

## Screenshots for Solidity deployment

The image displays two screenshots of the Remix IDE interface, used for Solidity development and deployment.

**Top Screenshot: REMIX Dashboard**

- File Explorer (Left):** Shows a workspace named 'trial' containing folders 'contracts' and 'scripts'. The 'contracts' folder includes files like '1.Storage.sol', '2.Owner.sol', and '3.Ballot.sol'. The 'scripts' folder includes 'deploy\_with\_ethers.ts', 'deploy\_with\_web3.ts', 'ethers-lib.ts', 'web3-lib.ts', 'tests', 'Ballot\_test.sol', 'storage\_test.js', and 'README.txt'.
- REMIX Dashboard (Center):** Features the Remix logo and the tagline 'The Native IDE for Web3 Development.' It includes links to the Website, Documentation, Remix Plugin, and Remix Desktop. A search bar for documentation is present.
- Featured (Right):** A section titled 'JUMP INTO WEB3' describing the Remix Project as a rich toolset for contract development. Below this is the 'Get Started - Project Templates' section with options for 'BLANK', 'REMIX DEFAULT', and 'OPENZEPPELIN'. A 'Featured Plugins' section is also visible.
- Terminal (Bottom):** Displays the command prompt with the option to 'listen on all transactions'.

**Bottom Screenshot: DEPLOY & RUN TRANSACTIONS**

- Deploy Panel (Left):** Shows the 'GAS LIMIT' set to 3000000, 'VALUE' set to 0 Wei, and the 'CONTRACT' selected as 'CellSubscription - CellSubscription.sc'. The 'Deploy' button is highlighted, with a gas cost of 1000. There is also an option to 'Publish to IPFS'.
- Code Editor (Center):** Displays the Solidity code for the 'CellSubscription' contract. The code includes a license header, pragma statement, and functions for constructor and makePayment.
- Terminal (Bottom):** Shows the 'Welcome to Remix 0.28.1' message and provides instructions on how to use the terminal, including checking transaction details, executing JavaScript scripts, and running the 'remix.execute()' or 'remix.execCurrent()' commands.



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remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js

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DEPLOY & RUN TRANSACTIONS

At Address Load contract from Address

Transactions recorded 2 1

Deployed Contracts

CELLSUBSCRIPTION AT 0XD91...35

Balance: 0 ETH

makePay...

isBalance... uint256 monthsElapsed

Low level interactions

CALLDATA

Transact

MIGRATIONS AT 0XD8B...33FAB (M)

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.4.22 <0.9.0;
3
4 contract Migrations {
5     address public owner = msg.sender;
```

[vm] from: 0x583...eddC4 to: Migrations.(constructor) value: 0 wei data: 0x008...70033 logs: 0  
hash: 0x6c9...b7cf0

status true Transaction mined and execution succeed

transaction hash 0x6c955a84b0d7a6d7c7a97a012641dace5c252b866b341c70c5515a6f8bb7cf0

from 0x58380a6a701c568545dcfc883fc6873f56beddC4

to Migrations.(constructor)

gas 287678 gas

transaction cost 250154 gas

execution cost 250154 gas

input 0x008...70033

decoded input {}

decoded output -

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```
1 // SPDX-License-Identifier: MIT
2 pragma solidity =0.6.12;
3
4 contract CellSubscription {
5     uint256 monthlyCost;
6
7     constructor(uint256 cost) public {
8         monthlyCost = cost;
9     }
10    function makePayment() payable public {
11    }
12
13    function isBalanceCurrent(uint256 monthsElapsed) public view returns (bool) {
14        return monthlyCost * monthsElapsed >= address(this).balance;
15    }
16 }
```

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### DEPLOY & RUN TRANSACTIONS

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Transactions recorded 2 1 >

#### Deployed Contracts

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MIGRATIONS AT 0XD8B...33FAB (M)

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2 pragma solidity >=0.4.22 <0.9.0;
3
4 contract Migrations {
5     address public owner = msg.sender;
```

listen on all transactions Search with transaction hash or address

from	0x5838D6A701c568545dCfc803fc8875f56bedc4
to	Migrations.(constructor)
gas	287678 gas
transaction cost	258154 gas
execution cost	258154 gas
input	0x608...70033
decoded input	()
decoded output	-
logs	[]
val	0 wei

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