

ConfluxScan

ConfluxScan Scan

1. Scan Solidity ABI
2. Scan Fluent
3. Scan

Contract

cfx:achcuvuasx3t8zcumtwuf35y51sksewvca0h0hj71a

More

Balance0

Token2

Storage Collateral26.149K

Nonce1

Contract Name TagMOON

Token Trackerconflux MOON (cMOON)

Contract Creatorcfx:aas_6r0shr6g at txn 0xfd6e...1772

Contract AdminZero Address

Storage SponsorSponsor faucet

Gas Fee Sponsorcfx:aas_6r0shr6g

Transactions

CFX Txns

CRC20 Txns

Analysis

Contract

Code

Read Contract

Write Contract

Contract Source Code Verified

Contract Name: TokenBase

Compiler Version: v0.5.11+commit.c082d0b4

Optimization Enabled: yes with 1000 runs

Other Settings: None

Source Code

```
// Sources flattened with hardhat v2.6.4 https://hardhat.org
// File @openzeppelin/contracts/GSN/Context.sol@v2.4.0

pragma solidity ^0.5.0;

/*
 * @dev Provides information about the current execution context, including the
 * sender of the transaction and its data. While these are generally available
 * via msg.sender and msg.data, they should not be accessed in such a direct
 * manner, since when dealing with GSN meta-transactions the account sending and
 * paying for execution may not be the actual sender (as far as an application
 * is concerned).
 *
 * This contract is only required for intermediate, library-like contracts.
 */
contract Context {
    // Empty internal constructor, to prevent people from mistakenly deploying
    // an instance of this contract, which should be used via inheritance.
}
```

Contract

cfx:achcuvuasx3t8zcumtwuf35y51sksewvca0h0hj71a

More

Balance

0

Token

2

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26.149K

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1

Contract Name Tag	MOON		Contract Admin	Zero Address	
Token Tracker	conflux MOON (cMOON)		Storage Sponsor	Sponsor faucet	
Contract Creator	cfx:aas...6r0shr6g at txn 0xfd6e...1772		Gas Fee Sponsor	cfx:aas...6r0shr6g	

Transactions CFX Txns CRC20 Txns Analysis **Contract**

Code

Read Contract

Write Contract

Read Contract Information

Collapse All

1. defaultOperators

2. name

>> string conflux MOON

3. totalSupply

4. SPONSOR

5. decimals

6. _account_list

7. isPauser

8. granularity

9. paused

10. balanceOf

Scan

Contract Tab

Contract Verification

* Contract Address

Please enter a contract address

* Contract Name

Please enter the contract name

* License

Please select a license

* Compiler

Please select a compiler

* Optimization

No

* Runs

0

* Contract Source Code

[Upload Contract File](#)

Submit

Scan

- : Base32
- :
- License:
- Solidity
- :
- : flatten

Flatten Solidity

ConfluxScan

flatten

Solidity

flatten

:

- [truffle-flattener](#)
- `npx hardhat flatten`
- [chainIDE flatten](#)

npx hardhat flatten

hardhat

merge

.

```
$ npx hardhat flatten ./contracts/ERC20Token.sol > ERC20TokenMerged.sol
```

ERC20TokenMerged.sol

ConfluxScan

`npx hardhat flatten` [How to Flatten a Solidity file using Hardhat.](#)

chainIDE flatten

ChainIDE

Solidity@chainide/solidity-flattener

Flattener

The screenshot shows the ChainIDE interface with the following components:

- Plugin Manager (Left Panel):**
 - ACTIVE MODULES:**
 - @chainide/solidity-compiler
 - web3SolidityPlugin
 - ConfluxCoreWallet
 - ChainIDE Conflux Wallet
 - ChainIDE Conflux Tools
 - INACTIVE MODULES:**
 - EvmWalletPlugin
 - @chainide/solidity-flattener** (highlighted with a red box)
 - ChainIDE Debugger
- Code Editor (Center):** Displays the Solidity contract `HelloWorld.sol` with the following code:

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract HelloWorld {
5     // Event declaration
6     // Up to 3 parameters can be indexed.
7     // Indexed parameters helps you filter the logs by the indexed par
8     event Log(address indexed sender, string message);
9
10    address owner;
11
12    constructor() {
13        owner = msg.sender;
14    }
15
16    function test() external {
17        emit Log(msg.sender, "Hello EVM1!");
18    }
19
20    function get() external view returns(string memory greeting){
21        if(owner == msg.sender) {
22            return greeting = "Hello, world!";
23        }
24    }
25 }
```
- Output Panel (Bottom Right):** Shows the console output with the following messages:

```
[error] [14:52:49] No wallet connected, please select one at the top to load
[info] [14:53:07] Creation of contract HelloWorld transaction hash: 0xf38594ee
[info] [14:53:07] https://confluxscan.io/transaction/0xf38594ee710bd12abada1c8
[info] [14:53:07] Waiting for confirmation ...
[info] [14:53:16] Creation of contract HelloWorld transaction have confirmed,
0xf38594ee710bd12abada1c8a6b1cd4d14428859617948a66e76ab498323a2109
[info] [14:53:16] upload file [.build/HelloWorld.HelloWorld.cfx:acgxedpz6r99.e
[info] [14:53:18] upload file [.build/HelloWorld.HelloWorld.cfx:acgxedpz6r99.e
```

Flatten

Flatten

Flattener

✓ FLATTEN AND SAVE

Select a contract, compile it, then get the flattened version by pressing the button. Flattened source code will be copied to the clipboard.

Flatten HelloWorld.sol

You can save the flattened version to the file inside ChainIDE.

Save HelloWorld_flat.sol

EtherScan ConfluxScan Open[hardhat-etherscan](#) EtherScan

[hardhat-conflux](#) Hardhat Conflux `verifyCfxContract` `hardhat.config.js`

```
# npx hardhat verifyCfxContract CONTRACT_NAME DEPLOYED_CONTRACT_ADDRESS
$ npx hardhat verifyCfxContract Greeter cfxtest: acba7cvb1k6bhctzsfshybg5zgch39gnpuc8teem53
```

FAQs

Conflux eSpace

hardhat-etherscan

OpenAPI

Revision #15

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