Creating Accounts

You might want to create an account from a contract for many reasons. One example: You want tprogressively onboard users, hiding the whole concept of NEAR from them at the beginning, and automatically create accounts for them (these could be sub-accounts of your main contract, such asuser123.some-cool-game.near).

Since an account with no balance is almost unusable, you probably want to combine this with the token transfer from last page. You will also need to give the account an access key. Here's a way do it:

```
Promise :: new ( "subaccount.example.near" . parse ( ) . unwrap ( ) ) . create_account ( ) . add_full_access_key ( env ::
signer_account_pk()).transfer(250_000_000_000_000_000_000);
// 2.5e23yN, 0.25N In the context of a full contract:
use
near_sdk :: { env , near_bindgen ,
Accountld,
Balance,
Promise };
const
INITIAL BALANCE:
Balance
250_000_000_000_000_000_000_000;
// 2.5e23yN, 0.25N
[near_bindgen]
pub
struct
Contract
{}
[near_bindgen]
impl
```

[private]

Contract

```
pub
create_subaccount ( prefix :
AccountId )
Promise
```

```
{ let subaccount id =
```

AccountId:: new unchecked (format! ("{}.{}", prefix,

env :: current_account_id ())); Promise :: new (subaccount_id) . create_account () . add_full_access_key (env :: signer_account_pk ()) . transfer (INITIAL_BALANCE) } } Things to note:

- · add full access key
- This example passes in the public key of the human or app that signed the original transaction that resulted in this
 function call (signer account pk
-). You could also useadd access key
- to add a Function Call access key that only permits the account to make calls to a predefined set of contract functions.

. [private]

- — if you have a function that spends your contract's funds, you probably want to protect it in some way. This example does so with a perhaps-too-simple#[private]
- macro.
- INITIAL_BALANCE
- uses the Balance
- type from near-sdk-rs. Today this is a simple alias foru128
- , but in the future may be expanded to have additional functionality, similar to recenthanges to the Gas type
- . Edit this page Last updatedonAug 24, 2022 byDamián Parrino Was this page helpful? Yes No

Previous Sending NEAR Next Deploying Contracts