

Creació d'un contracte intel·ligent de Crowdfunding o donacions usant BlockChain a MultiversX.

Les condicions del contracte serien les següents:

- Import mínim per donant (en 1 sola transacció): 0.1 \$EGLD per transacció.
- Import màxim per donant (acumulat en totes les transaccions del mateix donant): 0.4 \$EGLD en totes les transaccions del mateix donant.
- Import màxim per al projecte (sumant totes les transaccions de tots els donants):
 - Mínim de 50 \$EGLD de finançament.
 - Màxim de 100 \$EGLD.

Codi del contracte (donacions.rs)

```
#![no_std]

use multiversx_sc::derive_imports::*;
#[allow(unused_imports)]
use multiversx_sc::imports::*;

#[type_abi]
#[derive(TopEncode, TopDecode, PartialEq, Clone, Copy)]
pub enum Status {
    FundingPeriod,
    Successful,
    Failed,
}

#[multiversx_sc::contract]
pub trait CrowdfundingSc {

    // --- MODIFICACIÓ 1: INIT ARA REP ELS NOUS PARÀMETRES ---
    #[init]
    fn init(
        &self,
        target: BigUint,
        deadline: u64,
        min_contribution: BigUint, // Mínim per transacció
        max_per_user: BigUint,     // Màxim acumulat per usuari
        max_cap: BigUint           // Màxim total del projecte (Hard Cap)
    ) {
        require!(target > 0, "Target must be more than 0");
        require!(max_cap >= target, "Max cap must be >= Target");
        require!(max_per_user >= min_contribution, "Max per user must be >= Min contribution");
    }
}
```

```

    self.target().set(target);
    self.min_contribution().set(min_contribution);
    self.max_per_user().set(max_per_user);
    self.max_cap().set(max_cap);

    require!(
        deadline > self.get_current_time(),
        "Deadline can't be in the past"
    );
    self.deadline().set(deadline);
}

#[upgrade]
fn upgrade(&self) {}

#[endpoint]
#[payable("EGLD")]
fn fund(&self) {
    let payment = self.call_value().egld().clone_value();

    // --- CONDICIÓN 1: Import mínim per transacció ---
    require!(
        payment >= self.min_contribution().get(),
        "L'import es inferior al minim permès per transaccio"
    );

    let current_time = self.blockchain().get_block_timestamp();
    require!(
        current_time < self.deadline().get(),
        "cannot fund after deadline"
    );

    // --- CONDICIÓN 2: Màxim total del projecte (Hard Cap) ---
    // get_current_funds inclou el pagament actual perquè és un
mètode payable
    let current_funds = self.get_current_funds();
    require!(
        current_funds <= self.max_cap().get(),
        "S'ha superat el límit màxim de finançament del projecte
(Hard Cap)"
    );
}

```

```

let caller = self.blockchain().get_caller();
let deposited_amount = self.deposit(&caller).get();
let new_user_total = &deposited_amount + &payment;

// --- CONDICIÓN 3: Màxim acumulat per usuari ---
require!(
    new_user_total <= self.max_per_user().get(),
    "Superes el límit màxim d'aportació per usuari"
);

// Si tot és correcte, actualitzem el dipòsit de l'usuari
self.deposit(&caller).set(new_user_total);
}

#[endpoint]
fn claim(&self) {
    match self.status() {
        Status::FundingPeriod => sc_panic!("cannot claim before deadline"),
        Status::Successful => {
            let caller = self.blockchain().get_caller();
            require!(
                caller == self.blockchain().get_owner_address(),
                "només propietari pot reclamar el finançament exitós"
            );

            let sc_balance = self.get_current_funds();
            self.send().direct_egld(&caller, &sc_balance);
        }
        Status::Failed => {
            let caller = self.blockchain().get_caller();
            let deposit = self.deposit(&caller).get();

            if deposit > 0u32 {
                self.deposit(&caller).clear();
                self.send().direct_egld(&caller, &deposit);
            }
        }
    }
}

#[view]
fn status(&self) -> Status {

```

```

        if self.get_current_time() <= self.deadline().get() {
            Status::FundingPeriod
        } else if self.get_current_funds() >= self.target().get() {
            Status::Successful
        } else {
            Status::Failed
        }
    }

#[view(getCurrentFunds)]
fn get_current_funds(&self) -> BigInt {
    self.blockchain()
        .get_sc_balance(&EgldOrEsdtTokenIdentifier::egld(), 0)
}

// private

fn get_current_time(&self) -> u64 {
    self.blockchain().get_block_timestamp()
}

// storage

#[view(getTarget)]
#[storage_mapper("target")]
fn target(&self) -> SingleValueMapper<BigInt>;

#[view(getDeadline)]
#[storage_mapper("deadline")]
fn deadline(&self) -> SingleValueMapper<u64>;

#[view(getDeposit)]
#[storage_mapper("deposit")]
fn deposit(&self, donor: &ManagedAddress) ->
SingleValueMapper<BigInt>;

// --- MODIFICACIÓ 2: NOUS STORAGE MAPPERS ---

#[view(getMinContribution)]
#[storage_mapper("minContribution")]
fn min_contribution(&self) -> SingleValueMapper<BigInt>;

#[view(getMaxPerUser)]

```

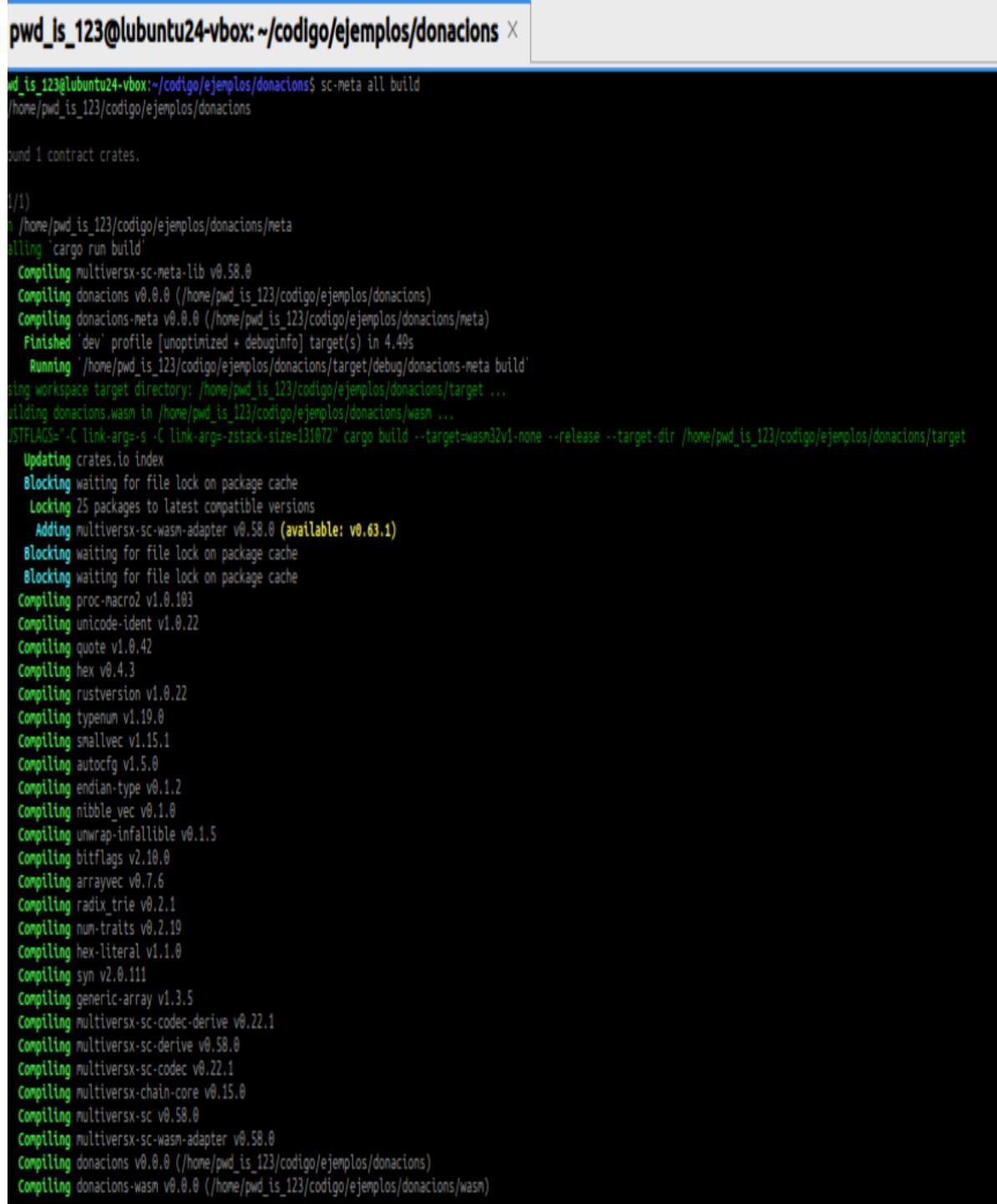
```

#[storage_mapper("maxPerUser")]
fn max_per_user(&self) -> SingleValueMapper<BigUint>;

#[view(getMaxCap)]
#[storage_mapper("maxCap")]
fn max_cap(&self) -> SingleValueMapper<BigUint>;
}

```

1. Realitzem la creació del nou contracte intel·ligent.



The screenshot shows a terminal window titled "pwd_is_123@lubuntu24-vbox: ~/codigo/ejemplos/donacions". The command "sc-meta all build" is being run. The output shows the build process for the "donacions" crate, which contains one contract named "donacions". The build starts by running "cargo run build" and then proceeds to compile various packages and dependencies. It uses the "multiversx-sc-wasm-adapter" v0.58.0 package and adds "multiversx-sc-wasm-adapter" v0.63.1. The process involves multiple compilations of packages like "proc-macro2", "unicode-ident", "quote", "hex", "rustversion", "typenum", "smallvec", "autocfg", "endian-type", "nibble_vec", "unwrap-infallible", "bitflags", "arrayvec", "radix_trie", "num-traits", "hex-literal", "syn", "generic-array", "multiversx-sc-codec-derive", "multiversx-sc-derive", "multiversx-sc-codec", "multiversx-chain-core", "multiversx-sc", and "multiversx-sc-wasm-adapter". The build is successful, indicated by the message "Build succeeded".

```

pwd_is_123@lubuntu24-vbox:~/codigo/ejemplos/donacions$ sc-meta all build
/home/pwd_is_123/codigo/ejemplos/donacions

Found 1 contract crates.

1/1)
n /home/pwd_is_123/codigo/ejemplos/donacions/meta
  building 'cargo run build'
    Compiling multiversx-sc-meta-lib v0.58.0
    Compiling donacions v0.0.0 (/home/pwd_is_123/codigo/ejemplos/donacions)
    Compiling donacions-meta v0.0.0 (/home/pwd_is_123/codigo/ejemplos/donacions/meta)
      Finished 'dev' profile [unoptimized + debuginfo] target(s) in 4.49s
        Running '/home/pwd_is_123/codigo/ejemplos/donacions/target/debug/donacions-meta build'
      Using workspace target directory: /home/pwd_is_123/codigo/ejemplos/donacions/target ...
      Building donacions.wasm in /home/pwd_is_123/codigo/ejemplos/donacions/wasm ...
      JSTFLAGS="-C link-arg=-s -C link-arg=-zstack-size=131072" cargo build --target=wasm32v1-none --release --target-dir /home/pwd_is_123/codigo/ejemplos/donacions/target
        Updating crates.io index
        Blocking waiting for file lock on package cache
        Locking 25 packages to latest compatible versions
          Adding multiversx-sc-wasm-adapter v0.58.0 (available: v0.63.1)
        Blocking waiting for file lock on package cache
        Blocking waiting for file lock on package cache
        Compiling proc-macro2 v1.0.103
        Compiling unicode-ident v1.0.22
        Compiling quote v1.0.42
        Compiling hex v0.4.3
        Compiling rustversion v1.0.22
        Compiling typenum v1.19.0
        Compiling smallvec v1.15.1
        Compiling autocfg v1.5.0
        Compiling endian-type v0.1.2
        Compiling nibble_vec v0.1.0
        Compiling unwrap-infallible v0.1.5
        Compiling bitflags v2.10.0
        Compiling arrayvec v0.7.6
        Compiling radix_trie v0.2.1
        Compiling num-traits v0.2.19
        Compiling hex-literal v1.1.0
        Compiling syn v2.0.111
        Compiling generic-array v1.3.5
        Compiling multiversx-sc-codec-derive v0.22.1
        Compiling multiversx-sc-derive v0.58.0
        Compiling multiversx-sc-codec v0.22.1
        Compiling multiversx-chain-core v0.15.0
        Compiling multiversx-sc v0.58.0
        Compiling multiversx-sc-wasm-adapter v0.58.0
        Compiling donacions v0.0.0 (/home/pwd_is_123/codigo/ejemplos/donacions)
        Compiling donacions-wasm v0.0.0 (/home/pwd_is_123/codigo/ejemplos/donacions/wasm)

Build succeeded.

```

2. Desplegament del contracte

```
mxy contract deploy --bytecode ./output/donacions.wasm --recall-nonce  
--pem=walletdiego.pem --gas-limit=60000000 --proxy=https://devnet-gateway.multiversx.com  
--chain="D" --arguments 50000000000000000000000000000000 1767225600 10000000000000000000000000000000  
40000000000000000000000000000000 10000000000000000000000000000000 --send
```

```
696e436f6e747269627574696f6e7461726765746465706f7369746d6178436170646561646c696e654c27696d706f727420657320696e666572696f7220616  
2616e73616363696f63616e6e6f742066756e6420616674657220646561646c696e6553276861207375706572617420656c206c696d6974206d6178696d2064  
6a6563746520284861726420436170295375706572657320656c206c696d6974206d6178696d20642761706f72746163696f207065722075737561726954617  
e20304d617820636170296d757374206265203e3d205461726765744d6178207065722075736572206d757374206265203e3d204d696e20636f6e7472696275  
20696e20746865207061737463616e6f7420636c61696d206265666f726520646561646c696e656f6e6c79206f776e65722063616e20636c61696d2073756  
0418885080b0438fffff@05000@02b5e3af16b188000006955b9000016345785d8a00000058d15e1762800000056bc75e2d63100000",  
"emittedTransactionHash": "d7bd6d7a391987214b3b82905dafe9cfcd62c93d6f3de1859dcc55297c24246b",  
"contractAddress": "erd1qqqqqqqqqqqqqqpgqacq4fpaah05j3ekpdst3e0xgdjpz4lwpw54sg424yy"  
}
```

Número de contracte:

erd1qqqqqqqqqqqqqqpgqacq4fpaah05j3ekpdst3e0xgdjpz4lwpw54sg424yy

Contracte a Devnet:

<https://devnet-explorer.multiversx.com/accounts/erd1qqqqqqqqqqqqpgqacq4fpaah05j3ekpdst3e0xgdjpz4lwpw54sg424yy>

3. Consulta del contracte

```
mxy contract query  
erd1qqqqqqqqqqqqpgqacq4fpaah05j3ekpdst3e0xgdjpz4lwpw54sg424yy --proxy  
https://devnet-gateway.multiversx.com --function getTarget
```

```
pwd is_123@lubuntu24-vbox:~/codigo/ejemplos/donacions$ ^C  
pwd is_123@lubuntu24-vbox:~/codigo/ejemplos/donacions$ mxy contract query erd1qqqqqqqqqqqqpgqacq4fpaah05j3ekpdst3e0xgdjpz4lwpw54sg424yy --proxy https://devnet-gateway.multiversx.com --function getTarget  
[  
"02b5e3af16b1880000"  
]  
pwd is_123@lubuntu24-vbox:~/codigo/ejemplos/donacions$
```

4. Transaccions al contracte. (Donacions)

S'executen transaccions al contracte per tal de veure els límits posats.

Cas1: Transacció que supera el límit de la wallet amb la què es fa la donació.

```
mxy contract call erd1qqqqqqqqqqqqpgqacq4fpaah05j3ekpdst3e0xgdjpz4lwpw54sg424yy  
--function fund --value 60000000000000000000000000000000 --recall-nonce --pem=walletdiego.pem  
--gas-limit=10000000 --proxy="https://devnet-gateway.multiversx.com" --chain="D" --send
```

Mirem les transaccions realitzades.

 | Devnet Explorer

Dashboard Blocks Transactions Accounts Apps Tokens NFTs Validators Devnet Epoch 4,877 1,491 Rounds Left

Search for an address, @herotag, transaction/block hash, validator key or token id

erd1qqqqqqqqqqqqqq ... z4lwpw54sg424yy



Address	hx erd1qqqqqqqqqqqqqgacq4fpaah05j3ekpdst3e0xgdjpz4lwpw54sg424yy (Shard 1)
Owner	erd13p62plk4htgy3h0mqhyz12qfp6sm0jdipp9jzmw7f7g3vyqaw54sxnz49
Properties	✓ Upgradeable ✓ Readable ✗ Payable ✗ Payable by Smart Contract

Balance	x 0 xEGLD
	= \$0
Rewards	x 0.0000066 xEGLD
	= \$0.000044
Total Transactions	1
First Deployed	8 mins ago
Latest Upgrade	N/A

Transactions ESDT Tokens NFTs Staking Analytics Upgrades Code ...

< Prev 1 Next >

Txn Hash	Shard	From	To	Method	Value
Invalid: Insufficient funds: go 1554400000000000	Shard 1				
① 3727869 ... 6c59ff42 40 secs	Shard 1	→ Shard 1	erd13p62 ... 4sxnz49	IN	x erd1qqqq ... sg424yy Fund
					x 6 xEGLD

Show 25 records < Prev 1 Next >

Missatge: Insufficient funds:15540000000000. (Superat el límit de la wallet).

Cas2: Transacció amb l'aportació del mínim de 0,1\$EGLD per donant.

```
mxy contract call erd1qqqqqqqqqqqpgqacq4fpaah05j3ekpdst3e0xgdjpz4lxpw54sg424yy  
--function fund --value 10000000000000000000 --recall-nonce --pem=walletdiego.pem  
--gas-limit=10000000 --proxy="https://devnet-gateway.multiversx.com" --chain="D" --send
```

```

pwd_ls_123@ubuntu24-vbox:~/codigo/ejemplos/donactions$ mpx contract call erdiqqqqqqqqqqqqqpgacq4fpaa0$5j3ekpdst3e0xgdpz4lwp54sg42yy --function fund --value 10000000000000000000 -recall-nonce --pen-wall
etdlego.pen -gas-limit=100000000 -proxy="https://devnet-gateway.multiversx.com" -chain=0 --send
WARNING: clt: the recall-nonce flag is DEPRECATED. The nonce is fetched from the network by default.
INFO: utils: View this transaction in the MultiversX Devnet Explorer: https://devnet-explorer.multiversx.com/transactions/bf78af52674743e01f63771ca9db4821a4be26def912ac63608634f3bd4ecd0
cli.py:70
utils.py:161

[{"emittedTransaction": {
    "nonce": "1B",
    "value": "10000000000000000000000000000000",
    "receiver": "erdiqqqqqqqqqqqqqpgacq4fpaa0$5j3ekpdst3e0xgdpz4lwp54sg42yy",
    "sender": "erdi3p6zpk4htgy3h0mqhzyl2qp6sm#djpp9jzrw7ffg3vyqaw54sxcnz49",
    "senderUsername": "",
    "receiverUsername": "",
    "gasPrice": 1000000000,
    "gasLimit": 10000000,
    "data": "ZnVZAA==",
    "chainID": "0",
    "version": 2,
    "options": 0,
    "guardian": "",
    "signature": "3f37c26e703e0eb1fc67f16faf4c1cad8f9alb3ce973e1dce3b5006895b13fc177fb0f0ae85d021241567f3500242e893fbeerf9738eed4adda68e63f6fab81",
    "guardianSignature": "",
    "relayer": "",
    "relayerSignature": ""
},
"emittedTransactionData": "fund",
"emittedTransactionHash": "bf78af52674743e01f63771ca9db4821a4be26def912ac63608634f3bd4ecd0",
"contractAddress": "erdiqqqqqqqqqqqpgacq4fpaa0$5j3ekpdst3e0xgdpz4lwp54sg42yy"
}]

pwd_ls_123@ubuntu24-vbox:~/codigo/ejemplos/donactions$ 

```

Mirem les transaccions realitzades.

 | Devnet Explorer Dashboard Blocks Transactions Accounts Apps Tokens NFTs Validators Devnet Epoch 4,877
1,468 Rounds Left

Search for an address, @herotag, transaction/block hash, validator key or token id 🔍

erd1qqqqqqqqqqqqqqq... z4lwpw54sg424yy



Address	erd1qqqqqqqqqqqqqqqacq4fpaah05j3ekpdst3e0xdjpz4lwpw54sg424yy (Shard 1)
Owner	erd13p62plk4htgy3h0mqzhyz12qp6sm0jdpp9jzwmw7f7g3vyqaw54sxcnz49
Properties	✓ Upgradable ✓ Readable ✗ Payable ✗ Payable by Smart Contract

Balance	Rewards	Total Transactions	First Deployed	Latest Upgrade
× 0.1xEGLD ≈\$0.66	× 0.000036 xEGLD ≈\$0.00024	2	10 mins ago	N/A

Missatge: Transacció realitzada.

Mirem les transaccions realitzades.

 | Devnet Explorer

Dashboard Blocks Transactions Accounts Apps Tokens NFTs Validators ● Devnet ▾

Search for an address, @herotag, transaction/block hash, validator key or token id 🔍

Epoch 4,877
1,446 Rounds Left

erd1qqqqqqqqqqqqqq ... z4lwpw54sg424yy



Address	erd1qqqqqqqqqqqqqqpgqacq4fpaa053ekpdst3e0xdjz4lwpw54sg424yy ⓘ (Shard 1)
Owner	erd13p62pk4htgy3h0mqzhyl2qp6sm0jdipp9zmw7f7g3vyqaw54sxnz49 ⓘ
Properties	✓ Upgradeable ✓ Readable ✗ Payable ✗ Payable by Smart Contract

Balance	✖ 0.1 xEGLD ≈\$0.66
Rewards	✖ 0.000036 xEGLD ≈\$0.00024
Total Transactions	3
First Deployed	13 mins ago
Latest Upgrade	N/A

Transactions ESDT Tokens NFTs Staking Analytics Upgrades Code ⋮

< Prev 1 Next >

Fall: Superes el límit maxim d'aportació per usuari	Shard	From	To	Method	Value	
⌚ ec92c10 ... bcc6548	52 secs	Shard 1 → Shard 1	erd13p62 ... 4sxcnz49	[IN]	Fund	✖ 0.4 xEGLD
⌚ bf78af526 ... 3bd4ecd0	2 mins	Shard 1 → Shard 1	erd13p62 ... 4sxcnz49	[IN]	Fund	✖ 0.1 xEGLD
⌚ 3727869 ... 6c59ff42	5 mins	Shard 1 → Shard 1	erd13p62 ... 4sxcnz49	[IN]	Fund	✖ 6 xEGLD

Show 25 records

< Prev 1 Next >

Missatge: Superes el límit màxim d'aportació per usuari.

Cas3: Transacció que supera l'aportació màxima de 0,4 \$EGLD per donant. (El donant ja havia donat 0,1 \$EGLD)

Transacció de 0,31 \$EGLD. (Transacció màxima fins al límit del donant 0,3 \$EGLD)

Mirem les transaccions realitzades.

 | Devnet Explorer

Dashboard Blocks Transactions Accounts Apps Tokens NFTs Validators Devnet Epoch 4,877 1,426 Rounds Left

Search for an address, @herotag, transaction/block hash, validator key or token id

erd1qqqqqqqqqqqqqqq... z4lwpw54sg424yy



Address [erd1qqqqqqqqqqqqqqqgacqfpaah05j3ekpdst3e0xgdjpz4lwpw54sg424yy](#) (Shard 1)

Owner [erd13p62plk4htgy3h0mqzhyl2qp6sm0jdpp9jzmw7f7g3vyqaw54sxcnz49](#)

Properties ✓ Upgradeable ✓ Readable ✗ Payable ✗ Payable by Smart Contract

Balance **×0.1xEGLD** ≈\$0.66

Rewards **×0.000036 xEGLD** ≈\$0.00024

Total Transactions **4**

First Deployed 15 mins ago

Latest Upgrade N/A

Transactions ESDT Tokens NFTs Staking Analytics Upgrades Code ...

< Prev 1 Next >

Fall: Superes el límit maxim d'aportació per usuari	Shard	From	To	Method	Value	
① ✘ f10899a9... 23a16f3	28 secs	Shard 1 → Shard 1	erd13p62... 4sxcnz49	[IN]	✗ erd1qqqq... sg424yy [Fund]	× 0.31 xEGLD
② ✘ ec92c10... bcc6548	2 mins	Shard 1 → Shard 1	erd13p62... 4sxcnz49	[IN]	✗ erd1qqqq... sg424yy [Fund]	× 0.4 xEGLD
③ ✘ bf78af526... 3bd4ecd0	4 mins	Shard 1 → Shard 1	erd13p62... 4sxcnz49	[IN]	✗ erd1qqqq... sg424yy [Fund]	× 0.1 xEGLD
④ ✘ 3727869... 6c59ff42	7 mins	Shard 1 → Shard 1	erd13p62... 4sxcnz49	[IN]	✗ erd1qqqq... sg424yy [Fund]	× 6 xEGLD

Show 25 records

< Prev 1 Next >

Missatge: Superes el límit màxim d'aportació per usuari.

Cas4: Transacció amb l'aportació exacta restant de 0,3 \$EGLD del donant. (El donant ja havia donat 0,1 \$EGLD)

Mirem les transaccions realitzades.

 | Devnet Explorer

Dashboard Blocks Transactions Accounts Apps Tokens NFTs Validators ● Devnet ⏪

Search for an address, @herotag, transaction/block hash, validator key or token id 🔎

Epoch 4,877
1,410 Rounds Left 

erd1qqqqqqqqqqqqqq ... z4lwpw54sg424yy



Address	erd1qqqqqqqqqqqqqqqacq4fpaah05j3ekpdst3e0xgdjpz4lwpw54sg424yy  (Shard 1)
Owner	erd13p62pk4htgy3h0mqzhyz1qp6sm0jdpp9jzmw7f7g3vyqaw54sxcnz49 
Properties	   

Balance	x 0.4 xEGLD ≈ \$2.67
Rewards	x 0.000066 xEGLD ≈ \$0.00044
Total Transactions	5
First Deployed	16 mins ago
Latest Upgrade	N/A

Transactions ESDT Tokens NFTs Staking Analytics Upgrades Code ⋮

< Prev 1 Next >

Txn Hash	Age	Shard	From	To	Method	Value
5c89f095 ... 9fd838e6	10 secs	Shard 1 → Shard 1	erd13p62 ... 4sxcnz49	 	erd1qqqq ... sg424yy	x 0.3 xEGLD
x f10899a9 ... 23a16f3	2 mins	Shard 1 → Shard 1	erd13p62 ... 4sxcnz49	 	erd1qqqq ... sg424yy	x 0.31 xEGLD
x ec92c10 ... bcc6548	4 mins	Shard 1 → Shard 1	erd13p62 ... 4sxcnz49	 	erd1qqqq ... sg424yy	x 0.4 xEGLD
bf78af526 ... 3bd4ecd0	6 mins	Shard 1 → Shard 1	erd13p62 ... 4sxcnz49	 	erd1qqqq ... sg424yy	x 0.1 xEGLD
3727869 ... 6c59ff42	8 mins	Shard 1 → Shard 1	erd13p62 ... 4sxcnz49	 	erd1qqqq ... sg424yy	x 6 xEGLD

Show 25 records

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Missatge: Transacció realitzada.

Cas5: Transacció (0,0000000000000001\$EGLD)que no arriba al límit de les transaccions permeses per donant. (El donant no arriba als 0,1 \$EGLD)

```

ped_123@ubuntu24-vbox:~/codigos/ejemplos/donaciones$ mpxy contract call erd1qqqqqqqqqqqqqqqgqacq4fpah05j3ekpdst3e0xdjpz4lpxw54sg424yy --function fund --value 1000 --recall-nonce --pem=walletdiego.pem --
gas-limit: 100000000 --proxy="https://devnet-gateway.multiversx.com" --chain="D" --send
WARNING cli: The --recall-nonce flag is DEPRECATED. The nonce is fetched from the network by default.
INFO  utils: View this transaction in the MultiversX Devnet Explorer: https://devnet-explorer.multiversx.com/transactions/70e80cb35d08ba7167e672ddaa3aac11e2f3b6e3095bce05db1ef2b20e05280
cli.py:70
utils.py:161
{
  "emittedTransaction": {
    "nonce": 14,
    "value": "1000",
    "receiver": "erd1qqqqqqqqqqqqqqqgqacq4fpah05j3ekpdst3e0xdjpz4lpxw54sg424yy",
    "sender": "erd13p62plk4htgy3h0mqzhyzl2qp6sm0jdipp9jzmw7f7g3vyqaw54sxnz49",
    "senderUsername": "",
    "receiverUsername": "",
    "gasPrice": 1000000000,
    "gasLimit": 10000000,
    "data": "ZnVUZA=",
    "chainID": "D",
    "version": 2,
    "options": 0,
    "guardian": "",
    "signature": "7774c276ecbd04bb4a7d1ffa70bb1a94a23b72126689af7ea8f592balac2e225fb786cf6f76846eadc7571769359a97d9b783b88831f02c522ae087b76006",
    "guardianSignature": "",
    "relayer": "",
    "relayerSignature": ""
  },
  "emittedTransactionData": "fund",
  "emittedTransactionHash": "70e80cb35d08ba7167e672ddaa3aac11e2f3b6e3095bce05db1ef2b20e05280",
  "contractAddress": "erd1qqqqqqqqqqqqqqqgqacq4fpah05j3ekpdst3e0xdjpz4lpxw54sg424yy"
}
ped_123@ubuntu24-vbox:~/codigos/ejemplos/donaciones$ 

```

Mirem les transaccions realitzades.

The screenshot shows the Devnet Explorer interface with the following details:

Address: erd1qqqqqqqqqqqqqqqgqacq4fpah05j3ekpdst3e0xdjpz4lpxw54sg424yy (Shard 1)

Owner: erd13p62plk4htgy3h0mqzhyzl2qp6sm0jdipp9jzmw7f7g3vyqaw54sxnz49

Properties: Upgradable, Readable, Payable, Payable by Smart Contract

Balance: × 0.4 xEGLD (≈ \$2.67)

Rewards: × 0.000066 xEGLD (≈ \$0.00044)

Total Transactions: 6

First Deployed: 18 mins ago

Latest Upgrade: N/A

Transactions:

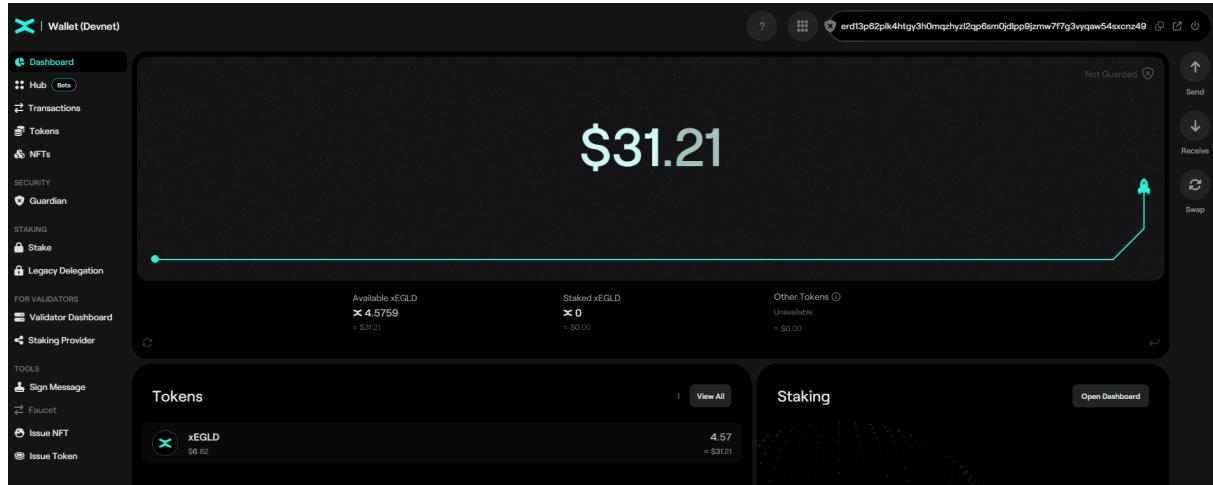
From	To	Method	Value
Shard 1	erd13p62...4sxcnz49	Fund	× 0.1201 xEGLD
Shard 1	erd13p62...4sxcnz49	Fund	× 0.3 xEGLD
Shard 1	erd13p62...4sxcnz49	Fund	× 0.31 xEGLD
Shard 1	erd13p62...4sxcnz49	Fund	× 0.4 xEGLD
Shard 1	erd13p62...4sxcnz49	Fund	× 0.1 xEGLD
Shard 1	erd13p62...4sxcnz49	Fund	× 6 xEGLD

Show 25 records

Missatge: L'import és inferior al mínim permès per transacció.

5. Wallet amb la que s'han realitzat les donacions.

erd13p62plk4htgy3h0mqzhyzl2qp6sm0jdipp9jzmw7f7g3vyqaw54sxnz49



6. Transaccions realitzades per la Wallet amb la que s'han realitzat les donacions.

Transactions					
Age	Action	Details	Value		
hace 13 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 13 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 13 horas	Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49	-0.3 xEGLD		
hace 13 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 13 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 13 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 13 horas	Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49	-0.1 xEGLD		
hace 13 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 13 horas	Smart Contract Deploy	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			
hace 14 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 14 horas	Invalid: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Invalid
hace 14 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 14 horas	Invalid: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Invalid
hace 15 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 15 horas	Invalid: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Invalid
hace 15 horas	Failed: Fund	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 15 horas	Failed: Smart Contract Deploy	To [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49			Failed
hace 27 días	Received xEGLD	From [redacted] erdt3p62pk4htgy3h0mcphyz2qp6sm0jdipp0jzmrw77q3vqaw54xcnz49	+5 xEGLD		