Testnet Halt 95

March 2020 Testnet Halt 95

- · Chain id:
- · enigma-testnet
- Date:
- 16/03/2020 3am UTC
- · Related issues:
- https://github.com/scrtlabs/SecretNetwork/issues/95

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Description

On the 15 Mar 2020, around 9pm UTC the following param-change proposal was submitted:

...

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At around 3am UTC of the following night the proposal got accepted, and as a result the network halted, with following error:

...

Copy Mar 16 05:02:52 ip-172-31-44-28 enigmad[20612]: I[2020-03-16|05:02:52.767] Executed block module=state height=171146 validTxs=0 invalidTxs=0 Mar 16 05:02:52 ip-172-31-44-28 enigmad[20612]: I[2020-03-16|05:02:52.780] Committed state module=state height=171146 txs=0

 $appHash=FB4739B6F0D4FED77D431922E340B95B8144BF37483D3C1225431311A5BB229D\ Mar\ 16\ 05:02:58\ ip-172-31-44-28\ enigmad[20612]:\ E[2020-03-16]05:02:58.075]\ CONSENSUS\ FAILURE!!!\ module=consensus\ err="negative\ coin amount"\ stack="goroutine\ 1419\ [running]:\nruntime/debug.Stack(0xc0012c2ce0,\ 0x1115f40,\ 0x16671b0)\n\t/usr/lib/go-1.13/src/runtime/debug/stack.go:24\ +0x9d\ngithub.com/tendermint/tendermint/consensus.$

(State).receiveRoutine.func2(0xc002741c00,

 $0x149b478) \\ \notemark (0x149b478) \\ \notemark (0x1115f40, 0x16671b0) \\ \notemark (0x115f40, 0x16671b0) \\$

sdk/x/distribution/keeper.Keeper.AllocateTokens(0x169cf60, 0xc000eab5b0, 0xc000ab8460, 0xc000ab8460, 0x169cf60, 0xc000eab5e0, 0x169cfa0, 0xc000eab630, 0xc000e9fbe0, 0xc,

...)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/cosmos/cosmos-sdk@v0.38.1/x/distribution/keeper/allocation.go:66 +0x1589\ngithub.com/cosmos/cosmos-sdk/x/distribution.BeginBlocker(0x16ad9a0, 0xc000034048, 0x16c2100, 0xc005382800, 0xa, 0x0, 0x0, 0x0, 0x0, 0x0, ...)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/cosmos/cosmos-sdk@v0.38.1/x/distribution/abci.go:26 +0x2e6\ngithub.com/cosmos/cosmos-

sdk/x/distribution.AppModule.BeginBlock(...)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/cosmos/cosmos-sdk@v0.38.1/x/distribution/module.go:147\ngithub.com/cosmos-sdk/types/module.

(Manager).BeginBlock(0xc000ab9030, 0x16ad9a0, 0xc000034048, 0x16c2100, 0xc005382800, 0xa, 0x0, 0x0, 0x0, 0x0, ...)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/cosmos/cosmos-sdk@v0.38.1/types/module/module.go:297+0x1ca\ngithub.com/enigmampc/SecretNetwork.

- 0x20, 0xa, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, ...)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/abci/client/local_client.go:231+0x101\ngithub.com/tendermint/tendermint/proxy.(appConnConsensus).BeginBlockSync(0xc000eab1b0, 0xc004071c00,
- +0x6b\ngithub.com/tendermint/tendermint/state.execBlockOnProxyApp(0x16ae3a0, 0xc0027fa9a0, 0x16bb520, 0xc0000eab1b0, 0xc003dc3a40, 0x16c4080, 0xc000011138, 0x6, 0xc00272a9a0, 0xe)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/state/execution.go:280

+0x3e1\ngithub.com/tendermint/tendermint/state.(BlockExecutor).ApplyBlock(0xc0000fce00, 0xa, 0x0, 0xc00272a980, 0x6, 0xc00272a9a0, 0xe, 0x29c8a, 0xc0038a1660, 0x20,

...)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/state/execution.go:131 +0x17a\ngithub.com/tendermint/tendermint/consensus.(State).finalizeCommit(0xc002741c00,

0x29c8b)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/consensus/state.go:1431 +0x8f5\ngithub.com/tendermint/tendermint/consensus.(State).tryFinalizeCommit(0xc002741c00,

0x29c8b)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/consensus/state.go:1350 +0x383\ngithub.com/tendermint/tendermint/consensus.(State).enterCommit.func1(0xc002741c00, 0x0,

0x29c8b)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/consensus/state.go:1285

+0x90\ngithub.com/tendermint/tendermint/consensus.(State).enterCommit(0xc002741c00, 0x29c8b,

0x0)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/consensus/state.go:1322 +0x61a\ngithub.com/tendermint/tendermint/consensus.(State).addVote(0xc002741c00, 0xc005087c20, 0xc003fd0b70, 0x28, 0xc0012c9a38. 0xd31f92.

0x0)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/consensus/state.go:1819 +0xa39\ngithub.com/tendermint/tendermint/consensus.(State).tryAddVote(0xc002741c00, 0xc005087c20, 0xc003fd0b70, 0x28, 0xf136b9f2d600ff82, 0x108,

0x100)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/consensus/state.go:1642 +0x59\ngithub.com/tendermint/tendermint/consensus.(State).handleMsg(0xc002741c00, 0x168b640, 0xc0028f4538, 0xc003fd0b70.

0x28)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/consensus/state.go:709 +0x252\ngithub.com/tendermint/tendermint/consensus.(State).receiveRoutine(0xc002741c00,

0x0)\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/consensus/state.go:644 +0x6eb\ncreated by github.com/tendermint/tendermint/consensus.

(State).OnStart\n\t/home/assafmo/workspace/go/pkg/mod/github.com/tendermint/tendermint@v0.33.0/consensus/state.go:335 +0x13a\n" Mar 16 05:36:48 ip-172-31-44-28 enigmad[20612]: E[2020-03-16|05:36:48.395] Connection failed @ sendRoutine module=p2p peer=842822b88cb5762ba99cee50a37156c6d0a6c452@149.248.55.89:60440 conn=MConn{149.248.55.89:60440} err="pong timeout" Mar 16 05:36:48 ip-172-31-44-28 enigmad[20612]: E[2020-03-16|05:36:48.402| Stopping peer for error module=p2p peer="Peer{MConn{149.248.55.89:60440} 842822b88cb5762ba99cee50a37156c6d0a6c452 in}" err="pong timeout"

When the vote passed, the distribution module parameters changed to:

bonus_proposer_reward:"0.0400000000000000" withdraw_addr_enabled:true

The problem occurred because the sum ofbaseproposerreward

- andbonusproposerreward
- can't be grater than 1 i.e.0.999 + 0.04 > 1
- . This results in miscalculations of the rewards and fees.
- The cause is a bug in Cosmos SDK in the parameter value validation, causing the proposal to pass despite being invalid. More on that here: https://github.com/cosmos/cosmos-sdk/issues/5808

Additional Notes

Another invalid proposal was on voting period, and by itself would have caused the network to halt as well:

Copy "changes": [{ "subspace":"distribution", "key":"bonusproposerreward", "value":"\"0.999000000000000000\"" }]

Action Items

- https://github.com/scrtlabs/SecretNetwork/issues/95
- https://github.com/scrtlabs/SecretNetwork/issues/97
- https://github.com/scrtlabs/SecretNetwork/issues/104

Recovery Process

- 1. Logged in to the testnet bootstrap machine.
- 2. Exported state from the last "rounded" block height:

```
3.
Copy enigmadexport--for-zero-height--height=170000>state_export.json
  1. Removed all references to proposal ids4
 2. and5
 3. in:
 4.
Copy "gov":{ "deposits":[...], "proposals":[...], "votes":[...], ... }
  1. Made sure the distribution
 2. parameters still make sense:
...
"bonus_proposer_reward":"0.04000000000000000", "community_tax":"0.020000000000000000",
"withdraw_addr_enabled":true }, ... }

    Erased thecoins

 2. in possession of thegov
 3. ModuleAccount:
 4.
Copy "auth":{ "accounts":[ { "type":"cosmos-sdk/ModuleAccount", "value":{ "coins":[] "name":"gov" } },... },...
...
  1. "Refund" coins to the account that deposited to these proposals on the first place i.e. added to account's balance in:
 2.
Copy "app_state":{ "auth":{ "accounts":[ { "value":{ "coins":[ { "amount":" } ] } } } }
  1. A problem occurred with staking, described at: https://github.com/cosmos/cosmos-sdk/issues/5818 Changed the
    following:
 2.
... ], ... }
To this:
...], ...}

    Then a problem occured with thecompute

  2. module:
```

3.
Copy panic:create wasm contract failed:WasmError:Filesystemerror:Fileexists (os error17)
This one got fixed when deleted the.enigmad/.compute directory.
 Reset state: 2.
Copy enigmadunsafe-reset-all
 Restarted the node. 2.
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