

# Installing and running a Joys node

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## Preamble

The network "Joys" is a blockchain network based on Ethereum Private network and use its documented features:

<https://github.com/ethereum/go-ethereum/wiki/Private-network>

All libraries used for Ethereum are reused for the Joys network. The differences are the following:

- own genesis file (attention when installing <http://boot.joys.digital/genesis.json>)
- different network ID =35855456 (attention when installing and connecting)

Blockchain network is downloaded within 20 minutes and has a size of about 10 GB

## Joys network resource

### Joys Site

<https://joys.digital>

### Joys Block Explorer

<http://explorer.joys.digital/>

# Monitoring of network Joys

<http://eth.joys.digital:3000/>

## Installation Instructions for Ubuntu (18.04)

The basic installation is done in the `/var/www/joys` directory.

Key files and database files are stored in `/var/www/joys` directory. (~10GB)

The hash directory is `~/.ethereum/joys` (~10GB)

**Remember and do not tell anyone the password to the wallet!**

For installation run these commands in sequence:

---

```
md /var/www/joys
```

```
cd /var/www/joys
```

```
sudo apt update && sudo apt upgrade -y
```

```
sudo apt install git wget build-essential -y
```

```
sudo apt install software-properties-common -y && sudo add-apt-repository -y  
ppa:ethereum/ethereum && sudo apt update && sudo apt install geth -y
```

```
wget http://boot.joys.digital/genesis.json
```

```
sudo geth --datadir=/var/www/joys init genesis.json
```

```
wget http://boot.joys.digital/start.sh
```

```
sudo chmod +x start.sh
```

```
wget http://boot.joys.digital/static-nodes.json
```

```
cp static-nodes.json /var/www/joys/geth
```

---

Listing of genesis.json see in <http://boot.joys.digital/genesis.json>

To start the node, run the following command: `./start.sh`

Listing of start.sh

---

```
#!/bin/bash
THISHOST=$(hostname -f)
MYWALLET=0x56144ca5ea7e0406073ae393e4015b7f64170777

geth --datadir=/var/www/joys --rpcorsdomain="" --networkid=35855456 --rpc
--etherbase=$MYWALLET
--bootnodes="enode://1750c090cd33c713c5bdba7d77e01223126fe5bde3a9829ef177a33bb
911da3d1c5369ea089e1862c4c149761249c702c00fce70cefe764d6dbfc2853bf74848@95.2
13.151.253:30303" --nat "any" --mine -minerthreads=1
--ethstats=$THISHOST:8382716d0b07b0a3@eth.joys.digital:3000 console
```

---

You can remove these launch options if you don't plan to mine:

```
--mine -minerthreads=1
--etherbase=$MYWALLET
MYWALLET=0x56144ca5ea7e0406073ae393e4015b7f64170777
```

Listing of start.sh also in <http://boot.joys.digital/start.sh>

**After start wait 5-10 minutes to synchronize the blocks**

## Connect to the node

JSON-RPC node interface is available at <http://127.0.0.1:8545/>

To connect to the node, use any of the recommended JSON-RPC libraries:  
<https://github.com/ethereum/wiki/wiki/JSON-RPC>

We use [Web2py](#)

## Installation Instructions for Windows

available at [http://download.joys.digital/latest/JOYS\\_Reticule\\_Win\\_user\\_guide-EN.pdf](http://download.joys.digital/latest/JOYS_Reticule_Win_user_guide-EN.pdf)

## Installation Instructions for Mac

available at [http://download.joys.digital/latest/JOYS\\_Reticule\\_Mac\\_user\\_guide-EN.pdf](http://download.joys.digital/latest/JOYS_Reticule_Mac_user_guide-EN.pdf)