

KaseiCoin.sol (3) - JupyterLab | R Modules - Bootcamp: RUT-VI | Rutgers University / RUT-VIR | Remix - Ethereum IDE

Ganache

ACCOUNTS BLOCKS TRANSACTIONS CONTRACTS EVENTS LOGS SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK 6 GAS PRICE 20000000000 GAS LIMIT 6721975 HARDFORK MERGE NETWORK ID 5777 RPC SERVER HTTP://127.0.0.1:7545 MINING STATUS AUTOMINING WORKSPACE QUICKSTART SAVE SWITCH

MNEMONIC	ADDRESS	BALANCE	TX COUNT	INDEX	HD PATH
owner laptop permit file viable desk rhythm final story panic food mule	0x4C20a91d3358bA13a609CCe40f8EdeE0292E657A	100.00 ETH	0	0	m44'60'0'0account_index
	0xeF11DbB3047606Df6Beb16Bd353C34B116f6139F	94.95 ETH	3	1	
	0x691e26caA4Fd4ef5e8987f693d2248049a0A09B0	100.00 ETH	0	2	
	0x941c23c77102a3f834065425d350f9670aDc5D55	100.00 ETH	0	3	
	0x1b5250e1a902F6D78586126E2d141d127ff69375	100.00 ETH	0	4	
	0x6e405E97277309F7830373Cf2D5DcE6674ECe08A	100.00 ETH	0	5	
	0x9780C36E740c8d36db992Ce6e010016039305A69	100.00 ETH	0	6	

Debug

KaseiCoin.sol (3) - JupyterLab | R Modules - Bootcamp: RUT-VI | Rutgers University / RUT-VIR | Remix - Ethereum IDE

remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.5.17+commit.d19bba13.js

Sign in · GitLab Markdown Cheat... New Tab Bootcamp

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT
Injected Provider - MetaMask Custom (5777) network

ACCOUNT
✓ 0xf85...2C731 (34.998800255446730024 ether)
0xeF1...6139F (94.953554526923538864 ether)
0x51D...db743 (0 ether)
0xF31...CCf13 (0 ether)
0x406...003Ac (0 ether)
0x33d...04F02 (0 ether)
0xbf9...e76c1 (0 ether)

CONTRACT
KaseiCoin - contracts/KaseiCoin.sol
evm version: istanbul
Deploy string name, string symbol, Publish to IPFS
At Address 0xb5b78966C92c8EdA03

Transactions recorded 0 Run transactions using the latest compilation result
Save Run

Saved Contracts
No saved contracts found.

Deployed Contracts
KASEICOINCROWDSALEDE

```
pragma solidity ^0.5.0;

import "./KaseiCoin.sol";
import "https://github.com/OpenZeppelin/openzeppelin-contracts/blob/release-v2.5.0/contracts/crowdsale/Crowdsale.sol";
import "https://github.com/OpenZeppelin/openzeppelin-contracts/blob/release-v2.5.0/contracts/crowdsale/emission/MintedCrowdsale.sol";

// Have the KaseiCoinCrowdsale contract inherit the following OpenZeppelin:
// * Crowdsale
// * MintedCrowdsale
contract KaseiCoinCrowdsale is Crowdsale, MintedCrowdsale {
    IERC20 private _token;

    // Provide parameters for all of the features of your crowdsale, such as the `rate`, `wallet` for fundraising, and `token`.
    constructor() payable {
        uint256 rate; // rate in TKNbits
        address payable wallet; // sale beneficiary
        IERC20 token; // the token contract address
    }
    public Crowdsale(rate, wallet, token) {
        _token = token;
    }

    contract KaseiCoinCrowdsaleDeployer {
        // Create an `address public` variable called `kasei_token_address`.
        address public kasei_token_address;
        // Create an `address public` variable called `kasei_crowdsale_address`.
        address public kasei_crowdsale_address;

        // Add the constructor.
        constructor() payable {
            string memory name;
            string memory symbol;
            address payable wallet; // this address will receive all Ether raised by the crowdsale
        }
    }
}
```

call [call] from: 0xf859e702D88b8A83BFA6fFadb23Ef242dFc2C731 to: KaseiCoinCrowdsaleDeployer.(fallback) data: 0x70a...5311f

Debug

KaseiCoin.sol (3) - JupyterLab | Modules - Bootcamp: RUT-VI | Rutgers University / RUT-VIR | Remix - Ethereum IDE +

remix.ethereum.org/#lang=en&optimize=false&runs=200&evmVersion=null&version=soljson-v0.5.17+commit.d19bba13.js

Sign in · GitLab Markdown Cheat... New Tab Bootcamp

DEPLOY & RUN TRANSACTIONS

No saved contracts found.

Deployed Contracts

KASEICOINCROWDSALEDE Balance: 0 ETH

kasei_crowd...
0: address: 0x50492572C08587AD732
4F26C8b73C100Ebf87994

kasei_token...
0: address: 0xb5b78966C92c8EdA032
6Bb1a5FBBC515AB83DeD9

Low level interactions

CALldata

Transact

KASEICOINCROWDSALE AT Balance: 70 ETH

buyTokens 0x8451f849f10e15332

rate token wallet weiRaised

Low level interactions

CALldata

Transact

KaseiCoin.sol KaseiCoinCrowdsale.sol scenario.json

```
contract KaseiCoinCrowdsaleDeployer {
    // Create an `address public` variable called `kasei_token_address`.
    address public kasei_token_address;
    // Create an `address public` variable called `kasei_crowdsale_address`.
    address public kasei_crowdsale_address;

    // Add the constructor.
    constructor() payable infinite-gas 67000 gas
        string memory name,
        string memory symbol,
        address payable wallet // this address will receive all Ether raised by the crowdsale
    public {
        // Create a new instance of the KaseiCoin contract.
        KaseiCoin token = new KaseiCoin(name, symbol, 0);

        // Assign the token contract's address to the `kasei_token_address` variable.
        kasei_token_address = address(token);

        // Create a new instance of the `KaseiCoinCrowdsale` contract
        KaseiCoinCrowdsale kasei_crowdsale =
            new KaseiCoinCrowdsale(1, wallet, token);

        // Assign the `KaseiCoinCrowdsale` contract's address to the `kasei_crowdsale_address` variable.
        kasei_crowdsale_address = address(kasei_crowdsale);

        // Set the `KaseiCoinCrowdsale` contract as a minter
        token.addMinter(kasei_crowdsale_address);

        // Have the `KaseiCoinCrowdsaleDeployer` renounce its minter role.
        token.renounceMinter();
    }
}
```

0 listen on all transactions call to KaseiCoin.balanceOf

call [call] from: 0xf859e702D88b8A83BFA6fFadb23Ef242dFc2C731 to: KaseiCoinCrowdsaleDeployer.(fallback) data: 0x70a...5311f

Debug