

DogeCoin

Ouroboros enables the network's decentralization in Cardano.

```
docker run -v cardano-node-ipc:/ipc -v cardano-node-data:/data inputoutput/cardano-  
node run --help
```

```

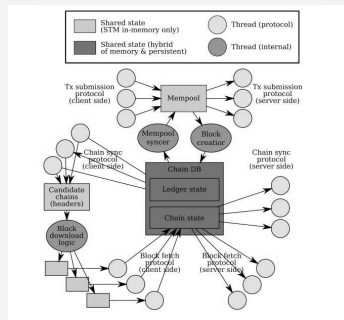
graph LR
    Internet[Internet]
    RemoteNode[Remote Node]
    NodePC[Node.js on Remote PC]
    NodeProcess[Node Process]
    CLI[CLI]
    WebBrowser[Web/Browser]
    DBSync[DB Sync]
    Backend[Backend]
    Database[(Database)]
    GraphQLAPI[GraphQL API Server]
    RESTAPI[REST API Server]
    IMAPSN[IMAP/SN Server]
    EngineFrontend[Engine Frontend]

    RemoteNode <--> NodePC
    NodePC <--> NodeProcess
    NodeProcess <--> CLI
    NodeProcess <--> WebBrowser
    NodeProcess <--> DBSync
    CLI --> Backend
    WebBrowser --> Backend
    DBSync --> Backend
    Backend --> Database
    Database --> GraphQLAPI
    Database --> RESTAPI
    Database --> IMAPSN
    GraphQLAPI --> EngineFrontend
  
```

Providing information about the state of the blockchain to other local clients

```

graph LR
    subgraph Asset_Controller [Asset Controller]
        A[Online Monetary Policy Server]
    end
    subgraph Token_Issuers [Token Issuers]
        B[Mint New Tokens]
        C[Burn Tokens]
    end
    subgraph Token_Users [Token Users]
        D[Store in Wallet]
        E[Exchange Use Token]
    end
    A -- Authorization --> B
    B -- Send --> C
    C -- Burn --> C
    C -- Send --> D
    D -- Use --> E
  
```



C

By **MS19**
cheatography.com/ms19/

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MINTING A NEW COIN

```
1. Download the node config files
wget https://h.ydr.a.i.ohk.io/bu.ild/52.666.41/dow.nlo.ad/1/c.ard.ano-no.de-1.2.4.2-li.nux.tar.gz
tar xzvf cardano-node-1.2.4.2-linux.tar.gz
mkdir lpconfig && cd lpconfig
wget https://h.ydr.a.i.ohk.io/bu.ild/51.023.27/dow.nlo.ad/1/l.aunchp.ad-connfig.json
wget https://h.ydr.a.i.ohk.io/bu.ild/51.023.27/dow.nlo.ad/1/l.aunchp.ad-byron-genesis.json
wget https://h.ydr.a.i.ohk.io/bu.ild/51.023.27/dow.nlo.ad/1/l.aunchp.ad-shelley-genesis.json
wget https://h.ydr.a.i.ohk.io/bu.ild/51.023.27/dow.nlo.ad/1/l.aunchp.ad-topology.json
cd ..

2. Run the Cardano Node
./cardano-node run --topology ./lpconfig/l.aunchp.ad-topology.json --database-path ./state-db --
port 3001
--config ./lpconfig/l.aunchp.ad-connfig.json --socket-path ~/cardano-lp.socket
export CARDANO_NODE_SOCKET_PATH=~/.cardano-lp.socket

3. Generate a verification key and a signing key:
cardano-cli address key-gen \
    --verification-key-file pay.vkey \
    --signing-key-file pay.skey

4. Generate the payment address:
./cardano-cli address build \
    --payment-verification-key-file pay.vkey \
    --out-file pay.addr \
    --test-net-magic 3

5. Check the balance of the payment address:
./cardano-cli query utxo --address addr_t est lvq vlk u0y tsc qq3 2rp v66 0uu 4sg xlj e25 s5x rpz 7zj -
qsv a3c 8pfckz --test net -magic 3 --mary-era

6. Fund the address and check again:
./cardano-cli query utxo --address addr_t est lvq vlk u0y tsc qq3 2rp v66 0uu 4sg xlj e25 s5x rpz 7zj -
qsv a3c 8pfckz --test net -magic 3 --mary-era

7. Export the protocol parameters to a file for later use:
cardano-cli query protocol-parameters \
    --mainnet \
    --out-file protocol.json
```



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