

TP 1 – BLOCKCHAIN

Lien GITHUB : <https://github.com/sousmark/Blockchain>



0.1 ETH



Acheter



Envoyer



Swap

E

Transaction Details



Overview

State

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

Transaction Hash:	0x1a400f16cb144912644cbfd543af505563216f6ef14d5d0a72749a633e651df3
Status:	Success
Block:	12129662 2995 Block Confirmations
Timestamp:	1 day 43 mins ago (Mar-24-2022 12:21:31 PM +UTC)
From:	0x533fb0469d523dfd5bf3d97e0ad75ea66328d08e
To:	0x24e4259d604577c8eb50353b0066a52d5e169bef
Value:	0.1 Ether (\$0.00)
Transaction Fee:	0.001520763707127 Ether (\$0.00)
Gas Price:	0.000000072417319387 Ether (72.417319387 Gwei)

[Click to see More](#) ↓

F

Overview	
[This is a Ropsten Testnet block only]	
Block Height:	12129662 < >
Timestamp:	1 day 44 mins ago (Mar-24-2022 12:21:31 PM +UTC)
Transactions:	43 transactions and 91 contract internal transactions in this block
Mined by:	0x637ee9752eb0dace27a9b0b7556faf96b847480 in 1 secs
Block Reward:	2.828773228816872436 Ether (2 + 0.829618988579835824 - 0.000845759762963388)
Uncles Reward:	0
Difficulty:	27,587,251,709
Total Difficulty:	40,853,888,003,926,100
Size:	34,971 bytes
Gas Used:	7,987,959 (99.85%) <div><div></div></div> +100% Gas Target
Gas Limit:	8,000,000
Base Fee Per Gas:	0.000000000105879332 Ether (0.105879332 Gwei)
Burnt Fees:	0.000845759762963388 Ether
Extra Data:	gethgo1.17.5linux (Hex:0xd883010a10846765746888676f312e31372e35856c696e7578)

G

Envoyer

X

Accélérer

Annuler

Status

Afficher sur l'explorateur de blocs

En attente

Copier l'ID de transaction

de

Destinataire

0x24E...9bef

→

0xc25...100F

Transaction

Nonce

0

Montant

-0.00000001 ETH

Limite Carburant (Unités)

21000

Total des frais de carburant

0 ETH

Frais maximaux par carburant

0.000000004 ETH

Total

0.00000001 ETH

Log d'activité:

Mark Sous

|

```
✓ [vm] from: 0x5B3...eddC4 to: Election.(constructor) value: 0 wei data: 0x608...c0033 logs: 0 hash: 0xe50...15bea

status      true Transaction mined and execution succeed
transaction hash  0xe50ac82099d80be5c132e173960eae7aa977fe5b1590632586b51ledf115bea
from        0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to          Election.(constructor)
gas         80000000 gas
transaction cost  554494 gas
execution cost   554494 gas
input        0x608...c0033
decoded input  {}
decoded output -
logs         []
val         0 wei
```

M. Il d'agit des frais pour les déploiements de smart contract.

Adresse publique : 0xd9145CCE52D386f254917e481eB44e9943F39138

```
✓ [vm] from: 0x5B3...eddC4 to: Election.addCandidate(string) 0xd91...39138 value: 0 wei data: 0x462...00000 logs: 0 hash: 0x31c...83a4a


status      true Transaction mined and execution succeed
transaction hash  0x31c9bd35061fa738f7783825fc30d71741bcf845a4c12963cd16076ab7783a4a
from        0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to          Election.addCandidate(string) 0xd9145CCE52D386f254917e481eB44e9943F39138
gas         80000000 gas
transaction cost  91358 gas
execution cost   91358 gas
input        0x462...00000
decoded input  {
               "string_name": "sous"
             }
decoded output {}
logs         []
val         0 wei
```

Mark Sous

P

CALL	[call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: Election.candidates(uint256) data: 0x347...00001
from	0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 🔗
to	Election.candidates(uint256) 0xd9145CCE52D386f254917e481eB44e9943F39138 🔗
execution cost	28814 gas (Cost only applies when called by a contract) 🔗
input	0x347...00001 🔗
decoded input	{ "uint256 ": "1" } 🔗
decoded output	{ "0": "uint256: id 1", "1": "string: name sous", "2": "uint256: voteCount 0" } 🔗
logs	[] 🔗 🔗

Q

	[vm] from: 0x5B3...eddC4 to: Election.addCandidate(string) 0xd91...39138 value: 0 wei data: 0x462...00000 logs: 0 hash: 0xa37...e9a51
status	true Transaction mined and execution succeed
transaction hash	0xa37d37a559e13a820e37c4637439ed0a94f7c1a25615ab6cf9181e09fa9e9a51 🔗
from	0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 🔗
to	Election.addCandidate(string) 0xd9145CCE52D386f254917e481eB44e9943F39138 🔗
gas	80000000 gas 🔗
transaction cost	74282 gas 🔗
execution cost	74282 gas 🔗
input	0x462...00000 🔗
decoded input	{ "string _name": "second" } 🔗
decoded output	{}
logs	[] 🔗 🔗
val	0 wei 🔗

Mark Sous

R

```
CALL [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: Election.candidates(uint256) data: 0x347...00002

from          0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 ⓘ

to            Election.candidates(uint256) 0xd9145CCE52D386f254917e481eB44e9943F39138 ⓘ

execution cost 28814 gas (Cost only applies when called by a contract) ⓘ

input          0x347...00002 ⓘ

decoded input  {
    "uint256 ": "2"
} ⓘ

decoded output {
    "0": "uint256: id 2",
    "1": "string: name second",
    "2": "uint256: voteCount 0"
} ⓘ

logs          [] ⓘ ⓘ
```

S

```
CALL [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: Election.owner() data: 0x8da...5cb5b

from          0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 ⓘ

to            Election.owner() 0xd9145CCE52D386f254917e481eB44e9943F39138 ⓘ

execution cost 23430 gas (Cost only applies when called by a contract) ⓘ

input          0x8da...5cb5b ⓘ

decoded input  {} ⓘ

decoded output {
    "0": "address: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4"
} ⓘ

logs          [] ⓘ ⓘ
```

Mark Sous

T

```
✓ [vm] from: 0x5B3...eddC4 to: Election.vote(uint256) 0xd91...39138 value: 0 wei data: 0x012...00001 logs: 1
hash: 0xf15...897b5

status true Transaction mined and execution succeed

transaction hash 0xf15ee719e9080e1fc78fe6ba84a8778eb611d66fa98e6b0626dc520583897b5 ⓘ

from 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 ⓘ

to Election.vote(uint256) 0xd9145CCE52D386f254917e481eB44e9943F39138 ⓘ

gas 80000000 gas ⓘ

transaction cost 69467 gas ⓘ

execution cost 69467 gas ⓘ

input 0x012...00001 ⓘ

decoded input {
  "uint256 _candidateId": "1"
} ⓘ

decoded output {} ⓘ

logs [
  {
    "from": "0xd9145CCE52D386f254917e481eB44e9943F39138",
    "topic": "0xffff3c900d938d21d0990d786e819f29b8d05c1ef587b462b939609625b684b16",
    "event": "votedEvent",
    "args": {
      "0": "1",
      "_candidateId": "1"
    }
  }
]
```

U

```
CALL [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: Election.candidates(uint256) data: 0x347...00001

from 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 ⓘ

to Election.candidates(uint256) 0xd9145CCE52D386f254917e481eB44e9943F39138 ⓘ

execution cost 28814 gas (Cost only applies when called by a contract) ⓘ

input 0x347...00001 ⓘ

decoded input {
  "uint256 ": "1"
} ⓘ

decoded output {
  "0": "uint256: id 1",
  "1": "string: name sous",
  "2": "uint256: voteCount 1"
} ⓘ

logs [] ⓘ ⓘ
```

Mark Sous

V

```
✓ [vm] from: 0xAb8...35cb2 to: Election.vote(uint256) 0xd91...39138 value: 0 wei data: 0x012...00001 logs: 1
hash: 0xf5e...ca60b

status      true Transaction mined and execution succeed

transaction hash  0xf5e2dadf033ad4fedddef691980fc10215cd12e0f43b9361320b0510522ca60b

from          0xAb8483F64d9C6d1EcF9b849Ae677dD3315835cb2

to            Election.vote(uint256) 0xd9145CCE52D386f254917e481eB44e9943F39138

gas           80000000 gas

transaction cost 52367 gas

execution cost  52367 gas

input          0x012...00001

decoded input   {
    "uint256 _candidateId": "1"
}

decoded output  {}

logs           [
    {
        "from": "0xd9145CCE52D386f254917e481eB44e9943F39138",
        "topic": "0xffff3c900d938d21d0990d786e819f29b8d05c1ef587b462b939609625b684b16",
        "event": "votedEvent",
        "args": {
            "0": "1",
            "_candidateId": "1"
        }
    }
]
```

```
CALL [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: Election.candidates(uint256) data: 0x347...00001

from          0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

to            Election.candidates(uint256) 0xd9145CCE52D386f254917e481eB44e9943F39138

execution cost 28814 gas (Cost only applies when called by a contract)

input          0x347...00001

decoded input   {
    "uint256 ": "1"
}

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

logs           []
```

Mark Sous

W

status	true Transaction mined and execution succeed
transaction hash	0xf0820f03194f1f3cffe7be3706e5fa04f110828ea03f0db110ab475a573ce6fe 🔗
from	0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 🔗
to	Election.transferOwnership(address) 0xd9145CCE52D386f254917e481eB44e9943F39138 🔗
gas	80000000 gas 🔗
transaction cost	28682 gas 🔗
execution cost	28682 gas 🔗
input	0xf2f...c02db 🔗
decoded input	<pre>{ "address newOwner": "0x4B20993Bc481177ec7E8f571ceCaE8A9e22C02db" }</pre> 🔗
decoded output	<pre>{}</pre> 🔗
logs	<pre>[{ "from": "0xd9145CCE52D386f254917e481eB44e9943F39138", "topic": "0x8be0079c531659141344cd1fd0a4f28419497f9722a3daafe3b4186f6b6457e0", "event": "OwnershipTransferred",</pre>

X

On peut vérifier que la personne qui appelle cette fonction est bien le détenteur du contrat

Y

```
function addCandidate (string memory _name) public onlyOwner {
    candidatesCount ++;
    candidates[candidatesCount] = Candidate(candidatesCount, _name, 0);
}
```