

Logic test

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2.1 test content

Logic testing is testing the logic of the new functions involved in the development of dynamic nodes, mixed consensus, and cross-consensus engines, it is mainly about whether the logical flow of the functions such as mortgage governance node, creating proposal application node, proposal voting, proposal execution, consensus switching and so on is normal, whether there is the possibility of skipping, and whether the update schedule is normal. For example:

- Whether a non-governance node can initiate a proposal
- Whether the non-governance node can update the governance node information
- Whether the non-governance node can execute the completed proposal
- Whether the governance node can execute an incomplete proposal

2.2 test methods

The above functional tests have completed the normal logical process testing, and the next logical test is mainly to test the abnormal process. This test is done in the test network initiated by the above script, mainly by calling the command that does not conform to the logic to test whether the abnormal process can pass, the dynamic node logic test script is shown in the <https://github.com/dimensionofficial/dimension-testnet/tree/master/test>。 .

2.3 test flow

1. Prepare the environment, cleon
2. Launch the Keond, create the Wallet, and import the test account private key
3. non-governance node non-normal logic test
- 4, governance node abnormal logic test
5. Clean up the environment

2.4 process output

```
1 Please input the local nodeon http port, such as 8888 : 8888
2 ./logic.sh: line 51: cleon: command not found
3 ./logic.sh: line 68: keond: command not found
4 info 2019-10-27T11:38:43.205 thread-0 wallet_plugin.cpp:42
  plugin_initialize    ] initializing wallet plugin
```

```
5 info 2019-10-27T11:38:43.205 thread-0 http_plugin.cpp:452
  plugin_initialize ] configured http to listen on 127.0.0.1:8900
6 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/keond/stop
7 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:530
  plugin_startup ] start listening for http requests
8 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/node/get_supported_apis
9 info 2019-10-27T11:38:43.206 thread-0 wallet_api_plugin.cpp:73
  plugin_startup ] starting wallet_api_plugin
10 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/create
11 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/create_key
12 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/get_public_keys
13 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/import_key
14 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/list_keys
15 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/list_wallets
16 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/lock
17 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/lock_all
18 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/open
19 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/remove_key
20 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/set_timeout
21 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/sign_digest
22 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/sign_transaction
23 info 2019-10-27T11:38:43.206 thread-0 http_plugin.cpp:622
  add_handler ] add api url: /v1/wallet/unlock
24 warn 2019-10-27T11:38:43.717 thread-0 wallet.cpp:223
  save_wallet_file ] saving wallet to file /home/chen/./test-
  wallet/./test.wallet
25 Creating wallet: test
26 Save password to use in the future to unlock this wallet.
27 Without password imported keys will not be retrievable.
28 "PW5KccPrfL4R7eMmW19pjSfJH53uv4hpS7Q1rmzxA4xF3Th2Kxkw"
29 warn 2019-10-27T11:38:43.734 thread-0 wallet.cpp:223
  save_wallet_file ] saving wallet to file /home/chen/./test-
  wallet/./test.wallet
```

```

30 imported private key for:
   eon53A7xmcSWLuzTZLnJBsj63FB3yxNYXTUGuXNKPjxg5uYkToSXV
31 + ./dimension/build/programs/cleon/cleon -u http://127.0.0.1:8888 --
   wallet-url http://127.0.0.1:8900 system newproposal testaccount1
   testaccount1 0 1 0
32 Error 3050003: eonio_assert_message assertion failure
33 Error Details:
34 assertion failure with message: only governance node can new proposal
35 + test 1
36 + '[' 1 -eq 0 ']'
37 + ./dimension/build/programs/cleon/cleon -u http://127.0.0.1:8888 --
   wallet-url http://127.0.0.1:8900 system newproposal testaccount1
   testaccount1 0 2 0
38 Error 3050003: eonio_assert_message assertion failure
39 Error Details:
40 assertion failure with message: only governance node can new proposal
41 + test 1
42 + '[' 1 -eq 0 ']'
43 + ./dimension/build/programs/cleon/cleon -u http://127.0.0.1:8888 --
   wallet-url http://127.0.0.1:8900 system newproposal testaccount1
   testaccount1 0 3 0
44 Error 3050003: eonio_assert_message assertion failure
45 Error Details:
46 assertion failure with message: only governance node can new proposal
47 + test 1
48 + '[' 1 -eq 0 ']'
49 + ./dimension/build/programs/cleon/cleon -u http://127.0.0.1:8888 --
   wallet-url http://127.0.0.1:8900 system updategnode testaccount1
   EON53A7xmcSWLuzTZLnJBsj63FB3yxNYXTUGuXNKPjxg5uYkToSXV
50 Error 3050003: eonio_assert_message assertion failure
51 Error Details:
52 assertion failure with message: account not in _gnode
53 + test 1
54 + '[' 1 -eq 0 ']'
55 + set +x
56 executed transaction:
   5254eb7250f2830da8839e652c5e38278244103b5f54b62ef965e7afd7c3e980  120
   bytes  417 us
57 #      eonio <= eonio::newproposal
   {"owner":"gnodeaccount","account":"dst1nrphukuw","block_height":0,"type":2
   ,"status":0}
58 #      eonio.token <= eonio.token::transfer
   {"from":"gnodeaccount","to":"eonio.prop","quantity":"1.5000
   EON","memo":"transfer 1.5000 EON to new ...
59 #      gnodeaccount <= eonio.token::transfer
   {"from":"gnodeaccount","to":"eonio.prop","quantity":"1.5000
   EON","memo":"transfer 1.5000 EON to new ...
60 #      eonio.prop <= eonio.token::transfer
   {"from":"gnodeaccount","to":"eonio.prop","quantity":"1.5000

```

```

EON","memo":"transfer 1.5000 EON to new ...
61 warning: transaction executed locally, but may not be confirmed by the
    network yet      ]
62 + ./dimension/build/programs/cleon/cleon -u http://127.0.0.1:8888 --
    wallet-url http://127.0.0.1:8900 system execproposal testaccount1 7
63 Error 3050003: eonio_assert_message assertion failure
64 Error Details:
65 assertion failure with message: only governance node can exec proposal
66 + test 1
67 + '[' 1 -eq 0 ']'
68 + ./dimension/build/programs/cleon/cleon -u http://127.0.0.1:8888 --
    wallet-url http://127.0.0.1:8900 system execproposal gnodeaccount 15
69 Error 3050003: eonio_assert_message assertion failure
70 Error Details:
71 assertion failure with message: proposal not end
72 + test 1
73 + '[' 1 -eq 0 ']'
74 + set +x
75 kill keond pid : 11991
76 *****
    *****
79 ***** Congratulations!!! The logic test passed, let's
    go! *****
80 *****
    *****
81

```

2.5 test results

After testing, dynamic nodes, mixed consensus, cross-consensus engine involved in the functional logic chain testing is normal.