

TP Blockchain

g. transaction vers moi même

[This is a Sepolia Testnet transaction only]

Transaction Hash:

0xbf58fd25b40abbfd57699543b10ca681a6ee4cc8791c7604b009c0d1176261ec

Status:

Success

Block:

8000117172 Block Confirmations

Timestamp:

36 mins ago (Mar-28-2025 02:11:12 PM UTC)

From:

0x61404a8778C2Bbcf5E33db414f91d677926a0cE1

To:

0x61404a8778C2Bbcf5E33db414f91d677926a0cE1

Value:

0 ETH

Transaction Fee:

0.000032382697074 ETH

Gas Price:

1.542033194 Gwei (0.000000001542033194 ETH)

h. numéro de block

[This is a Sepolia Testnet block only]

Block Height:

8000280<>

Status:

Unfinalized

Timestamp:

3 mins ago (Mar-28-2025 02:45:00 PM +UTC)

Proposed On:

Block proposed on slot 7286625, epoch 227707

Transactions:

166 transactions and 47 contract internal transactions in this block

Withdrawals:

16 withdrawals in this block

Fee Recipient:

0xE276Bc378A527A8792B353cdCA5b5E53263DfB9e in 12 secs

Block Reward:

0.014856034062369977 ETH (0 + 0.017033056607267561 - 0.002177022544897584)

Total Difficulty:

0

Size:

204,659 bytes

Gas Used:

35,051,628(97.37%) +95% Gas Target

n. déploiement du contrat

OverviewState

[This is a Sepolia Testnet transaction only]

Transaction Hash:

0x19c0809789b58349c45eabe55a7fa26a5ce0fdc9ccc92b0df62204167ed7866

Status:

Success

Block:

80002801 Block Confirmation

Timestamp:

16 secs ago (Mar-28-2025 02:45:00 PM UTC)

Transaction Action:

Call 0x60806040 Method by 0x61404a87...7926a0cE1

From:

0x61404a8778C2Bbcf5E33db414f91d677926a0cE1

To:

[0x32322ea73e453226f1bdb551001f5b3557b41100 Created]

Value:

0 ETH

Transaction Fee:

0.00133082316531432 ETH

Gas Price:

1.562109028 Gwei (0.000000001562109028 ETH)

ANGOULVANT VINCENT A2MSI

Les « transaction fees » permettent de payer les ressources nécessaires à l'exécution du contrat qui sont allouées sur le réseau Ethereum.

Les frais ne sont pas les mêmes que lors de ma transaction précédente.

L'adresse publique du contrat est la suivante :

0x32322EA73E453226f1bdb551001f5B3557b41100

o. p. Ajout du candidat « ANGOULVANT »

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

Transaction Hash:	0x4e9191c07c53451307718c5d66d39d56e4693ec9ee434d89d6d7d16121c1ddaa
Status:	Success
Block:	8000322 2 Block Confirmations
Timestamp:	56 secs ago (Mar-28-2025 02:53:36 PM UTC)
Transaction Action:	Call Add Candidate Function by 0x61404a87...7926a0cE1 on 0x32322EA7...557b41100
From:	0x61404a8778C2Bbcf5E33db414f91d677926a0cE1
To:	0x32322EA73E453226f1bdb551001f5B3557b41100
Value:	0 ETH
Transaction Fee:	0.000153477454682976 ETH
Gas Price:	1.626371807 Gwei (0.000000001626371807 ETH)

q. CandidateID :

```
{
  "0": "uint256: id 1",
  "1": "string: name ANGOULVANT",
  "2": "uint256: voteCount 0"
}
```

r. Ajout d'un second candidat « KAMERER » :

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

Transaction Hash:	0xf7fbd94291ac04e1645a9d90bcb7a0f0622c8ba8a17cf27366fa2e67d0a5d182
Status:	Success
Block:	8000365 3 Block Confirmations
Timestamp:	40 secs ago (Mar-28-2025 03:02:24 PM UTC)
Transaction Action:	Call Add Candidate Function by 0x61404a87...7926a0cE1 on 0x32322EA7...557b41100
From:	0x61404a8778C2Bbcf5E33db414f91d677926a0cE1
To:	0x32322EA73E453226f1bdb551001f5B3557b41100
Value:	0 ETH
Transaction Fee:	0.000125354523719664 ETH
Gas Price:	1.623090477 Gwei (0.000000001623090477 ETH)

ANGOULVANT VINCENT A2MSI

s. Détail du second candidat :

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

t. Propriétaire du contrat :

0x61404a8778C2Bbcf5E33db414f91d677926a0cE1

u.

[This is a Sepolia Testnet transaction only]

Transaction Hash:

0x68f9e40da02f0de50c0489b850ec4f3c741bedf630364ce542911697188d5682

Status:

Success

Block:

800039720 Block Confirmations

Timestamp:

4 mins ago (Mar-28-2025 03:08:48 PM UTC)

Transaction Action:

Call Vote Function by 0x61404a87...7926a0cE1 on 0x32322EA7...557b41100

From:

0x61404a8778C2Bbcf5E33db414f91d677926a0cE1

To:

0x32322EA73E453226f1bdb551001f5B3557b41100

Value:

0 ETH

Transaction Fee:

0.000110961152020488 ETH

Gas Price:

1.590886506 Gwei (0.000000001590886506 ETH)

v.

```
{
  "0": "uint256: id 1",
  "1": "string: name ANGOULVANT",
  "2": "uint256: voteCount 1"
}
```

w.

[This is a Sepolia Testnet transaction only]

Transaction Hash:

0x261230ac1d5d29f2b6d975aa453f144a7583153e9ef4fec713cbc1b1ce443b7a

Status:

Success

Block:

80004411 Block Confirmation

Timestamp:

9 secs ago (Mar-28-2025 03:17:48 PM UTC)

Transaction Action:

Call Vote Function by 0x61404a87...7926a0cE1 on 0x355e3174...873F11b13

From:

0x61404a8778C2Bbcf5E33db414f91d677926a0cE1

To:

0x355e3174E9194b1bbc361C28Faa7291873F11b13

Value:

0 ETH

Transaction Fee:

0.000112147980919576 ETH

Gas Price:

1.607902462 Gwei (0.000000001607902462 ETH)

ANGOULVANT VINCENT A2MSI

X.

[This is a Sepolia Testnet transaction only]

Transaction Hash:	0xa308dec6635a996998f8c02ef0fc204f863396e39badeff80d9580d258f32f69
Status:	Success
Block:	8000449 1 Block Confirmation
Timestamp:	6 secs ago (Mar-28-2025 03:19:24 PM UTC)
Transaction Action:	Call Transfer Ownership Function by 0x61404a87...7926a0cE1 on 0x32322EA7...557b41100
From:	0x61404a8778C2Bbcf5E33db414f91d677926a0cE1
To:	0x32322EA73E453226f1bdb551001f5B3557b41100
Value:	0 ETH
Transaction Fee:	0.00004658893004412 ETH
Gas Price:	1.612631708 Gwei (0.000000001612631708 ETH)

Y.

On va utiliser Whitelist.ol afin de gérer les utilisateurs pouvant utiliser cette fonction.

Z.

```
import "./Ownable.sol";
import "./SafeMath.sol";
import "./Whitelist.sol";

contract Election is Ownable, Whitelist {

    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;

    function addCandidate (string memory _name) public {
        require(isWhitelisted(msg.sender), "Not authorized");
        candidatesCount ++;
        candidates[candidatesCount] = Candidate(candidatesCount, _name, 0);
    }
}
```