

TP - Smart Contract

g) Transaction envoyé à moi-même :

[ This is a Sepolia Testnet transaction only ]

Transaction Hash:

0xcae4c58a93a9ffef5f9f3ed5646df2c53fc114dd3e0f7c3f4fa2f113e72f5b2b

Status:

Success

Block:

800019211 Block Confirmations

Timestamp:

2 mins ago (Mar-28-2025 02:27:00 PM UTC)

From:

0x37dC9DDC1F71f8989e5E5a96844e02b75504d2a8

To:

0x37dC9DDC1F71f8989e5E5a96844e02b75504d2a8

Value:

0 ETH

Transaction Fee:

0.00003273667698 ETH

Gas Price:

1.55888938 Gwei (0.00000000155888938 ETH)

m)

FILE EXPLORER

WORKSPACES

TP\_Election

contracts

Election.sol

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity ^0.8.24;

import './Ownable.sol';
import './SafeMath.sol';

contract Election is Ownable {
    using SafeMath for uint256;

    // Model a Candidate
    struct Candidate {
        uint256 id;
        string name;
        uint voteCount;
    }

    // Store accounts that have voted
    mapping(address => bool) public voters;
    // Store Candidates
    // Fetch Candidate
    mapping(uint => Candidate) public candidates;
    // Store Candidates Count
    uint public candidatesCount;

    // voted event
    event votedEvent ( uint indexed _candidateId);
```

Type the library name to see available commands...  
Cloning https://github.com/corcan/TP\_Election... please wait...

amaurykam

Add ABI.txt and Bytecode.txt

44e6e38 · now

3 Commits

ABI.txt

Add ABI.txt and Bytecode.txt

now

Bytecode.txt

Add ABI.txt and Bytecode.txt

now

README.md

Update README.md

36 minutes ago

n)

[ This is a Sepolia Testnet transaction only ]

Transaction Hash:	0x913d97f3315d8675ba2168cd8919dbb5c8c2277d411d62555faec3ae9c909c54
Status:	Success
Block:	8000279 2 Block Confirmations
Timestamp:	54 secs ago (Mar-28-2025 02:44:48 PM UTC)
Transaction Action:	Call 0x60806040 Method by 0x37dC9DDC...75504d2a8
From:	0x37dC9DDC1F71f8989e5E5a96844e02b75504d2a8
To:	[ 0x355e3174e9194b1bbc361c28faa7291873f11b13 Created ]
Value:	0 ETH
Transaction Fee:	0.00133261794816426 ETH
Gas Price:	1.564215729 Gwei (0.000000001564215729 ETH)

Ce sont les frais de déploiement nécessaire pour le smart contract.

L'adresse ip publique de mon smart contract est :  
**0x355e3174E9194b1bbc361C28Faa7291873F11b13**

o)

[block:8000323 txIndex:40]  
from: 0x37d...4d2a8  
to: Election.addCandidate(string) 0x355...11b13  
value: 0 wei  
data: 0x462...00000  
logs: 0  
hash: 0x8c3...eda91

status	0x1 Transaction mined and execution succeed
transaction hash	0xc952082149692ff46c5c65d163f63e0d5b7c8200f50ff11e82b76226eb921225
block hash	0x8c35659e331e9c0759735d2bdf37f8e239dc321e2407057c30915e57adbeda91
block number	8000323
from	0x37dc9ddc1f71f8989e5e5a96844e02b75504d2a8
to	Election.addCandidate(string) 0x355e3174e9194b1bbc361c28faa7291873f11b13
gas	95289 gas
transaction cost	94332 gas
input	0x462...00000
decoded input	{ "string_name": "KAMERER" }
decoded output	-
logs	[]
raw logs	[]

p)

[ This is a Sepolia Testnet transaction only ]

Transaction Hash:

0xc952082149692ff46c5c65d163f63e0d5b7c8200f50ff11e82b76226eb921225

Status:

Success

Block:

80003234 Block Confirmations

Timestamp:

53 secs ago (Mar-28-2025 02:53:48 PM UTC)

Transaction Action:

Call AddCandidate Function by 0x37dC9DDC...75504d2a8 on 0x355e3174...873F11b13

From:

0x37dC9DDC1F71f8989e5E5a96844e02b75504d2a8

To:

0x355e3174E9194b1bbc361C28Faa7291873F11b13

Value:

0 ETH

Transaction Fee:

0.00015318833930652 ETH

Gas Price:

1.62392761 Gwei (0.00000000162392761 ETH)

q)

Deployed Contracts1

ELECTION AT 0x355...11B13

Balance: 0 ETH

addCandidate

KAMERER

transferOwne...

address newOwner

vote

uint256 \_candidateId

candidates

1

0: uint256: id 1

1: string: name KAMERER

2: uint256: voteCount 0

candidatesCo...

0: uint256: 1

owner

voters

address

La valeur de candidateId est 1

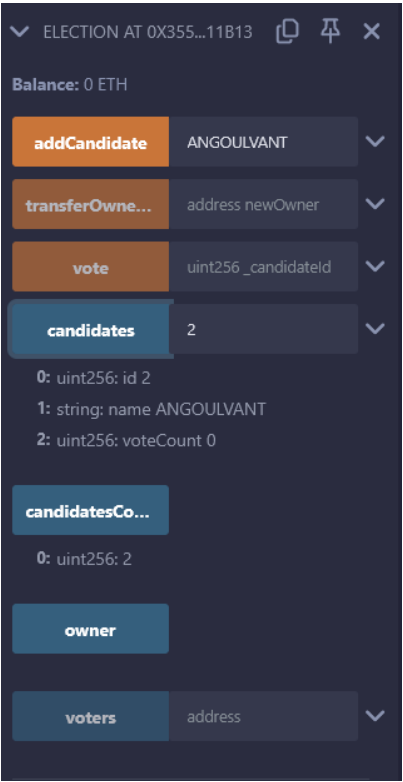
r)

[block:8000366 txIndex:17]  
from: 0x37d...4d2a8  
to: Election.addCandidate(string) 0x355...11b13  
value: 0 wei  
data: 0x462...00000  
logs: 0  
hash: 0x583...00a39

status                    0x1 Transaction mined and execution succeed

transaction hash   0x6db85fd4e4494a6158dc365cd49c9e4b3fc787be1d7f454c9c466f82fad4c066

block hash	0x583d3b834d401adf9b2daf8a0589958d33e0f6587ee2cc68dd56bd7fc4400a39
block number	8000366
from	0x37dc9ddc1f71f8989e5e5a96844e02b75504d2a8
to	Election.addCandidate(string) 0x355e3174e9194b1bbc361c28faa7291873f11b13
gas	78157 gas
transaction cost	77268 gas
input	0x462...00000
decoded input	{ "string_name": "ANGOULVANT" }
decoded output	-
logs	[]
raw logs	[]



s)  
La valeur du deuxième candidateID est 2

t)  
0x37dC9DDC1F71f8989e5E5a96844e02b75504d2a8

u)

[ This is a Sepolia **Testnet** transaction only ]

Transaction Hash:	0x5235cd04cf9853e06c2750285342ada9de2db5393b6b72cc79dbcc0a1038872b
Status:	Success
Block:	8000397 2 Block Confirmations
Timestamp:	32 secs ago (Mar-28-2025 03:08:48 PM UTC)
Transaction Action:	Call <b>Vote</b> Function by 0x37dC9DDC...75504d2a8 on 0x355e3174...873F11b13
From:	0x37dC9DDC1F71f8989e5E5a96844e02b75504d2a8
To:	0x355e3174E9194b1bbc361C28Faa7291873F11b13
Value:	0 ETH
Transaction Fee:	0.000110961152020488 ETH
Gas Price:	1.590886506 Gwei (0.000000001590886506 ETH)

v)

```
decoded output {
  "0": "uint256: id 1",
  "1": "string: name KAMERER",
  "2": "uint256: voteCount 1"
}
```

w)

[ This is a Sepolia **Testnet** transaction only ]

Transaction Hash:	0x6b7bdb8517cc9d26c11c289ce5ae673de4c3a0b9a0e8000c507430373c539c30
Status:	Success
Block:	8000441 1 Block Confirmation
Timestamp:	11 secs ago (Mar-28-2025 03:17:48 PM UTC)
Transaction Action:	Call <b>Vote</b> Function by 0x37dC9DDC...75504d2a8 on 0x32322EA7...557b41100
From:	0x37dC9DDC1F71f8989e5E5a96844e02b75504d2a8
To:	0x32322EA73E453226f1bdb551001f5B3557b41100
Value:	0 ETH
Transaction Fee:	0.000112147980919576 ETH
Gas Price:	1.607902462 Gwei (0.000000001607902462 ETH)

x)

[ This is a Sepolia **Testnet** transaction only ]

Transaction Hash:	0xfb3858c7899fa6c97ee6975d581d1e1fc12adf07372369a5876cfcc22257647e
Status:	Success
Block:	8000449 1 Block Confirmation
Timestamp:	15 secs ago (Mar-28-2025 03:19:24 PM UTC)
Transaction Action:	Call <b>Transfer Ownership</b> Function by 0x37dC9DDC...75504d2a8 on 0x355e3174...873F11b13
From:	0x37dC9DDC1F71f8989e5E5a96844e02b75504d2a8
To:	0x355e3174E9194b1bbc361C28Faa7291873F11b13
Value:	0 ETH
Transaction Fee:	0.00004658893004412 ETH
Gas Price:	1.612631708 Gwei (0.000000001612631708 ETH)

y)

Pour sécuriser la fonction addCandidate, il faudrait une liste de personnes ayant les droits de gérer les candidats.

z)

[ This is a Sepolia **Testnet** transaction only ]

Transaction Hash:	0x1e68b95698826b16893250f64227d1a563d3602b2a1ee4ce386e23f001188f64
Status:	Success
Block:	8000603 102 Block Confirmations
Timestamp:	20 mins ago (Mar-28-2025 03:50:36 PM UTC)
Transaction Action:	Call <b>Add Candidate</b> Function by 0x37dC9DDC...75504d2a8 on 0x91e9A93B...a6Ddf0141
From:	0x37dC9DDC1F71f8989e5E5a96844e02b75504d2a8
To:	0x91e9A93B387e65f90484B66eD4cc4A0a6Ddf0141
Value:	0 ETH
Transaction Fee:	0.000119419594747544 ETH
Gas Price:	1.542609796 Gwei (0.000000001542609796 ETH)

