fund
ragnarok.vercel[.]fund	wonderlaned[.]com	spartacus[.]fund	oxdao[.]net
woofsolana[.]fund	jadeprotocol[.]fund	thorswap[.]fund	wsfinance[.]fund
babyswap[.]fund	strongblock[.]fund	xyfinance[.]fund	thor[.]fund
spookyswap[.]fund	avaxbridge[.]fund	olympus-dao[.]fund	marinade[.]fund
polygon-project[.]com	polychainsmonsters[.]com	invictusdao[.]fund	paragonsdao[.]net
viper[.]fund	debank[.]fund	traderjoexyz[.]fund	avalaunch-app[.]com
osmosiszone[.]fund	steps[.]fund	pegaxy[.]fund	pancakeswaps[.]fund
popsicle[.]fund	abracadabra[.]run	torix[.]fund	diviprojects[.]com
snowbank[.]fund	boredpeyachtclub[.]com	jonesdao[.]net	runonflux[.]net
grim[.]fund	vercel[.]fund	cocosbcx[.]fund	
spartacadabra[.]fund		gitcoin[.]fund	
ring-finance[.]com		sushi-v3[.]app	
helium-app[.]com			

IP Addresses

185.212.130[.]108	185.212.130[.]111	185.212.130[.]199	185.212.130[.]218
185.212.130[.]109	185.212.130[.]157	185.212.130[.]132	
185.212.130[.]110	185.212.130[.]129	185.212.130[.]133	

File Servers

Domains

veeffriends[.]com	download-app-v2[.]fund	server-storage-dwl.com
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IP Addresses

46.30.40[.]105	46.30.40[.]108	46.30.44[.]84
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C2 Servers

95.217.114[.]96	135.181.17[.]47	135.181.6[.]215	157.90.1[.]54
37.48.89[.]8	135.181.140[.]182	65.21.127[.]164	
94.23.218[.]87	135.181.140[.]153	193.56.29[.]242	

Fake Applications

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