Codex

Node Operator Cheatsheet

What?

Codex is a durable, decentralised data storage protocol, created so the world community can preserve its most important knowledge without risk of censorship. The backbone of Codex is a Distributed Storage Network that is powered by a novel Data Durability Engine.

Why?

* Future milestone

- Decentralised
- Censorship resistant*
- Scalable
- Durable
- Accessible
- Cost-effective

Running a local node

Windows | MacOS | Linux

Download links : codex.storage/downloads

Requirements
- Git
- GitHub
- Docker

Port Forwarding is REQUIRED.

Configure the ports required for data discovery and data exchange :

--disc-port <PORT>	UDP	data discovery	(Example, 8090)
--listen-addrs <PORT>	TCP	data exchange	(Example, 8070)

New to port forwarding? Check Beginners Guide to Port Forwarding

Recommended hardware

Key information

- At this stage, Codex doesn't have realistic circuit parameters for the proving system.
- The system is currently running on "toy" parameters to facilitate testing. Expect higher requirements in the future.

Altruistic Mode (File Sharing)	Persistence Mode (Storage Provider)
Processor: 4 cores @ 1.2GHz	Processor: 6 cores @ 3.6GHz
Memory: 1 GB (minimum)	Memory: 32GB RAM (minimum)
Storage: Enough to support an operating system & Codex binaries to upload files locally to the P2P network.	Storage: Similar to altruistic mode but dependent on your provisioning and durability targets.

Step 1

Clone the 'codex-testnet-starter' repository

```
git clone https://github.com/codex-storage/codex-testnet-starter.git
```

For Linux/MacOS users

```
cd codex-testnet-starter/scripts
```

For Windows users

```
cd codex-testnet-starter/scripts/windows
```

Step 2

Download the Codex binaries

```
./download_online.sh
```

```
./download-online.bat
```

Step 3

Generate a ETH keypair

```
./generate.sh
```

```
./generate.bat
```

Step 4

If you are using Unix, install libgomp1

```
sudo apt-get install libgomp1
```

Run the client

```
./run_client.sh
```

```
./run-client.bat
```

If you wish to manually pass the public IP address, set your IP address as an environment variable 'LOCALIP'

Step 5

Mint some testnet tokens by going to the #bot channel in Codex Discord

OR

ETH Faucet | TST Faucet

What's next?

Guide : Interact with your node [Windows / Linux]

Join the Codex Discord community

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Resources

Specifications | Use Cases

Developer Documentation | Video Tutorials

Whitepaper | Blog