

TP : smart contract

Etudiant

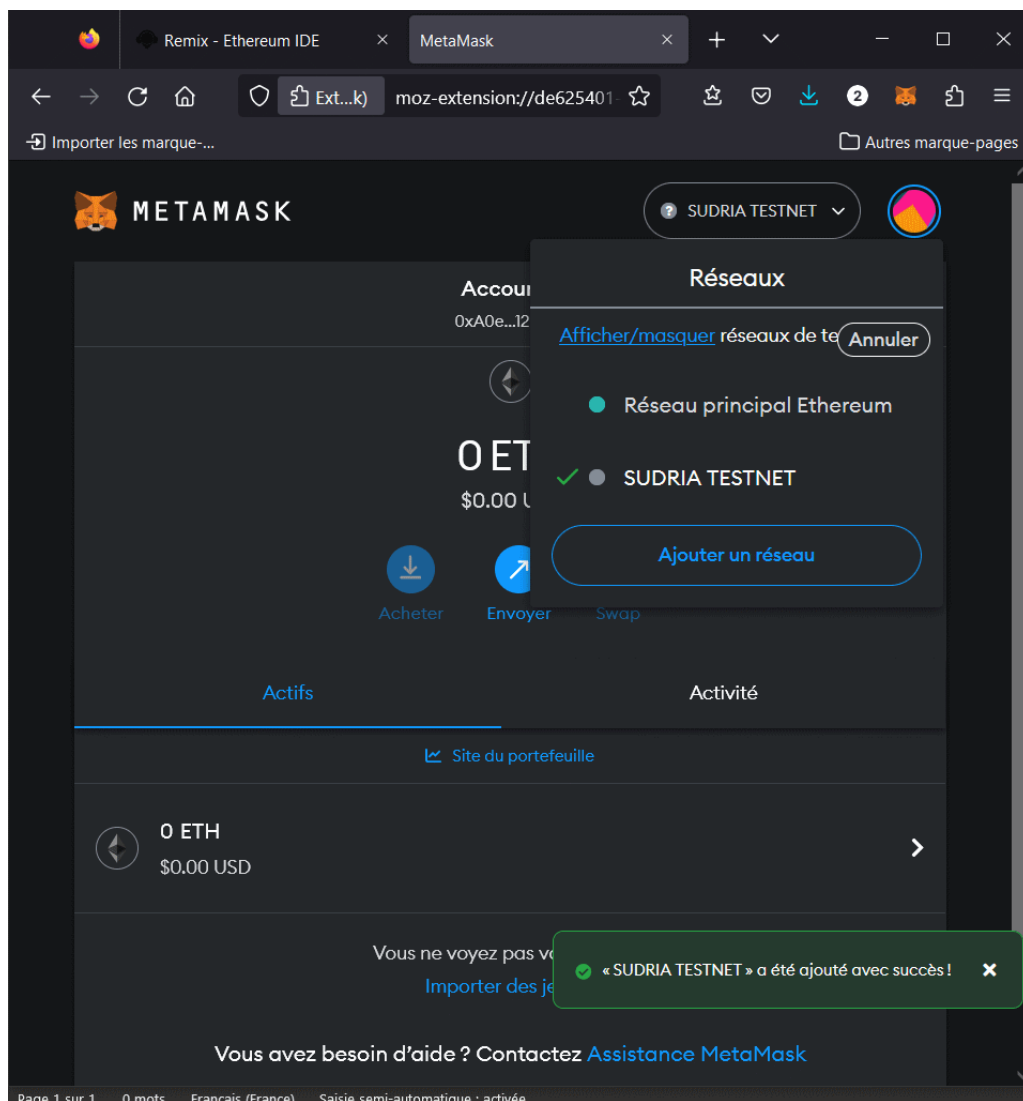
Antoine Lelong

Lien GitHub

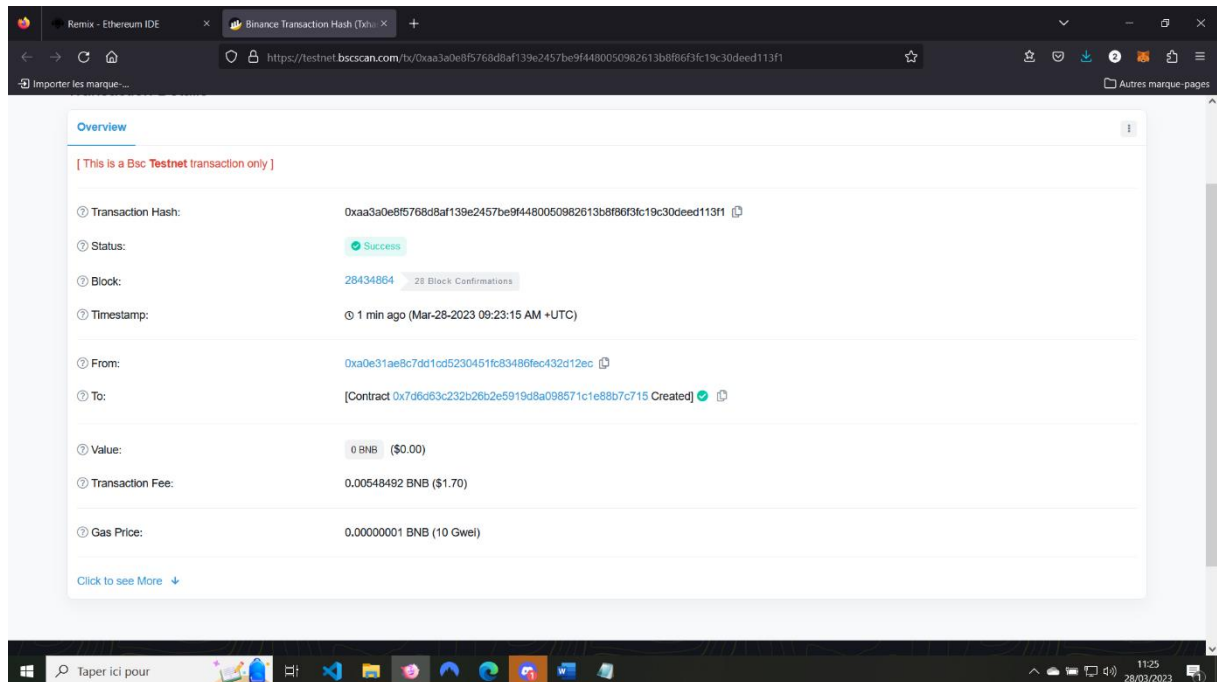
https://github.com/Eniotnaa/TP_smart_contract

I- Prise en main des outils Remix et Metamax

Etape D : connexion au réseau privé



Etape F : Consultation de la transaction

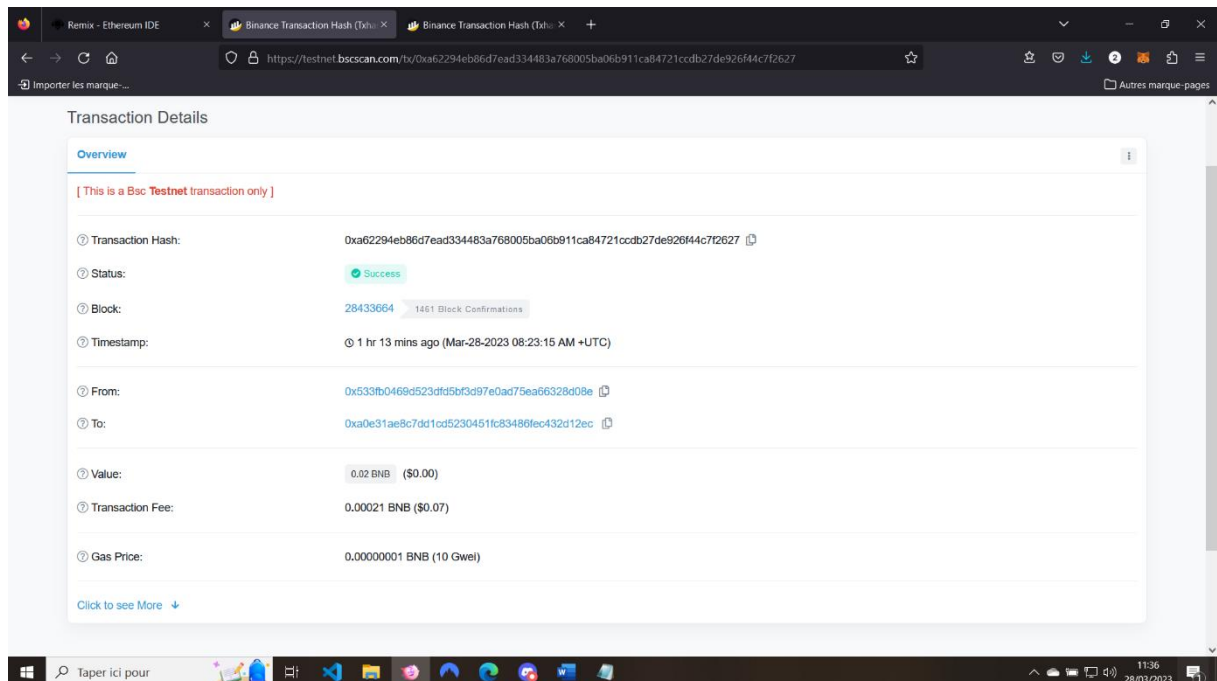


The screenshot shows a web browser window with the URL <https://testnet.bscscan.com/tx/0xaa3a0e8f5768d8af139e2457be9f4480050982613b8f86f3c19c30deed113f1>. The page displays the 'Overview' of a transaction. A red warning message at the top states: '[This is a Bsc Testnet transaction only]'. The transaction details are as follows:

Transaction Hash:	0xaa3a0e8f5768d8af139e2457be9f4480050982613b8f86f3c19c30deed113f1
Status:	Success
Block:	28434864 28 Block Confirmations
Timestamp:	1 min ago (Mar-28-2023 09:23:15 AM +UTC)
From:	0xa0e31ae8c7dd1cd5230451fc83486fec432d12ec
To:	[Contract 0x7d6d63c232b26b2e5919d8a098571c1e88b7c715 Created]
Value:	0 BNB (\$0.00)
Transaction Fee:	0.00548492 BNB (\$1.70)
Gas Price:	0.00000001 BNB (10 Gwei)

At the bottom, there is a link 'Click to see More'.

Etape G : Consultation du block :

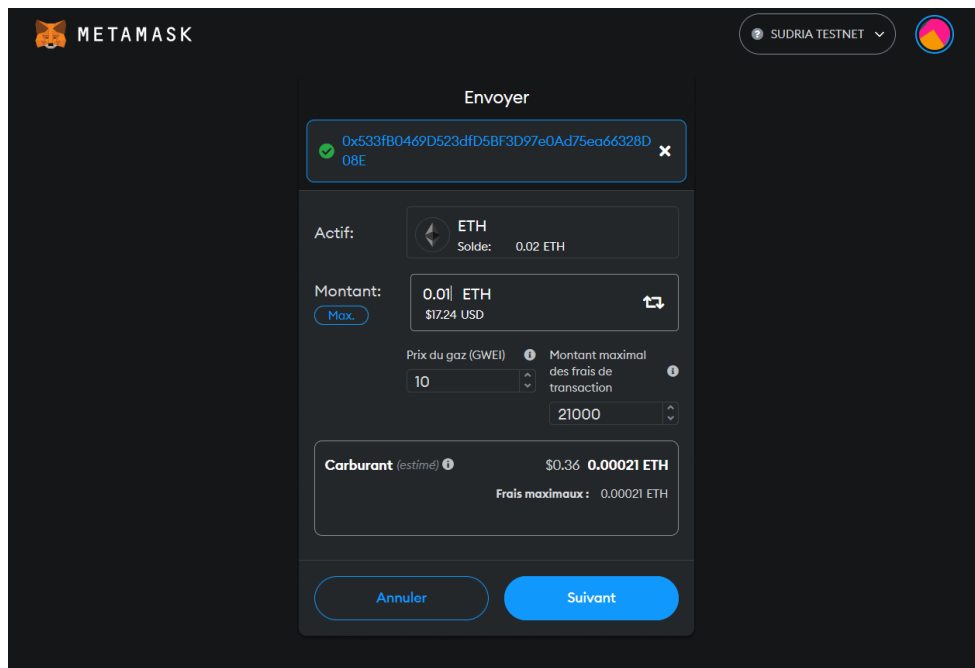


The screenshot shows a web browser window with the URL <https://testnet.bscscan.com/tx/0xa62294eb86d7ead334483a768005ba06b911ca84721ccdb27de926f4c7f2627>. The page displays the 'Transaction Details' for a specific transaction. A red warning message at the top states: '[This is a Bsc Testnet transaction only]'. The transaction details are as follows:

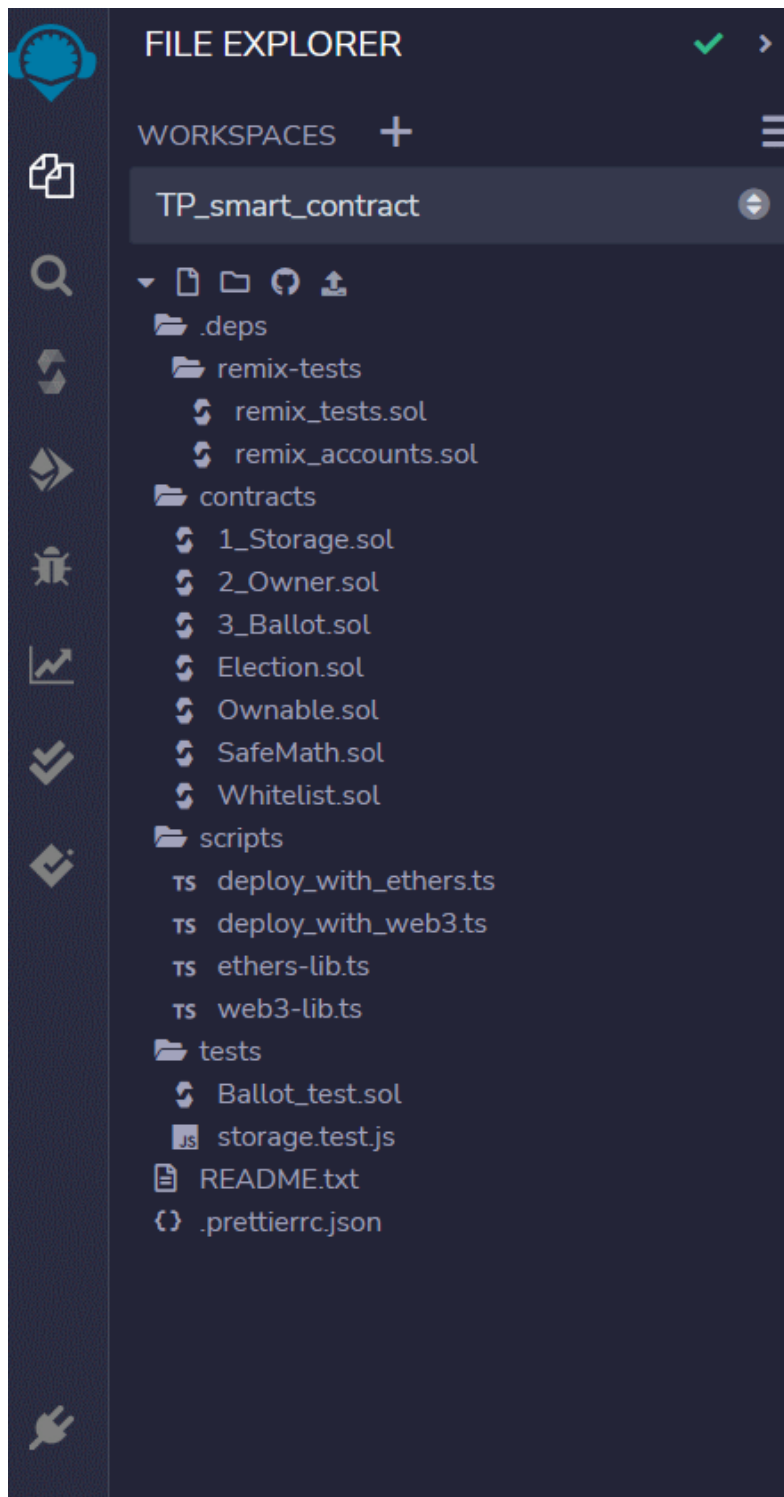
Transaction Hash:	0xa62294eb86d7ead334483a768005ba06b911ca84721ccdb27de926f4c7f2627
Status:	Success
Block:	28433664 1461 Block Confirmations
Timestamp:	1 hr 13 mins ago (Mar-28-2023 08:23:15 AM +UTC)
From:	0x533fb0468d523dfd5bf3d97e0ad75ea66328d08e
To:	0xa0e31ae8c7dd1cd5230451fc83486fec432d12ec
Value:	0.02 BNB (\$0.00)
Transaction Fee:	0.00021 BNB (\$0.07)
Gas Price:	0.00000001 BNB (10 Gwei)

At the bottom, there is a link 'Click to see More'.

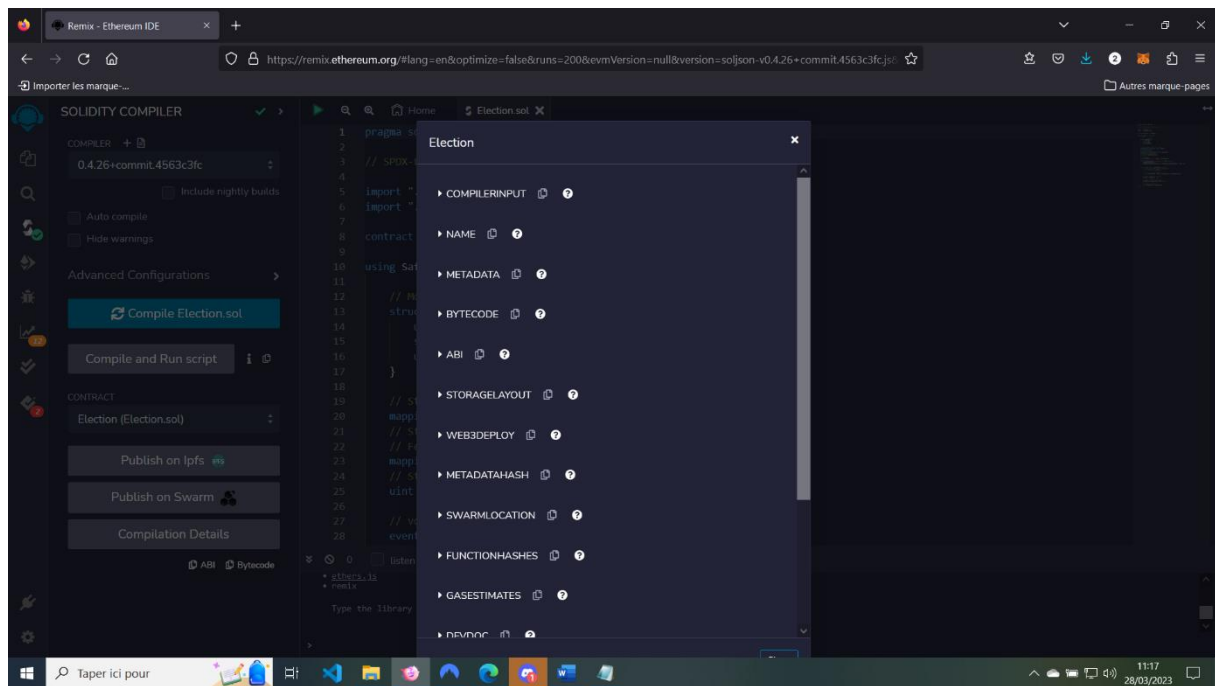
Etape H : Transaction Ethereum



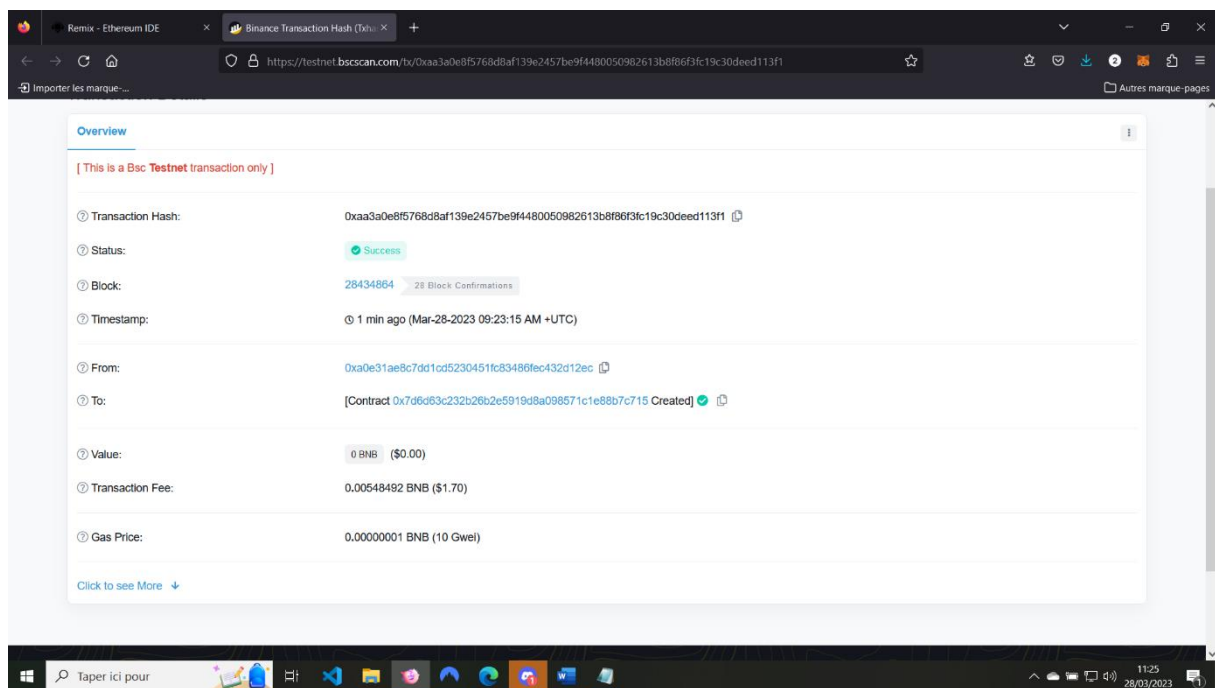
Etape K : Ajout des fichiers Solidity



Etape L : Compiler le smart contract « Election »



Etape M : Déployer le smart contract



Frai de transaction pour l'envoi de 0.01 ETH

Value:

0.01 BNB (\$0.00)

Transaction Fee:

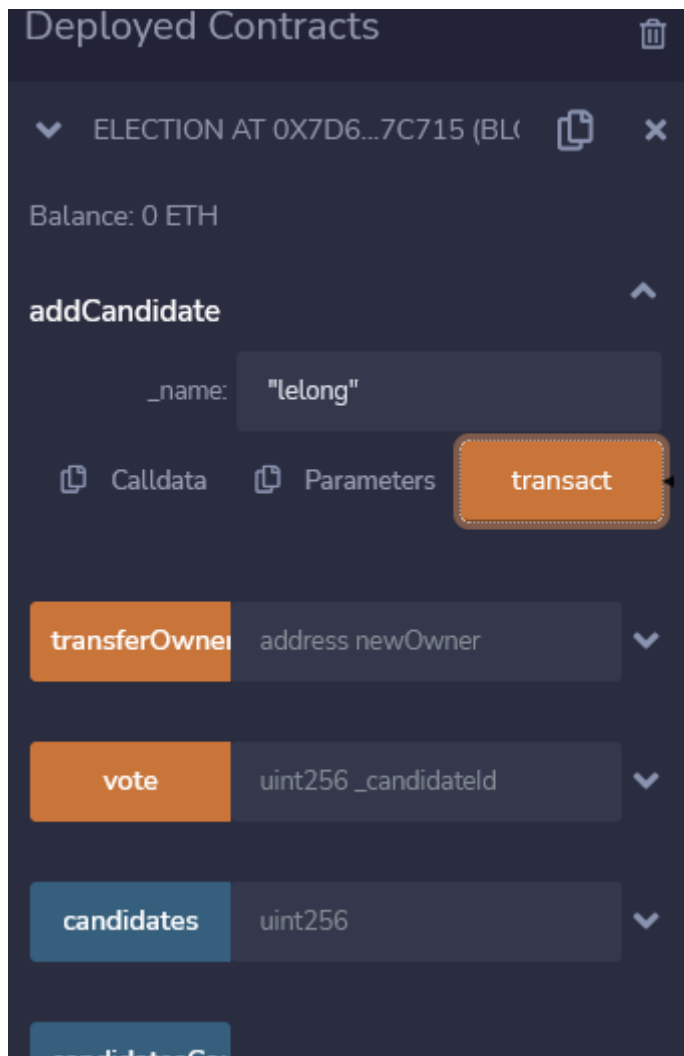
0.00021 BNB (\$0.07)

Les frais de transactions sont différents car la puissance nécessaire pour de ces transactions sont différentes.

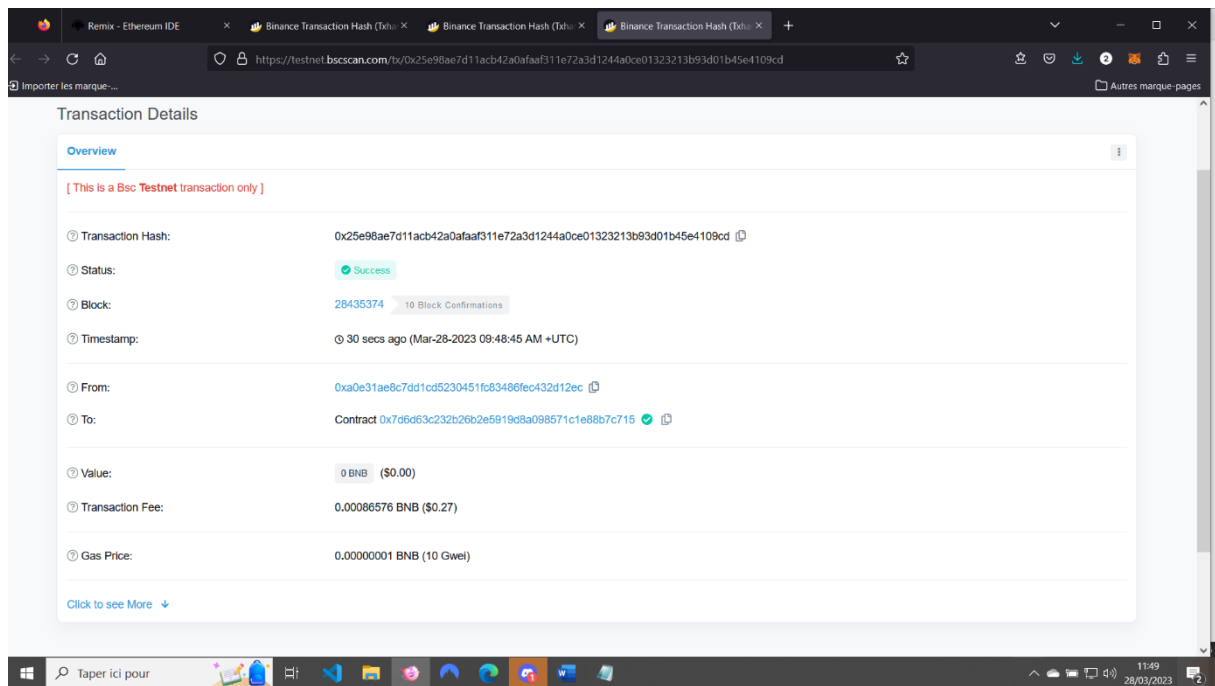
L'adresse public de la transaction est :

0xaa3a0e8f5768d8af139e2457be9f4480050982613b8f86f3fc19c30deed113f1

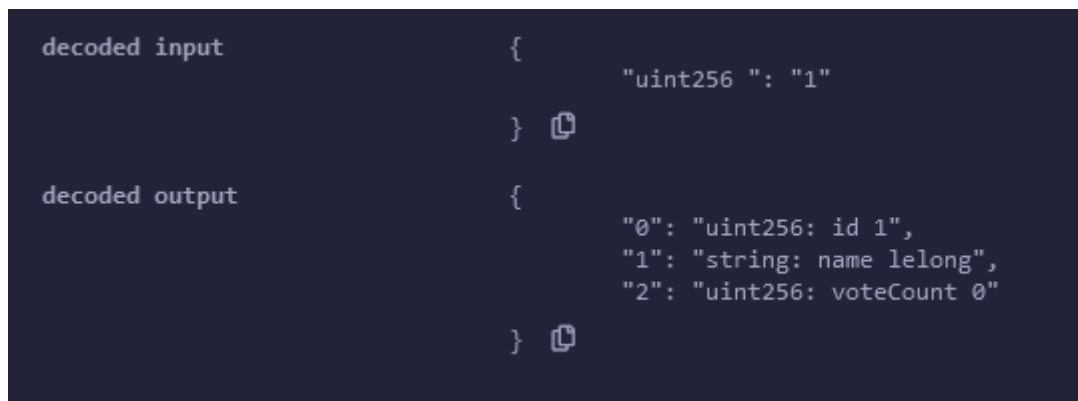
Etape N : Ajout du premier candidat



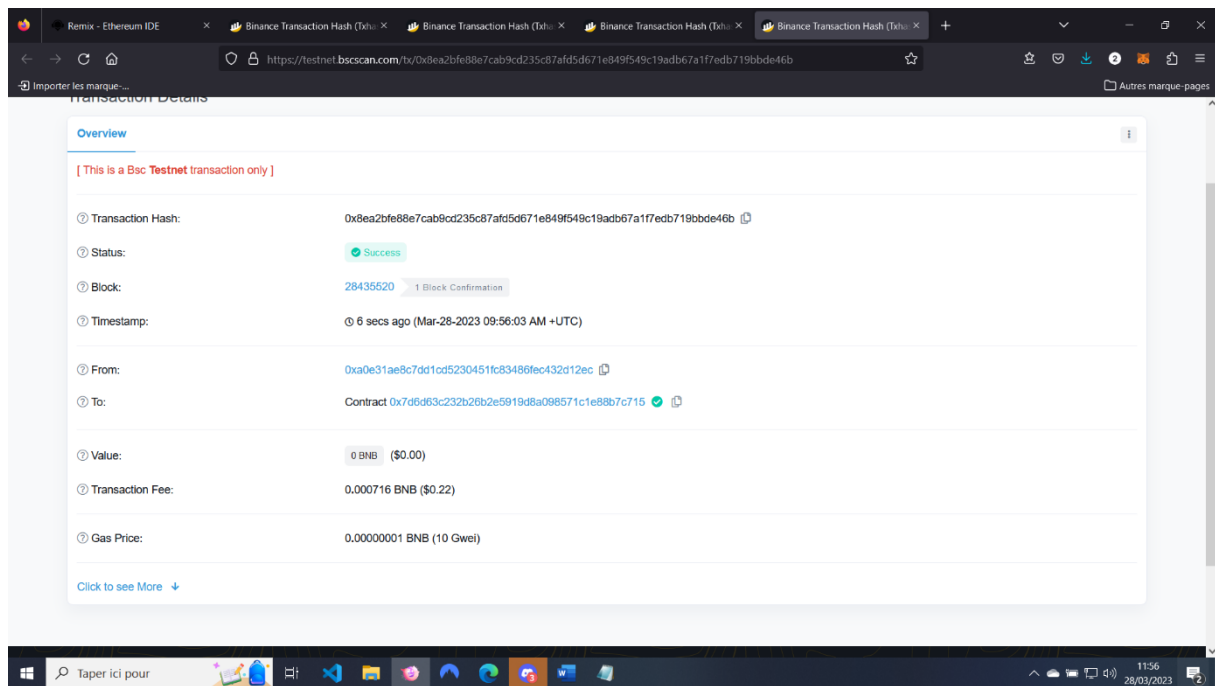
Etape O : Détail de la transaction



Etape P : Détail du candidat



Etape Q : Ajout du second candidat



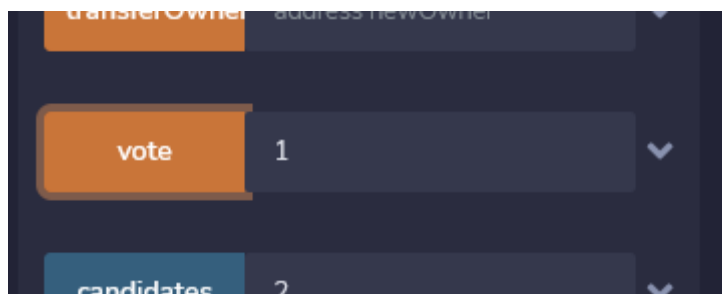
Etape R : valeur du second candidat

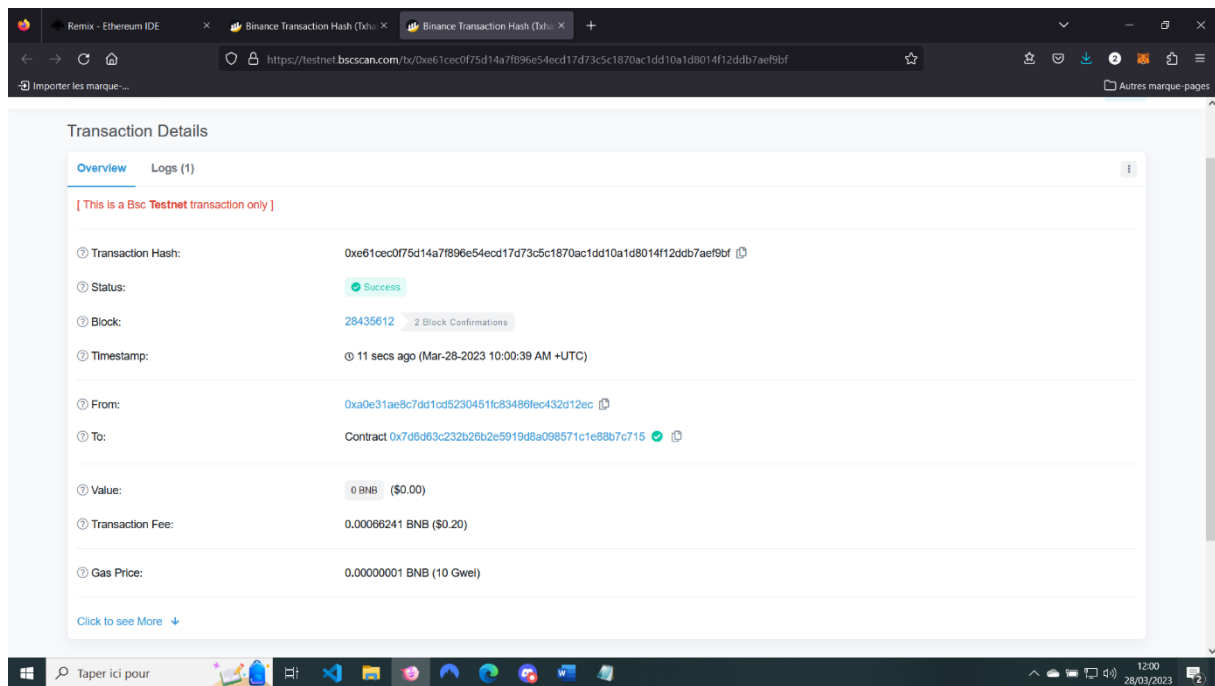


Etape S : adresse du propriétaire

Adresse du propriétaire : 0xa0e31ae8c7dd1cd5230451fc83486fec432d12ec

Etape T : Réalisation du premier vote



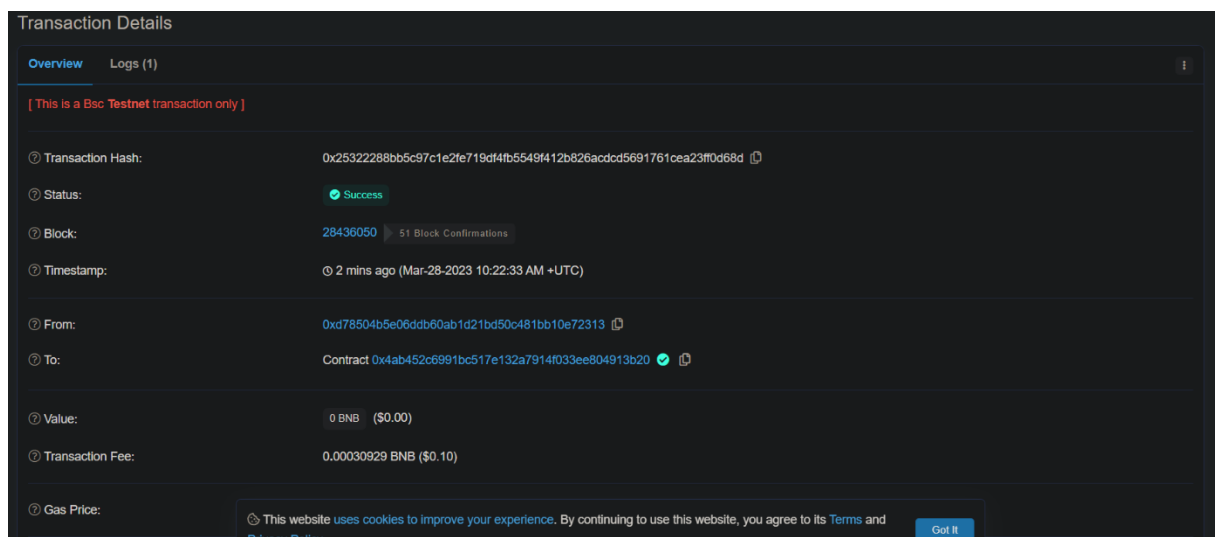


Etape U : Vérification de la prise en compte du vote

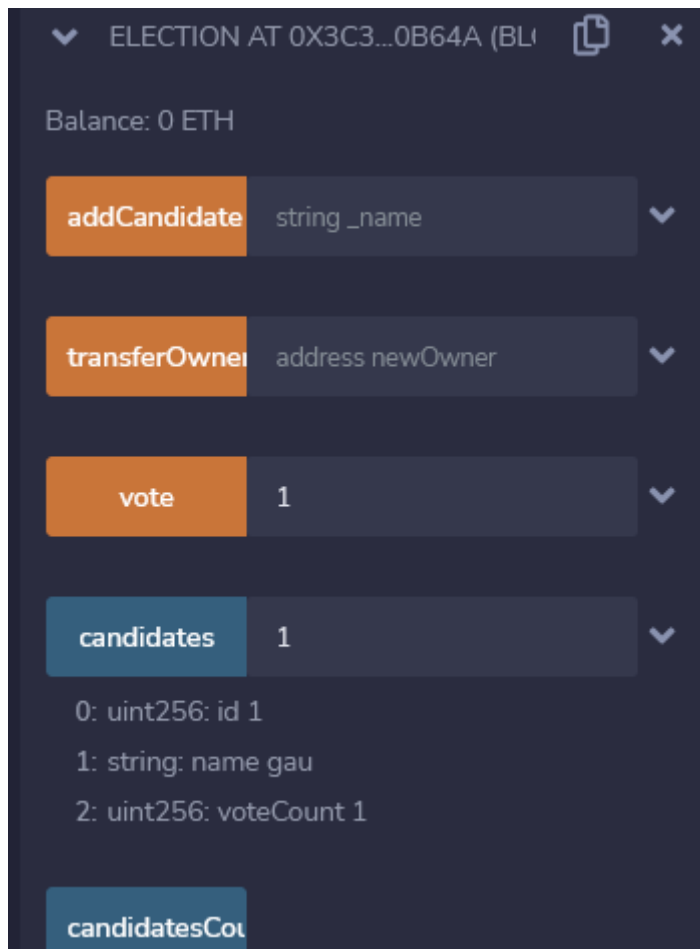


Etape V & W :

Transfert de propriétaire



Connexion à l'autre déploiement du camarade



Screenshot de sa transaction de vote sur mon déploiement

[This is a Bsc Testnet transaction only]

[illegible]

Etape X : Appel sécurisé ?

Afin de pouvoir sécurisé l'appel de la fonction `addCandidat`, il faut faire un check si la personne qui effectue l'appel soit le propriétaire du déploiement.

Etape Y : Modification du code

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