

# Week13 - 9.26

## Day1

Conflux Core Space (CFS) CFS

$$= \frac{1 \text{ CFX}}{1024 \text{ KB}} \times 1 \text{ CFX}$$

mint ERC20

```
pragma solidity ^0.8.0;
contract MinimalERC20 {
    mapping(address => uint256) public balances;

    function mint(address account, uint256 amount) public {
        balances[account] += amount;
    }
}
```

a balance 0    balance mint(a,10) a balance balances    a value 10    address uint256    32  
64\*1CFX/1024=0.0625CFX

# Day2 Keystore

keystore

keystore

APP

ZIP

RAR

keystore4

•

KDF

Script

123456

AES-128-CTR

S

•

S

AES-128-CTR

•

2

cyphertext

•

cyphertext

S

SHA3

keystore

•

123456

KDF

Script

S'

•

S = S'

•

S'

AES-128-CTR

keystore

```
{
  "version": 3,
  "id": "7d5d99c8- f455- 49aa- 8b89- 6c795a7cdd46",
  "address": "7c52e508c07558c287d5a453475954f6a547ec41",
  "crypto": {
    "kdf": "scrypt",
    "kdfparams": {
      "dklen": 32,
      "salt": "a4f9677eaf6f72394da51e16695899ad3e9b4f2228ad4eca5ef2a5c36093fe12",
      "n": 262144,
      "r": 8,
      "p": 1
    },
    "cipher": "aes-128- ctr",
    "ciphertext": "d89df5ef74f51ae485308e6dce8991dd80674e111f8073f9efa52cb2dd6eca3f",
    "cipherparams": {
      "iv": "6b064c5b09a154d9877d3a07e610a567"
    },
    "mac": "30949eb085ce342a6a488fd51fa5e3231e45f7515efa10c19ea0d46270c73f06"
  }
}
```

keystore

id	uuid
address	keystore
crypto	
kdf	Key Derivation Function , Script
kdfparams	Script
cypher	AES-128-CTR
cyphertext	
cypherparams	AES-128-CTR
mac	cyphertext      keystore

[go-conflux-sdk](#)[js-conflux-sdk](#)[java-conflux-sdk](#)      keystore      sdk

1. <https://ethbook.abiteahead.com/ch2/keystore.html>

# Day3 Conflux

Dapp Conflux

- [hardhat-conflux](#)
- [Conflux-Truffle](#)
- [Conflux ChainIDE](#)
- [Conflux studio](#)
- [Conflux Studio Web](#)

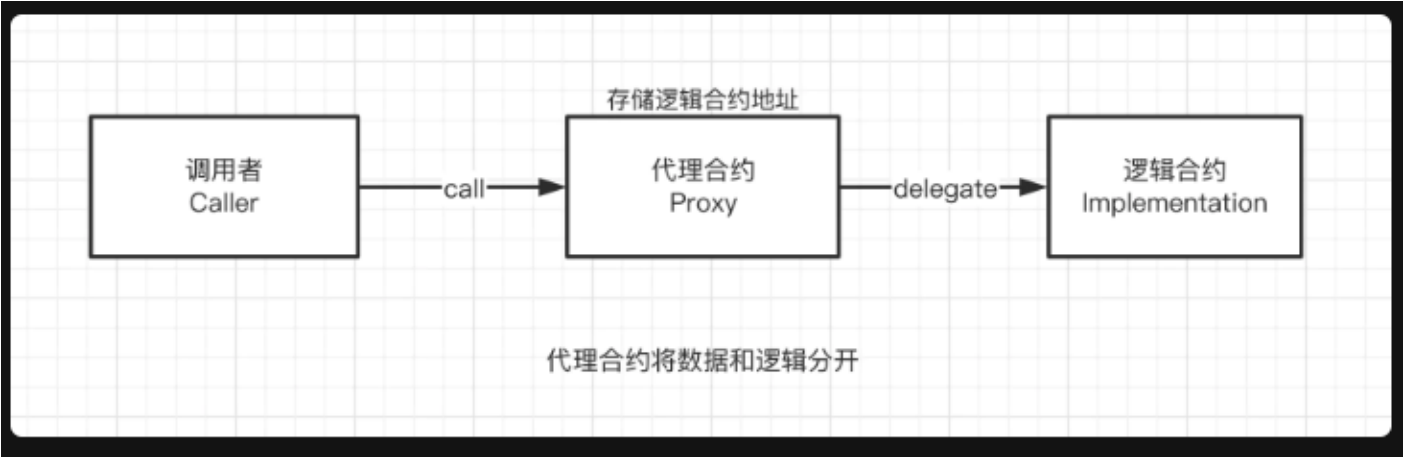
Tools

# Day4

Solidity

immutable

- 
- bug gas



Proxy delegate

- 
- gas

# Day5 -EIP1167

EIP1167

gas

[openzeppelin](#) [clone](#)

1. <https://eips.ethereum.org/EIPS/eip-1167>
2. <https://mirror.xyz/xyyme.eth/mmUAYWFLfcHGCEfg8903SweY3SI-xIACZNDXOJ3twz8>