EOS开发入门之HelloWorld

EOS的智能合约是基于C++语言的,本篇将进入智能合约的开发阶段,写一个HelloWorld之类的合约。

话不多说,开始敲大,,

新建一个"hello_eos"的文件夹,然后创建一个"hello_eos.cpp"的文件,文件夹和文件名一样,内容如下:

1、编写智能合约

```
#include <eosiolib/eosio.hpp>
#include <eosiolib/print.hpp>

using namespace eosio;

class hello_eos : public eosio::contract {

   public:
        using contract::contract;

        /// @abi action
        void test(account_name user) {
                  print("Hello ,", name{user});
        };

        EOSIO_ABI(hello_eos, (test))
```

2、编译智能合约

```
wenzildeiMac:hello_eos wenzil$ pwd
/Users/wenzil/Desktop/study/hello_eos
wenzildeiMac:hello_eos wenzil$ eosiocpp -o hello_eos.wast hello_eos.cpp
-bash: eosiocpp: command not found
```

找不到智能合约编译工具eosiocpp, 坑啊。

进入到EOS源码的"build"目录,然后执行如下命令生成eosiocpp工具。

```
wenzildeiMac:build wenzil$ pwd
/Users/wenzil/Documents/Study/eos/build
```

```
wenzildeiMac:build wenzil$ sudo make install
Password:
[ 0%] Built target binaryen
[ 0%] Built target wasm
##########此处省略多行输出内容########
-- Installing: /usr/local/bin/eosio-abigen
-- Installing: /usr/local/bin/eosiocpp
```

如果失败了,再次编译即可,编译成功后发现多了两个文件。

```
wenzildeiMac:hello_eos wenzil$ ls
hello_eos.cpp hello_eos.wasm hello_eos.wast
```

3、生成abi文件

```
wenzildeiMac:hello_eos wenzil$ eosiocpp -g hello_eos.abi hello_eos.cpp
3376922ms thread-0 abi_generator.hpp:68 ricardian_contracts ] Wa
rning, no ricardian clauses found for hello_eos

3376922ms thread-0 abi_generator.hpp:75 ricardian_contracts ] Wa
rning, no ricardian contract found for test

Generated hello_eos.abi ...
```

再次查看,发现多了一个abi文件。

```
wenzildeiMac:hello_eos wenzil$ ls
hello_eos.abi hello_eos.cpp hello_eos.wasm hello_eos.wast
```

4、编译智能合约

user1是之前创建钱包时创建的账户名,这里没有再创建账户了。返回上一个目录,再进行编译。

```
wenzildeiMac:study wenzil$ cleos set contract user1 ./hello_eos
Reading WAST/WASM from ./hello_eos/hello_eos.wasm...
Using already assembled WASM...
Publishing contract...
executed transaction: ac3764e28b27f1d1cadc31be7d25aceba4bee591d4b284b789bab6
3e120e7016 1800 bytes 536 us
# eosio <= eosio::setcode {"account":"user1","vmtype":
0,"vmversion":0,"code":"0061736d01000000013b0c60027f7e0060000017e60027e7e...</pre>
```

```
# eosio <= eosio::setabi {"account":"user1","abi":"0e
656f73696f3a3a6162692f312e300001047465737400010475736572046e616d65010000...
warning: transaction executed locally, but may not be confirmed by the netwo
rk yet</pre>
```

5、调用智能合约

奇怪了,居然没打印出print函数的内容,有空再研究下为啥。