



The Long Con

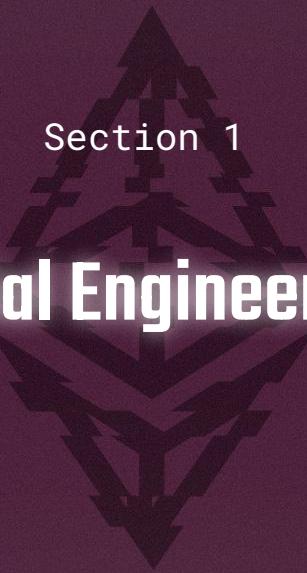
Pig Butchering, Drainers and Job Scams

Luker

Director of Security, Metamask

The Most Depressing Talk at Devcon





Section 1

Social Engineering

Social Engineering

- 98% of all cyber attacks involve social engineering.
- Everyone can be a target, regardless of experience.
- In September 2024, IC3 reported over 69K crypto-related complaints with more than \$5.6B in losses.

Social Engineering

 **ZachXBT** 
@zachxbt

1/ An investigation into how Greavys (Malone Iam), Wiz (Veer Chetal), and Box (Jeandiel Serrano) stole \$243M from a single person last month in a highly sophisticated social engineering attack and my efforts which have helped lead to multiple arrests and millions frozen.



The image is a composite of two screenshots. The left screenshot shows a digital wallet interface with a large yellow Bitcoin logo in the center. Below it, the balance is displayed as 4,064.3769 BTC, with a total value of \$238,709,068.03. Below the balance are two buttons: 'Send' on the left and 'Receive' on the right. The right screenshot is a network diagram illustrating a social engineering attack. It shows a central node with a profile picture connected to various other nodes, each representing a different individual or device. The connections are represented by lines, showing the flow of information or the scope of the attack.

6:03 AM · Sep 19, 2024 · 7.6M Views

These security groups and projects are all working together...

Blockaid

 **Chainalysis**

 **ChainPatrol**

 **CRYPTOFORENSIC INVESTIGATORS**

 **CRYPTO ISAC**

 **Forta**

 **Hexagate**

MetaMask Security

 **SEAL-ISAC**

 **WALLET GUARD**

**... to put in guardrails to warn
users when they're about to do
something dangerous...**



Deceptive site ahead

MetaMask flagged the site you're trying to visit as potentially deceptive. Attackers may trick you into doing something dangerous. [Learn more](#)

Potential threats on <http://maskportfolio.com/> include:

- Fake versions of MetaMask
- Secret Recovery Phrase or password theft
- Malicious transactions resulting in stolen assets

Advisory provided by multiple sources, including Ethereum Phishing Detector, SEAL, ChainPatrol, and PhishFort..

If we're flagging a legitimate website, please [report a detection problem](#).

If you understand the risks and still want to proceed, you can [continue to the site](#).

[Back to safety](#)

... to put in guardrails to warn
users when they're about to do
something dangerous...
... now in Dark Mode™



This website might be harmful

MetaMask flagged the site you're trying to visit as potentially deceptive. Attackers may trick you into doing something dangerous.

Potential threats on include:

- Secret Recovery Phrase or password theft
- Malicious transactions resulting in stolen assets
- Listed on the blocklists of SEAL, ChainPatrol, or MetaMask

[Back to safety](#)

[Proceed anyway](#)

If we're flagging a legitimate website, please [report a detection problem](#).



If you found this helpful, click here to share on X!



METAMASK
Phishing Protection

Social Engineering Tips!

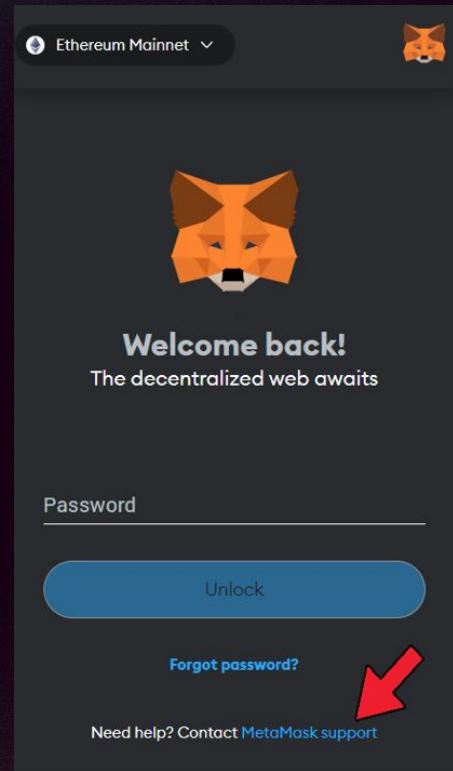
Tips for Users:

- Support is never going to contact you
- Never ever trust support links from social media, forums, or unsolicited email
- If “support” does contact you, exit that conversation, then contact support yourself through a *verified contact method*.

Social Engineering Tips, Part 2!

Tips for Developers:

- Clearly communicate to your users what the official channel is to contact support.
- Consider putting this link in a *very obvious* place in your product.



Section 2

Drainers

Drainers

Code written specifically to maximise the value of digital asset theft

- Employing various strategies to steal various asset types
- Sometimes involves custom smart contract logic
- Usually obfuscated JavaScript, sometimes compiled to WASM.

Typically distributed as a service

- We have various actors; the drainer vendors, affiliates, others

Code written specifically to maximise the value of digital asset theft

- Employing various strategies to steal various asset types
- Sometimes involves custom smart contract logic
- Usually obfuscated JavaScript, sometimes compiled to WASM.

Drainers: Key Activities and Tactics

Account Takeover

- X accounts: @SECGov (Jan2024), @Azuki (Jan2024), @DOHgovph (Apr2023), @VitalikButerin (Sept2023)

Phishing

- Typosquatting domains, brand impersonation domains, NFT airdrops with malicious metadata

Supply Chain Attacks

- Npm: @lottiefiles/lottie-player (Oct2024), @ledgerhq/connect-kit (Dec2023)

 vitalik.eth 
@VitalikButerin

To celebrate Proto-Danksharding coming to Ethereum, @ConsenSys is marking the moment with a commemorative NFT.

"Proto", honors the work of the devs who made this possible. The collection is free for the next 24 hours.

Claim your piece of history:



consensys.io

Explore the Merge with Consensys

ConsenSys invites you to explore the possibilities of a more sustainable, secure and scalable Ethereum.

3:54 PM · Sep 9, 2023 · 12.7K Views

32 Reposts 128 Quotes 891 Likes 16 Bookmarks



@ Who can reply?

People @VitalikButerin mentioned can reply



vitalik.eth  @VitalikButerin · 47m

Feel free to ask questions related to Danksharding. People I follow can reply (to minimize spam), everyone can quote, I'll check both!

6 38 5,289

Drainers: Impact

- The drainer is packaged so it's easy and quick to spin up for a campaign
- With various strategies employed, they can target many different Defi profiles with one campaign
- They are prevalent and consistent at targeting users



sudo rm -rf --no-preserve-root / 
@pcaversaccio

We're fucking drowning in SEAL 911 tickets every damn day, with people getting drained left and right. It's brutal, and the reality is we're nowhere near fixing this. The harsh truth? Most of these tickets are coming from basic web2 issues—phishing, malware, the usual bullshit. No amount of smart contract audits is going to save these people. This is the biggest security nightmare our industry faces currently.

2:31 AM · Oct 6, 2024 · 64.2K Views



37



78



421



59



Total victims Total - Multichain

215,931
Total victims

 @scamsniffer

... 5d 

Total Stolen Total - Multichain

\$246,506,821
Total Stolen

 @scamsniffer

... 5d 

Drainers: Notable Incidents

Trader loses \$1.28m in PLNE and other altcoins to Inferno Drainer-linked wallet

By Rony Roy October 14
Edited by Dorian Batycka

Crypto trader loses \$55M in DAI to phishing attack using Inferno Drainer kit

The attacker has reportedly converted some of the stolen assets into Ethereum.



Oluwapelumi Adejumo
Aug. 21, 2024 at 12:45 pm UTC

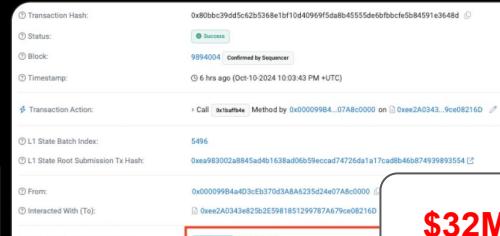
\$1.28M



@PeckShieldAlert

\$35M

#PeckShieldAlert The address 0xEab2E...a393 has been drained 15,079 \$fwDETH (worth ~\$35M) signing a #phishing permit signature



\$55M

Crypto Wallet Owners \$32 Million Loss in \$pWETH Due to Phishing Scam

2 mins

By Lynn Wang

28 September 2024, 17:44
GMT+0000

\$32M



MS Drainer Scam I

\$3M

Hard, \$3M in Crypto Stolen on Christmas

Scammers use MS Drainer to drain \$3M in crypto on Christmas Day, highlighting the evolving cyber threats in cryptocurrency.

By Kelvin Munene
Murithi

December 26, 2023

\$0.8M

Monkey Drainer Scam Strikes Again, Steals \$800K of NFTs

\$4.4M

Using scammer made on Cr

Pink Drainer Hackers Drain \$4.4 Million in LINK

2022 at 6:11



Author: Wayne Jones

Last Updated Dec 29, 2023 @ 15:09

Drainers: Biz Ops

- DaaS work like traditional tech companies
- Provide support to their affiliates
- They even buyout rival drainers to acquire customers and code bases

Inferno Support today at 21:38

Hello everyone,
Today is a big day for draining as the Inferno team is delegating the entire Inferno project to the Angel team

This was a very hard decision for us, because we are really attached to our drainer but it is time for us to quit. However, we find the Angel Drainer team competent enough to maintain the drainer (while keeping our code base and features such as 200+ protocols, autoclaims, bypasses as well as many big pending updates, new panel with logs handling and many other things) as they have shown they could be trusted with handling a drainer and big hits, without ever scamming or backdooring.

All of our customers will keep the same logins as well as stats, autosplit % etc. We have worked really hard with the Angel staff to put together the best of our previously respective drainers.



Angel Drainer absorbs Inferno's toolkit, becoming a larger threat to crypto wallets



By Cryptopolitan_News

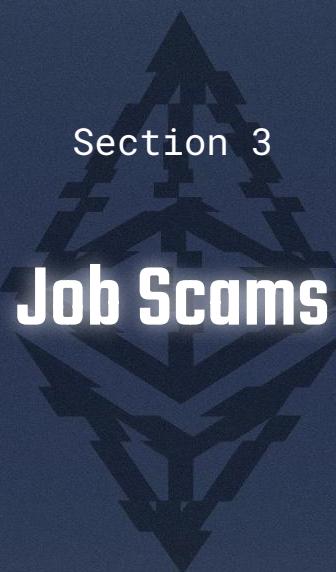
Created 23 days ago, last updated 22 days ago • 4 mins read

Drainers: Tips!

- Double check URLs
- Don't trust unsolicited messages
- Beware of giveaways and urgent requests
- Read the transaction screen and understand it before signing
- Regularly check wallet permissions
- Use hardware wallets for cold storage



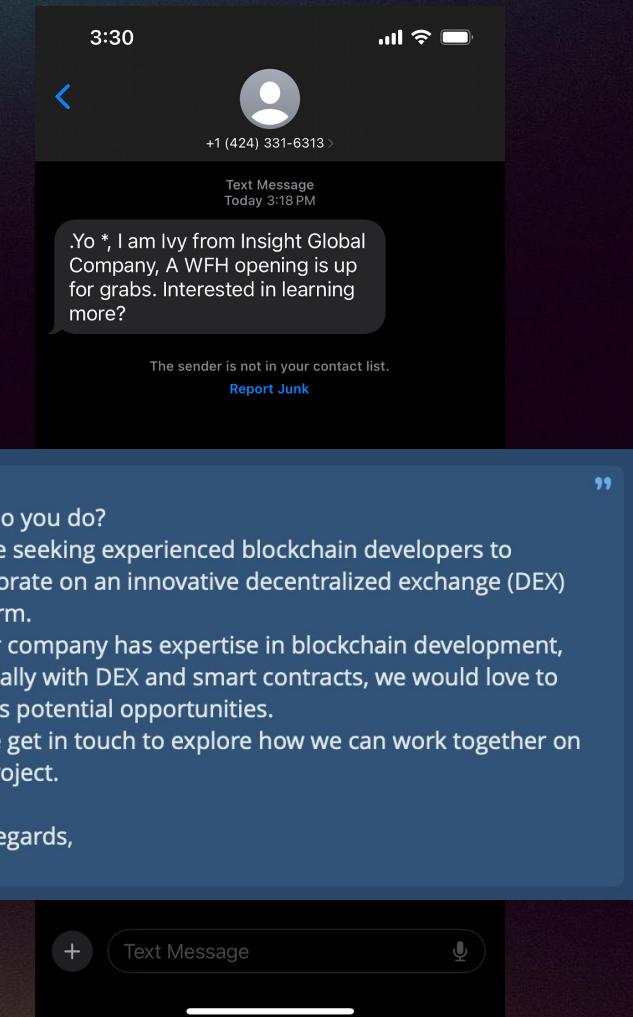
Don't Get Drained.



Section 3

Job Scams

Scammers can pose as recruiters.



Scammers can pose as recruiters.

- Will contact via social media or messaging app
- Will direct target to a Github for a job offer, "skills test," or to help with a bug
- Target will be asked to clone a repo or download files
- From there they will compromise the target's machine and can gain entry to the AWS of the target's current company

2. Node.js:

- API Creation: Design a simple REST API in Node.js that supports CRUD operations for managing a list of tasks. Include route definitions and handling of errors.

Problem Solving

- Given a scenario where your Python script's performance is significantly slower than expected, how would you diagnose and fix the performance issue?
- Describe a situation where Node.js would not be an ideal choice for a project. What alternatives would you consider?

Soft Skills:

- How do you keep up with the latest developments in software engineering and programming languages?
- Can you describe a challenging problem you encountered in a past project and how you resolved it?

Coding and Problem-Solving Skills With Real Project

Test Project (Python): <https://github.com/vincentchavez/PythonExam>

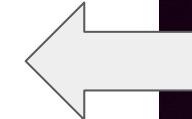
Problem 1: To get coin BTC/ETH rate by using the project.

Problem 2: As you see in the source code, this project keeps getting BTC/ETH rate from 5 markets every 5 seconds and prints out.

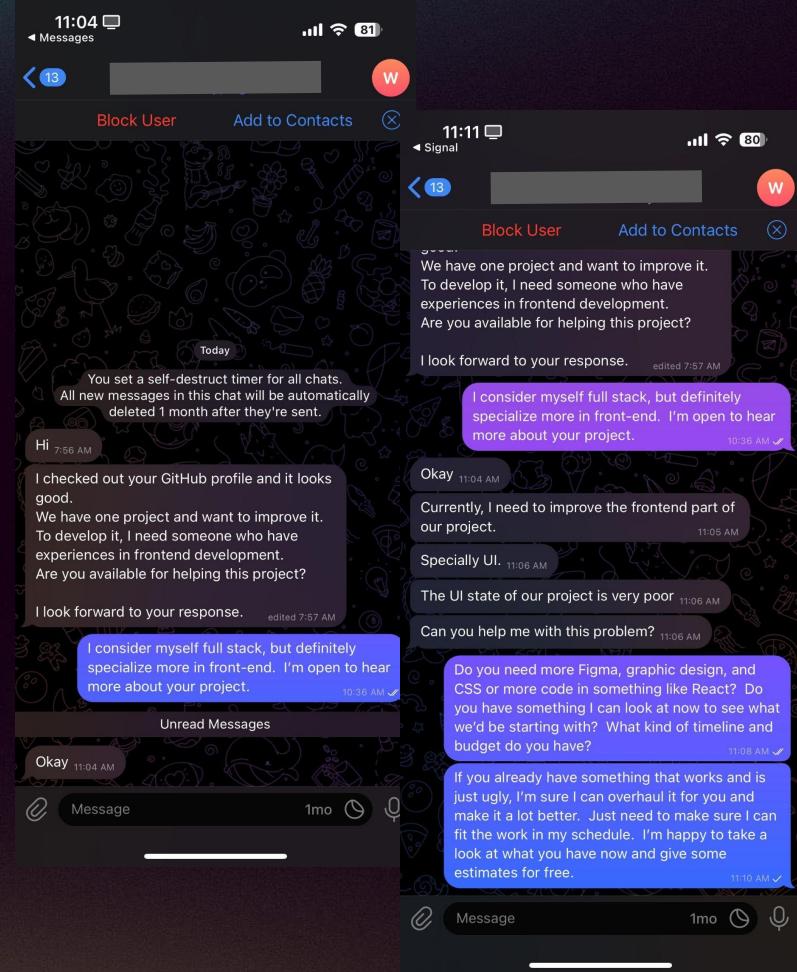
- Please try to find out and add 3 more similar markets API.
- Subscribe how to make graph of the rate by using Python.

Problem 3: Please describe how to improve the speed of the network communication in this code.

SCAM RECRUITER FORGERY



Scammers pose as collaborators.



Job Scams Avoidance Tips!!

- Be cautious if solicited to clone or download content associated with accounts listed in GitHub's advisor
- Don't run/build code from strangers w/out sandboxing
- Use different devices for messaging versus accessing crypto
- Check to see if the the user profile is recent
- Verify to see if the user has connections in your network
- Check if the repository is recent, with few commits and stars
- Use hardware wallets/hardware MFA



Scammers pose as job seekers.

ZachXBT 
@zachxbt

1/ Recently a team reached out to me for assistance after \$1.3M was stolen from the treasury after malicious code had been pushed.

Unbeknownst to the team they had hired multiple DPRK IT workers as devs who were using fake identities.

I then uncovered 25+ crypto projects with related devs that have been active since June 2024.

Job Scams

- US-based remote-first tech companies are being targeted
- Companies are beholden to sanctions violations laws



coderdan.eth 🐂 🎨 🎵

@coderdannn

We (@PixelcraftStuds) actually gave this guy a trial hire back in 2022 to do some game dev work and he was sketchy af, definitely felt like he could be a NK hacker. We fired him within a month.

He also tried to get us to hire one of his "friends" who was likely also a hacker.



jonathan(love)wu 🎵

@jonwu_

...

No bullshit I think I just interviewed a North Korean hacker.

Terrifying, hilarious, and a reminder to be paranoid and triple-check your OpSec practices.



zak.eth 🎵

@0xzak

...

literally every developer we've interviewed recently has likely been a north korean.

Job Scam Avoidance Tips!!!

- INVEST IN THOROUGH BACKGROUND CHECKS!
- Best practice: Principle of least authority
- Things to look out for:
 - No online presence or inconsistent online presence
 - Inability to answer basic questions about where they supposedly are
 - Background noise that sounds like call centers
 - Refusal to appear on camera during video calls

Alberto Mira
Blockchain Engineer & Full Stack Developer

Skills

DApp / DeFi / Dao / NFT Minting & Marketplace for P2E Game

Ethereum / BSC / Polygon / Avalanche / Harmony / Solana

Solidity / Javascript / Typescript / Rust / Php

EVM Tools & Library / Truffle / Hardhat / Remix / Web3.js / Ethers.js

Smart contract / OpenZeppelin / ERC20 / ERC721 / EPIT721 / EIP1155

React / Redux / Next.js / MUI / TailwindCSS

Vue.js / Vuetify / Nuxt.js

Node.js / Express / Laravel / GraphQL / REST API

Firebase / Firestore / MySQL / PostgreSQL / SQLite / MongoDB

AWS (EC2, S3, Cognito, DynamoDB, Lambda, Amplify)

Availability

English

Spanish

More than 40 hours / week

Weekend available


AlbertoMira114@gmail.com
+6469598488
<https://join.skype.com/invite/WnflG2U8IO>
Madrid, Spain
<https://upnp1114.dev.zeit.co/alberto>
<https://github.com/Alberto114>



Job Scams

TraitorTrader

Targets: CEXs and bridges via their engineers and devops.

Tactics: Impersonates recruiters or hiring managers. Utilizes job offers, technical job tests to deliver malware via malicious Github repos or npm packages. Previously used malicious trading apps. Then escalates from to fully rekt company & infra.

SquidSquad/DangerousPW/CryptoCore

Targets: Founders, CEOs, fund managers, admin keys

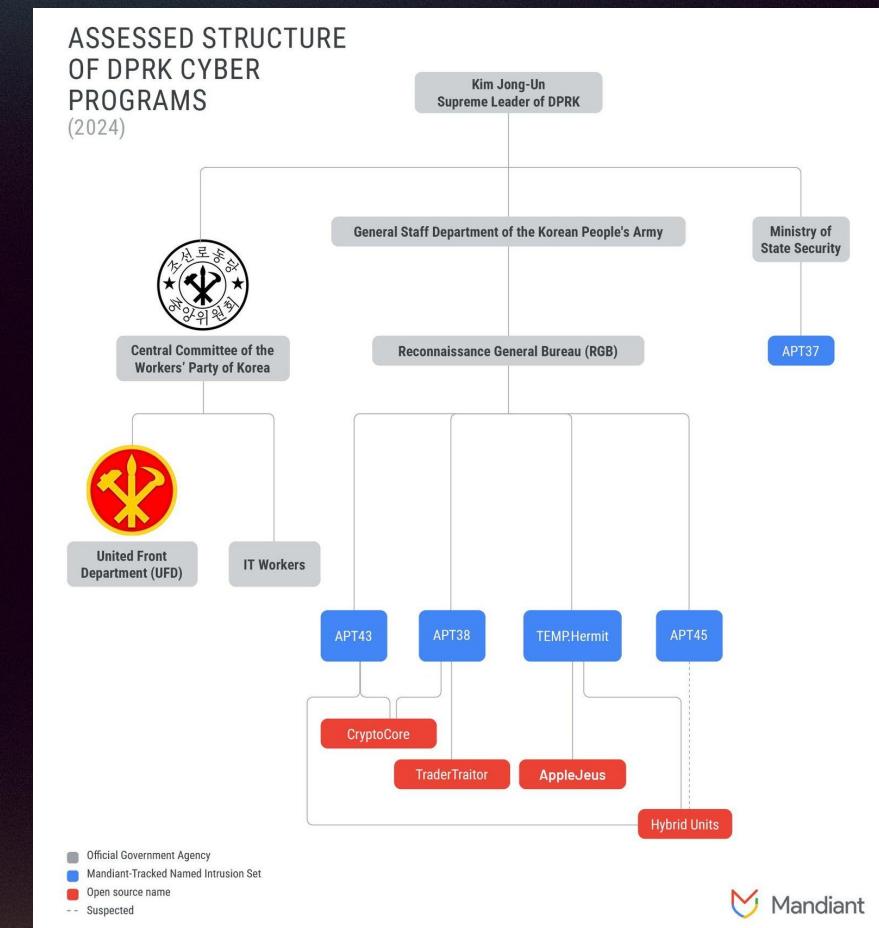
Tactics: Impersonates a VC and using a fake video call or fake Google Doc to land a remote-access trojan. Will also write super custom malware to compromise keys—especially admin keys.

Contagious Interview

Targets: Anyone in crypto, esp. those working in crypto.

Tactics: More general-purpose malware / infostealer. Steals from unsuspecting individuals via outreach on job forums, Linkedin, Upwork, Braintrust, etc.

Job Scams

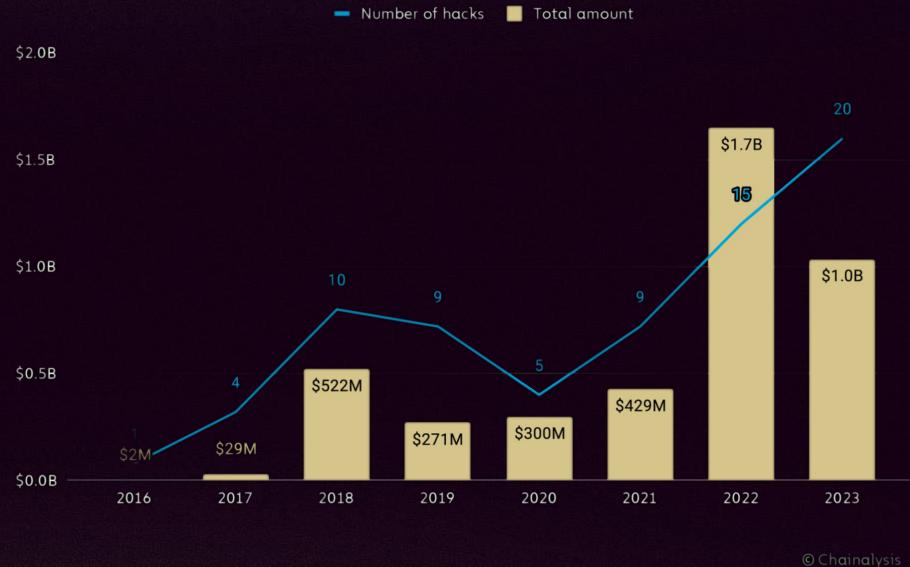


Job Scams

“North Korea’s launch of yet another intercontinental ballistic missile (ICBM) in February of 2023 displays unprecedented advancements in technological capability, defying expectations for a country under strong United Nations (UN) sanctions. North Korea has developed such capabilities in part by stealing billions in cryptocurrency.”

- *Georgetown Journal of International Affairs*

Estimated value stolen by DPRK-linked hackers, 2016 - 2023



© Chainalysis

Job Scam Facts!

- In March 2024, the UN estimated that these IT workers are generating between \$250M-\$600M every year for the DPRK
- Some estimates are over 50% applicants across crypto industry are dprk
- “Wagemole,” is the term for where threat actors seek unauthorized employment with organizations with potential for both financial gain and espionage





Section 4

Pig Butchering

Pig Butchering

What is “Pig Butchering?”

- 杀猪盘 (sha zhu pan) - *rough translation: pig slaughtering game*
- “Fattening up” the victim (pig) over time before the final theft.



Thu 23 Dec

(Messages and calls are end-to-end encrypted. No one outside of this chat, not even WhatsApp, can read or listen to them.)
Tap to learn more.

Hi, who are you? This is Emma.
Why are you in my address book,
do we know each other? 08:28

Hi, I don't know, you weren't in my
address book. Where did you get
my number? 15:51 ✓

Oh my goodness, I'm really sorry, I
saw your number on my phone, I
thought you were Eric, maybe I
stored the wrong number, you are
very similar to Eric's number, 15:53

No problem, who is Eric? 21:46 ✓

**The beginning of the process
is not always obvious.**

Pig Butchering

Confirmation Bias

- The tendency to interpret new evidence as confirmation of one's existing beliefs or theories



Pig Butchering

Romance Scams

- Targets loneliness and the fear of struggling



Pig Butchering

Steps:

- Presentation
- Grooming
- Pressure Tactics
- Cutting Off

Pig Butchering

A fake platform can be quite convincing.

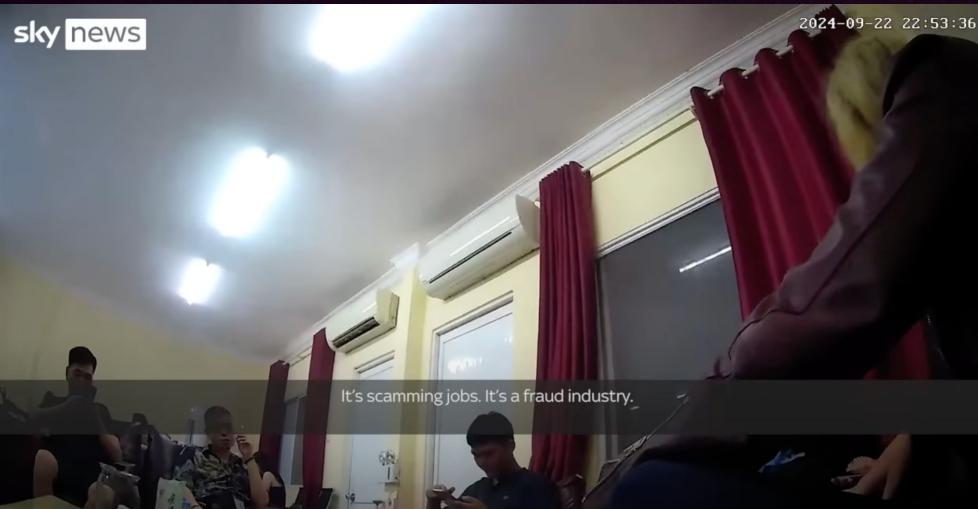


Pig Butchering

- The scammer is not operating alone
- The majority of these scams are conducted by criminal rings / organized crime syndicates
- Scammers are trained on tactics to gain trust and extract value. They have quotas



Pig Butchering



This is where the talk begins to get dark.

Pig Butchering

- Kidnapping

Pig Butchering

- Kidnapping
- Trafficking

Pig Butchering

- Kidnapping
- Trafficking
- Ransom

Pig Butchering

- Kidnapping
- Trafficking
- Ransom
- Forced Labor

Pig Butchering



Pig Butchering



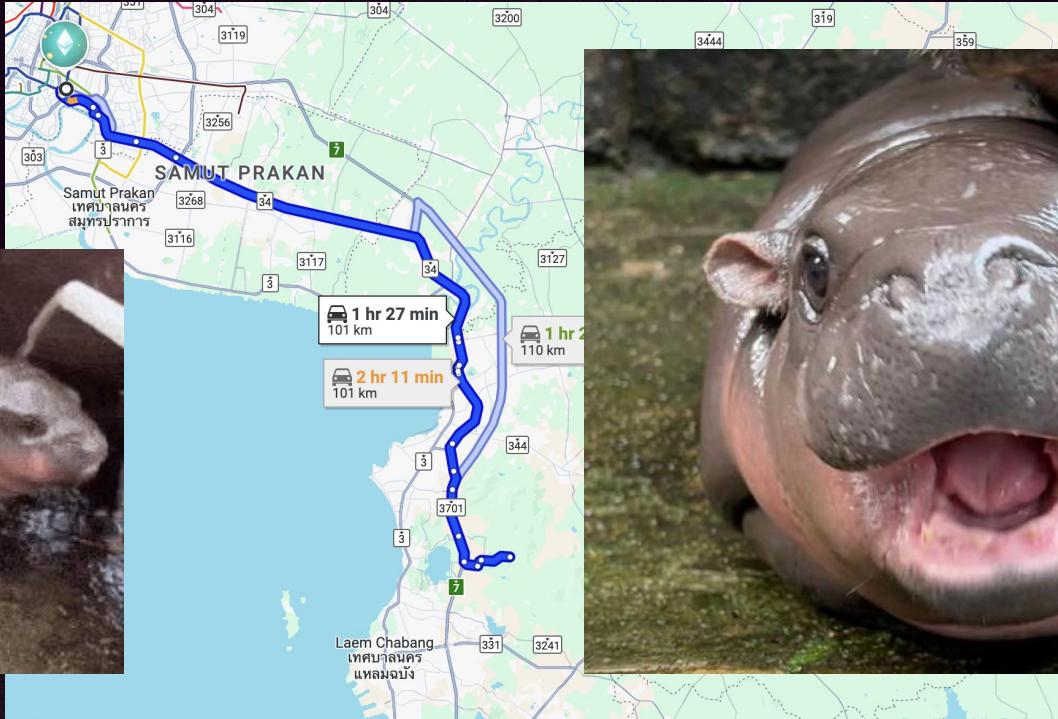
KK Park, Myanmar

Pig Butchering



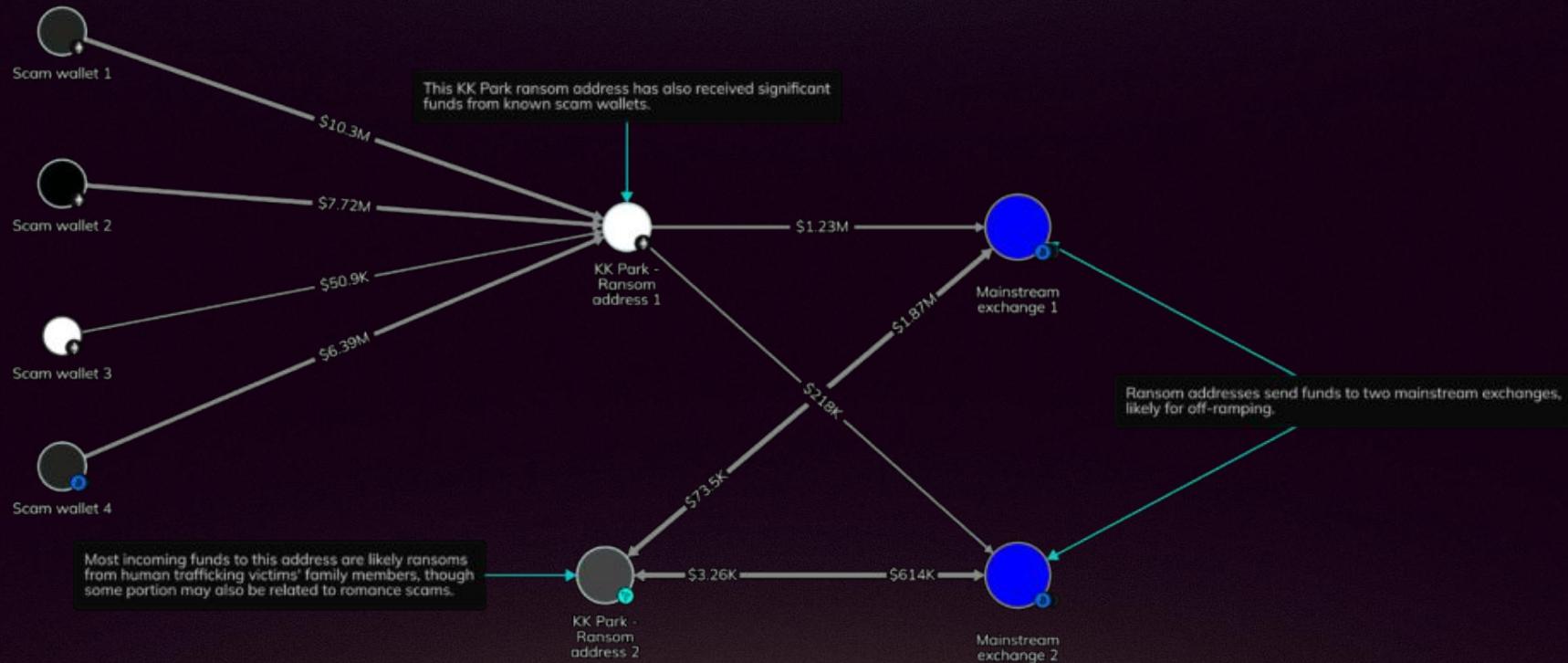
KK Park, Myanmar

Pig Butchering



Moo Deng, Khao Kheow Open Zoo

Pig Butchering



Chainalysis published this graph by Eric Heintz, Global Analyst at the Global Fusion Center of the International Justice Mission.

Pig Butchering



TRIGGER WARNING

Pig Butchering

 **Anonymous**
@anonymous778877 · [Follow](#)

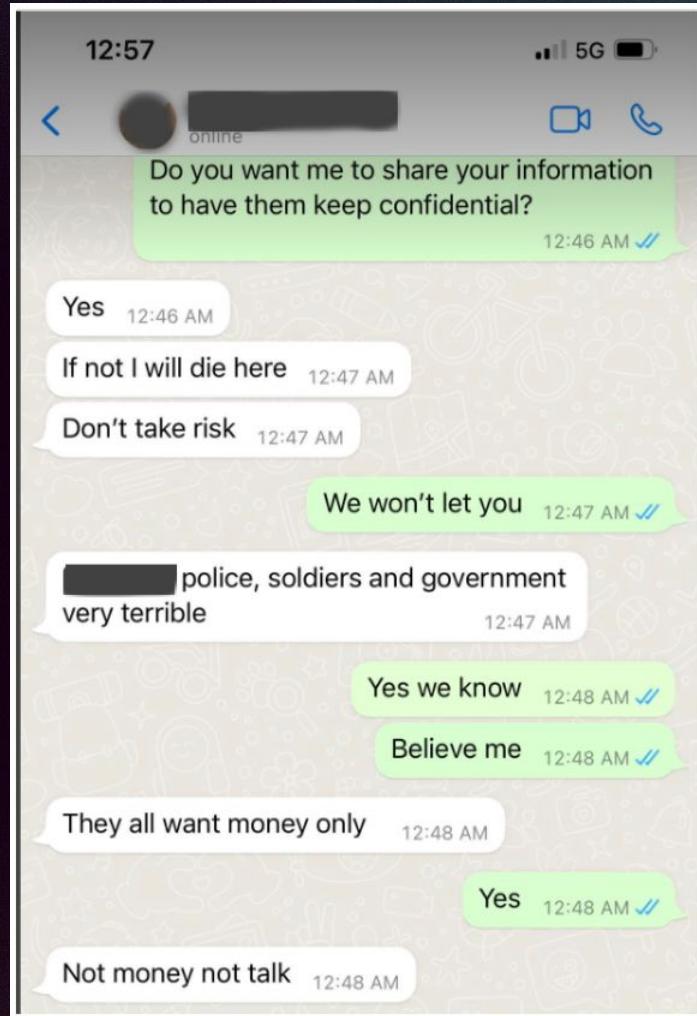
Most China citizen at Cambodia sihanoukville doing
[#scam](#),and those Cambodia police keep protect
scam syndicate



Continue watching on X

0:08 / 0:25

6:04 AM · Jun 11, 2022



"I was taught how to hit on them for about three or four days. After being friends for about a week, you go in for the 'kill'. I wondered when I scammed them, would they become penniless, would they face hardship."

Pig Butchering

Global Advance Projects (GAP)
globaladvanceprojects.org

Partner with us to 'bridge the GAP from captivity to freedom'.

WE ADVOCATE ON BEHALF OF VICTIMS OF HUMAN TRAFFICKING FOR FORCED CRIMINALITY AND WE PROVIDE THEM WITH:



FOOD



SHELTER



COMPASSION



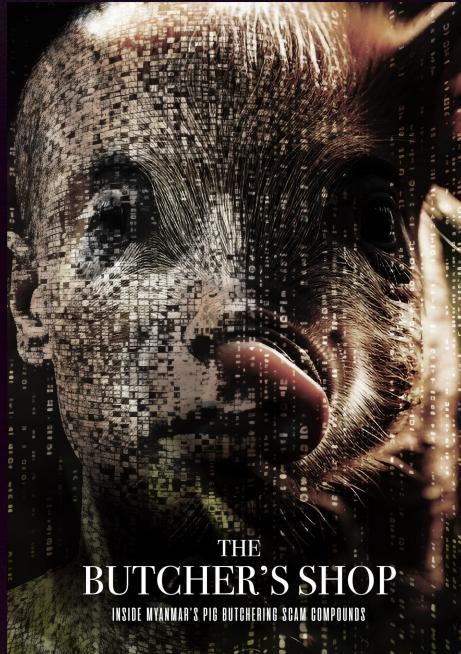
EMERGENCY AID



RESOURCES



STRATEGIES





That deserves a Unicorn Chaser.



That's All, Folks!

Luker

Director of Security, Metamask
luker@consensys.net



slides by Moo Deng - #hippo4lyfe

