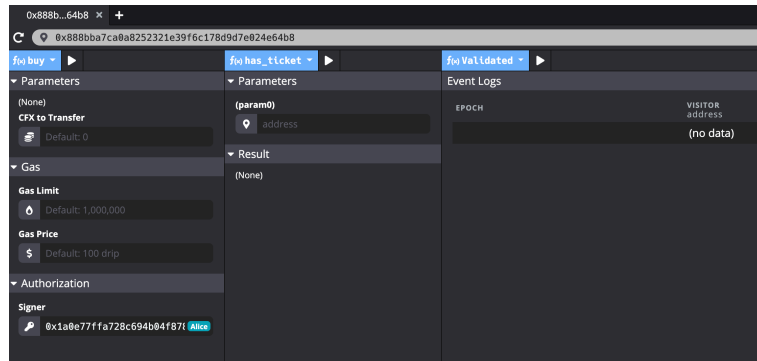


Homework for Lecture 4

1. Deploy an instance of the contract on Conflux Oceanus

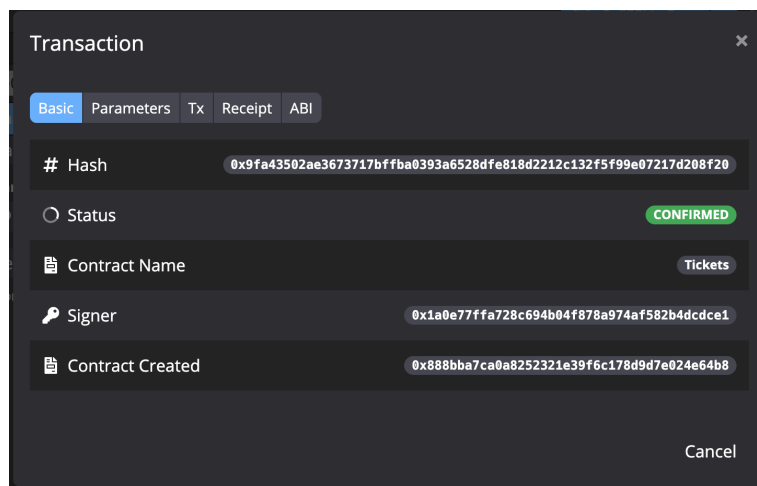
- a) The address of the contract:

0x888bba7ca0a8252321e39f6c178d9d7e024e64b8



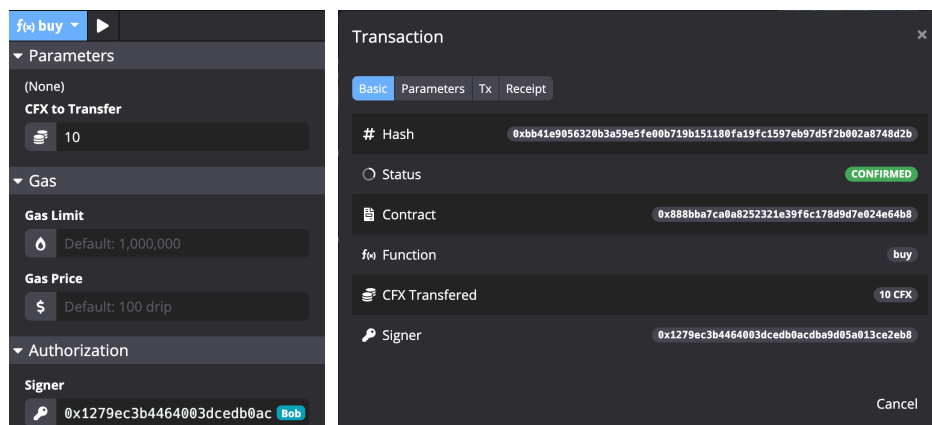
- b) The transaction hash of deployment from Alice:

0x9fa43502ae3673717bffba0393a6528dfe818d2212c132f5f99e07217d208f20



- c) The transaction hash of buy from Bob:

0xbb41e9056320b3a59e5fe00b719b151180fa19fc1597eb97d5f2b002a8748d2b



- d) The transaction hash of validate from Alice:

0xc8170fd26ef38fbf5f42c219d44de287573889eca9ffccc9108bd2687c9bd2c1

f() validate

▶

Parameters

visitor

0x1279ec3b4464003dcedb0ac Bob

Gas

Gas Limit

Default: 1,000,000

Gas Price

Default: 100 drip

Authorization

Signer

0x1a0e77ffa728c694b04f87f Alice

Transaction

Basic Parameters Tx Receipt

Hash

0xc8170fd26ef38fbf5f42c219d44de287573889eca9ffccc9108bd2687c9bd2c1

Status

CONFIRMED

Contract

0x888bba7ca0a8252321e39f6c178d9d7e024e64b8

f() Function

validate

CFX Transferred

0 CFX

Signer

0x1a0e77ffa728c694b04f87f Alice

Cancel

- e) The transaction hash of withdraw from Alice:
0x28114761fec3102c476e41166b406c7abbc0f2cd56749c9fb17041777d4dd58d

f() withdraw

▶

Parameters

(None)

Gas

Gas Limit

Default: 1,000,000

Gas Price

Default: 100 drip

Authorization

Signer

0x1a0e77ffa728c694b04f87f Alice

Transaction

Basic Parameters Tx Receipt

Hash

0x28114761fec3102c476e41166b406c7abbc0f2cd56749c9fb17041777d4dd58d

Status

CONFIRMED

Contract

0x888bba7ca0a8252321e39f6c178d9d7e024e64b8

f() Function

withdraw

CFX Transferred

0 CFX

Signer

0x1a0e77ffa728c694b04f87f Alice

Cancel

- Update Ticket.sol so that it becomes possible to set the number of tickets and the price per ticket when you deploy a contract.

The contract code is in file 'Tickets_1.sol' and the screenshot of deploying a contract with 33 tickets for 44 CFX each is as below.

Deploy Contract **Tickets**

Constructor Parameters

num

123 33

price

123 44

Signer

0x1a0e77ffa728c694b04f87f Alice

Alice

Gas Limit

Default: 1,000,000

Gas Price

Default: 100 drip

Storage Limit

Cancel

Deploy

3. Buying multiple tickets from one address

The source code is in the file 'Tickets_2.sol' and some screenshots of buying 2 tickets from an address and then validating them are as followed.

1. Buy the first one

f() buy	f() has_ticket_num
Parameters (None) CFX to Transfer 10 Gas & Storage Gas Limit Default: 1,000,000 Gas Price Default: 100 drip Storage Limit Authorization Signer 0x1279ec3b4464003dcedb0... Bob	Parameters (param0) 0x1279ec3b4464003dcedb0ac Bob Result Success "1"

2. Buy the second one

f() buy	f() has_ticket_num
Parameters (None) CFX to Transfer 10 Gas & Storage Gas Limit Default: 1,000,000 Gas Price Default: 100 drip Storage Limit Authorization Signer 0x1279ec3b4464003dcedb0... Bob	Parameters (param0) 0x1279ec3b4464003dcedb0ac Bob Result Success "2"

3. Validate the first one

f() validate	f() has_ticket_num
Parameters visitor 0x1279ec3b4464003dcedb0ac Bob Gas & Storage Gas Limit Default: 1,000,000 Gas Price Default: 100 drip Storage Limit Authorization Signer 0x1a0e77ffa728c694b04f... Alice	Parameters (param0) 0x1279ec3b4464003dcedb0ac Bob Result Success "1"

4. Validate the second one

f() validate	f() has_ticket_num
Parameters	Parameters
visitor 0x1279ec3b4464003dcedb0ac Bob	(param0) 0x1279ec3b4464003dcedb0ac Bob
Gas & Storage	Result Success
Gas Limit Default: 1,000,000	"0"
Gas Price Default: 100 drip	
Storage Limit	
Authorization	
Signer 0x1a0e77ffa728c694b04f... Alice	

4. Time of the event

The source code is in the file 'Tickets_3.sol'