BLOCKCHAINS

ERC20 Token Creation

von
Benjamin Ellmer (S2210455012)

Mobile Computing Master
FH Hagenberg

May 11, 2023

1 Code

All I had to do was change the first line of the contract from the slides, to:
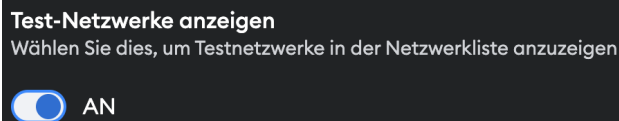
```
contract Ex3Token is IERC20 {
using SafeMath for Ex3Token;
         ...
}
```

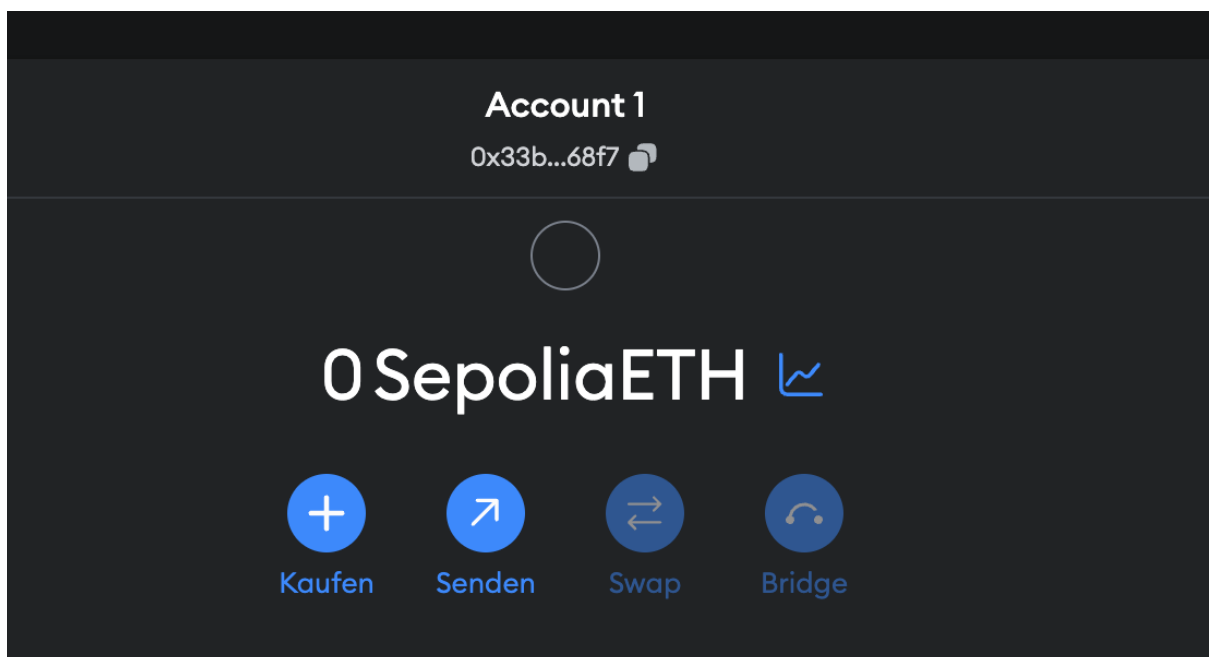You can find the whole code for the contract in the submission folder, or on my git repo here.

2 Process

Create Metamask Account

Activate Test Networks

View empty wallet

Mine tokens & Claim Rewards

Sepolia PoW Faucet

0x33bbeecfC29A19b78d2d538f5640c335f6f768f7

✓ Ich bin ein Mensch
hCaptcha
Privatsphäre - Bedingungen

Start Mining

Sepolia PoW Faucet

Your Mining Reward:		Current Hashrate:
0.05 SepETH		208.53 H/s

Number of Workers:	3 / 3	+ −
Minimum Claim Reward:	0.01 SepETH	
Maximum Claim Reward:	2.5 SepETH	
Remaining Session Time:	11h 44min	
Total Shares:	44	
Avg. Reward per Hour:	0.191 SepETH/h	
Reward Boost:	+ 0%	Boost

0x33bbeecfC29A19b78d2d538f5640c335f6f768f7

Stop Mining & Claim Rewards

Check Rewards Transaction

Claim Mining Rewards ✕

Target Address: 0x33bbeecfC29A19b78d2d538f5640c335f6f768f7
Claimable Reward: 0.05 SepETH
Claimable until: 2023-05-12 15:35 (23h 43min)

> Claim Transaction has been confirmed in block #3464494!
> TX: 0x1b4389d61fd9e7e36b6a7737ecd96dc1c3a9aa31a4a9873d99b89ffaf8831985
>
> Did you like the faucet? Give that project a ⚙ Star | 1,264
> Or support this faucet by sharing your result with a 🐦 Tweet m Post

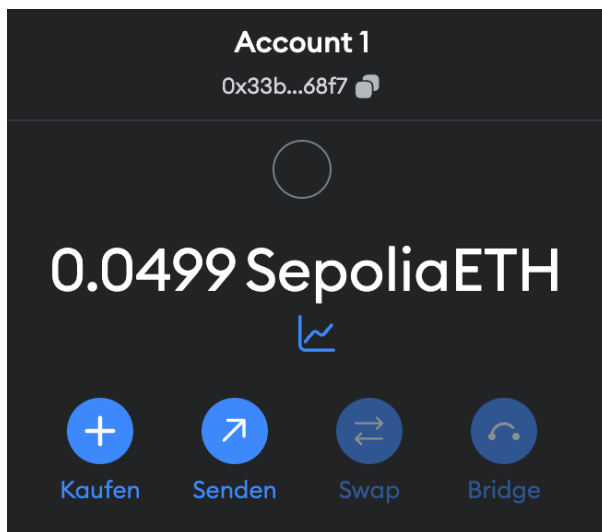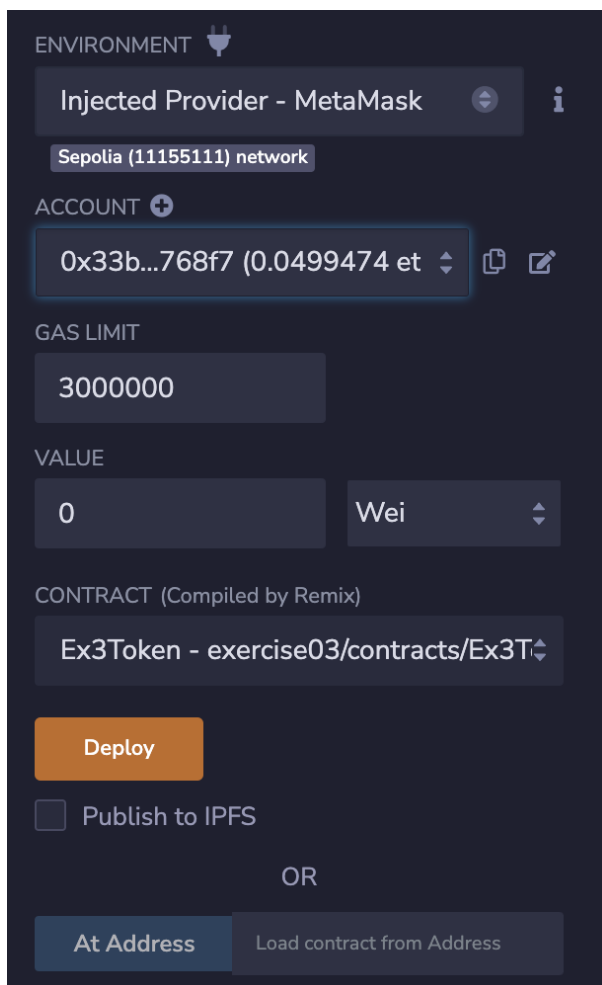Close

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

⑦ Transaction Hash:	0x1b4389d61fd9e7e36b6a7737ecd96dc1c3a9aa31a4a9873d99b89ffaf8831985 ⧉
⑦ Status:	✓ Success
⑦ Block:	⧗ 3464494 1 Block Confirmation
⑦ Timestamp:	🕑 21 secs ago (May-11-2023 01:51:48 PM +UTC)
⑦ From:	0x6Cc9397c3B38739daCbfaA68EaD5F5D77Ba5F455 ⧉
⑦ To:	0x33bbeecfC29A19b78d2d538f5640c335f6f768f7 ⧉
⑦ Value:	♦ 0.0499474 ETH ($0.00)
⑦ Transaction Fee:	0.000042000000147 ETH ($0.00)
⑦ Gas Price:	2.000000007 Gwei (0.000000002000000007 ETH)

3

View tokens in Metamask

Select Metamask wallet in Remix and deploy token

Inspect deployment Transaction

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

⑦ Transaction Hash:	0x56cb6f49d81373c2fdf9e4702dabda0c44e50a9a7c377ddf7cda254642251bf0 ⧉
⑦ Status:	✓ Success
⑦ Block:	⧖ 3464557 2 Block Confirmations
⑦ Timestamp:	⧖ 28 secs ago (May-11-2023 02:04:48 PM +UTC)
⑦ From:	0x33bbeecfC29A19b78d2d538f5640c335f6f768f7 ⧉
⑦ To:	[📄 0xffe69ca213b22d66ea3d2f004170359b3215be6d Created] ⧉ ✓
⑦ Value:	◈ 0 ETH ($0.00)
⑦ Transaction Fee:	0.00269485000754558 ETH ($0.00)
⑦ Gas Price:	2.500000007 Gwei (0.000000002500000007 ETH)

🟢 **Contract** 0xFfE69cA213b22D66ea3D2f004170359B3215bE6D ⧉ ▦

More ⌄

Overview	More Info	Multi Chain
ETH BALANCE	CONTRACT CREATOR	MULTICHAIN ADDRESSES
◈ 0 ETH	0x33bbee...f6f768f7 at txn 0x56cb6f49d81373c2f...	N/A
	TOKEN TRACKER	
	⬡ EX3Token (EX3)	

[**Transactions**] [Token Transfers (ERC-20)] [Contract] [Events]

⇅ Latest 1 from a total of 1 transactions   ▽ ⌄

⑦	Transaction Hash	Method ⑦	Block	Age	From ▽		To ▽		Value	Txn Fee
👁	0x56cb6f49d81373c2f...	0x60806040	3464557	56 secs ago	0x33bbee...f6f768f7	IN	▦ Contract Creation		0 ETH	0.00269485

⬡ **Token** EX3Token (EX3)

[ERC-20]

Overview	Market	Other Info
MAX TOTAL SUPPLY	FULLY DILUTED MARKET CAP ⑦	TOKEN CONTRACT (WITH **3** DECIMALS)
2,500,000 EX3 ⑦	$0.00	📄 0xffe69ca213b22d66ea3d2f004170359b3215be6d ⧉
HOLDERS	CIRCULATING SUPPLY MARKET CAP	
1	-	
TOTAL TRANSFERS		
1 ⑦		

[**Transfers**] [Holders] [Contract]   🔍

⇅ A total of 1 transaction found   First ‹ Page 1 of 1 › Last

⑦	Txn Hash	Method ⑦	Age	From		To	Quantity
👁	0x56cb6f49d81373c2f...	0x60806040	1 min ago	0x000000...00000000 ⧉	→	0x33bbee...f6f768f7 ⧉	2,500,000

First ‹ Page 1 of 1 › Last

[Download: **CSV Export** ⬇]

After some time, the ERC-20 Tokens transferred line in etherscan appeared

⦾ Transaction Hash:	0x56cb6f49d81373c2fdf9e4702dabda0c44e50a9a7c377ddf7cda254642251bf0 ⧉
⦾ Status:	⊘ Success
⦾ Block:	⊘ 3464557 106 Block Confirmations
⦾ Timestamp:	⏱ 22 mins ago (May-11-2023 02:04:48 PM +UTC)
⦾ From:	0x33bbeecfC29A19b78d2d538f5640c335f6f768f7 ⧉
⦾ Interacted With (To):	[⧉ 0xffe69ca213b22d66ea3d2f004170359b3215be6d Created] ⧉ ⊘
⦾ ERC-20 Tokens Transferred:	▸ **From** 0x000000...00000000 **To** 0x33bbee...f6f768f7 **For** 2,500,000 ⦿ EX3Token... (EX3...)
⦾ Value:	⬦ 0 ETH ($0.00)
⦾ Transaction Fee:	0.00269485000754558 ETH ($0.00)
⦾ Gas Price:	2.500000007 Gwei (0.000000002500000007 ETH)

6

Add token to metamask and be a millionair

Token importieren ✕

Benutzerdefiniertes Token

ⓘ Die Token-Erkennung ist in diesem Netzwerk noch nicht verfügbar. Bitte importieren Sie das Token manuell und stellen Sie sicher, dass Sie ihm vertrauen. Erfahren Sie mehr über Betrügereien und Sicherheitsrisiken.

Token-Vertragsadresse

69cA213b22D66ea3D2f004170359B3215bE6D

Tokensymbol   Editieren

EX3

Dezimalangabe der Präzision

3

Kunden-Token hinzufügen

Token importieren

Möchtest du diese Token hinzufügen?

Token	Guthaben:
EX3	2500000 EX3

Zurück   **Token importieren**