QITCOIN DPOS TUTORIAL

Deploying qitcoind

System Requirements

- A Linux or Windows system with 4 cores and 8GiB RAM.
- Ubuntu 18.04 or Windows 7 and above.
- At least 100GiB of HDD or SSD storage.
- Open port 3333 in the firewall; having a public IP is preferable.
- It is recommended to use AWS or AliCloud, as cloud servers provide a more stable runtime environment.

Deployment

1. Download the latest version from:

https://github.com/qitcoin2021/qitcoin/releases

- 2. Extract it to the /opt/qitcoin directory.
- 3. Create a systemd service file at /etc/systemd/system/qitcoind.service:

[Unit] Description=Qitcoin ExecStart=/opt/gitcoin/bin/gitcoind -datadir=/opt/gitcoin/data/ Restart=always RestartSec=10 Nice=-20 LimitNICE=-20 LimitNOFILE=1048576:1048576 LimitCORE=infinity LimitNPROC=819200:1048576 IOWeight=9999 CPUWeight=1000 #CPUAffinity=1,2 LimitCORE=1024 Delegate=yes User=root

4. Configure /opt/qitcoin/data/qitcoin.conf:

server=1 maxconnections=512

WantedBy=multi-user.target

5. Execute the following commands:

systemctl daemon-reload systemctl enable qitcoind systemctl start qitcoind

6. At this point, qitcoind is running.

Creating a Staking Pool

1. Ensure synchronization is complete: /opt/qitcoin/qitcoin-cli.sh getchaintips

2. Confirm your address:

/opt/qitcoin/qitcoin-cli.sh getprimaryaddress

3. To create a staking pool, 10,000 QTC must be destroyed, along with the transaction fee. Ensure you have enough balance in your wallet:

/opt/qitcoin/qitcoin-cli.sh createinitialstakingpooltx <PoolAddress> true

- **4.** The pool will take effect in the next epoch (maximum 100 blocks, approximately 5 hours). Check if it is active using: /opt/qitcoin/qitcoin/qitcoin/gitcoin-gitcoin/gitcoin-gitcoin/gitcoin-gitcoi
- 5. Keep your wallet running being offline will result in no earnings.

Staking to the Pool

1. Get the pool address:

/opt/qitcoin/qitcoin-cli.sh getstakingpools

2. Stake your tokens to the pool:

/opt/qitcoin/qitcoin-cli.sh sendstakingtoaddress <PoolAddress> <OwnerAddress> <Amount>

3. Verify the stake:

/opt/qitcoin/qitcoin-cli.sh getstakingpooluser <PoolAddress> <OwnerAddress>

Querying Staking Information

1. Get the pool addresses:

/opt/qitcoin/qitcoin-cli.sh getstakingpools

2. Get detailed pool information:

/opt/qitcoin/qitcoin-cli.sh getstakingpool "" <PoolAddress>

3. Query user's staking information:

/opt/qitcoin/qitcoin-cli.sh getstakingpooluser <PoolAddress> <OwnerAddress>

4. Withdraw staking rewards:

 $/opt/qitcoin/qitcoin-cli.sh\ with drawpending\ ^PoolAddress>\ ^OwnerAddress>$

This completes the qitcoind deployment guide.