

Instructions for installing, launching and configuring MasterNode using the One-Click Install script.

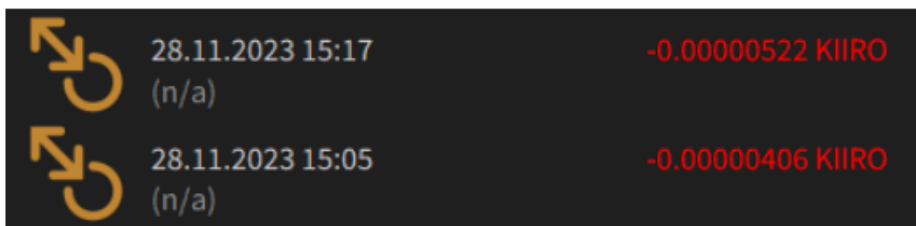
Necessary requirements:

1. First, you need to download and launch the Kiirocoin Wallet on your PC if you don't have one.

<https://github.com/Kiirocoin/kiiro/releases/tag/v1.0.0.4>

Write down and do not lose the Seed phrase of your wallet. Do not allow anyone other than you to receive your Seed phrase, so do not save it on social networks and Internet resources, as well as on your PC. If you lose your Seed Phrase and your computer crashes, you will not be able to regain access to your wallet.

2. You need to have at least 3001 Kiiro in your wallet. It is advisable to have more, for example 3003-3005 Kiiro coins. This is necessary so that you can pay the commission for transactions (transfers) in the Kiirocoin blockchain, as well as the commission for executing commands for registering a Masternode. In reality, to run one node you will not spend even 1 Kiiro coin, but only thousandths of one coin.



3. Don't forget to set a password (encrypt) your wallet.
This can be done in the menu: Settings -> Encrypt wallet.
Write down the password and don't lose it, and don't leak it to the Internet or anyone.
To transfer to any address in the Kiirocoin blockchain, you will need to enter a password, and before registering a new node, you will need to unlock the wallet by entering a command in the wallet console.
4. You need to rent a VPS server on any service that is convenient for you.
Ubuntu 20.04
1 core CPU
1-2 GB of RAM
20-25 GB of disk space (preferably SSD drive)
Please note that the Kiirocoin blockchain grows by approximately 1 GB per year, so the storage on the VPS server will fill up by approximately 1 GB per year.
Also note that your service that provides you with a VPS server should have a control panel so that you can reboot the server or reinstall a clean OS (operating system) in case something goes wrong.
5. You need to install software on your PC to access the remote VPS server that you rented. You should receive a letter from the server rental service containing your IP address and password to connect to the VPS server.
You can use "Bitvise SSH Client" or similar software to connect to the VPS server.

Profile: 2 node Kiirro.tlp

[Window behavior](#)

Login Options Terminal RDP SFTP Services C2S S2C SSH Notes About

Server

Host Enable obfuscation

Port Enable obfuscation

Obfuscation keyword

Kerberos

SPN

GSS/Kerberos key exchange

Request delegation

gssapi-keyex authentication

Authentication

Username

Initial method

Store encrypted password in profile

Password

Enable password over kbd fallback

Elevation

[Proxy settings](#) [Host key manager](#) [Client key manager](#) [Help](#)

Here is the ip address of the vps server

Here is your password to connect to the vps server

Connect button

- 02:07:59.673 Current date: 2023-12-20
- 02:07:59.673 Bitvise SSH Client 9.31, a fully featured SSH client for Windows. Copyright (C) 2000-2023 by Bitvise Limited.
- 02:07:59.673 Visit www.bitvise.com for latest information about our SSH software.
- 02:07:59.673 Run 'BvSsh -help' to learn about supported command-line parameters.
- 02:07:59.673 Cryptographic provider: Windows CNG (x86) with additions
- 02:08:00.173 Version status: Current
This is the latest release.
- 02:08:00.216 Loading last used profile 'C:\Users\user\AppData\Local\Bitvise\SSH Client\Profiles\2 node Kiirro.tlp'.
- 02:08:00.218 Last used profile loaded successfully.

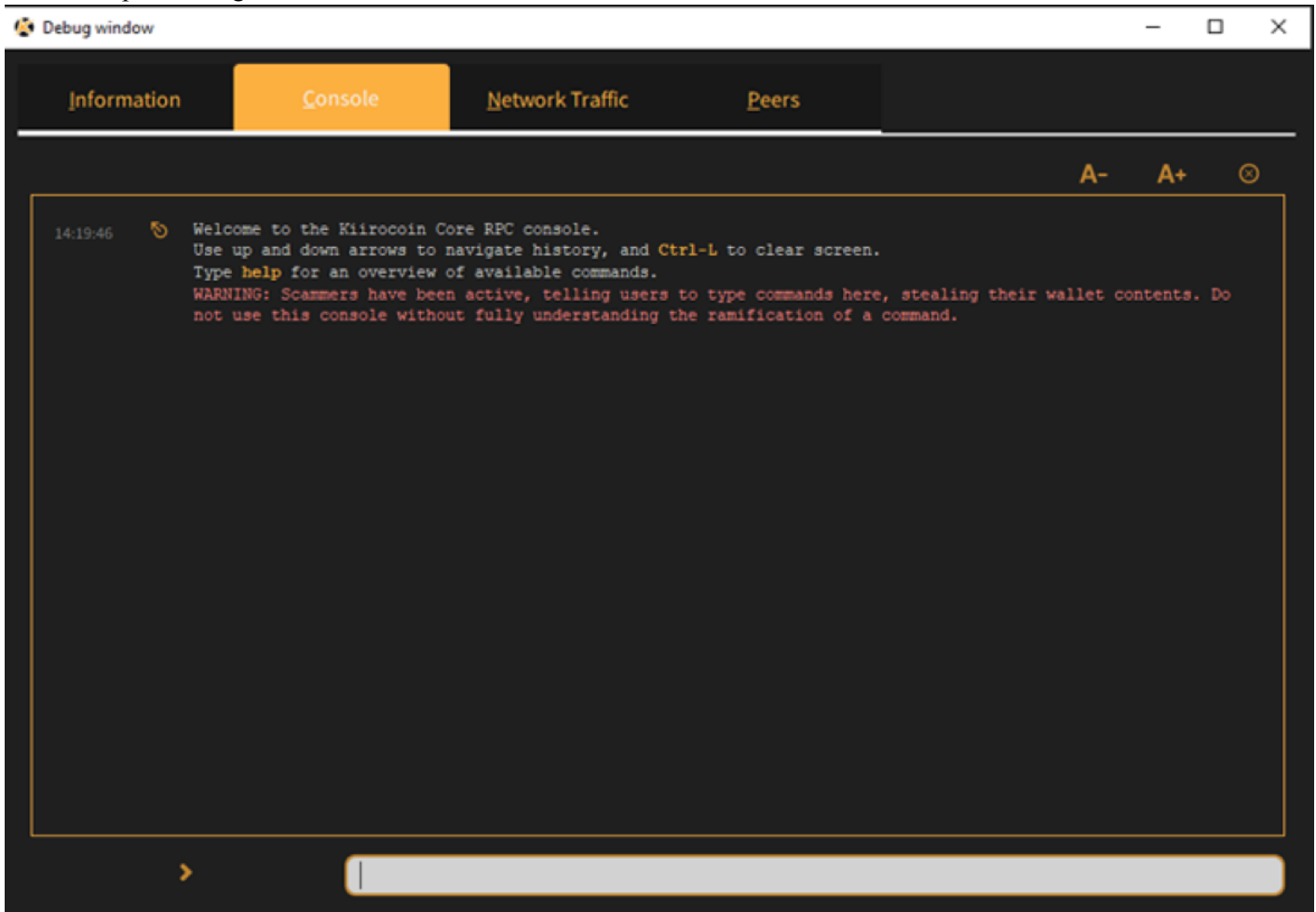
Log in

Exit

Wallet setup:

1. Open your wallet console.

Menu: Help -> Debug Window. Console Tab



Enter the commands one by one:

getnewaddress mn1

getnewaddress owner1

getnewaddress payout1

getnewaddress fee1

For each command you will receive a response in the form of an address. Write these addresses down in a notepad so you don't lose them.

Information

Console

Network Traffic

Peers

A- A+ ☰

```
14:19:46  ⓘ Welcome to the Kiroccoin Core RPC console.  
          Use up and down arrows to navigate history, and Ctrl-L to clear screen.  
          Type help for an overview of available commands.  
          WARNING: Scammers have been active, telling users to type commands here, stealing their wallet contents. Do  
          not use this console without fully understanding the ramification of a command.  
16:13:23  ⓘ getnewaddress mnl  
16:13:23  ⓘ KNhoXoptpSaYfDQ9z5fy18sHZhUevSYDWV  
16:13:50  ⓘ getnewaddress owner1  
16:13:50  ⓘ KHkQXNzVNa8DAVUC5nSAxmclUtXAeGrCLV  
16:13:56  ⓘ getnewaddress payout1  
16:13:56  ⓘ KUXeCKkHYVBdMADLsFiesgCZmUYZnHHNX8  
16:14:01  ⓘ getnewaddress feel  
16:14:01  ⓘ KJwH5NVRUxCxy4vodfLjFR1j7P9DEaQpqa
```



```
MN1.txt - Notepad
File Edit Format View Help

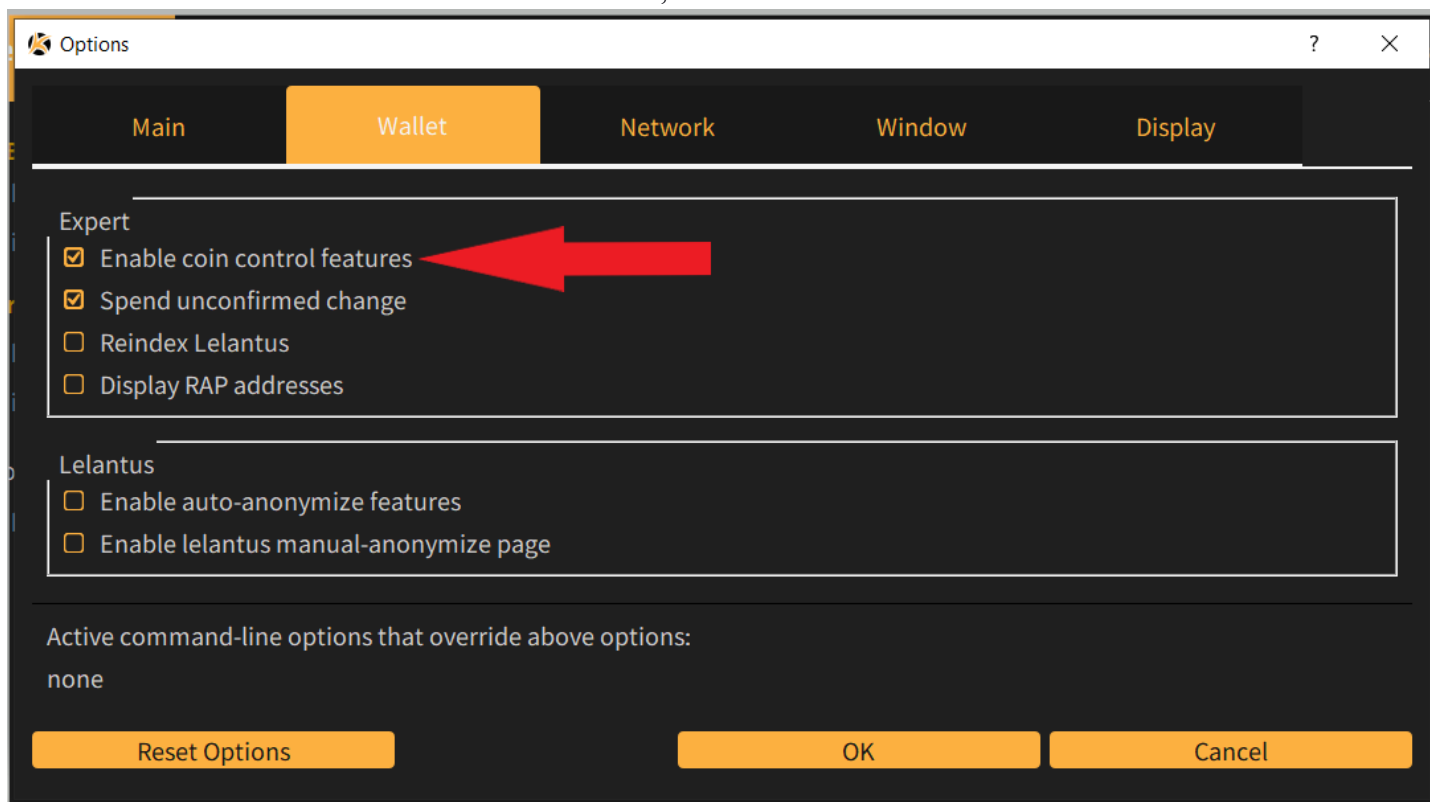
getnewaddress mn1
KNhoXoptpSaYfDQ9z5fyi8sHZhUevSYDWV

getnewaddress owner1
KHkQXNzVNa8DAVUC5nSAXmc1UtXAeGrCLV

getnewaddress payout1
KUXeCXkHYVBdMADLsFiesgCZmUYZnHHNX8

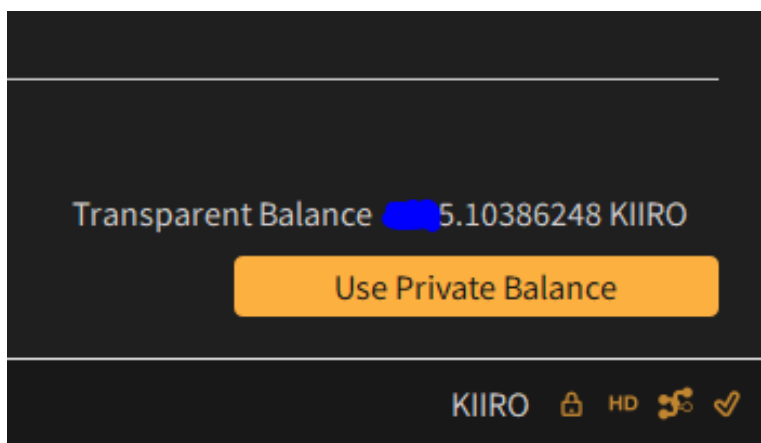
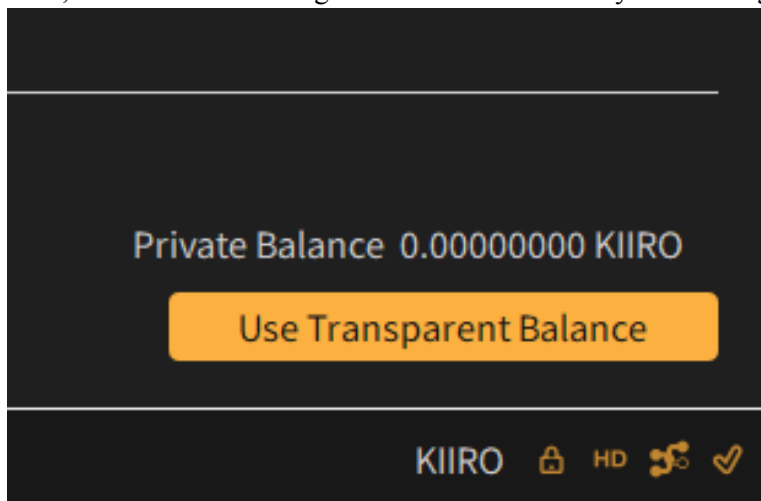
getnewaddress fee1
KJwH5NVRUxCxy4vodfLjFR1j7P9DEaQpqa|
```

2. Open Menu: Settings -> Options. Wallet tab and check the box next to 'Enable coin control features', click OK.

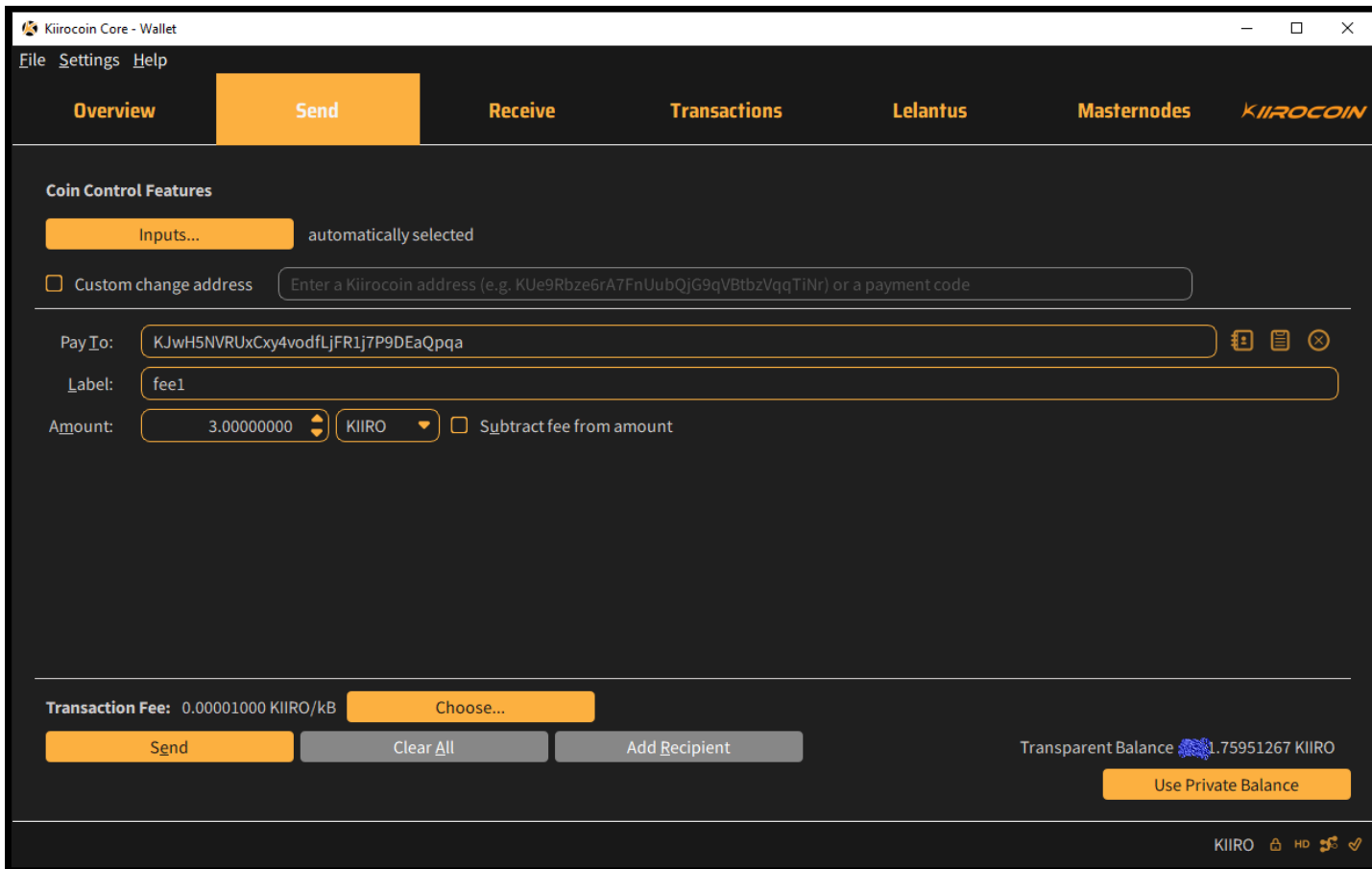


3. Go to the “Send” tab and transfer from one to three Kihiro coins to fee1 address.

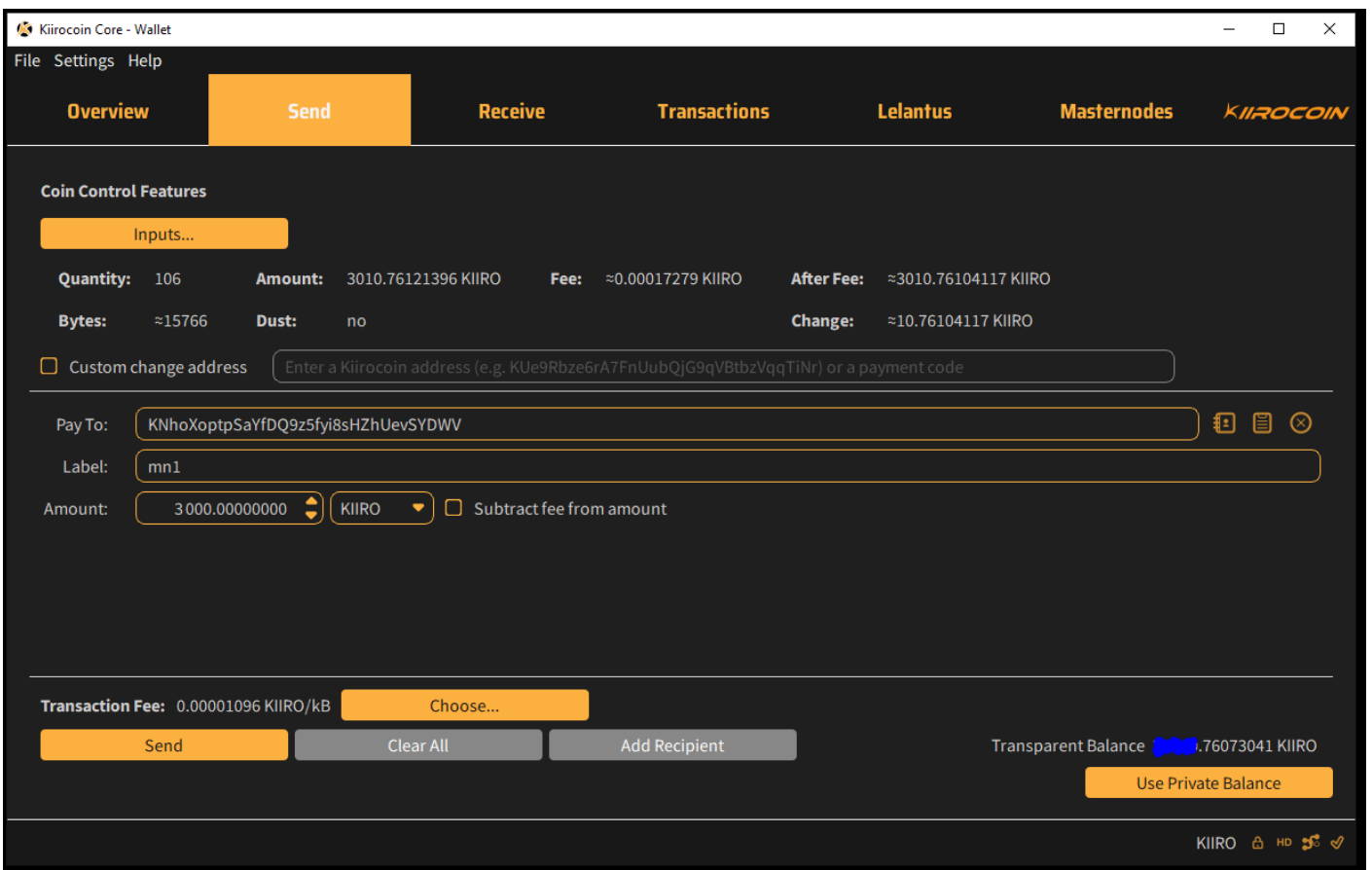
First, check in the lower right corner which balance you are using (Private or Transparent) and switch if necessary:



Next, insert the fee1 address into the line «Pay to:» and enter in the box «Amount:» 3. (you can enter 1)
Click send, enter your wallet password and confirm the transaction.



- Go to the tab «Send» and in 'Coin Control Features' click «Inputs...». Select all required inputs except fee1 and then transfer 3000 Kiircoin coins to address mn1. Click send, enter your wallet password and confirm the transaction. This will be our Collateral.



- Then go to the “Transactions” tab and wait for at least 1 confirmation of the last transaction. After at least 1 confirmation of the last transaction is displayed, go to the wallet console and enter the command:

evoznod outputs

You will receive in response

```
"b9e0398c7ba97dc9b652032e0a36edeec194c368ce0b14445edb2643ea547e73": "0"
```

where

```
collateralHash: it's - b9e0398c7ba97dc9b652032e0a36edeec194c368ce0b14445edb2643ea547e73
```

```
collateralIndex: it's - 0
```

Be sure to write down this information in a notepad.

6. Next in the wallet console you need to enter the command:

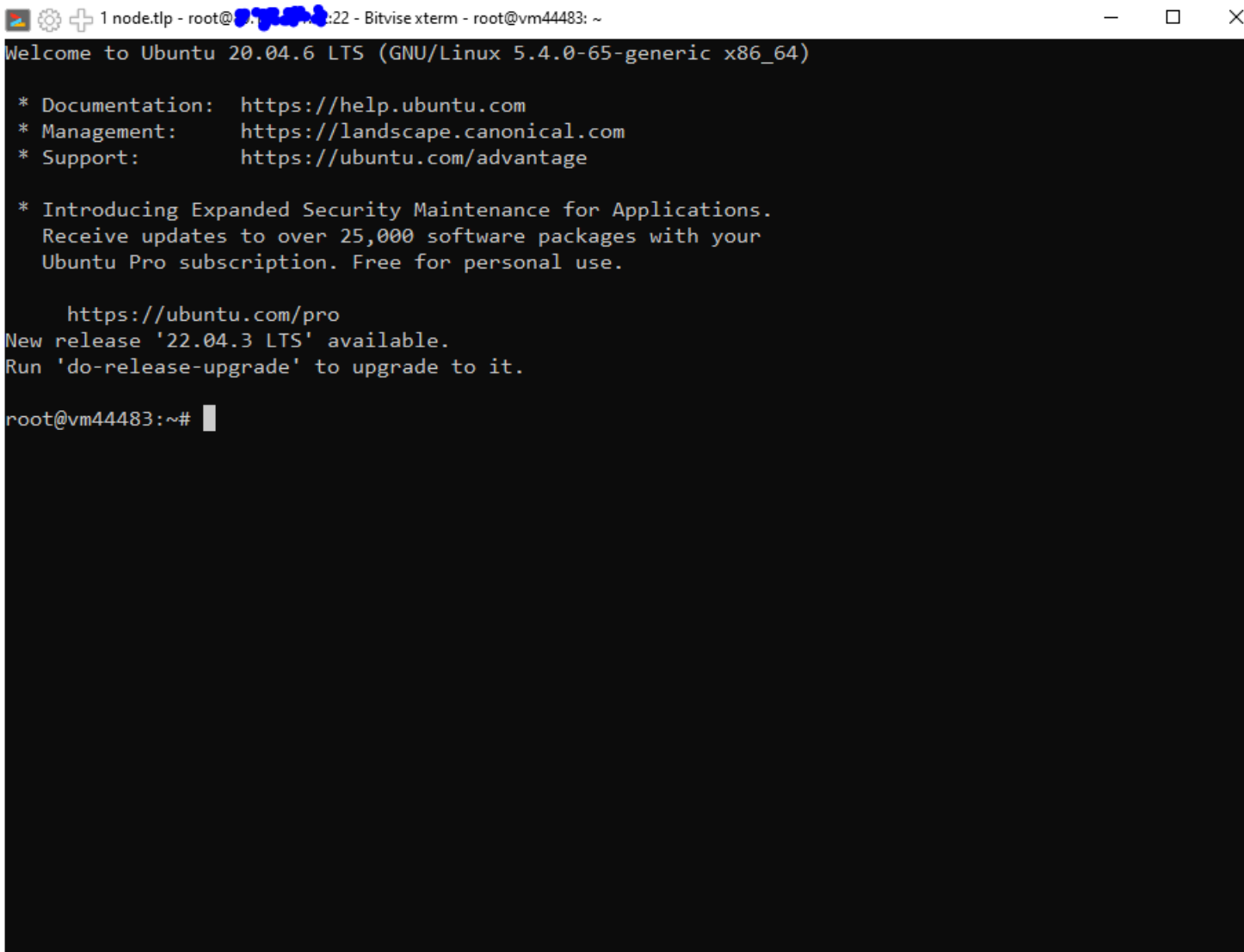
bls generate

in response you will receive this:

```
"secret": "1d9d6c2159e0c1baad3fdyyxyy0515bfd897980267e28f21503084dxxxxxx1",  
"public": "0e03ee31937985dd46a37931816606aecf0d121ea739dee3f1e643c045d378d09a5cc4add3ce76e1566f5cce1ed6e77f"
```

Be sure to write down this information in a notepad.

7. Now it's time to connect to the VPS server and open the terminal console.



```
1 node.tlp - root@192.168.1.22 - Bitvise xterm - root@vm44483: ~
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-65-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 * Introducing Expanded Security Maintenance for Applications.
   Receive updates to over 25,000 software packages with your
   Ubuntu Pro subscription. Free for personal use.

   https://ubuntu.com/pro
New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

root@vm44483:~#
```

Type the command (you can just paste with the right mouse button) and press Enter:

```
git clone https://github.com/Kiirocoin/kiiro-node-1-click-install.git && sudo bash kiiro-node-1-click-install/install.sh
```

If you receive this in response:

Command 'git' not found, but can be installed with:

```
apt install git
```

then you need to first run the command:

```
apt install git
```

During installation you need to enter: **Y** and press Enter to confirm the installation.

if at the end it gives this error:

Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?

Then you need to run the command:

```
apt-get update
```

Wait for the installation to complete and reinstall apt install git:

apt install git

Confirm installation Y. After this you will see how this module will be installed.

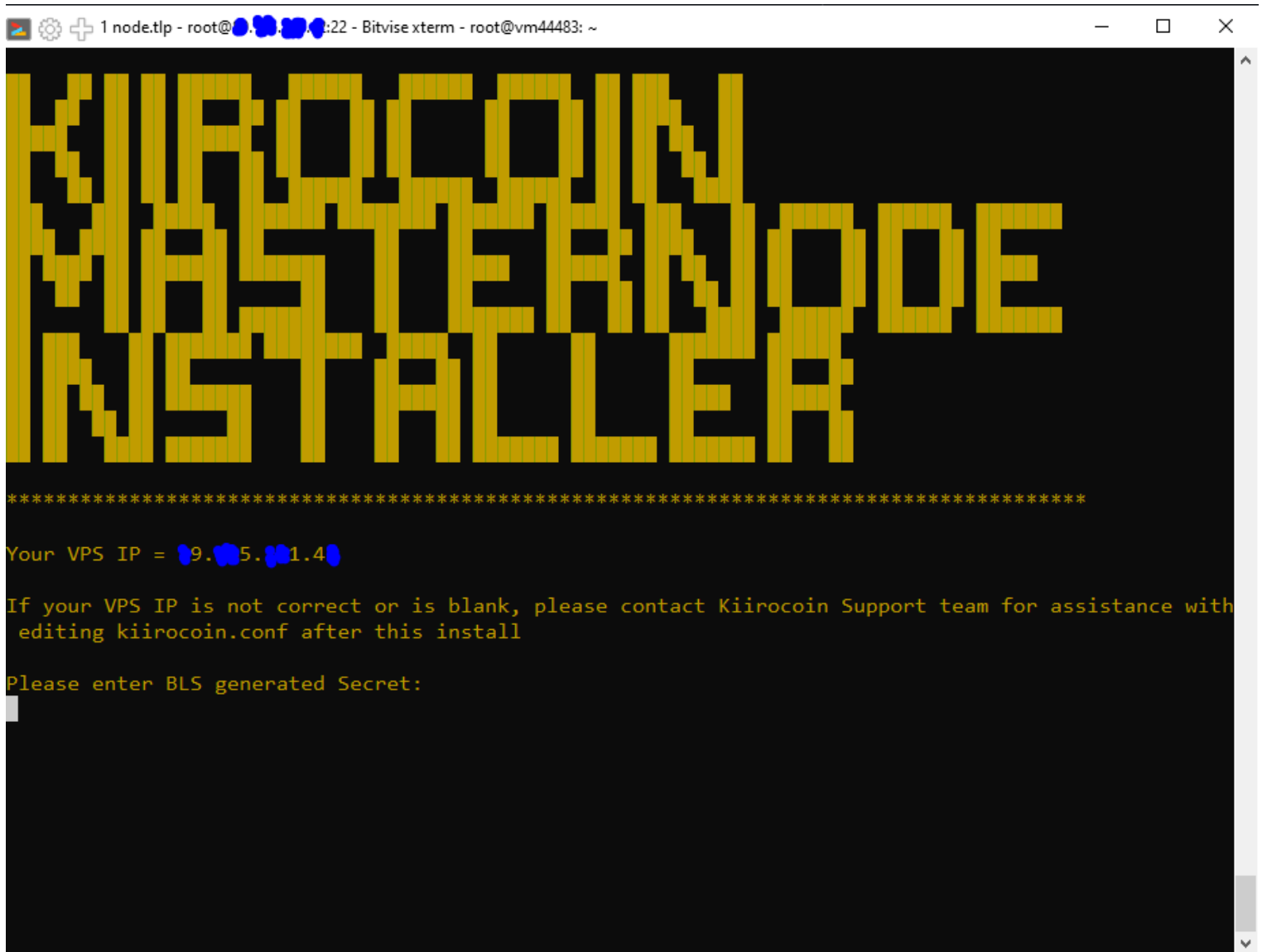
.....

After that, re-enter the command:

git clone <https://github.com/Kiirocoin/kiiro-node-1-click-install.git> && sudo bash kiiro-node-1-click-install/install.sh

after this the process of installing the Masternode on the VPS server will begin.

Next you will need to enter the Secret code from the 6th step of this instruction. Just copy and paste the Secret code into this window and press Enter. The secret code must be enclosed in quotation marks.



The Masternode will be installed within a few minutes, at the end of the process you will see the following information:

```
1 node.tlp - root@.22 - Bitvise xterm - root@vm44483: ~
INSTALLER
*****
Install of Masternode is complete.
Starting Masternode and waiting 10 seconds
Running kiirocoin-cli evoznode status
{
  "outpoint": "COutPoint(0000000000000000000000000000000000000000000000000000000000000000, 4294967295)",
  "service": "[:]:0",
  "state": "WAITING_FOR_PROTX",
  "status": "Waiting for ProTx to appear on-chain"
}
If you do not see ready then run the following command again in 30 minutes:
sudo kiirocoin-cli evoznode status
If you are receiving an error, you may have not properly registered Masternode or entered wrong information in beginning of install script
Reach out to us on Discord if you need any help
https://discord.gg/g88D2RP9
root@vm44483:~#
```


To display the state of a node, you can enter the command:

kiirocoin-cli evoznode status

To display the state of the blockchain that is currently uploaded to your server:

kiirocoin-cli getinfo

Within about 10-30 minutes the entire block chain will be uploaded to your server. This can be tracked if you periodically enter the command **kiirocoin-cli getinfo**



```
root@vm44483:~# kiirocoin-cli getinfo
{"walletversion": 130000,
"balance": 0.00000000,
"blocks": 14931,
"timeoffset": 0,
"connections": 8,
"proxy": "",
"difficulty": 21333.60036955906,
"testnet": false,
"keypoololdest": 1701268833,
"keypoolsize": 101,
"paytxfee": 0.00000000,
"mininput": 0.00001000,
"relayfee": 0.00001000,
"errors": ""
}
root@vm44483:~# kiirocoin-cli getinfo
{
"version": 1000004,
"protocolversion": 90031,
"walletversion": 130000,
"balance": 0.00000000,
"blocks": 17518,
"timeoffset": 0,
"connections": 8,
"proxy": "",
"difficulty": 13781.17041553024,
"testnet": false,
"keypoololdest": 1701268833,
"keypoolsize": 101,
"paytxfee": 0.00000000,
"mininput": 0.00001000,
"relayfee": 0.00001000,
"errors": ""
}
root@vm44483:~#
```

8. The last step remains. You need to register a node on the network. To do this, let's create a pre-prepared command in our notepad:

```
protx register collateralHash collateralIndex ipAndPort ownerAddress operatorPubKey
votingAddress operatorReward payoutAddress feeSourceAddress
```

where:

collateralHash: ID transaction of your 3000 KIIRO collateral (from "evoznod outputs") can be found in step 5

collateralIndex: transaction index of your collateral (from "evoznod outputs") can be found in step 5

ipAndPort: Your VPS server IP address and port:8999 (written in the form: xx.xx.xx.xx:8999)

ownerAddress: owner1, obtained in step 1

operatorPubKey: "public" code received in response to the command "bls generate" in step 6

votingAddress: "" (just 2 quotes without a space between them or the same address as owner1, obtained in step 1)

operatorReward: 0

payoutAddress: payout1 address, obtained in step 1

feeSourceAddress: fee1 address, obtained in step 1. The fee for registering and unbanning the node will be debited from him.

Each item of the **protx register** command entered after 1 space.

As a result, the command that you enter into the wallet console to register a node should look like this:

```
protx register b9e0398c7ba97dc9b652032e0a36edeec194c368ce0b14445edb2643ea547e73 0 x9.xx5.xx1.4x:8999
KHkQXNzVNa8DAVUC5nSAxmc1UtXAeGrCLV
0e03ee31937985dd46a37931816606aecf0d121ea739dee3f1e643c045d378d09a5cc4add3ce76e1566f5cce1ed6e77f "" 0
KUXeCXkHYVBdMADLsFiesgCZmUYZnHHNX8 KJwH5NVRUxCxy4vodfLjFR1j7P9DEaQpqa
```

But before that, you need to unlock your wallet, to do this, enter the following command in the wallet console:

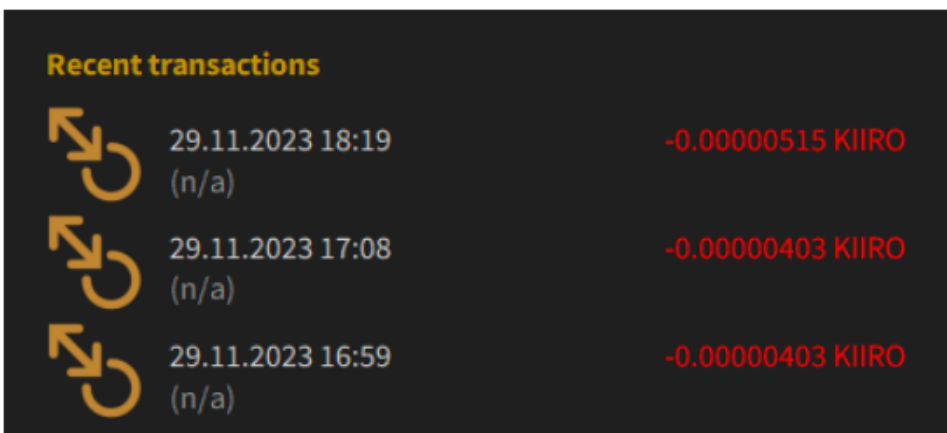
```
walletpassphrase YOURPASSWORD 60
```




where 60 is the time in seconds during which your wallet will be unlocked. You can use 120 or 150 instead of 60.

If you have successfully unlocked your wallet and correctly entered the long command 'protx register', then you should be charged a commission for registering a node from the address fee1 and in response the console will give you your ProTxHash - it will also need to be written down in a notepad.

Wait for one confirmation of the last transaction. After this, your node will be displayed in the Masternodes tab. For convenience, you can check the box next to "My masternodes only". If you double-click on your node with the left mouse button, you will see all the data about it.

Total blockchain commission fees for the entire process amounted to:



Recent transactions		
	29.11.2023 18:19 (n/a)	-0.00000515 KIIRO
	29.11.2023 17:08 (n/a)	-0.00000403 KIIRO
	29.11.2023 16:59 (n/a)	-0.00000403 KIIRO

After the node on the VPS server has downloaded the entire chain of blocks into itself, only after that it will go into working mode. The Masternode status on the VPS server can be checked with the command **kiirocoin-cli evoznode status**

You must see:

```
"state": "READY",
"status": "Ready"
```