



Amity University
Cybercup 2023

BLOCKCHAIN AND CYBERSECURITY

Develop a system to monitor and track activities being carried out on dark web or using various cryptocurrencies under the umbrella of anonymity

PRESENTED TO
CyberCup 3.0 Jury

PRESENTED BY
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What is the issue?

Cryptocurrency crimes and scams are inevitable, and there's no place better than the dark web with the added anonymity.

What will we do?

- How to identify the link between onion sites (the dark web)
- How to identify the relationship between two bitcoin addresses
- How to trace addresses to a registered exchange

Tools required to track activity

- **Fresh Onions** (<http://zlal32teyptf4tvi.onion/>)
- **Wallet Explorer** (<https://www.walletexplorer.com/>)
- **Blockchain-Explorer** (<https://www.blockchain.com/explorer>)
- **Tor Browser** (<https://www.torproject.org/>)
- **IPFS** (InterPlanetary File System) **for access to Web3 Blockchain Data.**

What is Fresh Onions?

Fresh Onions is a crawler for websites. It basically tells you any hidden information that you might not see on an onion site and is great for identifying any of these 'digital fingerprints' we are looking for.

What is Wallet Explorer?

Wallet Explorer is useful as it identifies all Bitcoin addresses owned by one single wallet. When dealing with cryptocurrencies, one wallet may own numerous addresses.

The Blockchain Explorer is a standard tool & we will be using TOR to open any of the links during our project

What can we derive from a crypto address?



1NDyJtNTjmwk5xPNhjgAMu4HDHigtobu1s.

- How many transactions have taken place
- Where money has come from and how much
- Where money has been sent and how much
- A historical timeline of transactions
- And other associated bitcoin addresses in that wallet

Getting wallet hashes

Wallet  [0000011bd9] ([show transactions](#))

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address	balance	incoming txs	last used in block
1C7KzXkubVmZepxiXsAt2emhGneqWjY9fe	100.	31	811878
15RjtV2dCJWzxvxcCFfUncFaibo84CfgUr	28.6022	227	811877
197foX9T4TYTxs5BTvnM4u8fsX5J2sL4W	7.12110761	19	811828
1DGsRxZWgbQkD7Zd7R57p9ZNEWtSmmGWta	3.62307497	6	811837
12yiF5f3gd3YCB6eJvnJ9aiEQg74x5h2Wu	2.9	10	811844
1GibejVUugiAMpQXu84rnoxUM5K1uMEYjs	2.28431049	184	810813
158qz9XCMXBHRH7xA3Xj6CUVwQcNxQdWh	2.01	4	810921
194e9WBT7hXAt7NxCSrNjffzqxYqtkCbzY	1.97293397	1782	811836
197K8KHncimFzkzwjbyBE1thiAKMQ3vd4y	1.56126078	41	811887
1K6bqqBsP15xzFQwUA173c41R7Zu9YJiKD	1.51	5	811833
125y5FUxzC4bP7AtLvP84JqR1KBQ52HV4o	1.35	3	811878
1ArhLJFf1StMqnKeiszuTh2x8dCE5umxE	1.	26	811733
18FXhzRWtA9kthvnsJk5d6HMKgCChJ7YaR	0.99995017	24	811725
19U98DytaTxRXsVnSttA9s1sgbeQ9MaSGY	0.99828534	23	811880
1Q8hha6qvWKzcR7eQkkLUY1S8KMeeq8v9J	0.96254795	22	811746
1JPWTxWShf6EuesKw8qrcM6YBtVxnGdxoY	0.9290018	1271	811880
1NzXCygfUh88gPdc4wcdPjXmNyjjq5Dusy	0.92772485	1287	811719
1D478jJ6TSpkjEst3MhJxKoszwvp82Leri	0.8	26	811851
1H3s39wSdv3D1GryF32uhSpUGPuy5KE9TT	0.76546174	155	811844
19MX39vR6ka5wThRL7M7TLi2YHT4Cc4Y6i	0.76541459	4	805549

The Project

Enter Wallet Address:

0x29d7d1dd5b6f9c864d9db560d72a247c178ae86b

Fetch Wallet Info

Wallet Balance (Wei): **27114997589089545**

Recent History:

```
[
  {
    "blockNumber": "17155285",
    "timeStamp": "1682814263",
    "hash": "0x3991db47fce72c1b44e9ccce103d8879c35835749bd836bd774f2510f10923d3",
    "nonce": "5",
    "blockHash": "0xe3cb00ab09afd33a171e789207c9023614cad8bd6eb883c131b2286b9949f84b",
    "transactionIndex": "102",
    "from": "0x05617f0530b3ae57cada0606785c45643ccd1d22",
    "to": "0x29d7d1dd5b6f9c864d9db560d72a247c178ae86b",
    "value": "137421123650880",
    "gas": "21000",
    "gasPrice": "32650000000",
    "isError": "0",
    "txreceipt_status": "1",
    "input": "0x",
    "contractAddress": "",
    "cumulativeGasUsed": "10349152",
    "gasUsed": "21000",
    "confirmations": "1189789",
    "methodId": "0x",
    "functionName": ""
  },
  {
    "blockNumber": "17083013",
    "timeStamp": "1681936103",
```