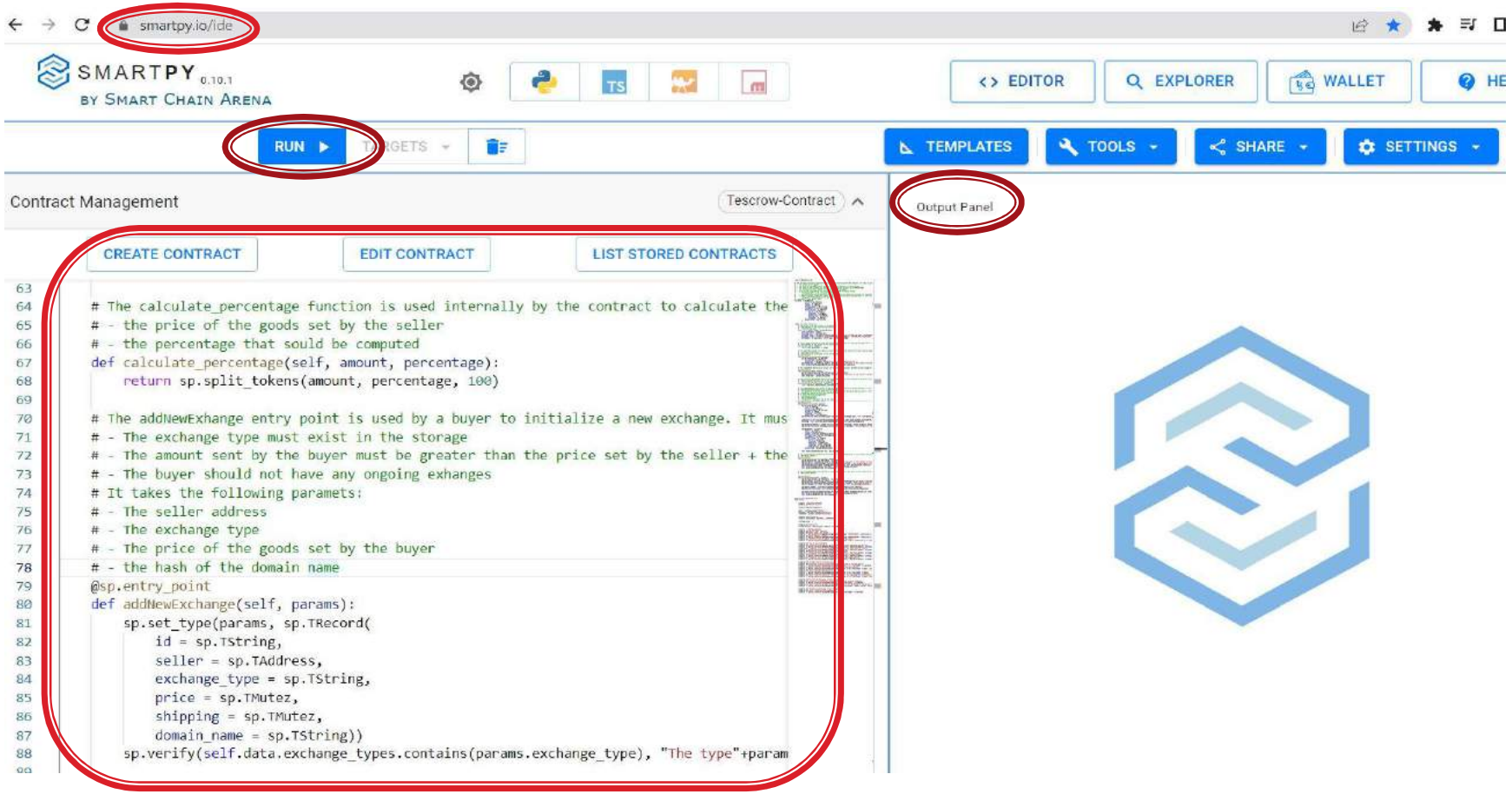
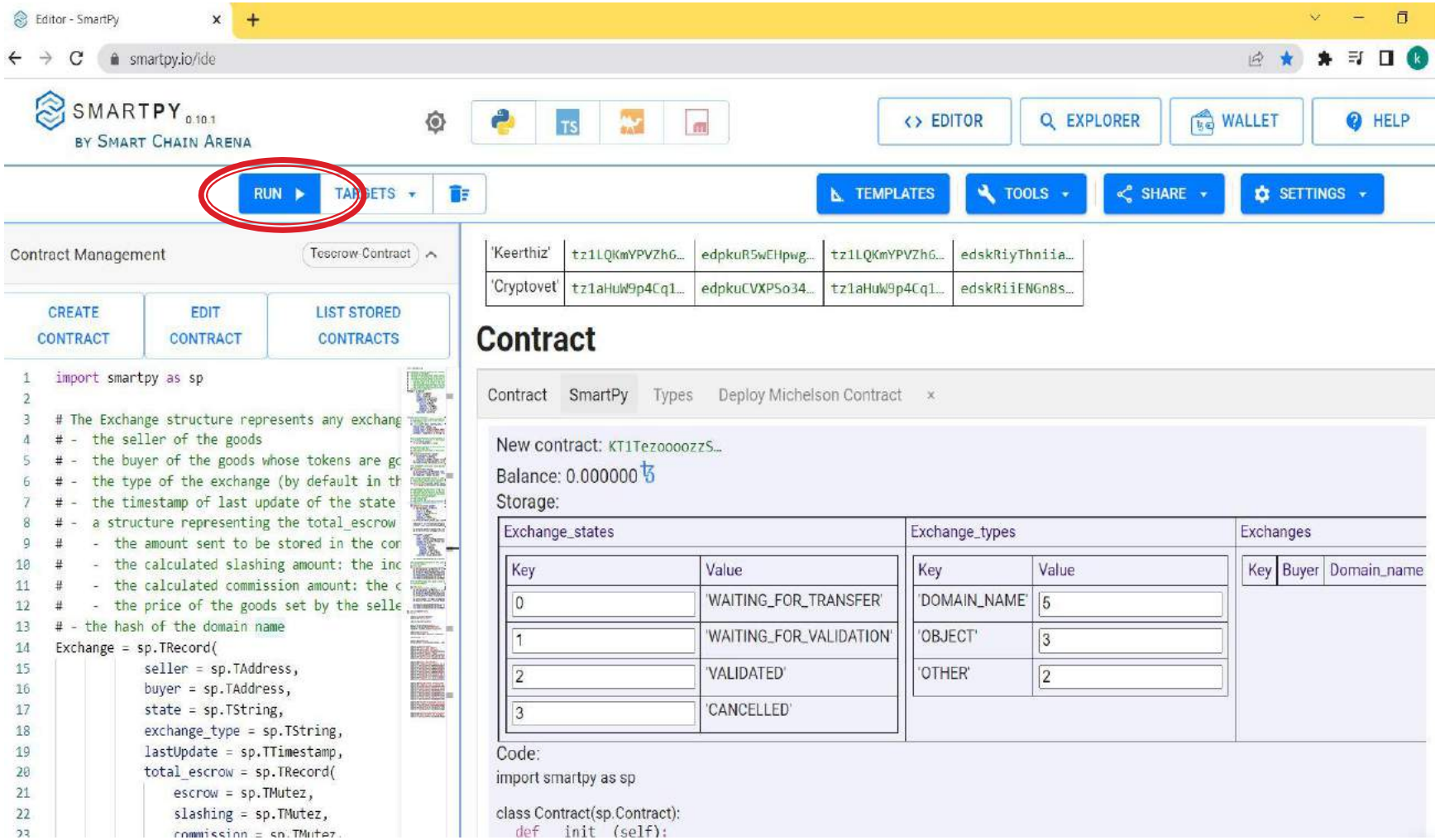
# SMART CONTRACT CODE WRITTEN IN SMARTPY.IO IDE

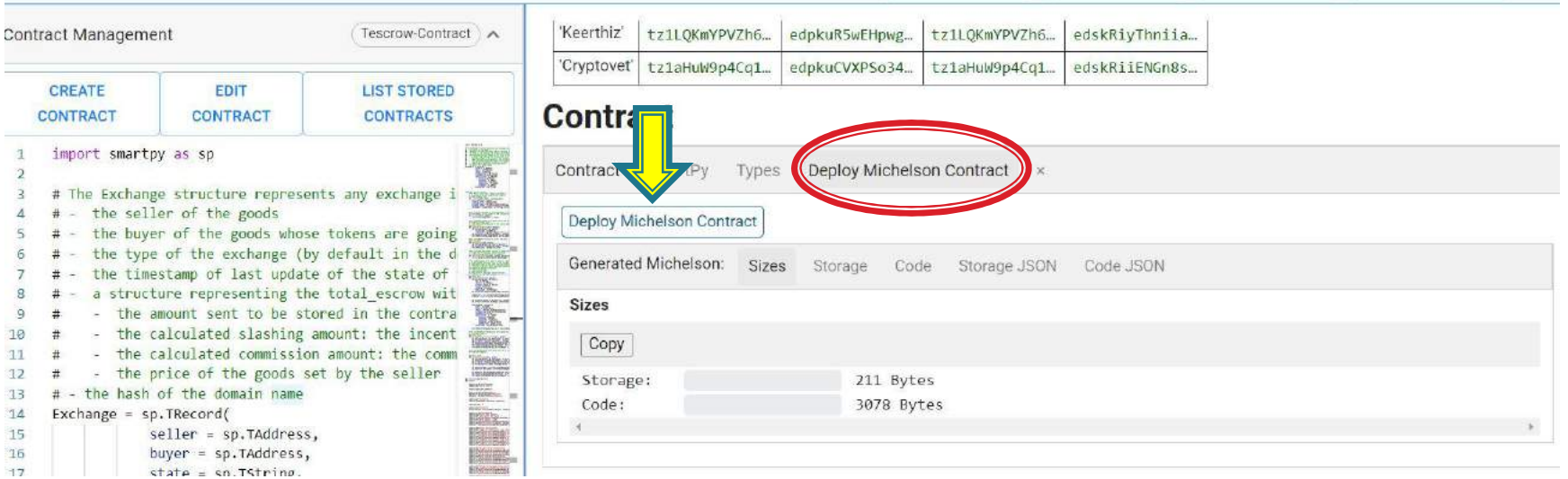

# TEZCROW

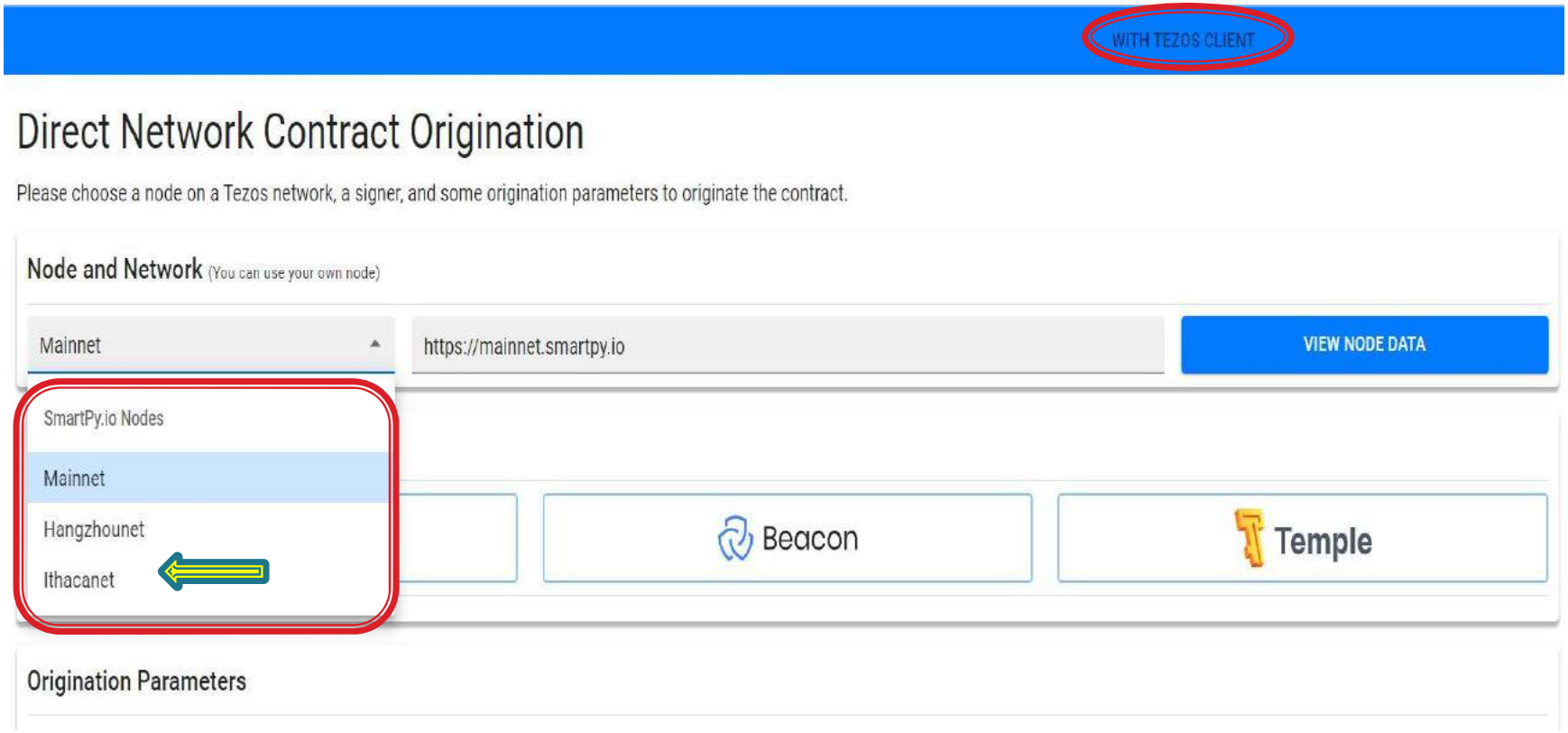
## TEZOS P2P NFT MARKETPLACE

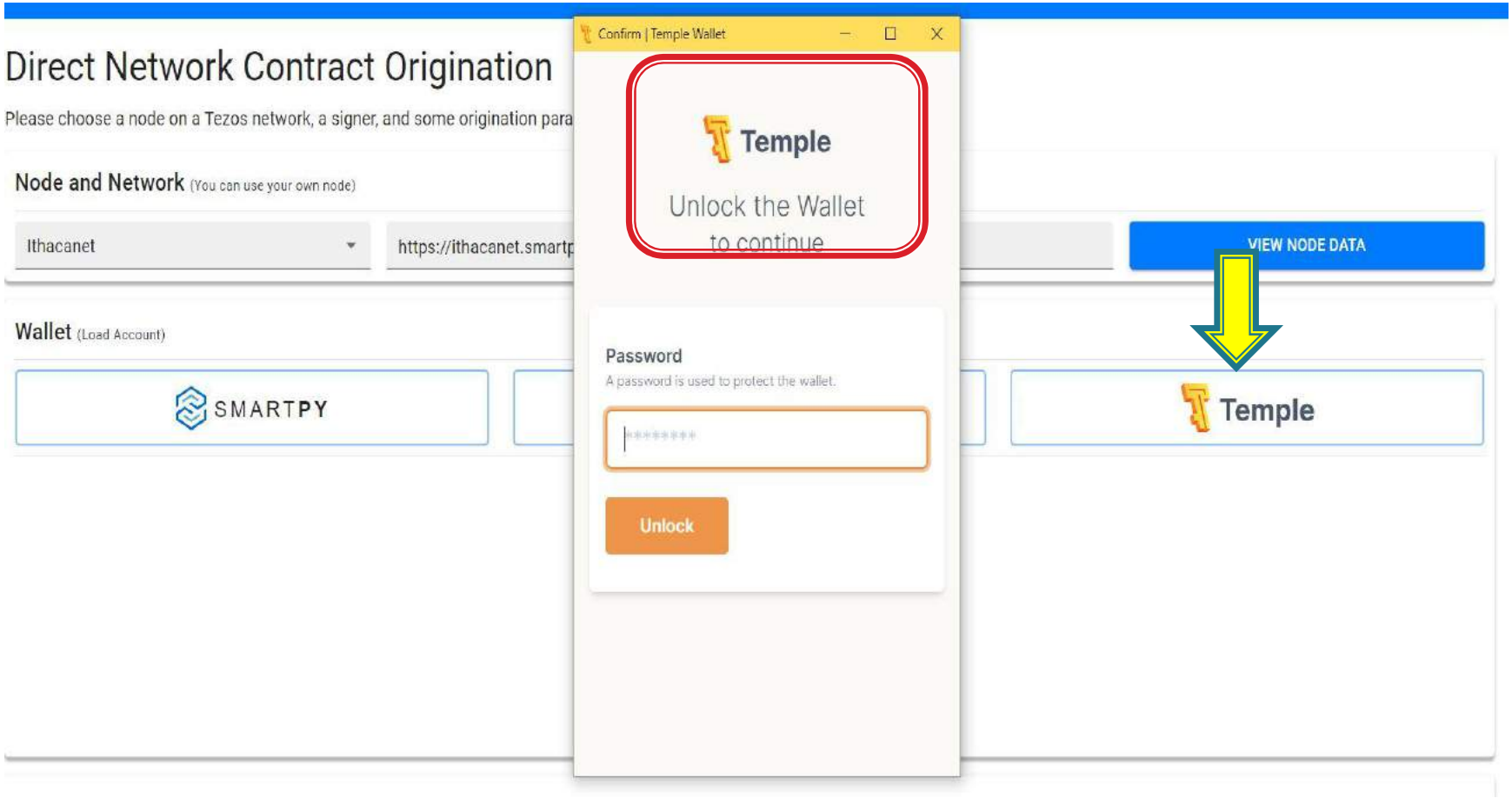
**Created By: Keerthiz**

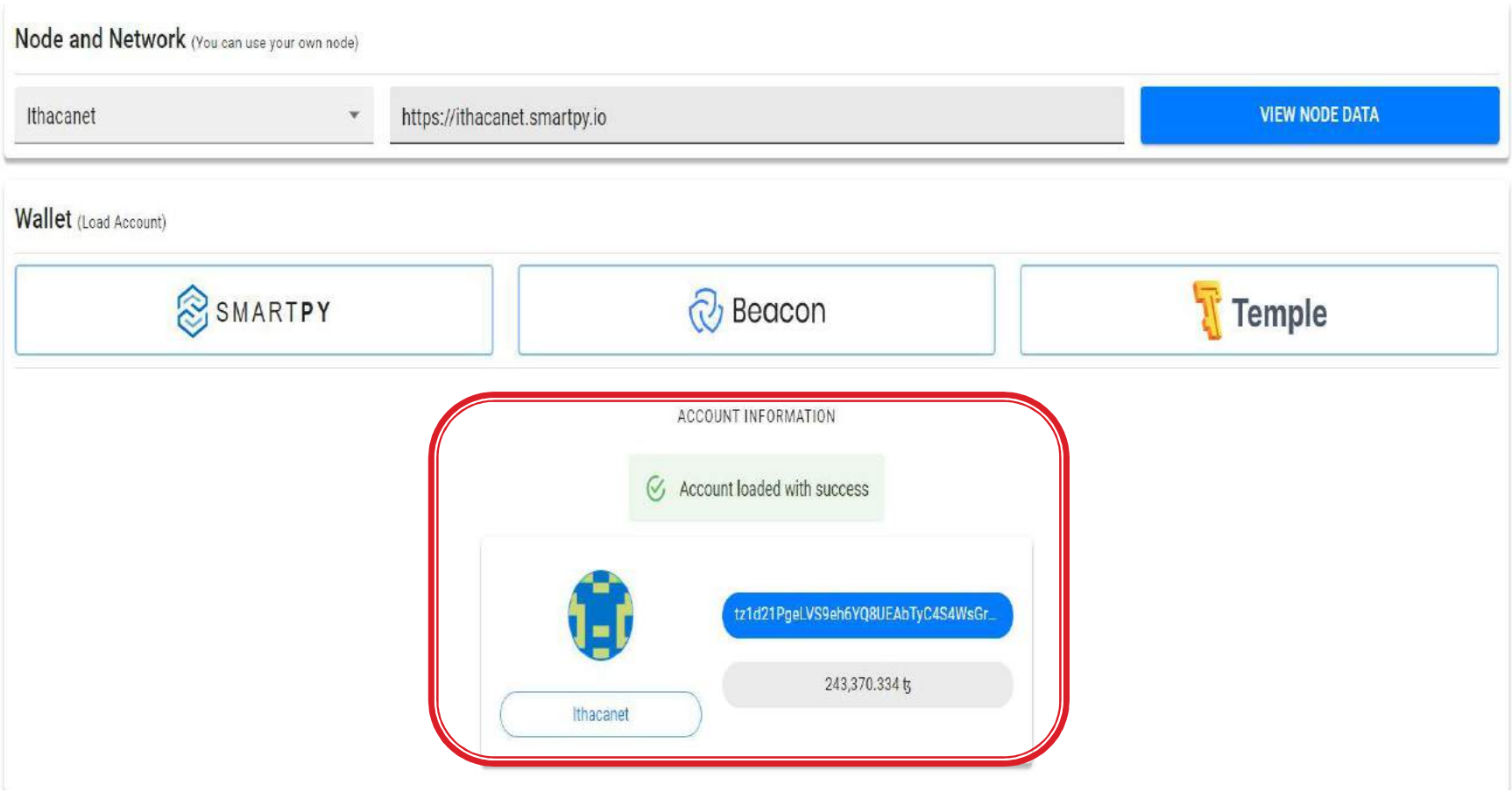

smartpy.io/ide
SMARTPY 0.10.1
BY SMART CHAIN ARENA
EDITOR
EXPLORER
WALLET
RUN
TEMPLATES
TOOLS
SHARE
SETTINGS
Contract Management
Tescrow-Contract
Output Panel
CREATE CONTRACT
EDIT CONTRACT
LIST STORED CONTRACTS
63
64 # The calculate_percentage function is used internally by the contract to calculate the
65 # - the price of the goods set by the seller
66 # - the percentage that sould be computed
67 def calculate_percentage(self, amount, percentage):
68 return sp.split_tokens(amount, percentage, 100)
69
70 # The addNewExhange entry point is used by a buyer to initialize a new exchange. It mus
71 # - The exchange type must exist in the storage
72 # - The amount sent by the buyer must be greater than the price set by the seller + the
73 # - The buyer should not have any ongoing exhanges
74 # It takes the following paramets:
75 # - The seller address
76 # - The exchange type
77 # - The price of the goods set by the buyer
78 # - the hash of the domain name
79 @sp.entry_point
80 def addNewExchange(self, params):
81 sp.set_type(params, sp.TRecord(
82 id = sp.TString,
83 seller = sp.TAddress,
84 exchange_type = sp.TString,
85 price = sp.TMutez,
86 shipping = sp.TMutez,
87 domain_name = sp.TString))
88 sp.verify(self.data.exchange_types.contains(params.exchange_type), "The type"+param

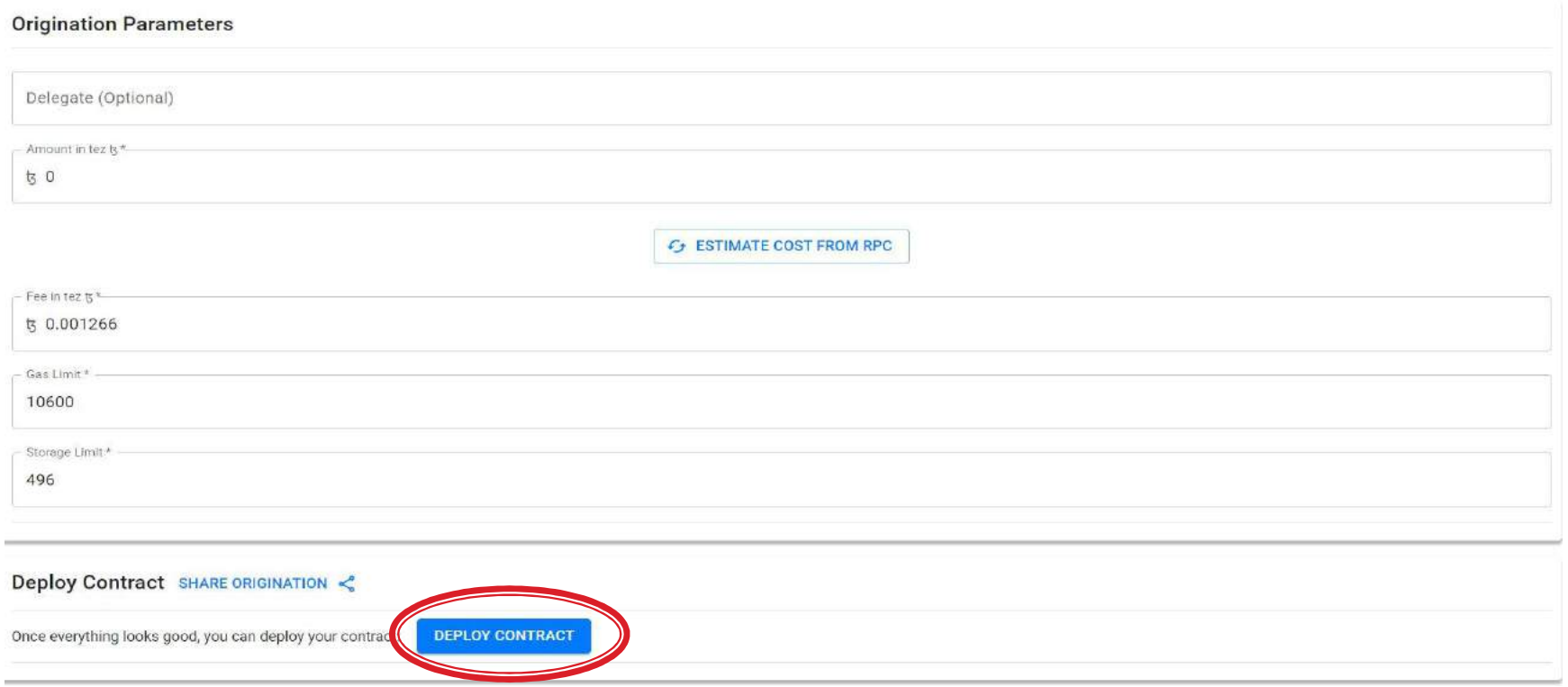

Editor - SmartPy
smartpy.io/ide
SMARTPY 0.10.1
BY SMART CHAIN ARENA
EDITOR
EXPLORER
WALLET
HELP
RUN
TARGETS
TEMPLATES
TOOLS
SHARE
SETTINGS
Contract Management
Tescrow Contract
CREATE CONTRACT
EDIT CONTRACT
LIST STORED CONTRACTS
import smartpy as sp
# The Exchange structure represents any exchang
# - the seller of the goods
# - the buyer of the goods whose tokens are gc
# - the type of the exchange (by default in th
# - the timestamp of last update of the state
# - a structure representing the total_escrow
# - the amount sent to be stored in the cor
# - the calculated slashing amount: the inc
# - the calculated commission amount: the c
# - the price of the goods set by the selle
# - the hash of the domain name
Exchange = sp.TRecord(
seller = sp.TAddress,
buyer = sp.TAddress,
state = sp.TString,
exchange_type = sp.TString,
lastUpdate = sp.TTimestamp,
total_escrow = sp.TRecord(
escrow = sp.TMutez,
slashing = sp.TMutez,
'Keerthiz' tz1LQKmYPVZh6... edpkuR5wEHpwg... tz1LQKmYPVZh6... edskRiyThniia...
'Cryptovet' tz1aHuW9p4Cq1... edpkuCVXP5o34... tz1aHuW9p4Cq1... edskRiiENGn8s...
Contract
Contract SmartPy Types Deploy Michelson Contract
New contract: KT1TezoooozzS...
Balance: 0.000000
Storage:
Exchange_states
Key Value
0 'WAITING_FOR_TRANSFER'
1 'WAITING_FOR_VALIDATION'
2 'VALIDATED'
3 'CANCELLED'
Exchange_types
Key Value
'DOMAIN_NAME' 5
'OBJECT' 3
'OTHER' 2
Exchanges
Key Buyer Domain_name
Code:
import smartpy as sp
class Contract(sp.Contract):
def __init__(self):

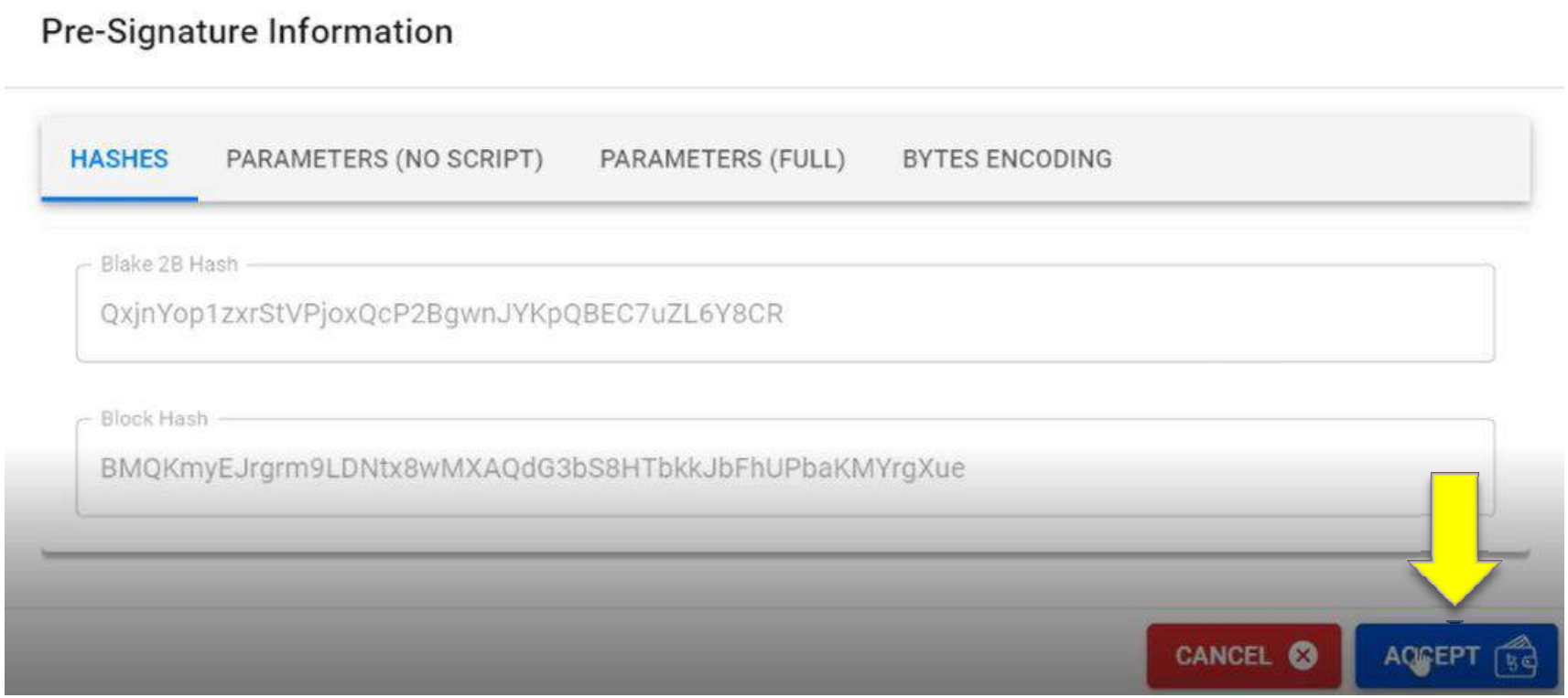

Contract Management
Tescrow-Contract
CREATE CONTRACT
EDIT CONTRACT
LIST STORED CONTRACTS
import smartpy as sp
# The Exchange structure represents any exchange i
# - the seller of the goods
# - the buyer of the goods whose tokens are going
# - the type of the exchange (by default in the d
# - the timestamp of last update of the state of
# - a structure representing the total_escrow wit
# - the amount sent to be stored in the contra
# - the calculated slashing amount: the incent
# - the calculated commission amount: the comm
# - the price of the goods set by the seller
# - the hash of the domain name
Exchange = sp.TRecord(
seller = sp.TAddress,
buyer = sp.TAddress,
'Keerthiz' tz1LQKmYPVZh6... edpkuR5wEHpwg... tz1LQKmYPVZh6... edskRiyThniia...
'Cryptovet' tz1aHuW9p4Cq1... edpkuCVXPSo34... tz1aHuW9p4Cq1... edskRiiENGn8s...
Contract
Types
Deploy Michelson Contract
Deploy Michelson Contract
Generated Michelson:
Sizes
Storage
Code
Storage JSON
Code JSON
Sizes
Copy
Storage: 211 Bytes
Code: 3078 Bytes

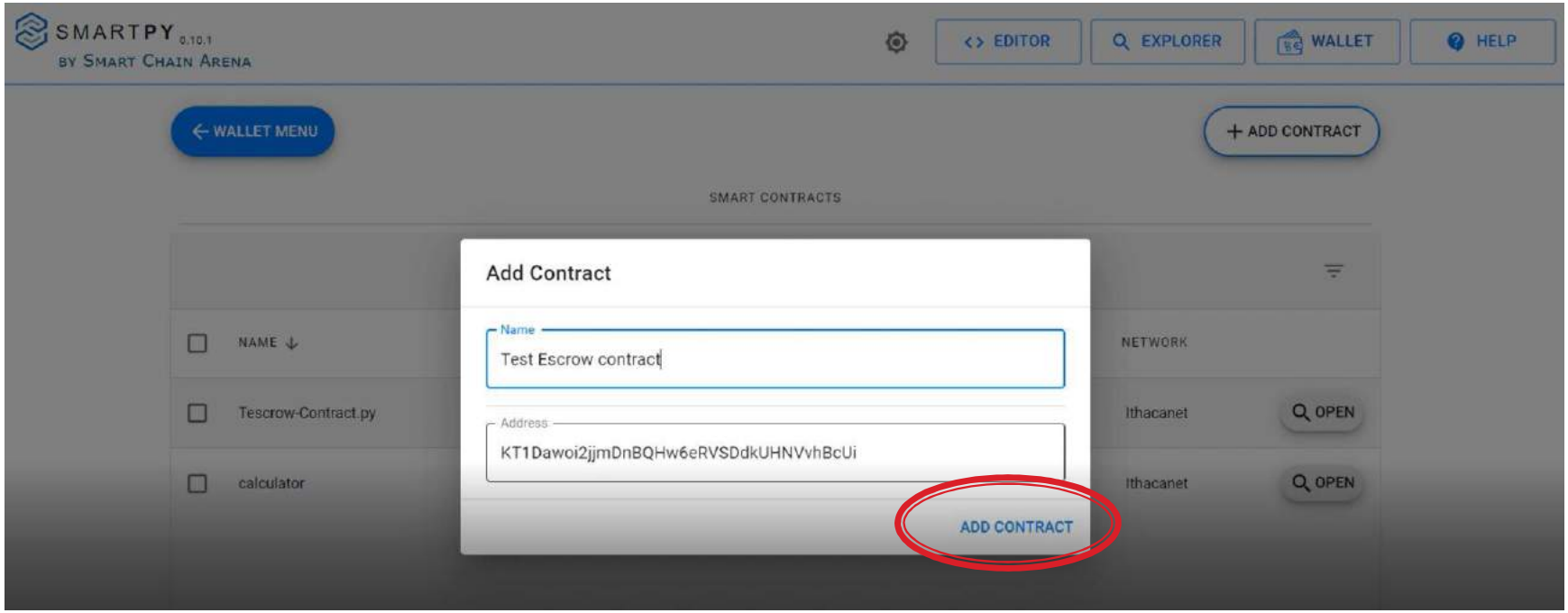

WITH TEZOS CLIENT
Direct Network Contract Origination
Please choose a node on a Tezos network, a signer, and some origination parameters to originate the contract.
Node and Network (You can use your own node)
Mainnet
https://mainnet.smartpy.io
VIEW NODE DATA
SmartPy.io Nodes
Mainnet
Hangzhounet
Ithacanet
Beacon
Temple
Origination Parameters

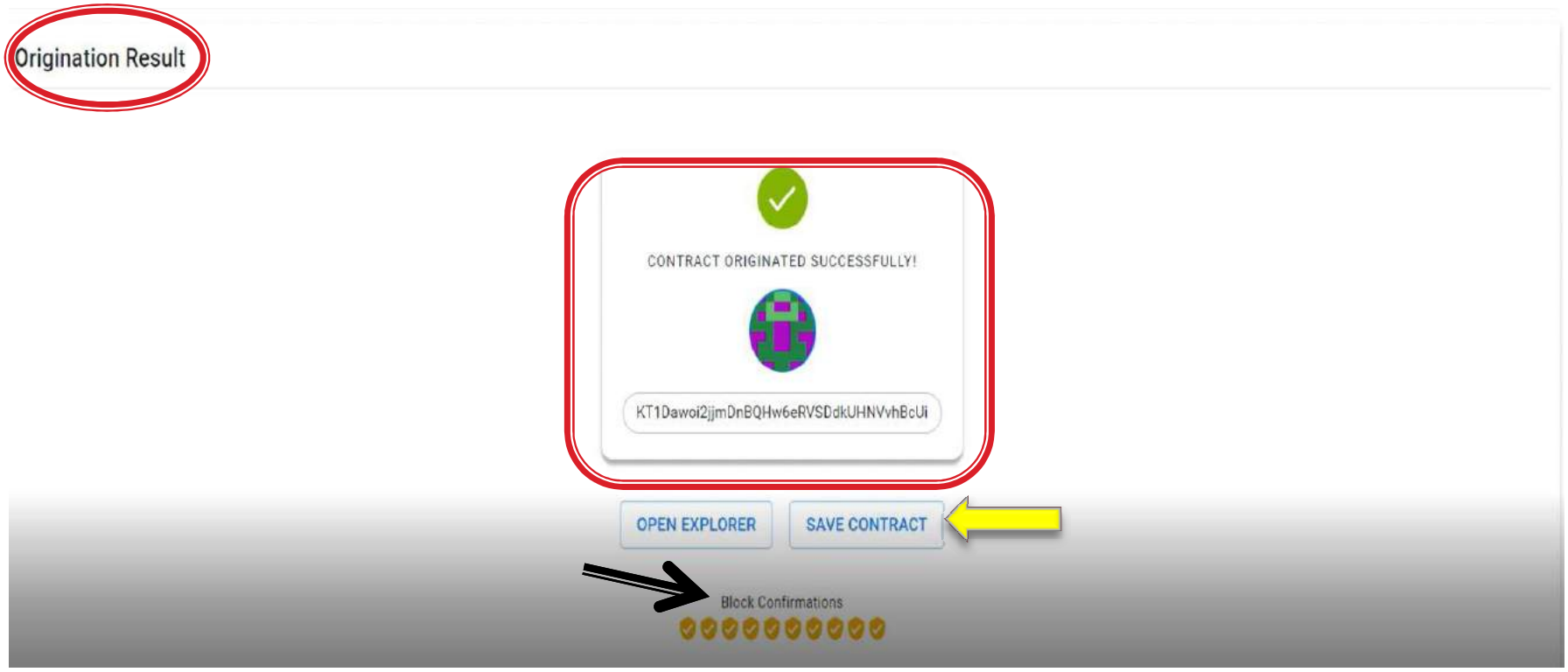

Direct Network Contract Origination
Please choose a node on a Tezos network, a signer, and some origination para
Node and Network (You can use your own node)
Ithacanet
https://ithacanet.smartp
VIEW NODE DATA
Wallet (Load Account)
SMARTPY
Temple
Confirm | Temple Wallet
Temple
Unlock the Wallet to continue
Password
A password is used to protect the wallet.
********
Unlock

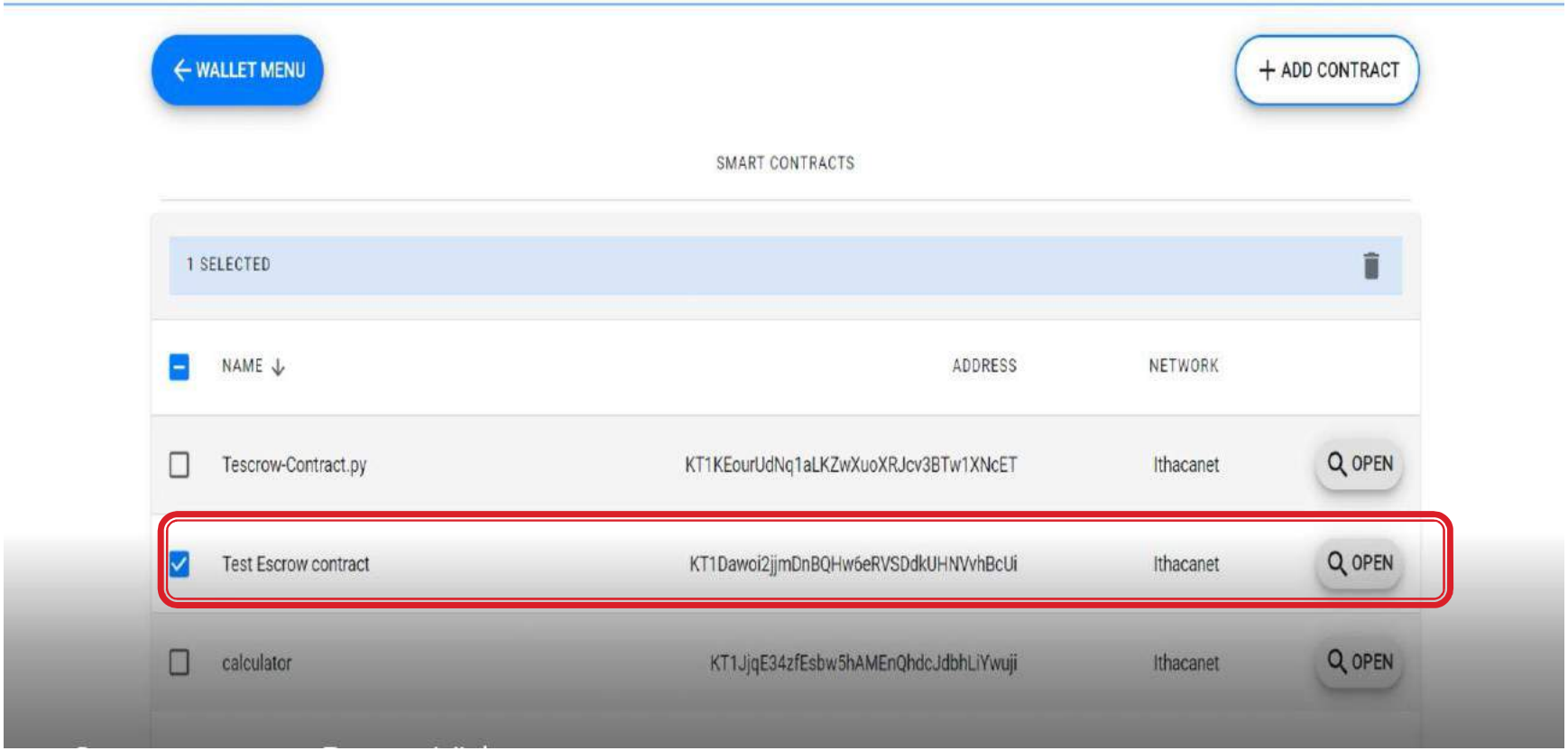

Node and Network (You can use your own node)
Ithacanet
https://ithacanet.smartpy.io
VIEW NODE DATA
Wallet (Load Account)
SMARTPY
Beacon
Temple
ACCOUNT INFORMATION
Account loaded with success
tz1d21PgeLVS9eh6YQ8UEAbTyC4S4WsGr...
243,370.334 ꜩ
Ithacanet

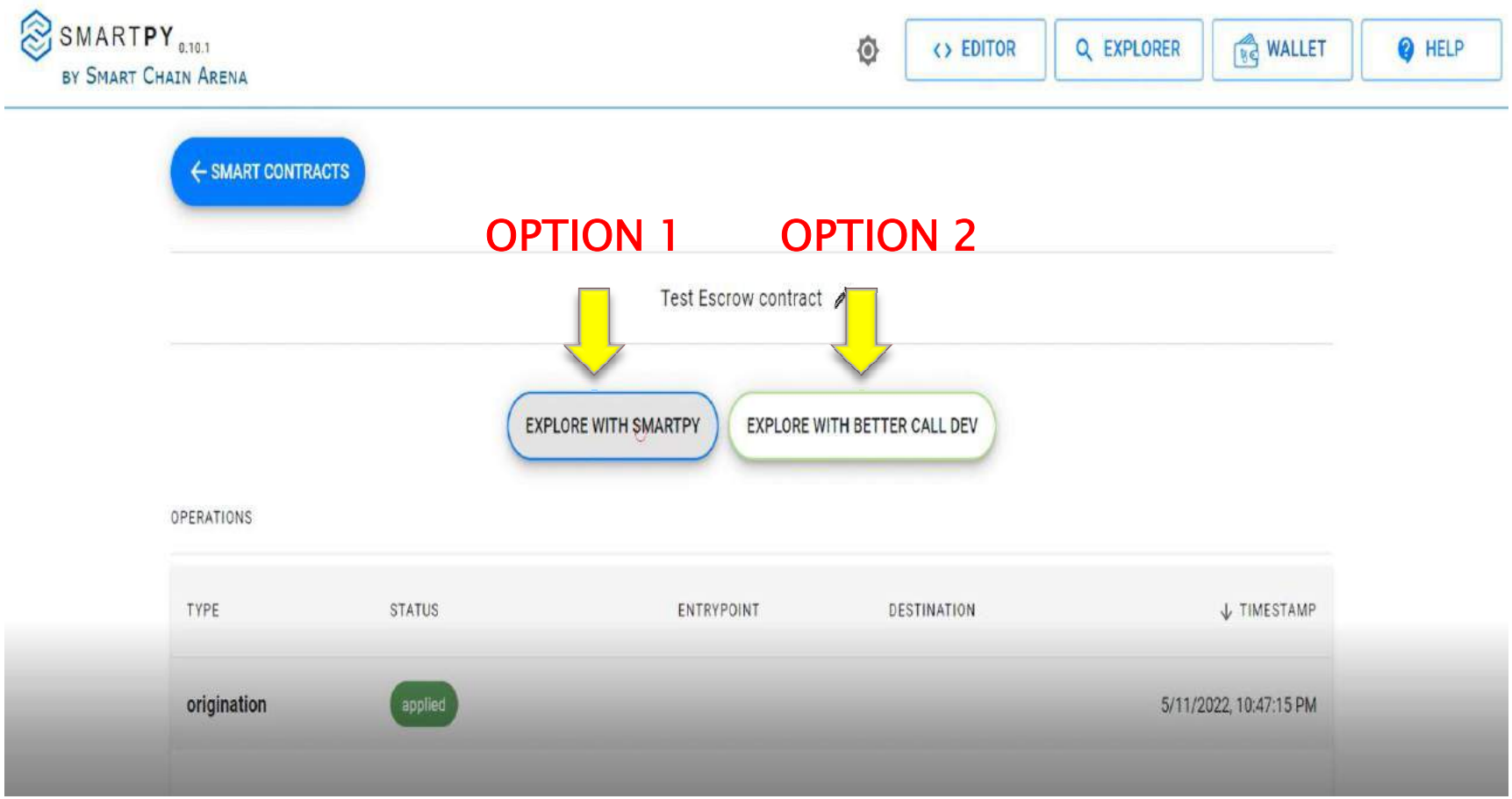

Origination Parameters
Delegate (Optional)
Amount in tez ꜩ *
ꜩ 0
ESTIMATE COST FROM RPC
Fee in tez ꜩ *
ꜩ 0.001266
Gas Limit *
10600
Storage Limit *
496
Deploy Contract
SHARE ORIGINATION
Once everything looks good, you can deploy your contrac
DEPLOY CONTRACT

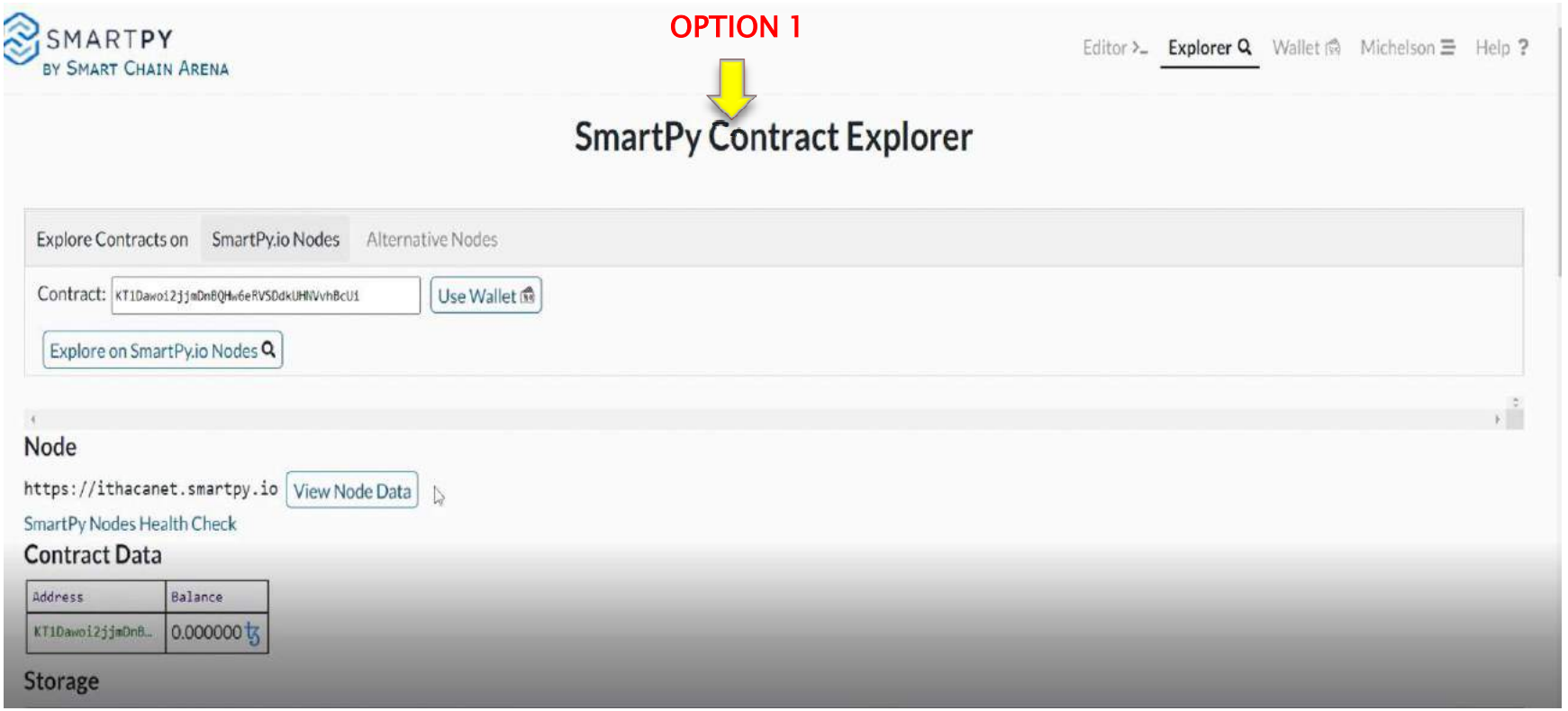

Pre-Signature Information
HASHES
PARAMETERS (NO SCRIPT)
PARAMETERS (FULL)
BYTES ENCODING
Blake 2B Hash
QxjnYop1zxrStVPjoxQcP2BgwnJYKpQBEC7uZL6Y8CR
Block Hash
BMQKmyEJrgrm9LDNtx8wMXAQdG3bS8HTbkkJbFhUPbaKMYrgXue
CANCEL
ACCEPT

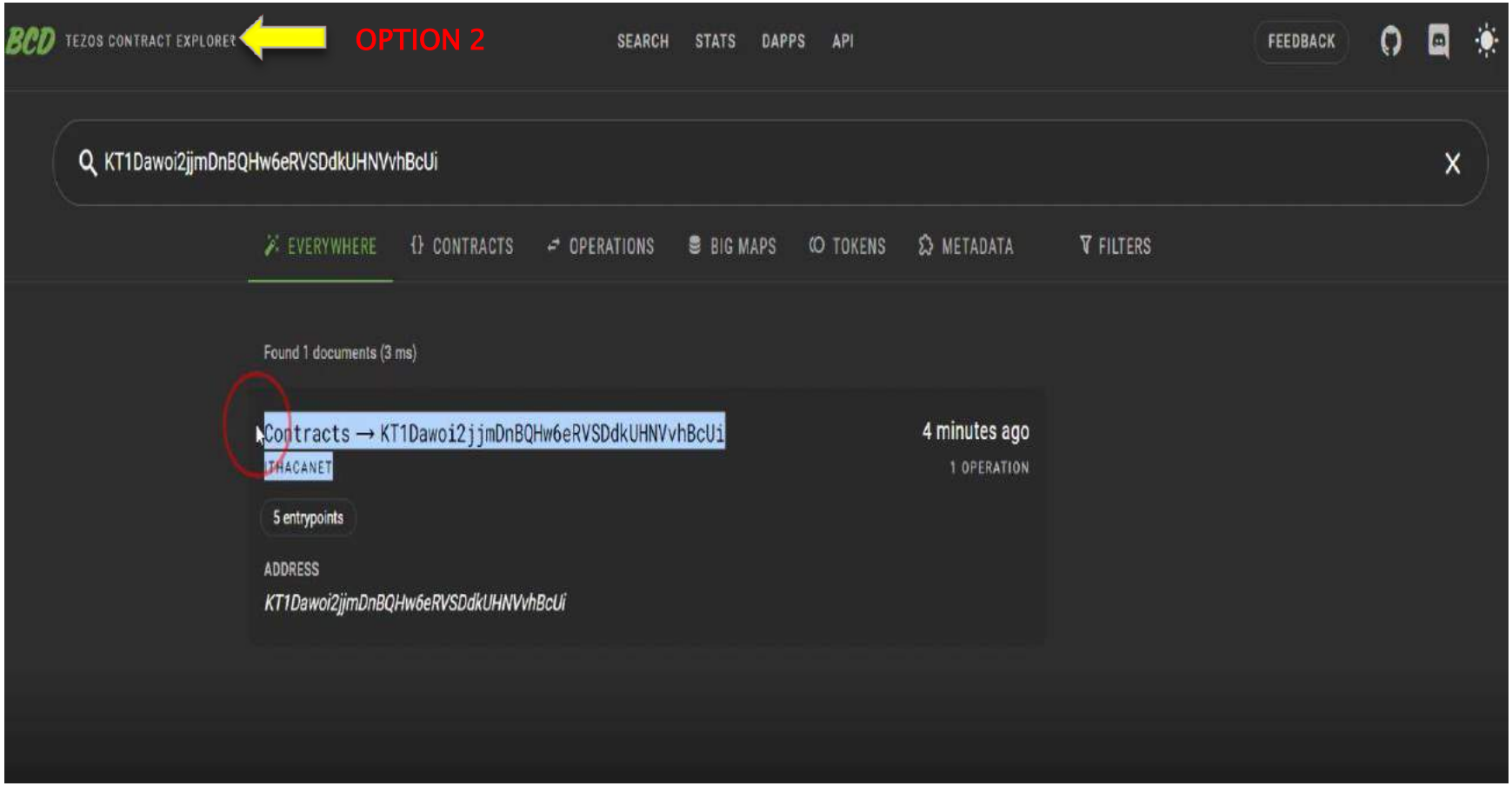

SMARTPY 0.10.1
BY SMART CHAIN ARENA
EDITOR
EXPLORER
WALLET
HELP
WALLET MENU
ADD CONTRACT
SMART CONTRACTS
NAME
NETWORK
Tescrow-Contract.py
Ithacanet
OPEN
calculator
Ithacanet
OPEN
Add Contract
Name
Test Escrow contract
Address
KT1Dawoi2jjmDnBQHw6eRVSDdkUHNVvhBcUi
ADD CONTRACT


Origination Result
CONTRACT ORIGINATED SUCCESSFULLY!
KT1Dawoi2jjmDnBQHw6eRVSDdkUHNVvhBcUi
OPEN EXPLORER
SAVE CONTRACT
Block Confirmations


← WALLET MENU
+ ADD CONTRACT
SMART CONTRACTS
1 SELECTED
NAME
ADDRESS
NETWORK
Tescrow-Contract.py
KT1KEourUdNq1aLKZwXuoXRJcv3BTw1XNcET
Ithacanet
OPEN
Test Escrow contract
KT1Dawoi2jjmDnBQHw6eRVSDdkUHNVvhBcUi
Ithacanet
OPEN
calculator
KT1JjqE34zfEsbw5hAMEnQhdcJdbhLiYwuji
Ithacanet
OPEN


SMARTPY 0.10.1
BY SMART CHAIN ARENA
EDITOR
EXPLORER
WALLET
HELP
SMART CONTRACTS
OPTION 1
OPTION 2
Test Escrow contract
EXPLORE WITH SMARTPY
EXPLORE WITH BETTER CALL DEV
OPERATIONS
TYPE
STATUS
ENTRYPOINT
DESTINATION
TIMESTAMP
origination
applied
5/11/2022, 10:47:15 PM


SMARTPY
BY SMART CHAIN ARENA
OPTION 1
Editor
Explorer
Wallet
Michelson
Help
SmartPy Contract Explorer
Explore Contracts on
SmartPy.io Nodes
Alternative Nodes
Contract:
KT1Dawoi2jjmDnBQHw6eRVSDdkUHNVvhBcU1
Use Wallet
Explore on SmartPy.io Nodes
Node
https://ithacanet.smartpy.io
View Node Data
SmartPy Nodes Health Check
Contract Data
Address
Balance
KT1Dawoi2jjmDnB...
0.000000
Storage


BCD TEZOS CONTRACT EXPLORER
OPTION 2
SEARCH
STATS
DAPPS
API
FEEDBACK
KT1Dawoi2jjmDnBQHw6eRVSDdkUHNVvhBcUi
EVERYWHERE
CONTRACTS
OPERATIONS
BIG MAPS
TOKENS
METADATA
FILTERS
Found 1 documents (3 ms)
Contracts → KT1Dawoi2jjmDnBQHw6eRVSDdkUHNVvhBcUi
4 minutes ago
1 OPERATION
5 entrypoints
ADDRESS
KT1Dawoi2jjmDnBQHw6eRVSDdkUHNVvhBcUi

# THANK YOU!!!!