

Substrate 第一课作业

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作业内容

作业要求：

作业提交

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安装 Rust 环境

```
curl https://getsubstrate.io -sSf | bash -s -- --fast
```

安装IDE

- VSCode
 - 推荐插件：Rust (rls), CodeLLDB, BetterTOML
- Lion
 - 推荐插件：Rust, Toml

创建新项目substrate-kitties

```
curl https://raw.githubusercontent.com/paritytech/substrate-up/dcc2d521b6ba0ef4533dcc5cfc49ec290f9c62a9/substrate-node-new-sSf | sh -s <项目名> <作者名>  
// 或者用七牛云脚本：  
https://qiniu.netsafe.org.cn/shell/substrate-node-new
```

1. 从新项目启动单节点测试网络
2. 使用 <https://polkadot.js.org/apps/> 连接本地测试网络并成功发起一笔转账交易

作业要求：

项目推送到Gitlab

发送交易，交易成功，包含交易的区块详细资料，分别截图

1) 作业提交时间：

北京时间6月12日（周三）晚上24：00点前

2) 上交作业地址：

Gitlab官方账号

3) 周末直播答疑

北京时间6月15日(周六)上午11：00

作业提交

提交时间: 2019/06/05 18:40

1. 项目推送到Gitlab：见本项目。

2. 节点启动出块截图：

The screenshot shows the Khadot Explorer interface. On the left is a sidebar with navigation links: Explorer, Accounts, Address book, Transfer, Chain state, Extrinsic, Sudo, Settings, Toolbox, Javascript, GitHub, and Wiki. The main area displays 'Chain info' with 'last block' at 2.7s, 'target' at 10s, and 'total issuance' at 1.152E. Below this is a 'recent blocks' table with three entries, each showing a block number, hash, and parent hash. Overlaid on the right is a terminal window showing the logs of a node named 'threebody@deepin'. The logs show the node's internal state, including the current block being proposed, the parent block, and the consensus process.

Block	Hash	Parent Hash
18	0x2651bde553b8de99cc6cc0ce061e56269b3d781c447aed13cfb3565	0xfe36ffa9c09ee5117612cb35a870017f87a9cf745149313ae2a836b1
17	0xfe36ffa9c09ee5117612cb35a870017f87a9cf745149313ae2a836b1	0x796df5690d41a5466f6affffa17335ccac7d9830c
16	0x796df5690d41a5466f6affffa17335ccac7d9830c	0x8b7a42131c01653e3cac18a90d28e6e6118816d7a7471d8c4f3e3dd27cb3a0d9

3. 发送交易截图：

The screenshot shows the 'balances.transfer' transaction form. The form has a title 'balances.transfer' and a description: 'Transfer some liquid free balance to another account. `transfer` will set the `FreeBalance` of the sender and receiver. It will de...'. The form includes fields for 'sending from my account' (ALICE), 'dest: Address' (NEW KEYPAIR), and 'value: Compact<Balance>' (1.000). There are also buttons for 'Cancel' and 'Sign and Submit'. A note at the bottom states: 'Fees includes the transaction fee and the per-byte fee', 'Fees totalling 1.000 Unit will be applied to the submission', and '1.001k Unit total transaction amount (fees + value)'.

4. 交易成功，区块详情截图：

extrinsics

timestamp.set (#0)

► Set the current time. This call should be invoked exactly once per block. It will panic at the finalization phase, if ...

balances.transfer (#1)

▼ Transfer some liquid free balance to another account. 'transfer' will set the 'FreeBalance' of the sender and receiver. It will decrease the total issuance of the system by the 'TransferFee'. If the sender's account is below the existential deposit as a result of the transfer, the account will be reaped. The dispatch origin for this call must be 'Signed' by the transactor.

extrinsic hash 0x5e25c06f811cf7d6ce736ea5ecab63022879ecca61aeeb5ad8e1eff182ef4a5

dest: Address NEW KEYPAIR 5FZEyVvZm7r8WpQ8racC8Mf...

value: Compact<Balance> 1.000 Kilo

events

system.ExtrinsicSuccess (#0)

► An extrinsic completed successfully.

indices.NewAccountIndex (#1)

▼ A new account index was assigned. This event is not triggered when an existing index is reassigned to another 'Accountid'.

Accountid NEW KEYPAIR 5FZEyVvZm7r8WpQ8racC8Mf...

AccountIndex F7NZ

balances.NewAccount (#1)

▼ A new account was created.

Accountid NEW KEYPAIR 5FZEyVvZm7r8WpQ8racC8Mf...

Balance 1.000 Kilo

balances.Transfer (#1)

▼ Transfer succeeded (from, to, value, fees).

Accountid ALICE 5GrwvaEF5zXb26Fz9rcQpDwL...

Accountid NEW KEYPAIR 5FZEyVvZm7r8WpQ8racC8Mf...

Balance 1.000 Kilo

Balance 0 Unit

system.ExtrinsicSuccess (#1)

► An extrinsic completed successfully.