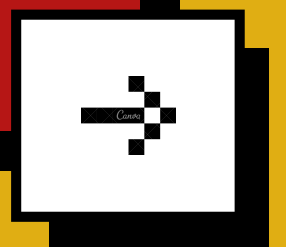


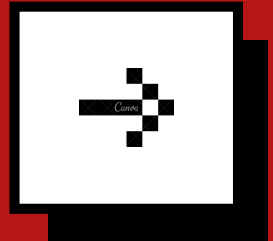
TUGAS COMPUTER FORENSIC



CRYPTOFORENSIC



DATA DIRI ANGGOTA



2540120603
Nicolas Saputra Gunawan

2540119633
Mikael Wiryamanta Wijaya

2540124620
Jeffrey Jingga

2540124740
Satya Kusuma

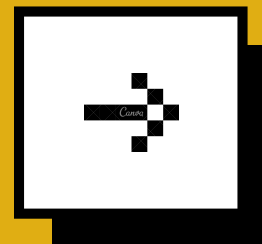
2540115181
Pitra Winarianto

DAFTAR ISI

Apa itu Blockchain &
Cryptoforensic?

Tools yang umum digunakan

Praktik



About Blockchain (in short)

- Merupakan teknologi yang digunakan untuk menyimpan data. Namun datanya tersimpan dalam bentuk rantai blok yang terhubung satu dengan lainnya dan setiap bloknnya berisikan sejumlah informasi (contoh: data transaksi).
- Setiap blok memiliki referensi ke blok sebelumnya dan setiap blok mendapatkan digital signature sebagai yang mengamankan data integrity dalam blok.
- Terkenal sebagai teknologi dalam cryptocurrency (bitcoin, eth, dan lainnya).

About Cryptoforensic (in short)

- Merupakan bidang dalam cyber security yang berfokus pada investigasi, analisis, dan information recovery terkait aset digital kripto. (layaknya bitcoin, ethereum, dsb).
- Bidang ini berperan penting dalam mengidentifikasi adanya pencucian uang, penipuan, dan ilegal act lainnya yang berhubungan dengan cryptocurrency.

TOOLS YANG UMUM DIGUNAKAN

- etherscan.io --> untuk mencari alamat pemilik wallet berada di platform mana saja.
- blockexplorer.one --> memiliki peran yang serupa dengan etherscan.io
- Orbit --> untuk melakukan auditing pada live contract.
- QLUE --> membantu investigator untuk melakukan tracking terhadap aktivitas ilegal terkait cryptocurrency.
- Chainalysis --> memberikan solusi bagi penegak hukum, badan pengatur, dan bisnis untuk melacak dan melacak transaksi cryptocurrency.

etherscan.io

Browser address bar: <https://etherscan.io>

ETH Price: \$1,552.45 (-0.24%) Gas: 10 Gwei

Etherscan Home Blockchain Tokens NFTs Resources Developers More Sign in

The Ethereum Blockchain Explorer

All Filters Search by Address / Txn Hash / Block / Token / Domain Name

Sponsored: Enter the world's biggest free crypto prize: [Win \\$1 MILLION USDC today at METAWIN.](#)

ETHER PRICE
\$1,552.45 @ 0.057782 BTC (-0.24%)

MARKET CAP
\$186,694,441,020.00

TRANSACTIONS
2,125.12 M (12.6 TPS)

LAST FINALIZED BLOCK
18356496

MED GAS PRICE
10 Gwei (\$0.33)

LAST SAFE BLOCK
18356528

TRANSACTION HISTORY IN 14 DAYS

Latest Blocks

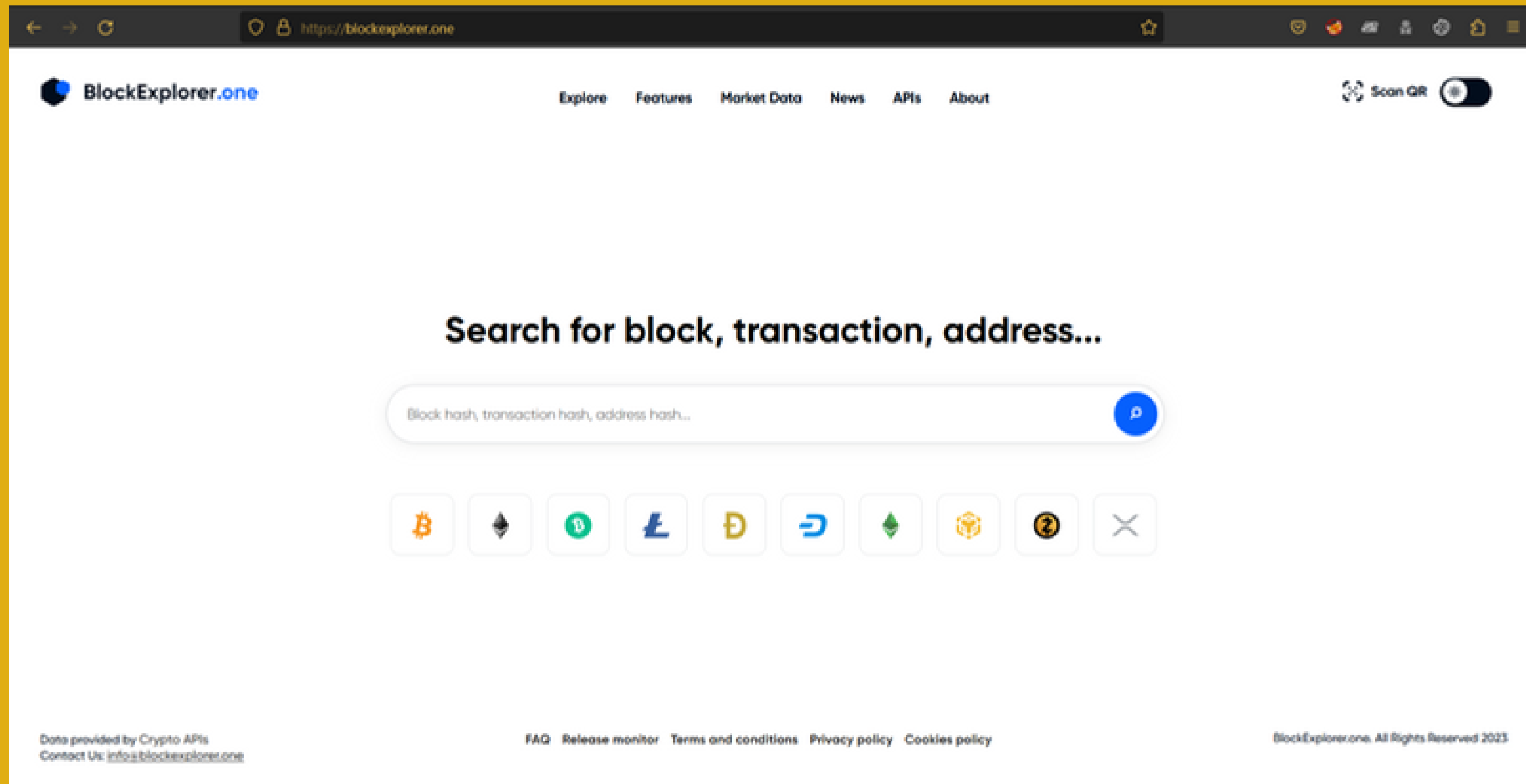
18356566 10 secs ago	Fee Recipient 0xEe6D07...16e1175D 183 txns in 12 secs	0.01853 ETH
18356565 22 secs ago		

Latest Transactions

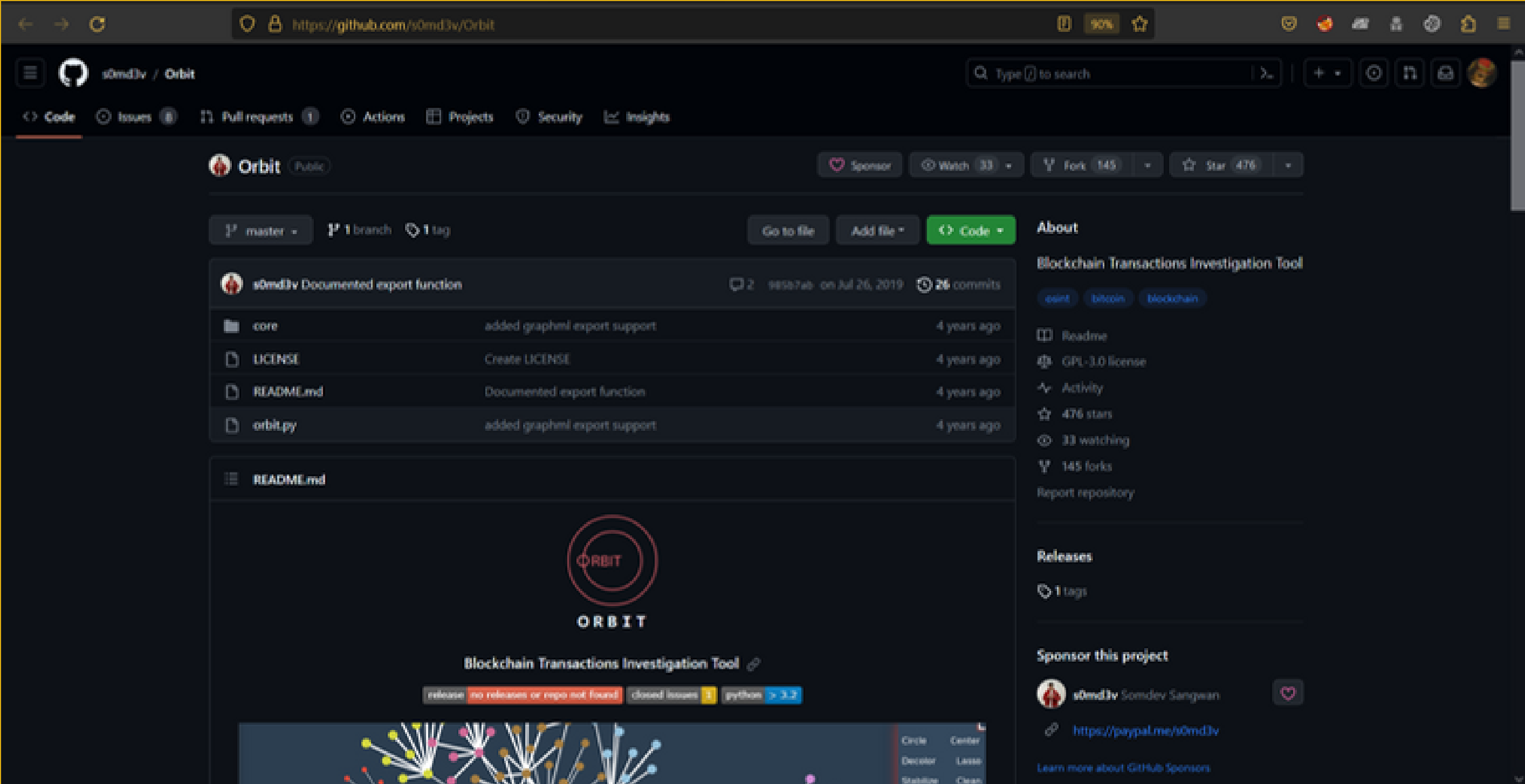
0xa8b1bdde20a2... 10 secs ago	From 0x9f4126...6f6F4668 To 0x3fC91A...4B2b7FAD	0.02172 ETH
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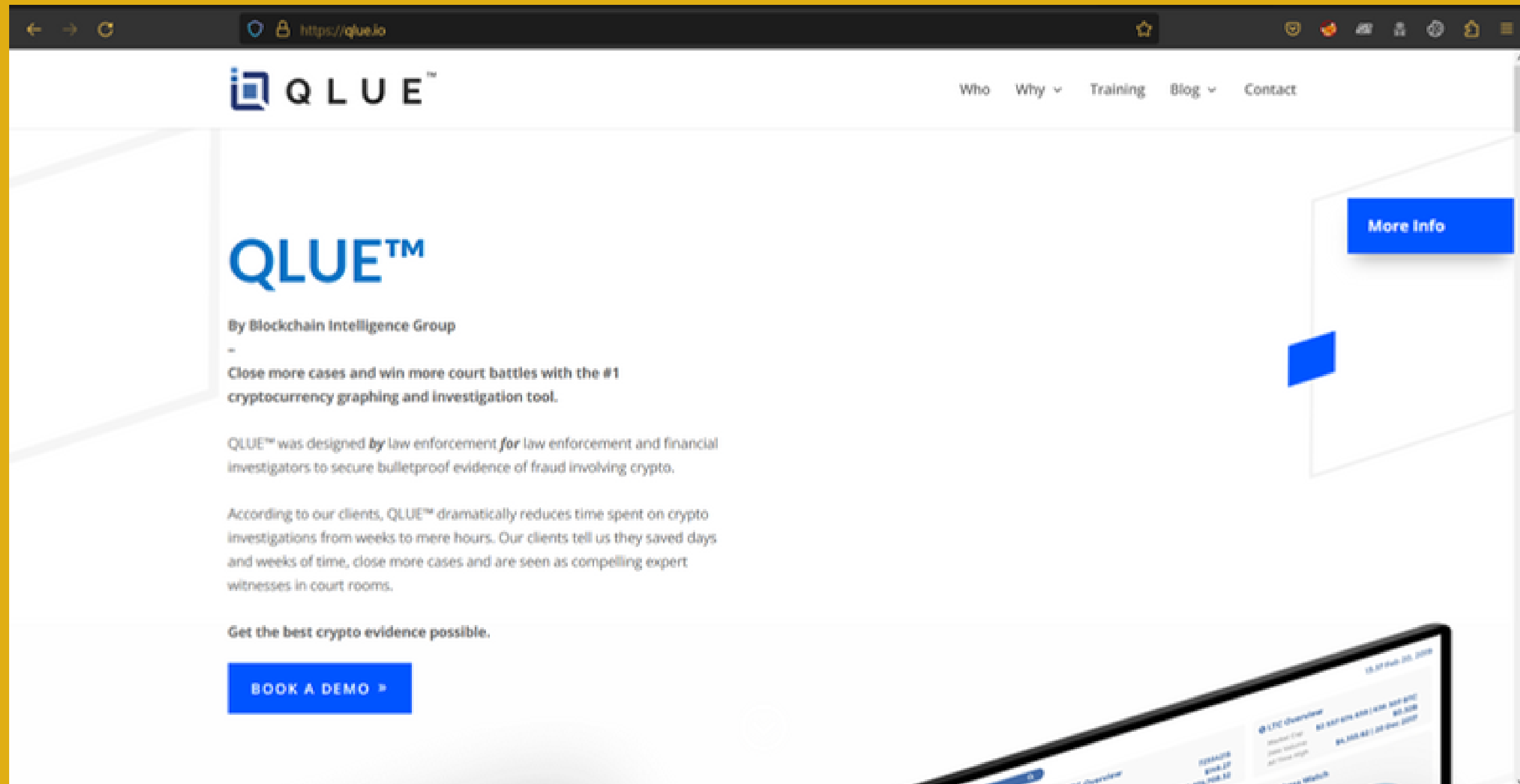
blockexplorer.one



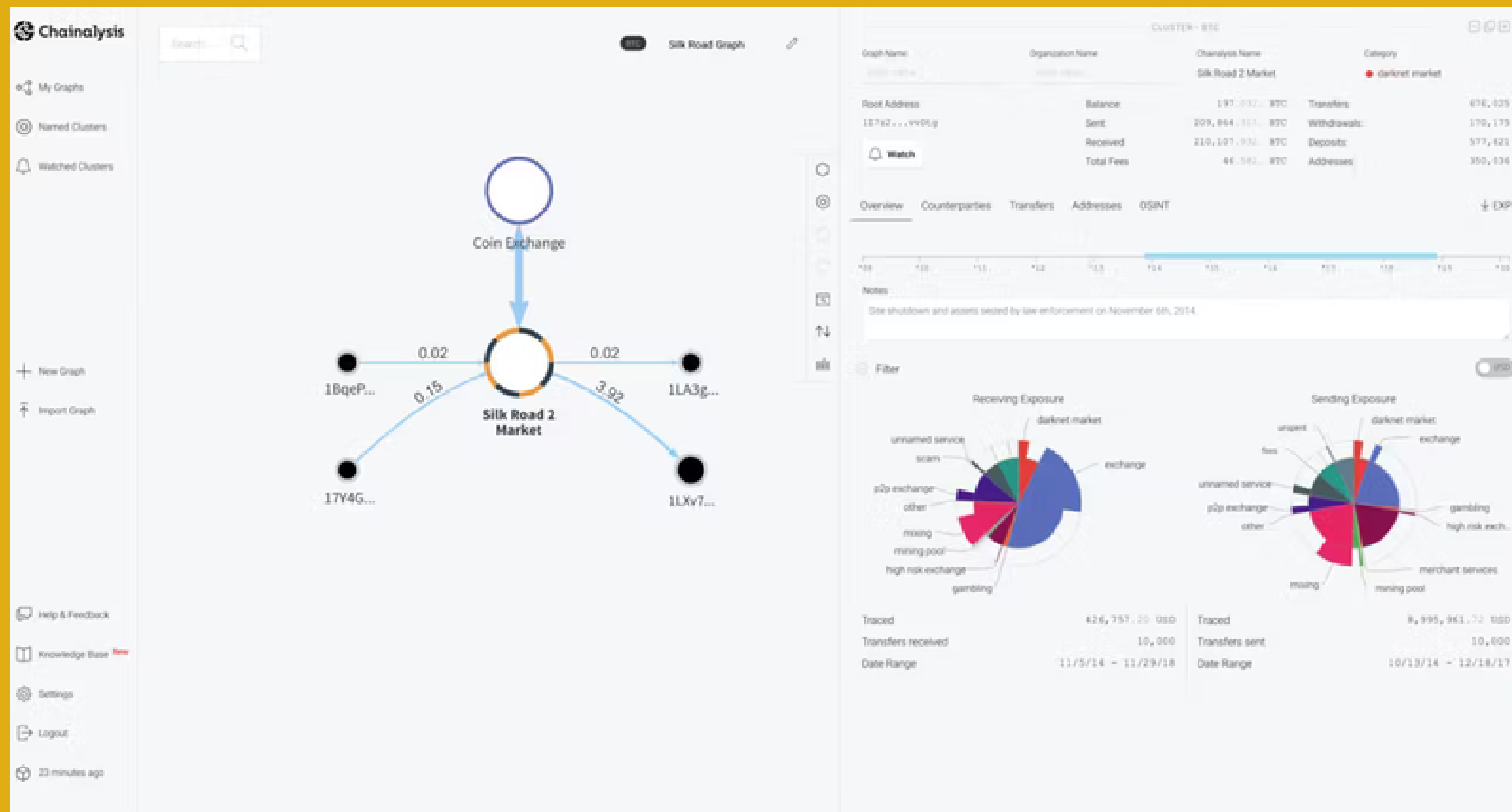
ORBIT




QLUE



CHAINALYSIS





CONTOH KASUS - MENCARI WALLET PENGIRIM

TRANSACTION HASH

0x6219185a3a0572f1223247c3c1519e5

26c59d911dcda15958ca7789273588a36

ETH Price: \$2,305.09 (+0.13%) Gas: 14 Gwei



Home

Blockchain ▾

Tokens ▾

NFTs ▾

Resources ▾

Developers ▾

More ▾

Sign In

The Ethereum Blockchain Explorer

All Filters ▾

0xf219185a3e0572f1223247c3c1519e526c59d911d0d15958ca7789273588a36 ✕



Sponsored: Green Bitcoin Revolution: Is this the next x100 token? Join GBTC Presale Now!



ETHER PRICE

\$2,305.09 @ 0.053946 BTC (+0.13%)



MARKET CAP

\$277,034,238,535.00



TRANSACTIONS

2,210.62 M (11.7 TPS)



LAST FINALIZED BLOCK

18912947

MED GAS PRICE

14 Gwei (\$0.68)

LAST SAFE BLOCK

18913010

TRANSACTION HISTORY IN 14 DAYS

1.260k

1.020k

Dec 17

Dec 24

Dec 31

Latest Blocks

Customize



18913034

14 secs ago

Fee Recipient [rsyno-builder](#)

188 txns in 12 secs

0.05251 ETH



18913033

26 secs ago

Fee Recipient [beaverbuild](#)

298 txns in 12 secs

0.00906 ETH

Latest Transactions

Customize



[0xbfe9113a73ff1d...](#)

14 secs ago

From [0x1f9090...e576c326](#)

To [0xa684e4...35ad0E54](#)

0.04746 ETH



[0xcf99aef69cc18e...](#)

14 secs ago

From [0x688724...63f32985](#)

To [0xFF0000...00000010](#)

0 ETH

Transaction Details < >

[Buy](#)[Exchange](#)[Play](#)[Gaming](#)Featured: Wallet-to-wallet instant messaging via [Blockscan Chat!](#)[Overview](#)[State](#)[Comments](#)[More](#)

Transaction Hash:

0x6219185a3a0572f1223247c3c1519e526c59d911dcda15958ca7789273588a36

Status:

Success

Block:

18356523

82 Block Confirmations

Timestamp:

16 mins ago (Oct-15-2023 02:58:35 PM +UTC)

Transaction Action:

Transfer 0.033796400458196725 ETH To [Ethpool: Staking](#)

Sponsored:



From:

0x95222290DD7278Aa3Ddd389Cc1E1d165CC4BAfe5 (beaverbuild)

To:

0xb364E75b1189Dcb8F7f0C856456c1ba8e4d6481b (Ethpool: Staking)

Value:

0.033796400458196725 ETH (\$52.48)

Transaction Fee:

0.000117986317428 ETH (\$0.18)

Gas Price:

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[Got it!](#)

Alamat Pengirim

Alamat Tujuan

PENJELASAN - Etherscan

Pada halaman utama terdapat search box yang dapat kita masukkan transaction hash. Setelah itu akan muncul tampilan informasi terkait transaction hash tersebut pada bagian transaction details.

Diketahui transaksi terjadi pada Oct-15-2023 02:58:35 PM +UTC sebesar 0.033796400458196725 ETH yang dikirimkan oleh 0x95222290DD7278Aa3Ddd389Cc1E1d165CC4BAfe5 (beaverbuild) ke wallet address 0xb364E75b1189DcbBF7f0C856456c1ba8e4d6481b (staking) pada block 18356523. Dapat disimpulkan bahwa pengirim melakukan proses transaksi dari platform beaverbuild.

Tidak hanya itu, terdapat informasi lainnya seperti jumlah crypto curency yang ditransaksi, jumlah gas price, dan transaction fee.

Address  0x95222290DD7278Aa3Ddd389Cc1E1d165CC4BAfe5    99+

Buy ▾

Exchange ▾

Play ▾

Gaming ▾

Sponsored:  bc.game - Win up to 5 BTC Everyday! Live casino & 20k slots [Play Now](#) beaverbuild 

MEV Builder



More ▾

Overview

ETH BALANCE

19.425408619562426249 ETH

ETH VALUE

\$30,186.48 (@ \$1,553.97/ETH)

TOKEN HOLDINGS

\$530.82 (77 Tokens)



More Info

PRIVATE NAME TAGS

+ Add

LAST TXN SENT

0xe6e6fb6ae2d26... from 20 secs ago

FIRST TXN SENT

0xf97d03429d58c... from 374 days 5 hrs ago

Multi Chain

MULTICHAIN ADDRESSES

19 addresses found via [Blockscan](#) ▾

Transactions

Internal Transactions

Token Transfers (ERC-20)

NFT Transfers



















Produced Blocks

Analytics

Comments

Latest 25 from a total of 435,845 transactions (+3 Pending)

 Advanced Filter

	Transaction Hash	Method 	Block	Age	From		To	Value	Txn Fee
	0x7907ca0118643218...	0x496e2061	(pending)	8 hrs 19 mins ago	0x814FaE...35980000 		beaverbuild 	69 wei	(Pending)
	0xb22209723f10f388b...	0x496e2061	(pending)	11 hrs 16 mins ago	0x758b81...CbaC7000 		beaverbuild 	69 wei	(Pending)
	0x8a1b3dbe63016504...	0x496e2061	(pending)	13 hrs 43 mins ago	0x763c39...61388000 		beaverbuild 	69 wei	(Pending)
	0xe6e6fb6ae2d260e6b...	Transfer	18356715	20 secs ago	beaverbuild 		0xEA7D82...E470B079 	0.07765223 ETH	0.00015833

PENJELASAN - Etherscan

Setelah membuka data dari wallet address pengirim:

`0x95222290DD7278Aa3Ddd389Cc1E1d165CC4BAfe5`

Kami dapat melihat beberapa transaksi yang berhasil dilakukan oleh address wallet `0x95222290DD7278Aa3Ddd389Cc1E1d165CC4BAfe5`

TOKEN HOLDINGS

\$895.00 (101 Tokens)



Search for Token Name



ERC-20 TOKEN*

43,047.73 Token

[Suspicious]



ERC-20 TOKEN*

450 Token

[Suspicious]



ERC-20 TOKEN*

9,000,000,000,000,000... Token

[Unsafe]



ERC-20 TOKEN*

3,999.99 Token

[Spam]



















































ERC-20 TOKEN*















































VIEW ALL HOLDINGS

Assets in Wallet (92)							
\$33,125.48		<input type="text" value="Search Token Name / Address"/>					
Asset	Symbol	Contract Address	Quantity	Price	Change (24h)	Value	
Ethereum	ETH	-	14.100158988993511...	\$2,300.92	▲ 0.05%	\$32,443.30	More ▾
Wrapped BTC	WBTC	0x2260FA...3b2C599	0.01878507	\$42,399.00	▼ 0.15%	\$796.47	More ▾
HoloToken	HOT	0x6c6EE5...a48526E2	10000	\$0.0024	▼ 1.46%	\$24.00	More ▾
Red-Eyed-Fro...	REEY	0x4D85C8...3e51aDC8	100000	\$0.000187	-	\$18.69	More ▾
Cronos Coin	CRO	0xA0b73E...4C34450b	175.39865531	\$0.098216	▼ 2.13%	\$17.23	More ▾
XY Oracle	XYO	0x55296f...8654E758	2513.74965613	\$0.006459	▲ 0.2%	\$16.24	More ▾
Request	REQ	0x8f8221...c37e938a	155.6146028	\$0.094156	▼ 0.88%	\$14.65	More ▾
Alchemy	ACH	0xEd0491...D823143d	200	\$0.021446	▼ 0.3%	\$4.29	More ▾
Prisma Gover...	PRISMA	0xdA4786...95af71C	2	\$1.23	▲ 5.82%	\$2.46	More ▾
Amp	AMP	0xf2081...D11095C2	249.06600249	\$0.003606	▲ 1.03%	\$0.90	More ▾
smol	SMOL	0x2216e8...E6391A7C	0.1	\$0.641078	-	\$0.06	More ▾
USDC	USDC	0xA0b869...3606e848	0.01003	\$0.999291	▼ 0.12%	\$0.01	More ▾
XEN Crypto	XEN	0x06450d...599a6Fb8	1337	\$0.00	▼ 0.08%	≈ \$0.00	More ▾
Tokenize Emb...	TKX	0x667102...9E480a88	0.00003	\$13.380697	▲ 3.95%	≈ \$0.00	More ▾
Oryxcoin	XCN	0xA2cd3D...ED94fb18	0.16534267	\$0.001471	▼ 6.4%	≈ \$0.00	More ▾
XDEFI	XDEFI	0x728886...1dE08777	0.00001	\$0.183653	▲ 0.32%	≈ \$0.00	More ▾
Ethereum	ETH	-	500	-	-	-	More ▾
Coconut Gun	COCONU...	0xdEb806...Cd77d7a3	59414.018285798	-	-	-	More ▾
Remilio Worl...	RWO	0x637529...19b30A1F	81754407.1378439182...	-	-	-	More ▾
Tether USD	USDT	0xeF89e5...e70AA0eE	1850	-	-	-	More ▾

Xiao Inu	XINU	0xA586D5...DE1d2778	266488313.123494922	-	-	-	More ▾
Manga DAO	MANGA	0x018373...056A3904	6655218060.89686803...	-	-	-	More ▾
USA	USA	0xCff142...1a55df32	3500	-	-	-	More ▾
Blue Collar ...	BLUE	0x848152...6F22f359	900000	-	-	-	More ▾
Qamar	QAMAR	0x5AA209...C6d7373	706972353.922436153	-	-	-	More ▾
环球股	HQG	0x57b9d1...DeDBE7ed	2.852	-	-	-	More ▾
PepeTrue	PEPEtr...	0x34a10c...3c027B37	0.00040045	-	-	-	More ▾
ERC-20 TOKEN...	-	0x003716...bCD67000	4000	-	-	-	More ▾
Cat Crab Col...	CatCRA...	0x2a91A4...Bd7E842C	4693301995.44439720...	-	-	-	More ▾
Ethereum	ETH	-	1459.78	-	-	-	More ▾
BENANCE	BENANC...	0x98f3A5...7bFd3E01	0.750000005826528773	-	-	-	More ▾
Speckle	SPECK	0xf44d25...eCF2E19	30	-	-	-	More ▾
Son Goku	SONGO	0x1CF0C1...0870e991	41173484.867042876	-	-	-	More ▾
ERC-20 TOKEN...	-	0x808070...51441256	8	-	-	-	More ▾
Yaozui Drago...	YAOZUI	0xe028D3...506C65A4	1269880266.050886266	-	-	-	More ▾
Bitcoin	BTC	0x51b9D0...768BAa3a	50	-	-	-	More ▾
ISNXPool.com	\$ sUSD	0x65281b...4040fdFC	826.15	-	-	-	More ▾
Kojiro Inu	KOJIRO	0x5608f5...96f40030	1367129362.046865881	-	-	-	More ▾
ERC-20 TOKEN...	-	0x2bc108...5E4FF5f6	1	-	-	-	More ▾
ERC-20 TOKEN...	-	0xC8B9B0...02742A65	8	-	-	-	More ▾
Rip Gary	GARY	0xCd698c...1ee9f0A9	483995900.507812168	-	-	-	More ▾
Sculpt3DToke...	SCULP	0x088C48...46458618	50	-	-	-	More ▾
TallToken	TALL	0xC7737d...4aC03A30	250	-	-	-	More ▾
ERC-20 TOKEN...	-	0x237975...56ce4d96	1	-	-	-	More ▾
Beep	BEEP	0x9A00f1...7EEe8913	1	-	-	-	More ▾

	Hassan	HASSAN	 0xfA2a5F...7f9637aB	6945615637.993340446	-	-	-	More
	Seekers Gaze	GAZE	 0x2497D9...4c158fb6	19400000	-	-	-	More
	ERC-20 TOKEN...	-	 0x5A2b6a...eFC81ba6	1	-	-	-	More
	Gary7Token	G7T	 0x2Cd1b2...25a6dfDF	1	-	-	-	More
	MarvelCoin	MARV	 0xd96EoS...606d896f	50	-	-	-	More
	Cat Arm	CATARM	 0xA0d21f...D2b4E8B4	69088800	-	-	-	More
	Crash	CRASH	 0xbF3141...50f0e2Cb	5945396721.337699944	-	-	-	More
	ERC-20 TOKEN...	-	 0x1f6b71...FB527B4C	1	-	-	-	More
	OCCoin	OCC	 0x4665e2...F63C7941	770	-	-	-	More
	Ethereum	ETH	-	600	-	-	-	More
	# LiquidEthe...	Visit ...	 0x5f8cc2...E48c1389	1.7	-	-	-	More
	# apy-eth.ne...	Visit ...	 0xA3E4b2...dFA8A918	1.4	-	-	-	More
	ERC-20 TOKEN...	-	 0x354039...3931Cca8	1	-	-	-	More
	XRP	XRP	 0x58912F...750364b0	631358.96	-	-	-	More
	I ELIGIBLE	TONCry...	 0xC15C43...Dac060Fo	193	-	-	-	More
	Yellow Team	YELLOW	 0x66A39D...7bd56716	37.44	-	-	-	More
	ERC-20 TOKEN...	-	 0x38316F...7cd63321	1	-	-	-	More
	Dojo Finance	DOJO	 0xFF0D06...4D5B3a33	403020161.94844603	-	-	-	More
	Galax		 0x9f7aDB...E95a8576	2	-	-	-	More
	ERC-20 TOKEN...	-	 0xc07D83...Ed4E83C2	1049	-	-	-	More
	TIME Token	TIME	 0x0f8F39...4351123B	155.37	-	-	-	More
	Bitcoin	BTC	 0xdA2333...3224d1AF	250	-	-	-	More
	ERC-20 TOKEN...	-	 0x9A94F5...045a5D41	450	-	-	-	More
	oxxo		 0xAb6720...B41AaE9e	2	-	-	-	More
	\$ usdoin.gi...	Visit ...	 0xA5AE38...1B1D7058	4999.99	-	-	-	More

	It Eth what ...	Stoiol...	 0xf88D69...91940F50	194918.416766497	-	-	-	More
	NuPoW Quartz	NPQ	 0x5078dd...fA02EoS	18.4467440737095516...	-	-	-	More
	Tether USD	USDT	 0x0d6390...C595075F	1	-	-	-	More
	rake		 0x95F194...FBA22857	3	-	-	-	More
	I usdoin.fi...	Visit ...	 0xAe98D3...2B76EoSb	4999.99	-	-	-	More
	ERC-20 TOKEN...	-	 0xd31D2C...Dd494Aa9	9000000000000000000...	-	-	-	More
	ERC-20 TOKEN...	-	 0xe8e688...cB418FB4	43047.73	-	-	-	More
	Conor Token	CONOR	 0xF16260...7cb0dfD9	1283197413.963529607	-	-	-	More
	Pephereum	PEPHER...	 0xE679E9...3091E0f3	1380272009.454744369	-	-	-	More
	\$ usdswap.or...	Visit ...	 0x72A934...d41c64de	3999.99	-	-	-	More
	Mailbox	MAIL	 0xa245dF...1ace2d64	49000000	-	-	-	More
	# apyeth.net	Visit ...	 0x2b4F9a...33E68215	1400000	-	-	-	More
	MevBot	mBot	 0xE94EoS...e0933Cd1	50	-	-	-	More
	Gamma Stakin...	\$VeN	 0xe11Aab...C39B7EoS	0.000002	-	-	-	More
	Pikechu	PIKA	 0x6aDE03...7F5F9E5o	3019999999999.99999...	-	-	-	More
	# wbtO.gift	Visit ...	 0xFe0bb2...241cBCd0	0.7	-	-	-	More
	# aeth.netwo...	Visit ...	 0x372d6a...855effEa	1.4	-	-	-	More
	ERC-20 TOKEN...	-	 0xfAFoS...5fb7A872	3999.99	-	-	-	More
	Sun Tzu	SUNTZU	 0xe960ba...9da13610	9512982666.907466642	-	-	-	More
	ANON	ANON	 0xF04eDo...05f62d78	29999999.999999999	-	-	-	More
	ERC-20 TOKEN...	-	 0x90013B...dae6b5FE	1	-	-	-	More
	ApeGPT	ApeGPT	 0xEF4c09...A428e13e	21229378082.5934468...	-	-	-	More

PENJELASAN - Etherscan

Adapun pada bagian transaction details, terdapat token holdings yang merupakan asset yang dimiliki oleh seseorang. Ketika dibuka, kita dapat melihat semua asset yang dimiliki oleh si pengirim, dan diantaranya terdapat beberapa token yang dikategorikan sebagai "Suspicious", "Unsafe", dan "Spam".

THANK YOU!

I hope you learned something new!

