

ICT2202 Digital Forensics Assignment 1

Team DigiFax

DigiTrace User Manual

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Keywords Used	3
Setup and Launch the tool	4
Start a New Case	5
Open an Existing Case	6
Filter Primary Addresses	7
Add Primary Address	8
Query Primary Address's Transactions	9
Customize Primary Address Profile Information	10
Open Primary Address in Etherscan Website	11
Hover Primary Address for Total Transaction Count	12
Secondary Address Filter	13
Change Secondary Address Display Order	14
View Detailed Transactions of Secondary Address	15
View Specific Transaction on Etherscan Website	16
Add Relationship	17
Drop Relationship	18
Drop Primary Address	19
Save Case Data	20
Save Case Data as Separate Case File	21
Open another Case	22
Close Current Case Dashboard	23
Show Keyboard Shortcuts	24

Keywords Used

- **Primary Address**

- Each address in the Nodes List

Nodes: Node address Add Node

0x7d17eec7cc85f08b83e6fe20af98365e0e4c66d2 [Zhao Xiang]
0x7129bed9a5264f0cf279110ece27add9b6662bd5 [Clement]
0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a [Xiu Qi] (highlighted)
0xbdb5829f5452bd10bb569b5b9b54732001ab5ab9 [Gerald]

- **Secondary Address**

- Each unique transaction address in the Transactions List

Display Order: Descending Transaction Type: Outgoing
From: 1/1/00 12:00 AM To: 7/11/21 2:21 PM
Transactions: Search for transaction...

[6] 0x1bb0ac60363e320bc45fdb15aed226fb59c88e44
[5] 0x74723606be0bbdc49939362a182a2ef4980eb84 (highlighted)
[4] 0x2910543af39aba0cd09dbb2d50200b3e800a63d2
[2] 0x8c12c0f24f0056f7c4abcca683824f6936f5e117
[1] 0xc98756f014149787cee4f74328c4925dc0ce9779
[1] 0x4b321f615455ca04969c5057f459a4dad42781ab
[1] 0x4c3e0e3c46a5b7222060b774206c92f9cd60d338
[1] 0x7e2592a940d9e751a98dd2dcc80d65935ec5b6c7
[1] 0x6a0ba7c063f30e200a3c9be07577b4409f29176e
[1] 0xd26114cd6ee289accf82350c8d8487fedb8a0c07

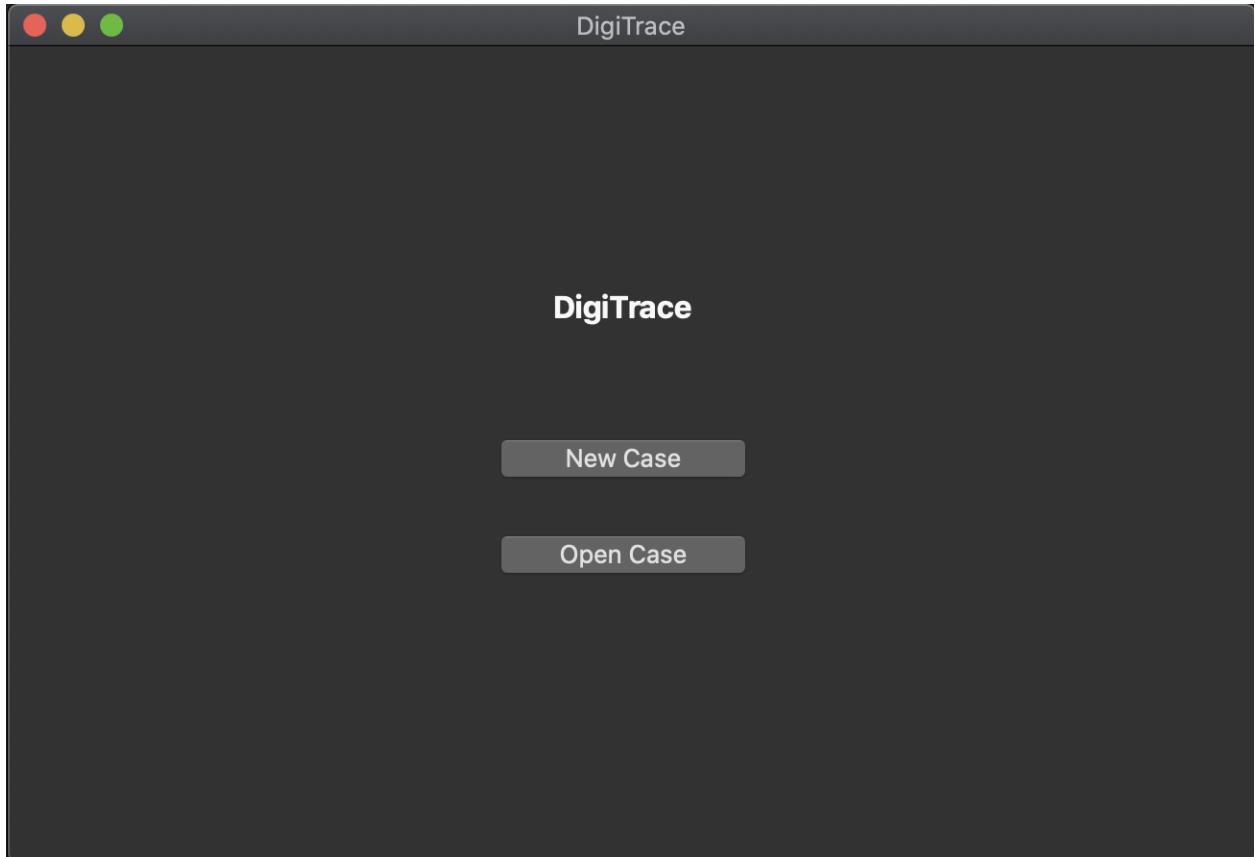
with this address already exists!)

- **Case Data**

- Includes Case Name, Case Description, Primary Addresses added by investigator, any queried Transaction Data and Stats

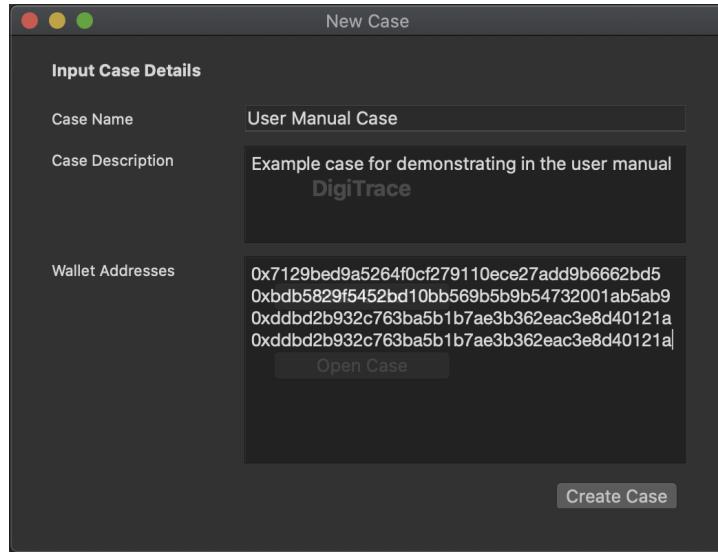
Setup and Launch the tool

1. Clone the project folder into local file system
2. Navigate to project folder
3. Run
 - a. pip3 install -r requirement.txt
 - b. python3 __init__.py
4. Tool should open up the Home window

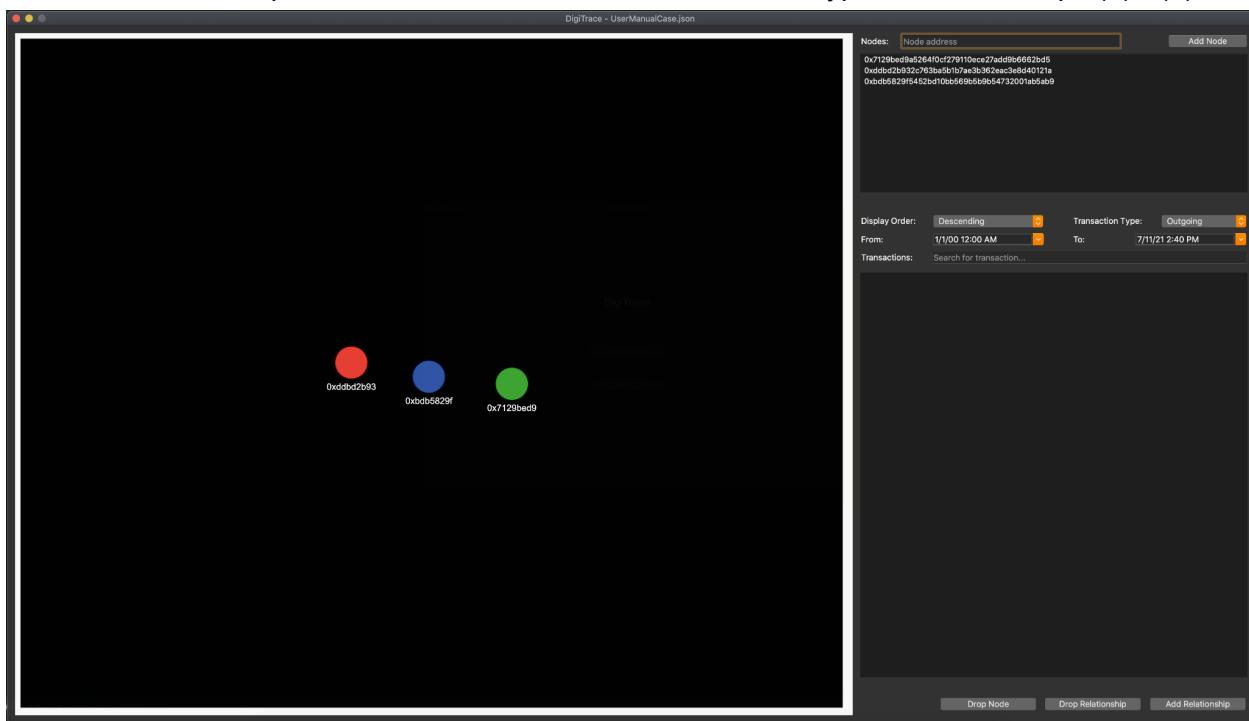


Start a New Case

1. Press the “New Case” button on the Home window
2. The New Case window should popup

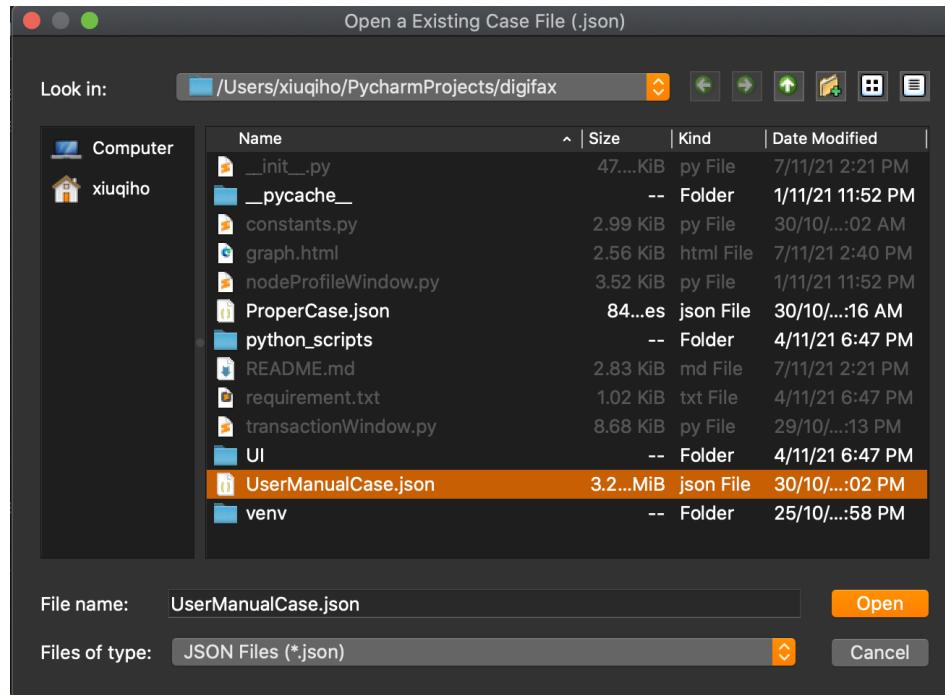


3. Input a case name (will be used as case file name “<name>.json”)
4. Input a case description
5. Input wallet address(es) to start the case with, where multiple addresses are separated by line breaks (you can do this later on if you wish to, there's no difference)
6. Press the “Create Case” button to create the case
7. Tool should open a dashboard window with information typed earlier in steps (3) - (5)

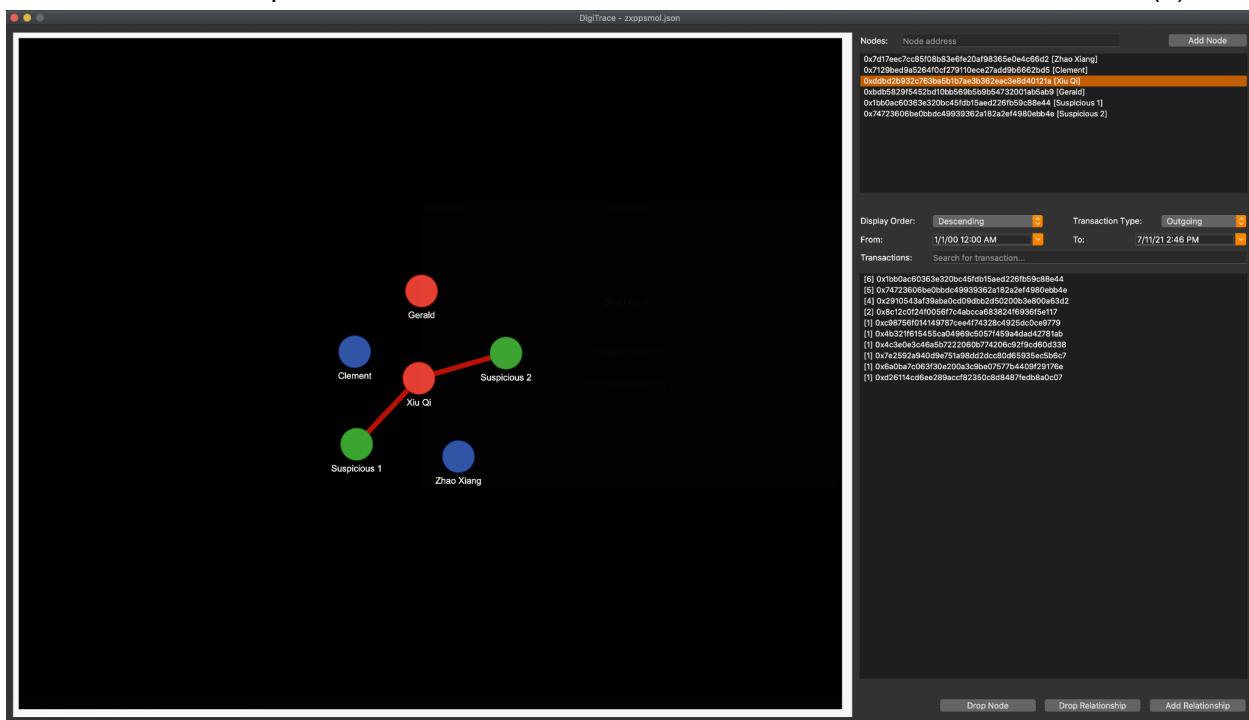


Open an Existing Case

1. Press the “Open Case” button on the Home window
2. A file dialogue window will open
3. Select a target case file (“.json” format) and press “Open”



4. Tool should open a dashboard window with case information from the case file in (3)



Filter Primary Addresses

1. Input a wallet address to filter the nodes (primary addresses) list by
2. Each time the search box is modified, the corresponding address filter result is displayed

Nodes: Add Node

0x7d17eec7cc85f08b83e6fe20af98365e0e4c66d2 [Zhao Xiang]
0x7129bed9a5264f0cf279110ece27add9b6662bd5 [Clement]
0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a [Xiu Qi]
0xbdb5829f5452bd10bb569b5b9b54732001ab5ab9 [Gerald]
0x1bb0ac60363e320bc45fdb15aed226fb59c88e44 [Suspicious 1]
0x74723606be0bbdc49939362a182a2ef4980ebb4e [Suspicious 2]

Nodes: Add Node

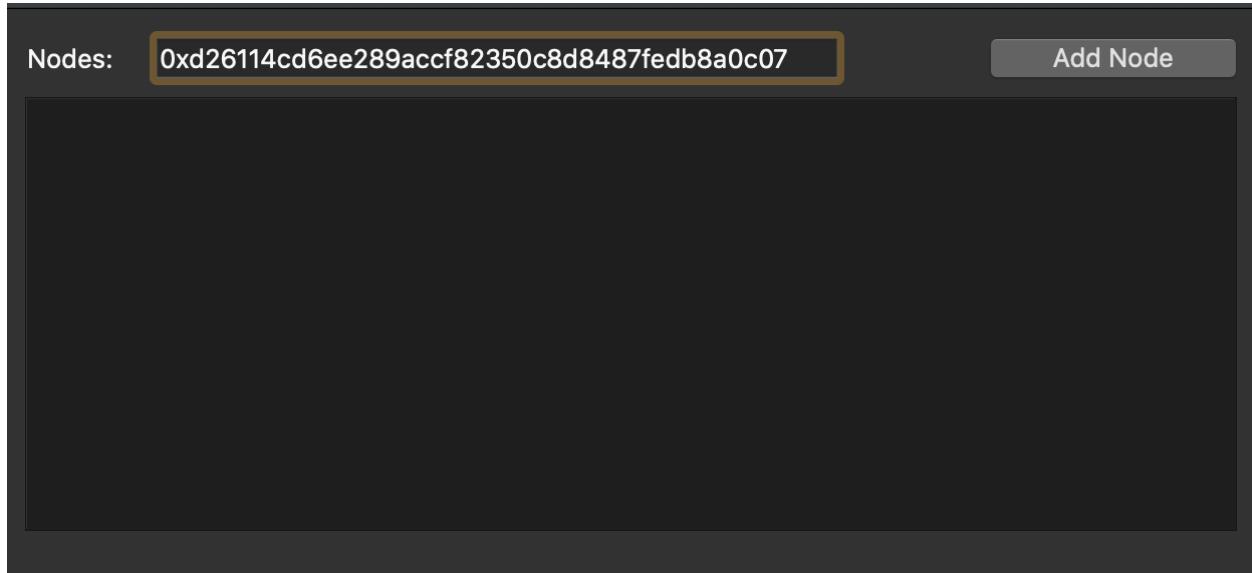
0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a [Xiu Qi]

Nodes: Add Node

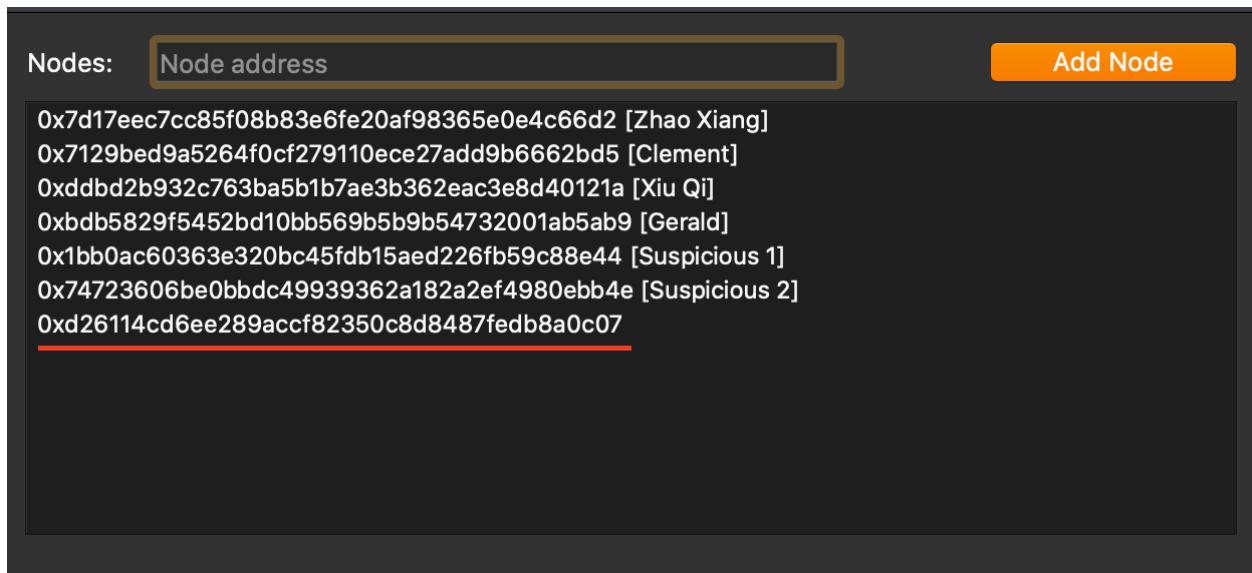
0x7d17eec7cc85f08b83e6fe20af98365e0e4c66d2 [Zhao Xiang]
0x7129bed9a5264f0cf279110ece27add9b6662bd5 [Clement]
0x74723606be0bbdc49939362a182a2ef4980ebb4e [Suspicious 2]

Add Primary Address

1. Input a valid wallet address in the search box

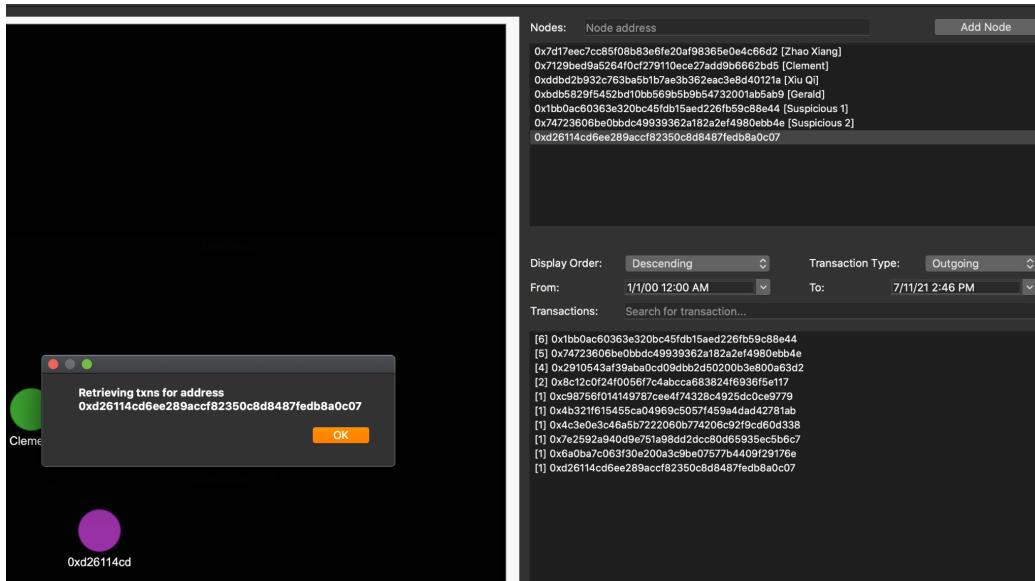


2. Press the “Add Node” button, address will be added to the nodes (primary address) list if it does not already exist

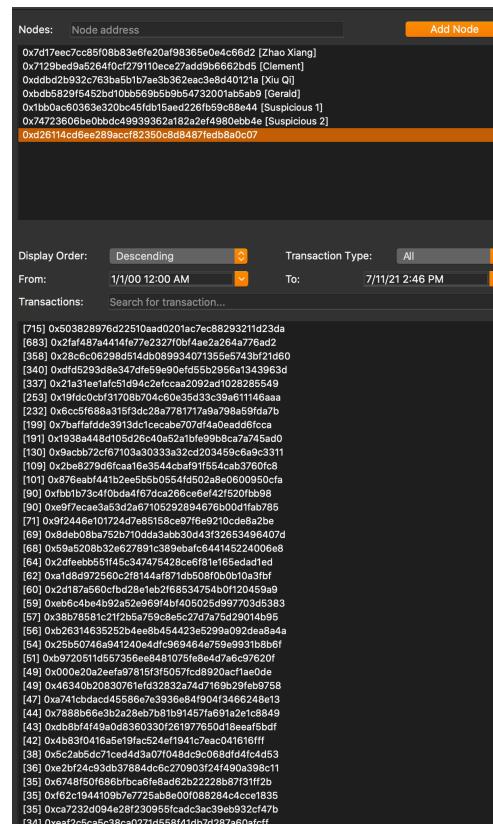


Query Primary Address's Transactions

1. Click on any node (primary address) in the Nodes List
2. If transaction data for this primary address does not exist yet, the tool will query for it using the “*DigiFax_EthScan_multiproc.py*” backend script

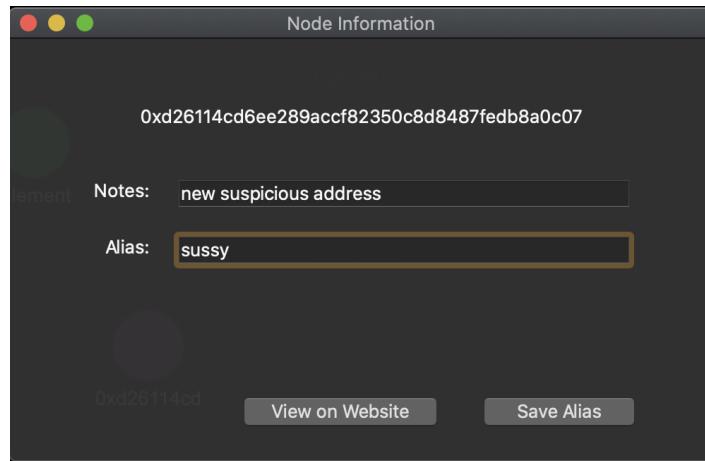


3. After awhile, click on the same node (primary address) to see its queried transaction data (secondary addresses)

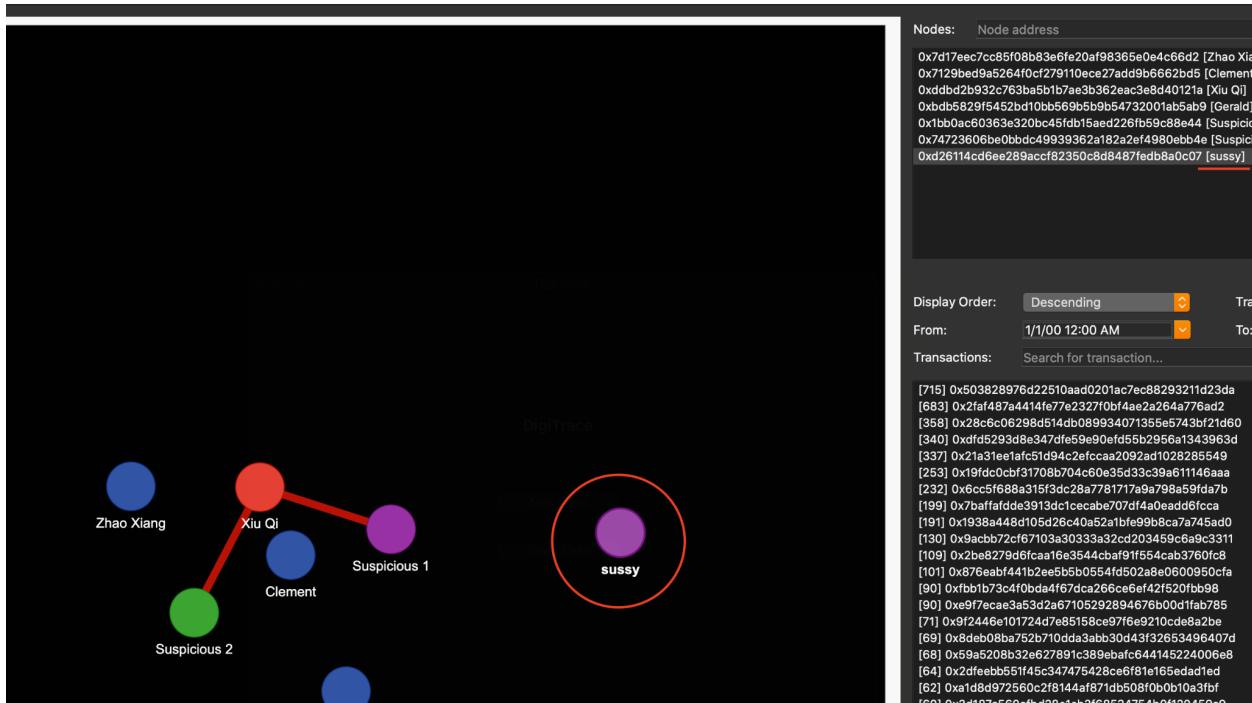


Customize Primary Address Profile Information

1. Double click on a specific node (primary address) in the Nodes List
2. Tool should open the corresponding Node Profile window for that node (primary address)
3. Fill in desired description and alias (both are optional)

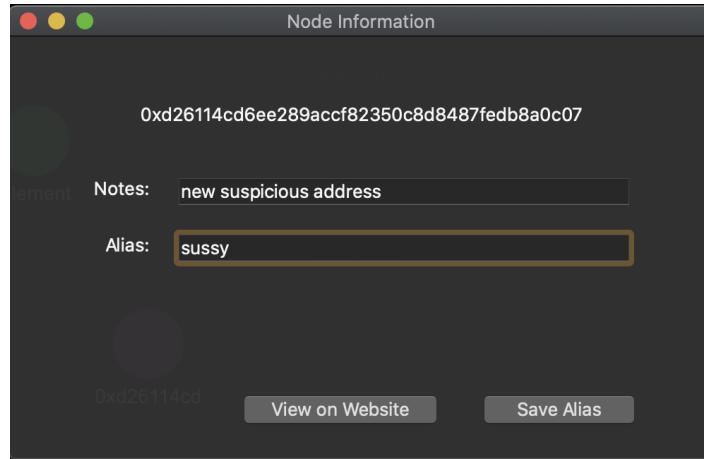


4. Press the “Save Alias” button
5. If an alias was entered, it should be reflected in the Nodes List and the node’s display label in the Nodes Graph



Open Primary Address in Etherscan Website

1. Double click on a specific node (primary address) in the Nodes List
2. Tool should open the corresponding Node Profile window for that node (primary address)



3. Press the “View on Website” button
4. Tool should open a browser window that displays the wallet information on the actual Etherscan Website

The screenshot shows a web browser displaying the Etherscan website for the contract address "0xd26114cd6EE289AccF82350c8d8487fdb8a0c07". The page includes a header with filters and search bar, and a main section with tabs for "Contract Overview", "Transactions", "Internal Txns", etc. The "Transactions" tab is active, showing a list of recent transactions. A message at the bottom indicates the use of cookies.

Hover Primary Address for Total Transaction Count

1. Hover over a specific node (primary address) in the Nodes List
2. Tool show display a tooltip with information of total transactions that node (primary address) has

The screenshot shows a user interface for managing nodes. At the top, there is a search bar labeled "Nodes:" and a button labeled "Add Node". Below the search bar is a list of node addresses and their names. The node "0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a [Xiu Qi]" is highlighted with a red rectangle. A tooltip appears over this node, displaying the text "Total Transactions: 42". Other nodes listed include "Zhao Xiang", "Clement", "Gerald", "Suspicious", and "sussy".

Node Address	Name
0x7d17eec7cc85f08b83e6fe20af98365e0e4c66d2	Zhao Xiang
0x7129bed9a5264f0cf279110ece27add9b6662bd5	Clement
0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a	Xiu Qi
0xbdb5829f5452bd10bb569b5b9b54732001ab5ab9	Gerald
0xbb0ac60363e320bc45fdb15aed226fb59c88e44	Suspicious
0x74723606be0bbdc49939362a182a2ef4980ebb4e	Suspicious 2
0xd26114cd6ee289accf82350c8d8487fedb8a0c07	sussy

Secondary Address Filter

1. Select desired transaction type to filter transactions (secondary addresses) by
 - a. Outgoing (default)
 - b. Incoming
 - c. All
2. Select date-time range to filter transactions (secondary addresses) by
 - a. Default is from **1st January 2020 00:00** to **Current Date-Time**
3. Input a wallet address to filter the transactions (secondary addresses) list by
(OPTIONAL)

The screenshot shows a user interface for filtering transactions. At the top right, a dropdown menu for 'Transaction Type' has 'Outgoing' selected (indicated by a checked checkbox). Below it are options for 'Incoming' and 'All'. On the left, there are input fields for 'Display Order' (set to 'Descending'), 'From' (set to '1/1/00 12:00 AM'), 'To' (set to '7/11/21 2:46 PM'), and a 'Transactions' search bar ('Search for transaction...').

4. Transactions view will be filtered and displayed accordingly

The screenshot shows the same interface as above, but now displaying a list of transactions. The list contains 11 items, each preceded by a numerical bracket indicating the count of secondary addresses involved. The transaction IDs listed are:
[6] 0x1bb0ac60363e320bc45fdb15aed226fb59c88e44
[5] 0x74723606be0bbdc49939362a182a2ef4980ebb4e
[4] 0x2910543af39aba0cd09dbb2d50200b3e800a63d2
[2] 0x8c12c0f24f0056f7c4abcca683824f6936f5e117
[1] 0xc98756f014149787cee4f74328c4925dc0ce9779
[1] 0x4b321f615455ca04969c5057f459a4dad42781ab
[1] 0x4c3e0e3c46a5b7222060b774206c92f9cd60d338
[1] 0x7e2592a940d9e751a98dd2dcc80d65935ec5b6c7
[1] 0x6a0ba7c063f30e200a3c9be07577b4409f29176e
[1] 0xd26114cd6ee289accf82350c8d8487fedb8a0c07

Change Secondary Address Display Order

1. Select desired display order for transactions (secondary addresses) by
 - a. Descending (default)
 - b. Ascending

Display Order: ✓ Descending
Ascending

Transaction Type: Outgoing

From: 1/1/00 12:00 AM To: 7/11/21 2:46 PM

Transactions: Search for transaction...

2. Tool should change the display order accordingly

Display Order: Descending Transaction Type: Outgoing

From: 1/1/00 12:00 AM To: 7/11/21 2:46 PM

Transactions: Search for transaction...

[6] 0xbb0ac60363e320bc45fdb15aed226fb59c88e44
[5] 0x74723606be0bbdc49939362a182a2ef4980ebb4e
[4] 0x2910543af39aba0cd09dbb2d50200b3e800a63d2
[2] 0x8c12c0f24f0056f7c4abcca683824f6936f5e117
[1] 0xc98756f014149787cee4f74328c4925dc0ce9779
[1] 0xb321f615455ca04969c5057f459a4dad42781ab
[1] 0x4c3e0e3c46a5b7222060b774206c92f9cd60d338
[1] 0x7e2592a940d9e751a98dd2dcc80d65935ec5b6c7
[1] 0x6a0ba7c063f30e200a3c9be07577b4409f29176e
[1] 0xd26114cd6ee289accf82350c8d8487fdb8a0c07

Display Order: Ascending Transaction Type: Outgoing

From: 1/1/00 12:00 AM To: 7/11/21 2:46 PM

Transactions: Search for transaction...

[1] 0xc98756f014149787cee4f74328c4925dc0ce9779
[1] 0xb321f615455ca04969c5057f459a4dad42781ab
[1] 0x4c3e0e3c46a5b7222060b774206c92f9cd60d338
[1] 0x7e2592a940d9e751a98dd2dcc80d65935ec5b6c7
[1] 0x6a0ba7c063f30e200a3c9be07577b4409f29176e
[1] 0xd26114cd6ee289accf82350c8d8487fdb8a0c07
[2] 0x8c12c0f24f0056f7c4abcca683824f6936f5e117
[4] 0x2910543af39aba0cd09dbb2d50200b3e800a63d2
[5] 0x74723606be0bbdc49939362a182a2ef4980ebb4e
[6] 0xbb0ac60363e320bc45fdb15aed226fb59c88e44

View Detailed Transactions of Secondary Address

1. Double click on a unique transaction address (secondary address) in the Transactions List
2. Tool should open the Transaction window and lists the detailed transactions between the selected node (primary address) and the selected unique transaction address (secondary address)
 - a. For each transaction, following information is available
 - i. Date-Timestamp of transaction
 - ii. Transaction Direction (Outgoing / Incoming)
 - iii. From address and labels
 - iv. To address and labels
 - v. Value
 - vi. Hash
 - vii. Block Number

The screenshot shows a software application window titled "MainWindow". The main area displays a table of transactions with the following columns: Datetime (YYYY/MM/DD), From, From_Labels, To, To_Labels, and Value. The transactions listed are:

Datetime (YYYY/MM/DD)	From	From_Labels	To	To_Labels	Value
2016/07/27 03:36:03	0xddbd2b932c763ba5b17ae3b362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15aed226fb59c88e44	Decompile ByteCode	7000000000000000
2016/07/27 03:38:45	0xddbd2b932c763ba5b17ae3b362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15aed226fb59c88e44	Decompile ByteCode	5000.0
2016/07/27 03:46:33	0xddbd2b932c763ba5b17ae3b362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15aed226fb59c88e44	Decompile ByteCode	10000.0
2016/07/27 05:03:37	0xddbd2b932c763ba5b17ae3b362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15aed226fb59c88e44	Decompile ByteCode	5000.0
2016/07/27 13:03:04	0xddbd2b932c763ba5b17ae3b362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15aed226fb59c88e44	Decompile ByteCode	10000.0
2016/07/27 13:07:47	0xddbd2b932c763ba5b17ae3b362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15aed226fb59c88e44	Decompile ByteCode	10600.0

On the right side of the window, there is a detailed view of a specific transaction. It shows the transaction type as "Outgoing" and the timestamp as "7/11/21 2:46 PM". Below this, the transaction hash is displayed as a long string of hex digits: 6fb59c88e44, 2ef4980eb4e, 03e800a63d2, 6936fe117, 5dc0ce979, 4da42781a, 2f9cd60d338, 5935ec56c7, 4409729176e, 7fedb8a0c07.

View Specific Transaction on Etherscan Website

1. Double click on a unique transaction address (secondary address) in the Transactions List
2. Tool should open the Transaction window and lists the detailed transactions between the selected primary address and secondary address

MainWindow						
Datetime (YYYY/MM/DD)	From	From_Labels	To	To_Labels	Value	
2016/07/27 03:36:03	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	7000000000000000	
2016/07/27 03:38:45	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	50000	
2016/07/27 03:46:33	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	100000	
2016/07/27 05:03:37	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	50000	
2016/07/27 13:03:04	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	100000	
2016/07/27 13:07:47	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	106000	

3. Select any column of interested transaction and click on the “View on Website” button

MainWindow						
Datetime (YYYY/MM/DD)	From	From_Labels	To	To_Labels	Value	
2016/07/27 03:36:03	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	7000000000000000	
2016/07/27 03:38:45	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	50000	
2016/07/27 03:46:33	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	100000	
2016/07/27 05:03:37	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	50000	
2016/07/27 13:03:04	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	100000	
2016/07/27 13:07:47	0xdedb2b932c763ba5b1b7ae3e362eac3e8d40121a	None	0x1bb0ac60363e320bc45fdb15ae228fb59c88e44	Decompile ByteCode	106000	

4. Tool should open a browser window that displays the transaction information on the actual Etherscan Website

https://etherscan.io/tx/0x188089c5b945da5eca459fa2edf8df16b983db172b72a720632d0f97db85a90

Etherscan

Eth: \$4,550.74 (+1.71%) | 71 Gwei

All Filters | Search by Address / Txn Hash / Block / Token / Erc

Home | Blockchain | Tokens | Resources | More | Sign In | Buy | Exchange | Earn | Gaming

Transaction Details

Overview Internal Txns State Comments

Transaction Hash: 0x188089c5b945da5eca459fa2edf8df16b983db172b72a720632d0f97db85a90

Block: 1559340 11808751 Block Confirmations

Timestamp: 1929 days 4 hrs ago (Jul-27-2016 03:36:03 AM +UTC)

From: 0xddbd2b932c763baab1b7ae03b362eac3e8d40121a

To: 0x1bb0aa0d903e3e20bc45cb15aed226fb59db8e44

Contract Transfer 7 Ether From 0x1bb0aa0d903e3e20bc45cb15aed226fb59db8e44 To 0xddbd2b932c763baab1b7ae03b362eac3e8d40121a

Value: 7 Ether (\$31,805.18)

Transaction Fee: 0.00055928 Ether (\$2.66)

Gas Price: 0.00000002 Ether (20 Gwei)

Ether Price: \$13.05 / ETH

Click to see More ↓

Private Note: To access the Private Note feature, you must be Logged In

A transaction is a cryptographically signed instruction from an account that changes the state of the blockchain. Block explorers track the details of all transactions in the network. Learn more about transactions in our Knowledge Base.

Add Relationship

1. Select a node (primary address) in the Nodes List

Nodes: Node address Add Node

- 0x7d17eec7cc85f08b83e6fe20af98365e0e4c66d2 [Zhao Xiang]
- 0x7129bed9a5264fc0f279110ce27add9b6662bd5 [Clement]
- 0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a [Xiu Qi]**
- 0xbdb5829f5452bd10bb569b5b9b54732001ab5ab9 [Gerald]
- 0x1bb0ac60363e320bc45fd15aed226fb59c88e44 [Suspicious 1]
- 0x74723606be0bdc49939362a182a2ef4980ebb44 [Suspicious 2]
- 0xd26114cd6ee289accf82350c8d8487fdb8a0c07 [sussy]

2. Select a unique transaction address (secondary address) in the Transaction List

Display Order: Descending Transaction Type: Outgoing

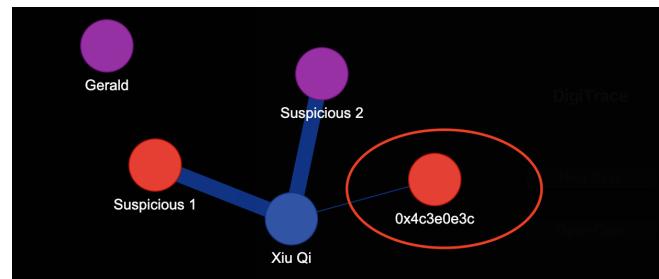
From: 1/1/00 12:00 AM To: 7/11/21 2:46 PM

Transactions: Search for transaction...

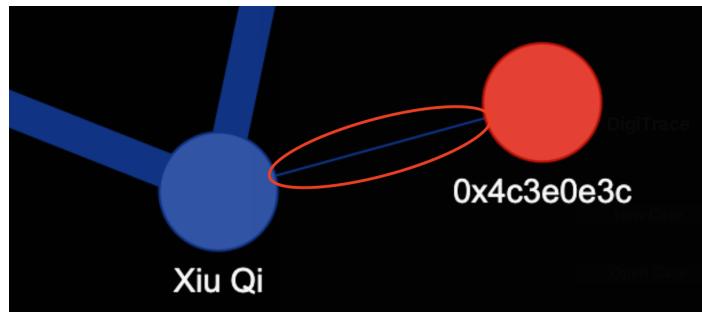
- [6] 0x1bb0ac60363e320bc45fd15aed226fb59c88e44
- [5] 0x74723606be0bdc49939362a182a2ef4980ebb44
- [4] 0x2910543af39aba0cd09dbb2d50200b3e800a63d2
- [2] 0x8c12c0f24f0056f7c4abcca683824f6936f5e17
- [1] 0xc98756f014149787cee4f74328c4925dc0ce9779
- [1] 0x4b321fb15455ca04969c5057f459a4dad42781ab
- [1] 0x4c3e0e3c46a5b7222060b774206c92f9cd60d338**
- [1] 0x7e2592a940d9e751a98dd2dcc80d65935ec5b6c7
- [1] 0x6a0ba7c063f30e200a3c9be07577b4409f29176e
- [1] 0xd26114cd6ee289accf82350c8d8487fdb8a0c07

3. Press the “Add Relationship” button

4. If new relationship includes a node that does not already exist in the Node List (and the Nodes Graph), it is added and the list & graph will be updated



5. If relationship to add does not already exist, the relationship is updated in the Nodes Graph (weight / thickness of relationship determined by number of transactions the primary and secondary address have in common)



Drop Relationship

1. Select a node (primary address) in the Nodes List

Nodes: Node address Add Node

0x7d17eec7cc85f08b83e6fe20af98365e0e4c66d2 [Zhao Xiang]
0x7129bed9a5264fc0f279110ce27add9b6662bd5 [Clement]
0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a [Xiu Qi]
0xbdb5829f5452bd10bb569b5b9b54732001ab5a9 [Gerald]
0x1bb0ac60363e320bc45fd15aed226fb59c88e44 [Suspicious 1]
0x74723606be0bdc49939362a182a2ef4980ebb4e [Suspicious 2]
0xd26114cd6ee289accf82350c8d8487fedb8a0c07 [sussy]

2. Select a unique transaction address (secondary address) in the Transaction List

Display Order: Descending Transaction Type: Outgoing

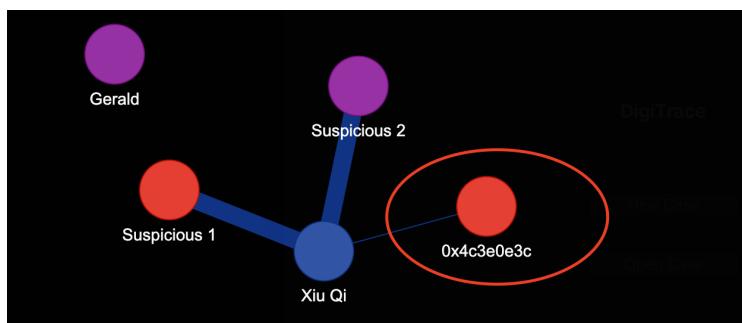
From: 1/1/00 12:00 AM To: 7/11/21 2:46 PM

Transactions: Search for transaction...

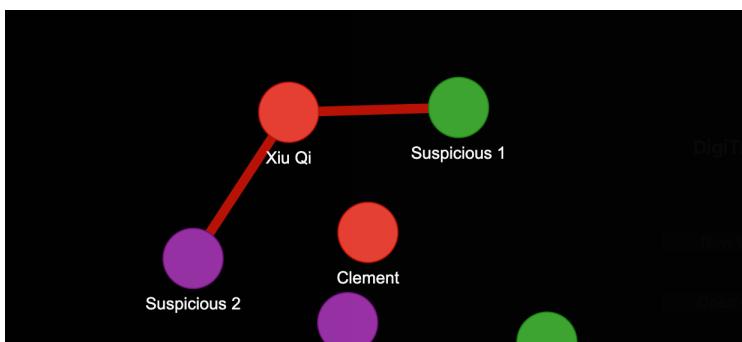
[6] 0x1bb0ac60363e320bc45fd15aed226fb59c88e44
[5] 0x74723606be0bdc49939362a182a2ef4980ebb4e
[4] 0x2910543af39aba0cd09dbb2d50200b3e800a63d2
[2] 0x8c12c0f24f0056f7c4abcca683824f6936f5e17
[1] 0xc98756f014149787cee4f74328c4925dc0ce9779
[1] 0x4b321f615455ca04969c5057f459a4dad42781ab
[1] 0x4c3e0e3c46a5b7222060b774206c92f9cd60d338
[1] 0x7e2592a940d9e751a98dd2dcc80d65935ec5b6c7
[1] 0x6a0ba7c063f30e200a3c9be07577b4409f29176e
[1] 0xd26114cd6ee289accf82350c8d8487fedb8a0c07

3. Press the “Drop Relationship” button
4. If relationship to drop exists, the relationship (line) is removed from the Nodes Graph
5. After removing the relationship, if node does not have any more relationships, it will be removed from the Nodes List and Nodes Graph

a. Before



b. After



Drop Primary Address

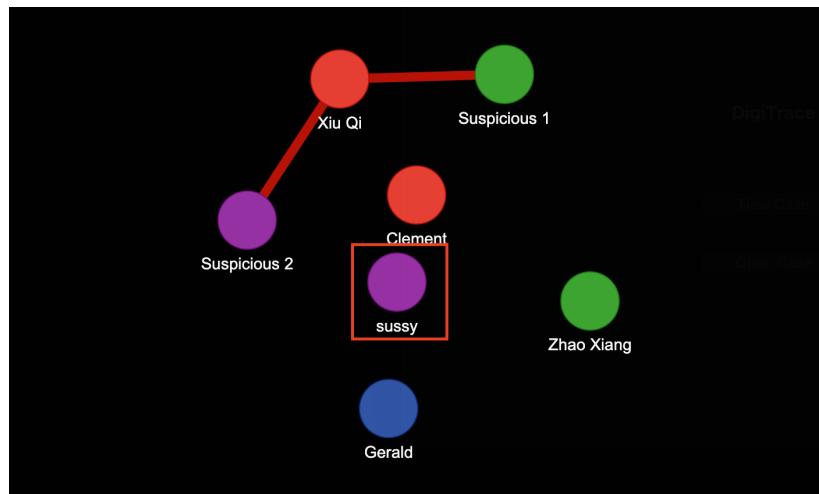
1. Select a node (primary address) in the Nodes List

Nodes: Node address Add Node

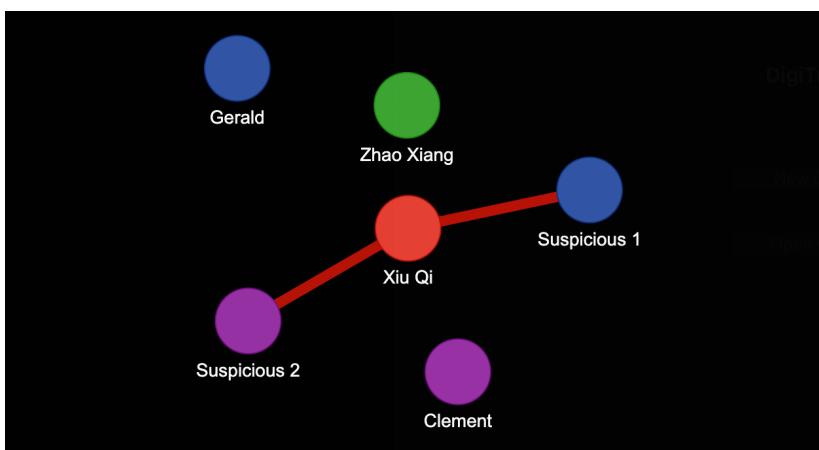
- 0x7d17eec7cc85f08b83e6fe20af98365e0e4c66d2 [Zhao Xiang]
- 0x7129bed9a5264f0cf279110ece27add9b6662bd5 [Clement]
- 0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a [Xiu Qi]
- 0xbdb5829f5452bd10bb569b5b9b54732001ab5ab9 [Gerald]
- 0x1bb0ac60363e320bc45fdb15aed226fb59c88e44 [Suspicious 1]
- 0x74723606be0bbdc49939362a182a2ef4980eb84e [Suspicious 2]
- 0xd26114cd6ee289accf82350c8d8487fdb8a0c07 [sussy]**

2. Press the “Drop Node” button

a. Before

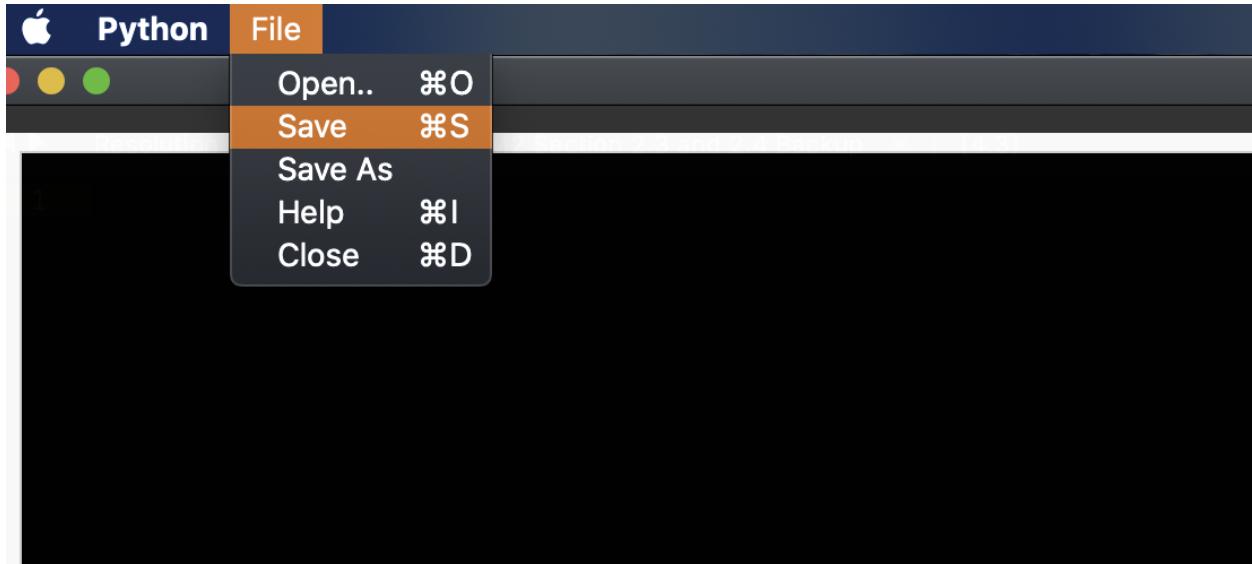


b. After



Save Case Data

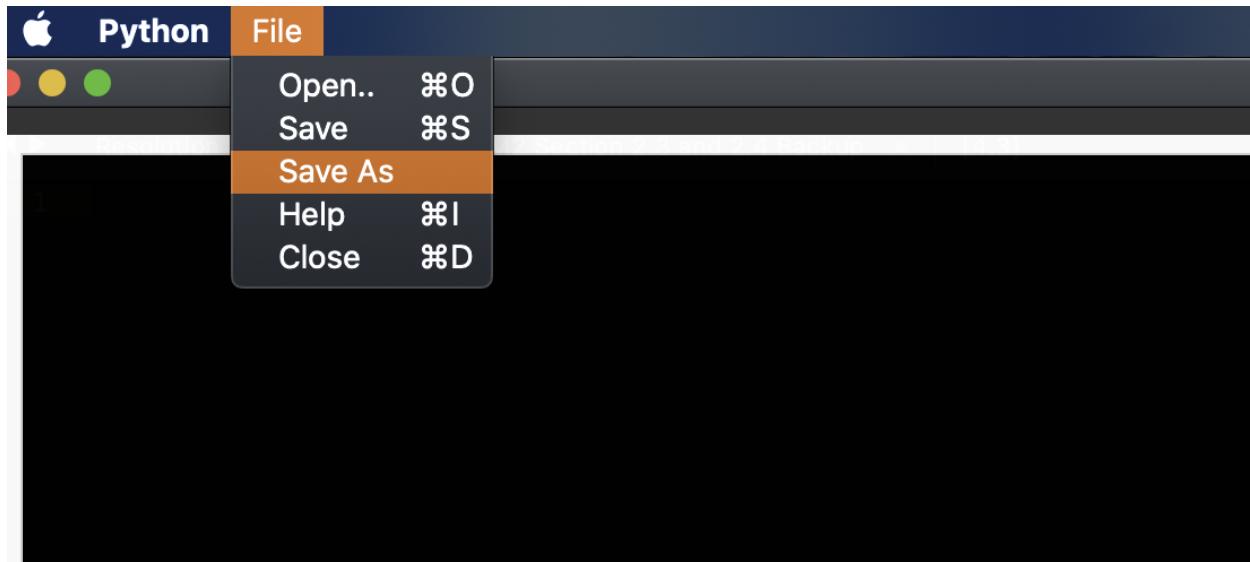
1. Click on “File” on the menu bar
2. Select “Save” to save all current Case Data into the current case’s file



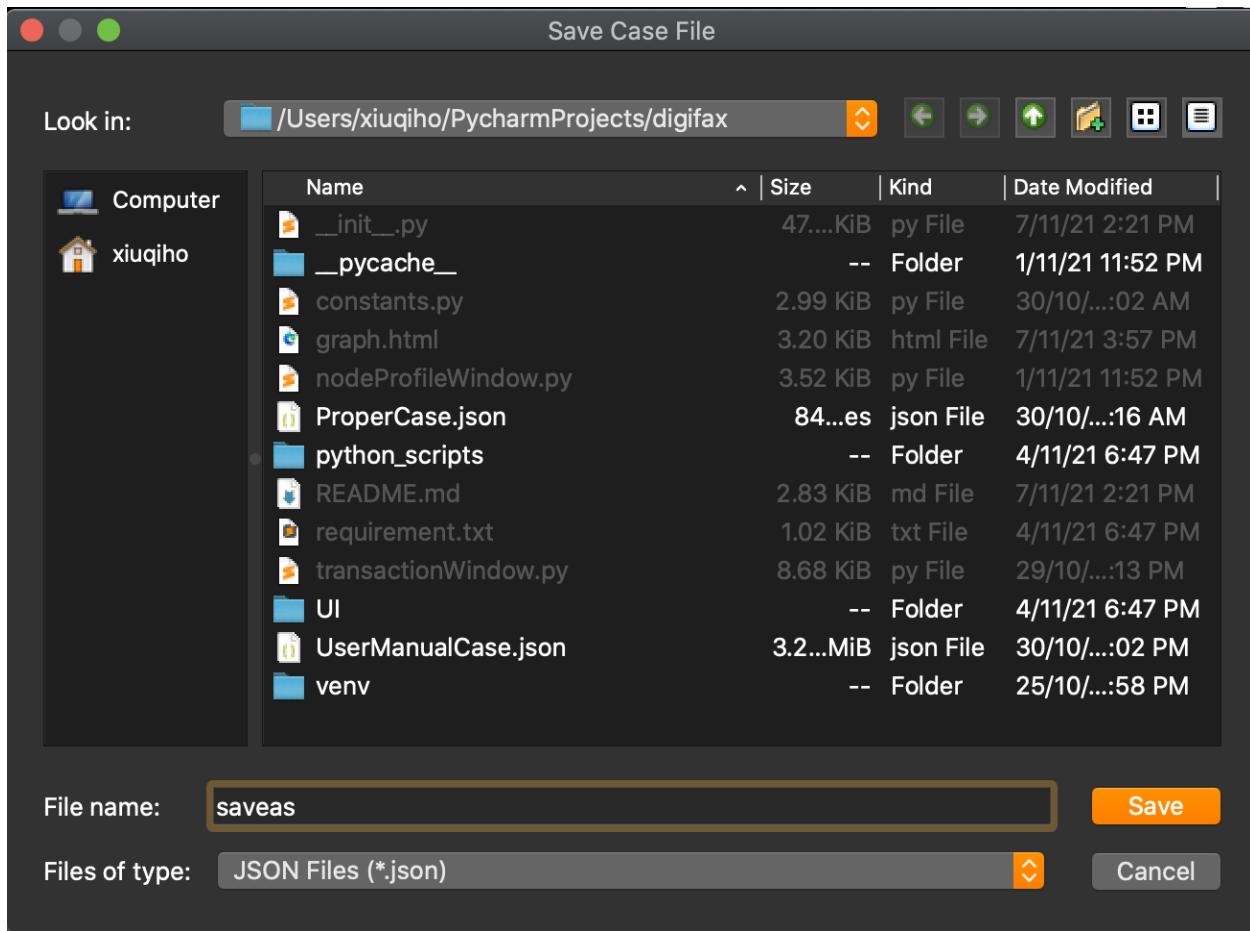
3. Alternatively, press “CTRL+S” on Windows, or “CMD+S” on Mac

Save Case Data as Separate Case File

1. Click on “File” on the menu bar
2. Select “Save As” to save all current Case Data as another case file



3. Select folder and input desired case file name, and press “Save”

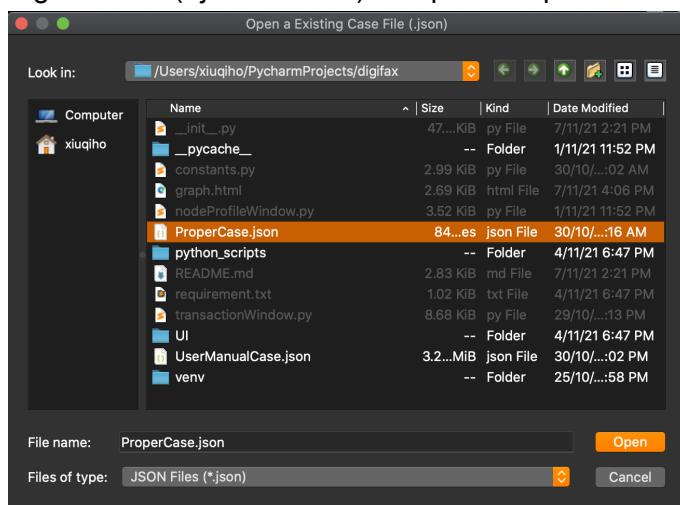


Open another Case

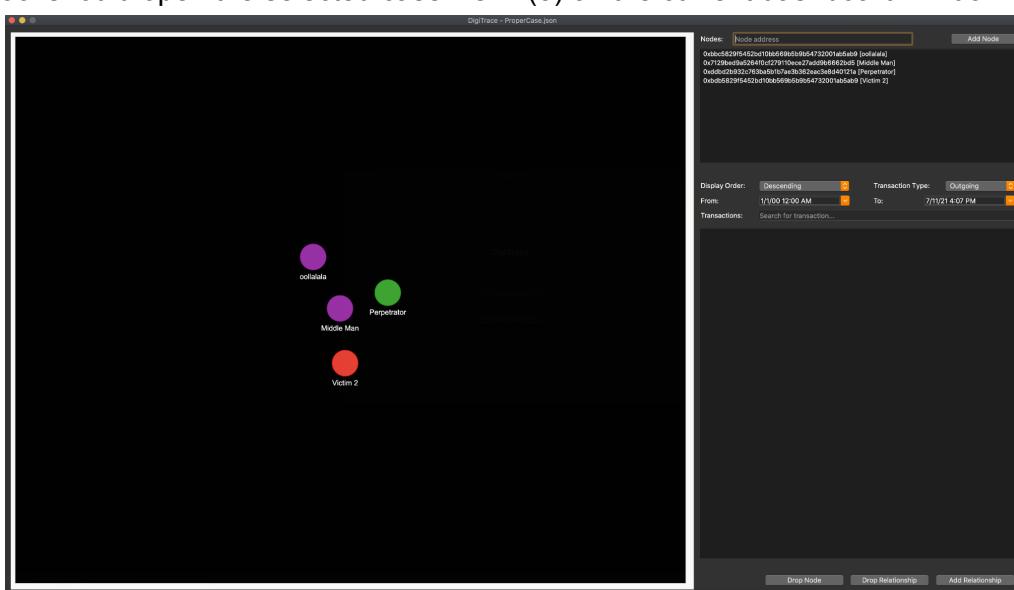
1. Click on “File” on the menu bar
2. Select “Open” to open another existing case
 - a. Alternatively, press “CTRL+O” on Windows, or “CMD+O” on Mac



3. Select an existing case file (“.json” format) and press “Open”

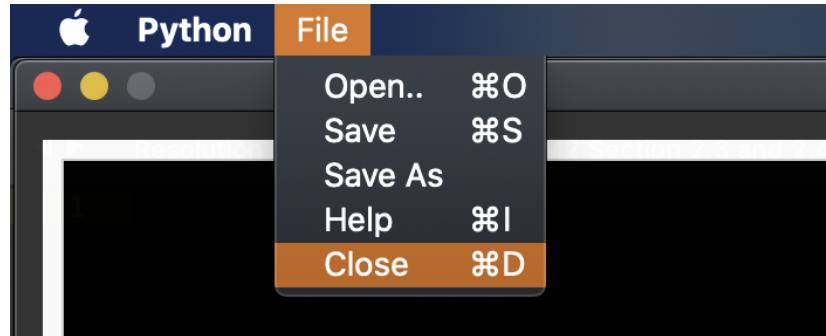


4. Tool should open the selected case file in (3) on the current dashboard window

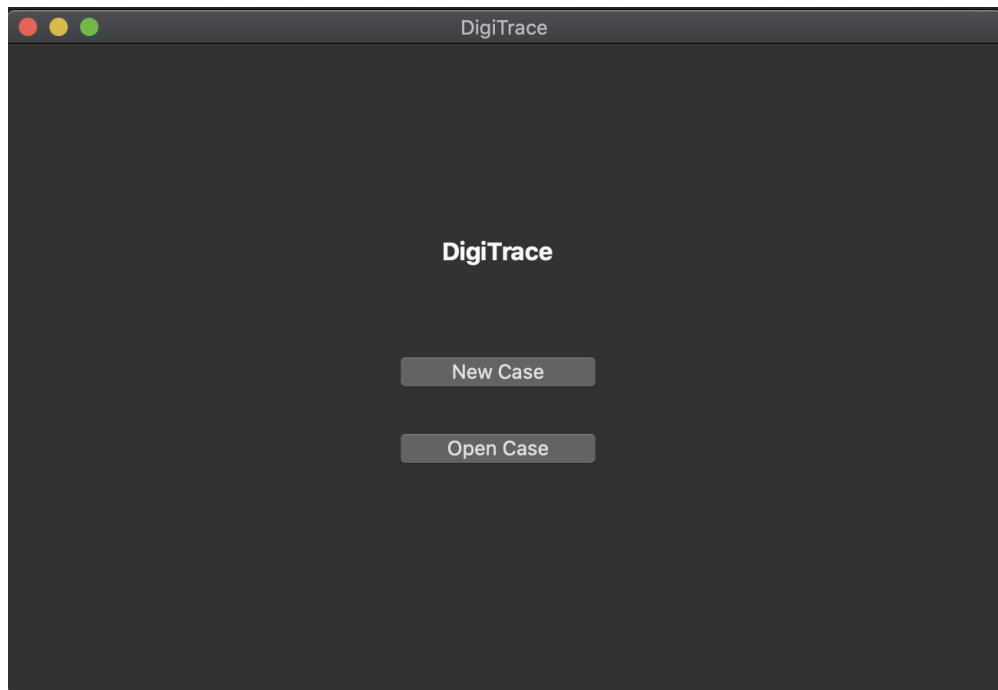


Close Current Case Dashboard

1. Click on “File” on the menu bar
2. Select “Close” to close the current case’s dashboard window

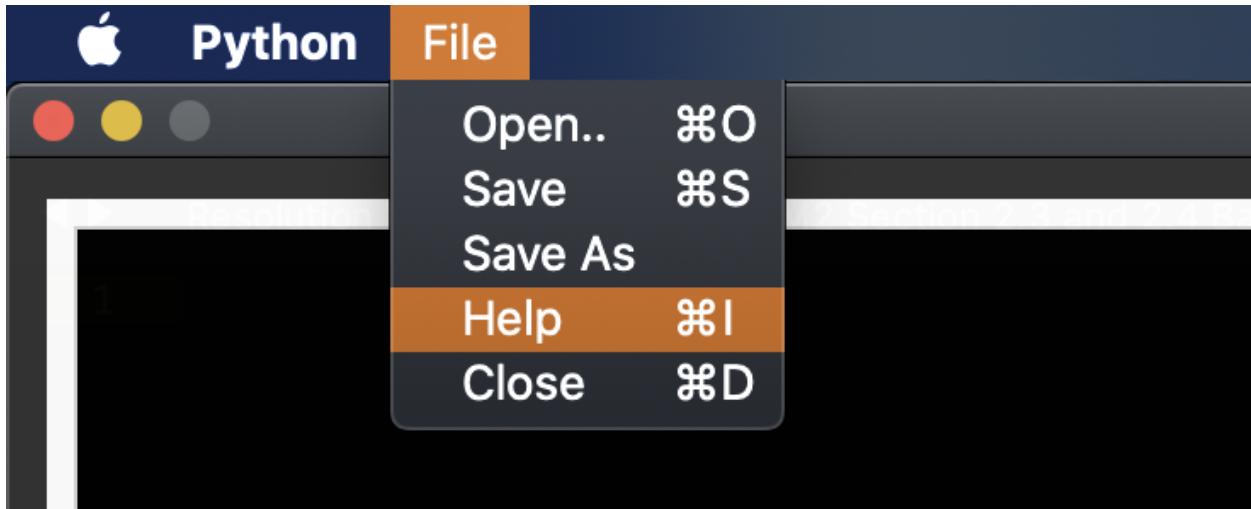


3. Tool should bring you back to the Home window



Show Keyboard Shortcuts

1. Click on “File” on the menu bar
2. Select “Help” to open help information window on the available shortcuts in the dashboard window
 - a. Alternatively, press “CTRL+I” on Windows, or “CMD+I” on Mac



3. Tool opens the Help message box

