

Ethereum Tutorial

Mohammad Dafa Dhiyaul Haq

1103194123

Create Contract

1. Menentukan Pragma Solidity atau versi kompailer
2. Deklarasi contract dan uint
3. Buat function

```
pragma solidity >=0.7.1 ;  
  
✓ contract MyContract {  
    uint amount;  
    uint value;  
    ✓ constructor (uint initialAmount, uint initialValue)  
    {  
        amount = 0;  
        value = 1000;  
    }  
    ✓ function getBalance() public view returns(uint) {  
        return value;  
    }  
    ✓ function getAmount() public view returns(uint) {  
        return amount;  
    }  
    ✓ function send(uint newDeposit) public {  
        value = value - newDeposit;  
        amount = amount + newDeposit;  
    }  
}
```

Compile Contract

COMPILER +

0.7.1+commit.f4a555be

☐ Include nightly builds

☐ Auto compile

☐ Hide warnings

Advanced Configurations >

Compile MyContract.sol

Compile and Run script i

CONTRACT

MyContract (MyContract.sol)

Publish on Ipfs IPFS

Publish on Swarm

Compilation Details

ABI Bytecode

Deploy Contract

Setelah melakukan compile, lakukan deploy dengan mengisi Initialmount dan initialvalue lalu transact

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

JavaScript VM (London)

VM

ACCOUNT

0x5B3...eddC4 (99.9999999!)

GAS LIMIT

3000000

VALUE

0 Ether

CONTRACT

MyContract - MyContract.sol

DEPLOY

INITIALAMOUNT: 10000

INITIALVALUE: 10

transact

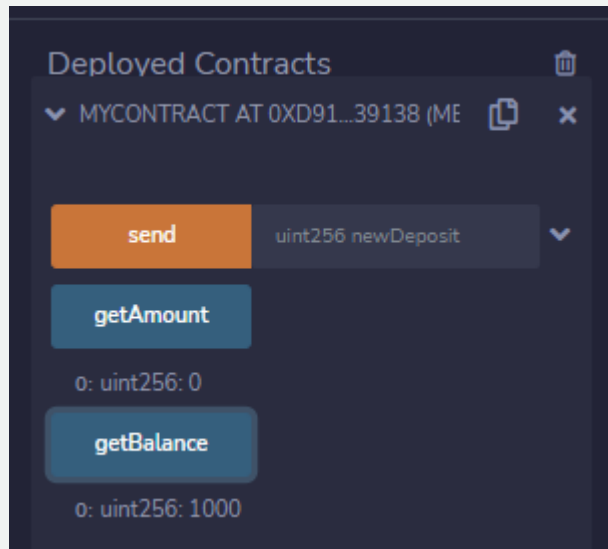
☐ Publish to IPFS

OR

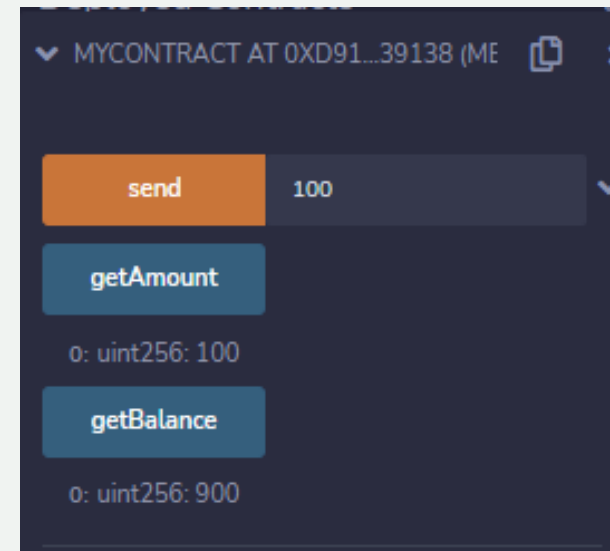
At Address Load contract from Address

Sending Money

Before



After



Install Ganache

Ganache

ACCOUNTS

BLOCKS

TRANSACTIONS

CONTRACTS

EVENTS

LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK
0

GAS PRICE
20000000000

GAS LIMIT
6721975

HARDFORK
MUIRGLACIER

NETWORK ID
5777

RPC SERVER
HTTP://127.0.0.1:7545

MINING STATUS
AUTOMINING

WORKSPACE
QUICKSTART

SAVE

SWITCH

MNEMONIC ?
service attitude eagle lady oxygen flash fault summer venture announce since menu

HD PATH
m/44'/60'/0'/0/account_index

ADDRESS	BALANCE	TX COUNT	INDEX	
0x6E6927E3DA6DDD1b2D84E92767321C37A9D24eF7	100.00 ETH	0	0	
0xB2A2dEf24A3DDC675C1a70732bba549FDc1fdcEd	100.00 ETH	0	1	

Change Environment Remix IDE


Environment diubah menjadi Ganache Provider dengan RCP server sesuai dengan yang terdapat pada aplikasi Ganache yang telah diinstall. Lalu klik transact



DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

Ganache Provider

Custom (5777) network

ACCOUNT 


0x6E6...24eF7 (100 ether)  

GAS LIMIT

3000000

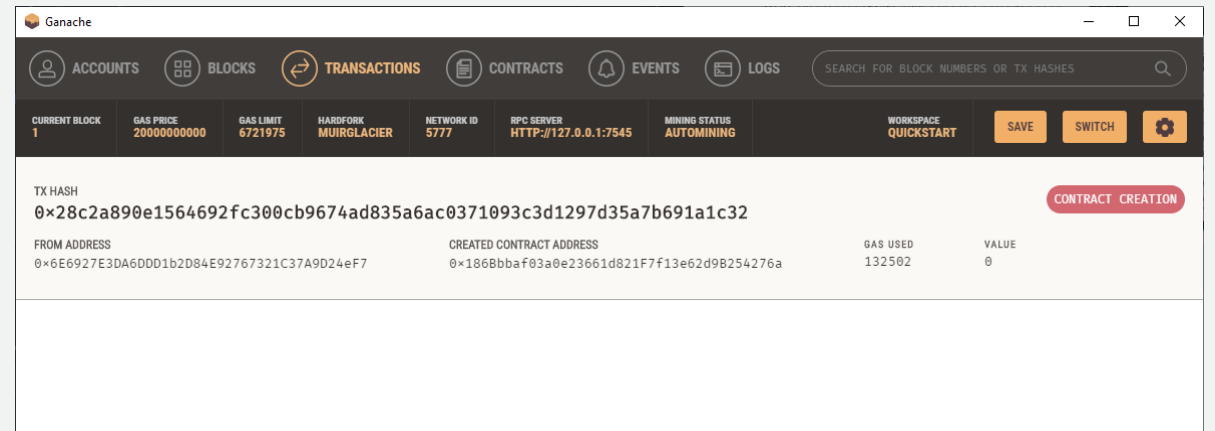
VALUE

0

Ether 

After Deploy

Terdapat Riwayat Deploy atau transaksi yang dilakukan pada remix



CURRENT BLOCK
2

GAS PRICE
2000000000

GAS LIMIT
6721975

HARDFORK
MUIRGLACIER

NETWORK ID
5777

RPC SERVER
HTTP://127.0.0.1:7545

MINING STATUS
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TX HASH
0x03ad765e74e4931fefefd64716e0ea98f2a1ab59cb278d52fec9fb73b445c0fa

CONTRACT CALL

FROM ADDRESS
0x6E6927E3DA60DD1b2D84E92767321C37A9D24eF7

TO CONTRACT ADDRESS
0x186BbbaF03a0e23661d821F7f13e62d9B254276a

GAS USED
48072

VALUE
0

TX HASH
0x28c2a890e1564692fc300cb9674ad835a6ac0371093c3d1297d35a7b691a1c32

CONTRACT CREATION

FROM ADDRESS
0x6E6927E3DA60DD1b2D84E92767321C37A9D24eF7

CREATED CONTRACT ADDRESS
0x186BbbaF03a0e23661d821F7f13e62d9B254276a

GAS USED
132502

VALUE
0

Test Send Money

