

Contract - module call

Explanation of executing modules inside a CosmWasm contract using sending Native SCRT as an example. Sending Native SCRT from a contract is relatively trivial and can be done using the [BankMsg::Send](#) message.

This is a [contract-to-module](#) call. Any native denoms can be send in this way (ex. native IBC tokens).

Cosmwasm v1.0 Cosmwasm v0.10 ```

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[entry_point]

```
pubfnexecute( deps:DepsMut, env:Env, info:MessageInfo, msg:ExecuteMsg// this is a custom struct defined in your msg.rs )->StdResult { // example: send 33 uscr1 letcoins_to_send:Vec=vec![Coin{ denom:"uscr1".to_string(), amount:Uint128::from(33u128), }];
```

```
letmessage=CosmosMsg::Bank(BankMsg::Send{ // replace with recipient of your choice to_address:info.sender.clone().into_string(), amount:coins_to_send, });
```

```
letres=Response::new().add_message(message); Ok(res) }
```

Copy pubfnhandle(_deps:&mutExtern, env:Env, _msg:HandleMsg, // this is a custom struct defined in your msg.rs)->StdResult { // example: send 33 uscr1 letcoins_to_send:Vec=vec![Coin{ denom:"uscr1".to_string(), amount:Uint128::from(33u128), }];

```
letres=HandleResponse{ messages:vec![CosmosMsg::Bank(BankMsg::Send{ from_address:env.contract.address, // replace with recipient of your choice to_address:env.message.sender, amount:coins_to_send, })], log:vec![], data:None, };
```

```
Ok(res) }
```

``` Having Trouble? Always make sure your contract has enough funds to begin with!

You can send some coins to your contract like this:

```

Copy secretcli tx bank send 1000uscr1

```

You can always see decrypted error messages from the contract like so:

```

Copy secretcli q compute tx

```

Transaction logs

You can see the spent coins as events when you query for the transaction:

```

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```
tx_hash=(secretclitxcomputeexecute'{}'--outputjson|jq'.txhash') secretcli q tx txhash
```

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```
logs: -events: -attributes: -key:receiver value:secret1ap26qrlp8mcq2pg6r47w43l0y8zkqm8a450s03 -key:amount value:33uscr1 type:coin_received -attributes: -key:spender value:secret18vd8fpwxzck93qlwghaj6arh4p7c5n8978vsyg -key:amount value:33uscr1 type:coin_spent
```

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