

Linkdrops

Linkdrops allow users to distribute assets and onboard people to Web3 apps through a simple web link.

They work by storing assets and linking [AccessKeys](#) to them. The [AccessKeys](#) are then distributed to users in the form of web links. These links take users to a website that automatically uses the keys to call the `claim` method in the `linkdrop` contract.


In order for a contract to be considered a Linkdrop-contract it has to follow the [NEP-452 standard](#). The [NEP-452](#) explains the minimum interface required to be implemented, as well as the expected functionality.

Keypom

The simplest way to create Linkdrops is by using [Keypom](#). Keypom is a community project that allows you to create Linkdrops for NEAR tokens and NFTs in a few clicks.

AccessKeys

In order to create any kind of drop, you need to first generate key pairs. You will need to create one key per drop.

- The linkdrop contract will store the public part of the key.
- You will give the private part of the key to the user you want to receive the drop.
-  Component
 - [Keypom WebApp](#)
 - [Keypom CLI](#)
 - [Keypom API](#)

```
const dropsNumber =
"2" ; const keysGeneratorUrl =
"https://keypom.sctuts.com/keypair/" ;
asyncFetch ( keysGeneratorUrl + dropsNumber +
"/rootEntropy" ) . then ( ( res )
=>
{ const keyPairs =
JSON . parse ( res . body ) ; const pubKeys =
[] ; const privKeys =
[] ;
keyPairs . forEach ( ( e )
=>
{ pubKeys . push ( e . pub ) ; privKeys . push ( e . priv ) ; } ) ;
const obj =
{ publicKey : pubKeys , privKeys : privKeys , } ;
State . update ( obj ) ; } ) ; * near-api-js * Keypom API
import
{
  KeyPair
}
from
'near-api-js' ;
const newKeyPair =
KeyPair . fromRandom ( 'ed25519' ) ; newKeyPair . public_key
= newKeyPair . publicKey . toString ( ) ; const state =
{ } ;
const dropsNumber =
"2" ; const keysGeneratorUrl =
"https://keypom.sctuts.com/keypair/" ;
fetch ( keysGeneratorUrl + dropsNumber +
"/rootEntropy" ) . then ( ( res )
=>
{ const keyPairs =
JSON . parse ( res . body ) ; const pubKeys =
[] ; const privKeys =
[] ;
keyPairs . forEach ( ( e )
```

```
{ pubKeys . push ( e . pub ); privKeys . push ( e . priv ); } ;  
state . publicKey  
= pubKeys ; state . privKeys  
= privKeys ; } ) ; * Near CLI * Keypom API
```

near generate-key Example response:

```
curl https://keypom.sctuts.com/keypairNUMBER_OF_DROPS/rootEntropy
```


To create a NEAR drop you will ask the contract to create a drop (`create_drop`), passing the public part of the keys you generated, and how much you want to drop on each key use (`deposit_per_use`).

- Component
- WebApp
- CLI

NFT Drops

2. Transferring the NFT

Having the Drop ID, you now need to transfer the NFT to the linkdrop contract, specifying to which drop you want to add it.

-  Component
- WebApp
- CLI

[illegible]

FT Drops

The process to drop a Fungible Token is very similar to that of creating an [NFT drop](#). You will first create the drop, and then fund it with FTs.

1.Creating a drop

To create a FT drop you will call the `create_drop` method, now passing `amtData` argument, which will tell the linkdrop contract to wait for a certain amount of FT to be transferred.

The contract will then create a drop and return the numerical ID that identifies it.

- Component
- WebApp
- CLI

```
const keypomContract =  
    "v2.keypom.near"; const ftContract =  
    "ft.primitives.near"; const dropAmount =  
    "1000000000000000000000000";  
  
Near .call ( { [ contractName : keypomContract , methodName :  
    "create_drop" , args :
```

```

{ public_keys : state . publicKeys , deposit_per_use : dropAmount , ftData :

{ contractId : ftContract , senderId : accountId , // This balance per use is balance of human readable FTs per use. amount :

"1" // Alternatively, you could use absoluteAmount, which is dependant on the decimals value of the FT // ex. if decimals of an ft = 8, then 1 FT token would be absoluteAmount =
100000000 } , } , deposit :

"2300000000000000000000000000" ,

// state.publicKeys.length * dropAmount + 3000000000000000000000000000, gas :

"10000000000000000" } , ] ) ; import

{

Wallet

}

from

'./near-wallet' ;

const

KEYPOM_CONTRACT_ADDRESS

=

"v2.keypom.near" ; const

FT_CONTRACT_ADDRESS

=

"ft.primitives.near" ; const

DROP_AMOUNT

=

"1000000000000000000000000000" ;

const wallet =

new

Wallet ( {

createAccessKeyFor :

KEYPOM_CONTRACT_ADDRESS

} ) ;

await wallet . callMethod ( { method :

"create_drop" , contractId :

KEYPOM_CONTRACT_ADDRESS , args :

{ public_keys : state . publicKeys , deposit_per_use :

DROP_AMOUNT , ftData :

{ contractId :

FT_CONTRACT_ADDRESS , senderId : accountId ,

// TODO How to get account id // This balance per use is balance of human readable FTs per use. amount :

"1" // Alternatively, you could use absoluteAmount, which is dependant on the decimals value of the FT // ex. if decimals of an ft = 8, then 1 FT token would be absoluteAmount =
100000000 } , } , deposit :

"2300000000000000000000000000"


// state.publicKeys.length * dropAmount + 3000000000000000000000000000, gas :

"10000000000000000" } , } ) ; TheWallet object comes from ouquickstart template near call v2.keypom.near create_drop '{"public_keys": , "deposit_per_use": "1000000000000000000000000000",
"ftData": {"contractId": "ft.primitives.near","senderId": "bob.near", "amount": "1"}}' --depositYocto 2300000000000000000000000000 --gas 1000000000000000 --accountId bob.near

```

2. Transferring FT

Having the Drop ID, you now need to transfer the fungible tokens to the linkdrop contract.

note To transfer FTs to an account, you need to first[register](#) the receiver account (e.g. the keypom contract) on the FT contract. *  Component *

WebApp *

```

Near . call ( [ { contractName : ftContract , methodName :

```

```

"ft_transfer" , args :

```

```

{ receiver_id : keypomContract , amount :

```

```

"1" , } , deposit :

```

```

"1" , gas :

```

```

"3000000000000000" , } , ] ) ; import

```

```

{

Wallet

}

```

```

from

```

```

'./near-wallet' ;

```

```

const

```

```
"v2.keypom.near" ; const
```

[illegible]

Building drop links

```
const
getLinks
=
( )
=>
{ const links =
[] ;

// It assumes that private keys have been already stored in State by using State.init() and State.update() method state . privKeys . map ( ( e , i )
=>
{ const link = "https://app.mynearwallet.com"
+
"/linkdrop/v2.keypom.near/"
+ e ; links . push ( link ) ; } ) ;

return links ; } ; Example response [
'https://app.mynearwallet.com/linkdrop/v2.keypom.near/ed25519:2H32THYM8ob336yk81cZUxpidvKi34zLck6a97ypmCY8bbSAuEfrCTu9LWmWGiG9df2C6vkg2FGKGZzY9qE4aEcj' ,
'https://app.mynearwallet.com/linkdrop/v2.keypom.near/ed25519:3eoMcqKmmY9Q6qgBy3hZy65HisZ8NXQd9aGGYUGe6RRsmNpGJS5YN64MgZaBVVYJjhbFXhQ2ca3DRRBiKh1rYM48'
] note If you didn't save your linkdrop links before closing NEAR App, you can always find them on KeyPom app .
```

Additional Resources

- ### 1. Linkdrop plus

2. allows to create a Simple Drop. Powered by [KeyPom](#)
3. [Keypom Drop Viewer](#)
4. shows drops created by current logged in user. [Edit this page](#) Last updated on Jan 30, 2024 by garikbesson Was this page helpful? Yes No

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