# System requirements

The VPS you plan to install your masternode on needs to have at least 1GB of RAM and 10GB of free disk space. We do not recommend using servers who do not meet those criteria, and your masternode will not be stable. We also recommend you do not use elastic cloud services like AWS or Google Cloud for your masternode - to use your node with such a service would require some networking knowledge and manual configuration. Better use Ubuntu 16.04

Funding your Masternode

- First, we will do the initial collateral TX and send exactly 10000 ARKT to one of our addresses. To keep things sorted in case we setup more masternodes we will label the addresses we use.
- Open your Arktur wallet and open debug console.
- Type **getaccountaddress MN1**
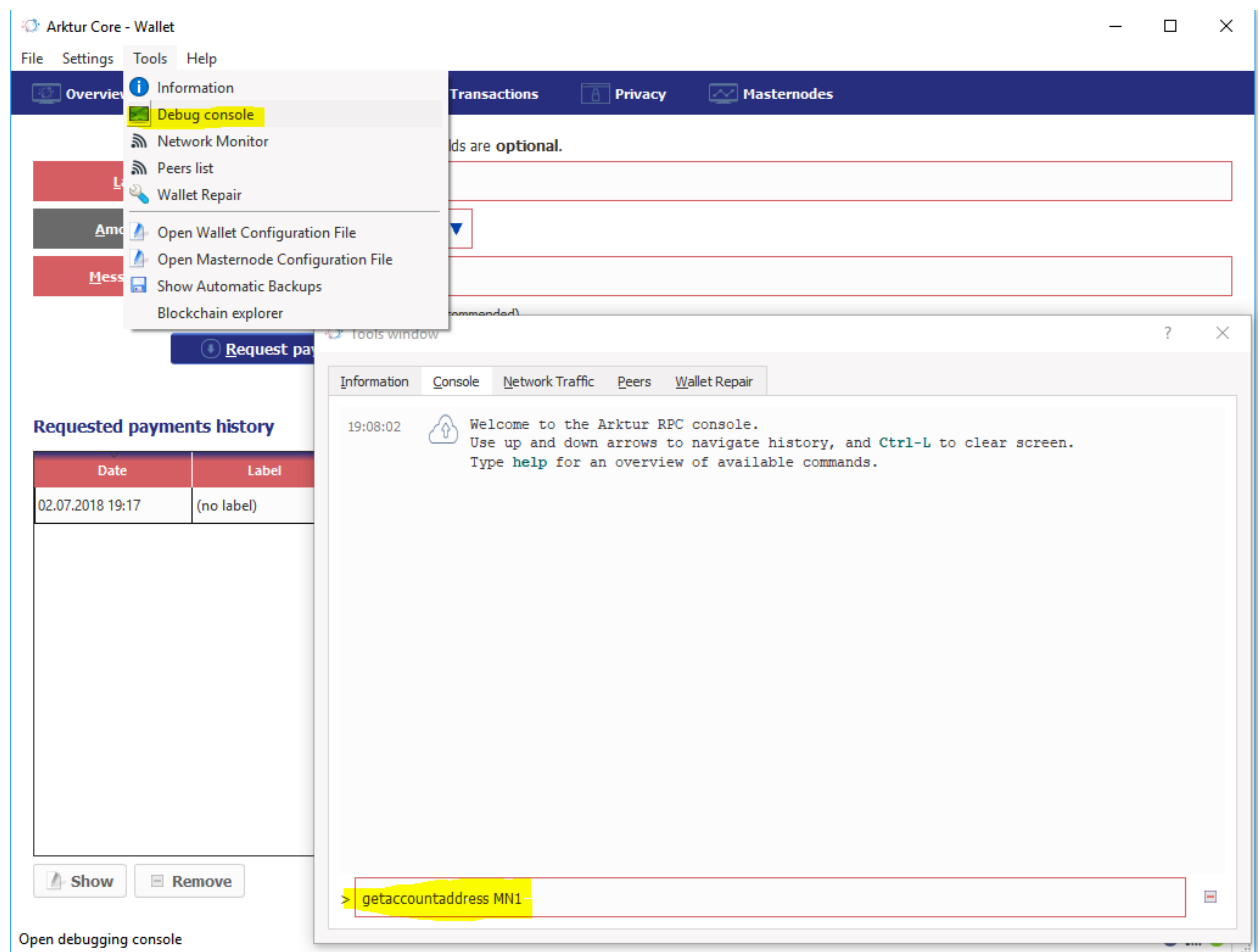
- The generated address will now be labelled as MN1 If you want to setup more masternodes just repeat the steps so you end up with several addresses for the total number of nodes you wish to setup. Example: For 10 nodes you will need 10 addresses, label them all.
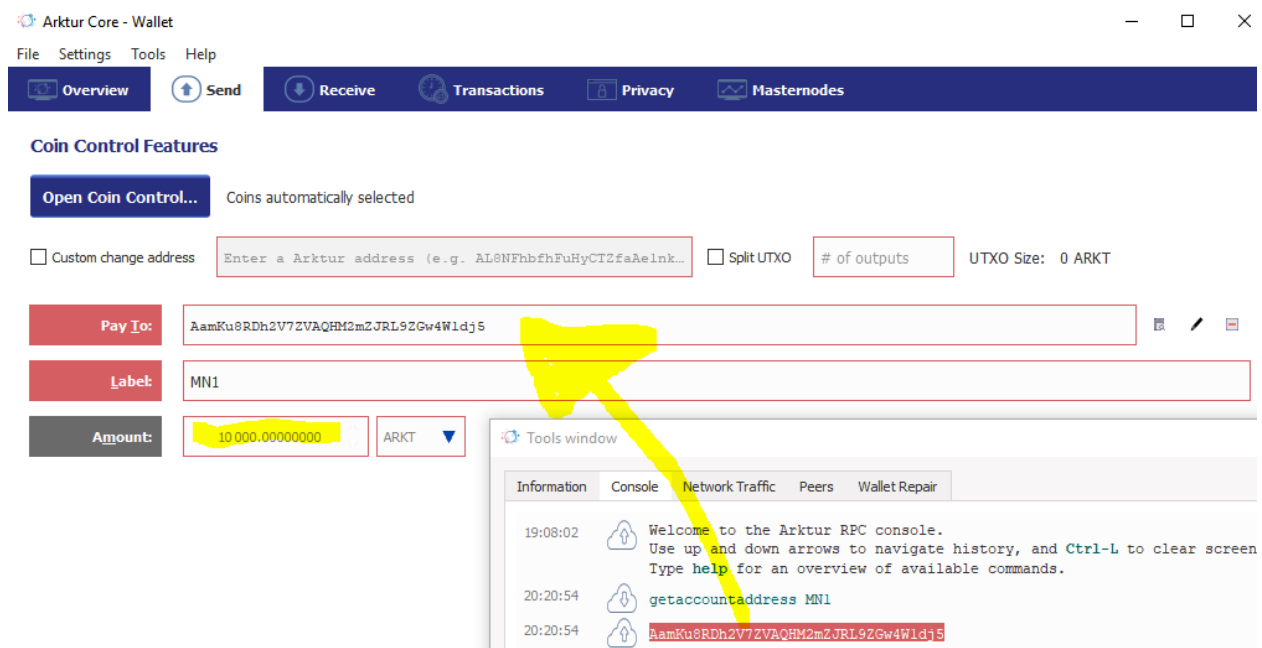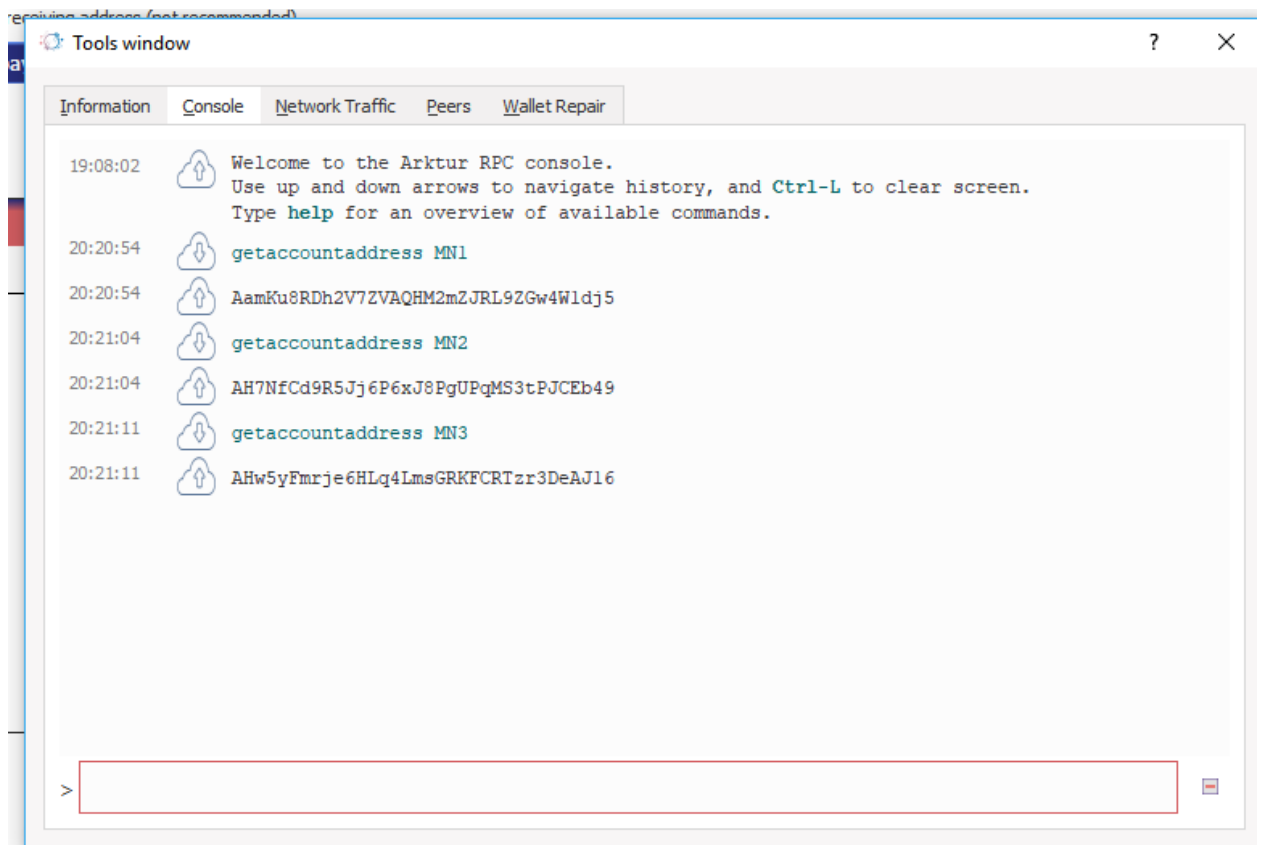
- Once all addresses are created send 10000 ARKT each to them. Ensure that you send exactly 10000.000 ARKT and do it in a single transaction. You can double check where the coins are coming from by checking it via coin control usually, that's not an issue. You need at least 1 confirm to see that.
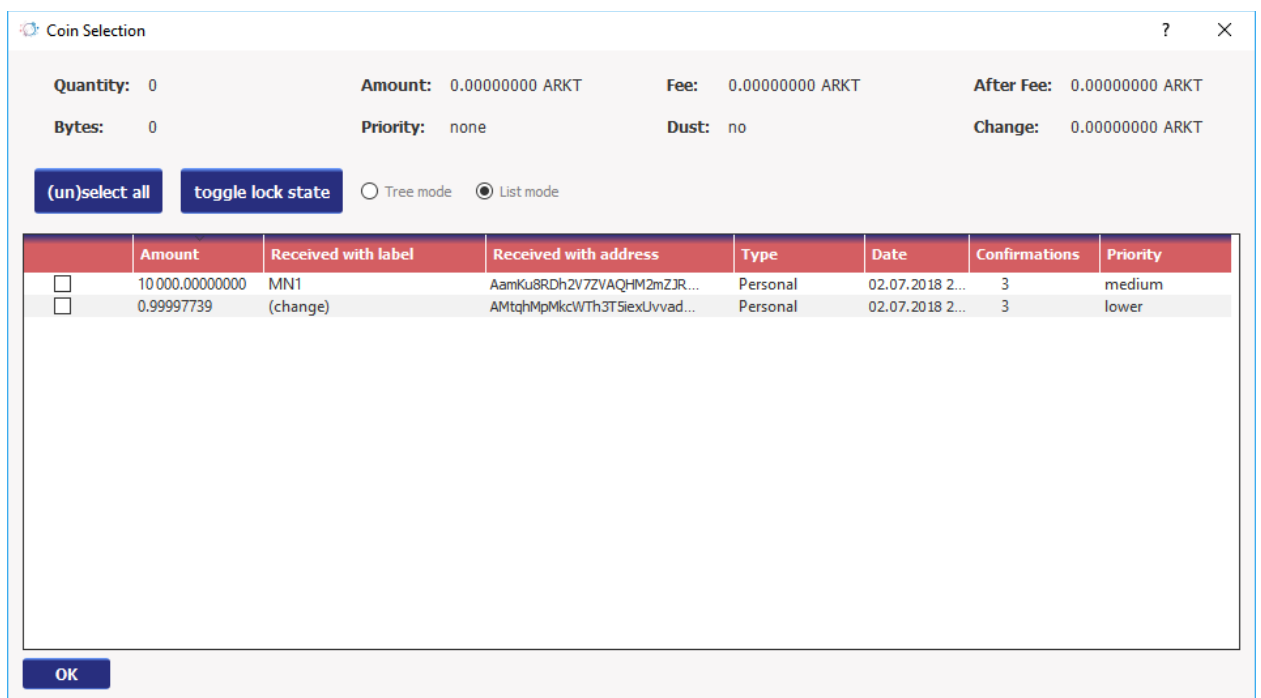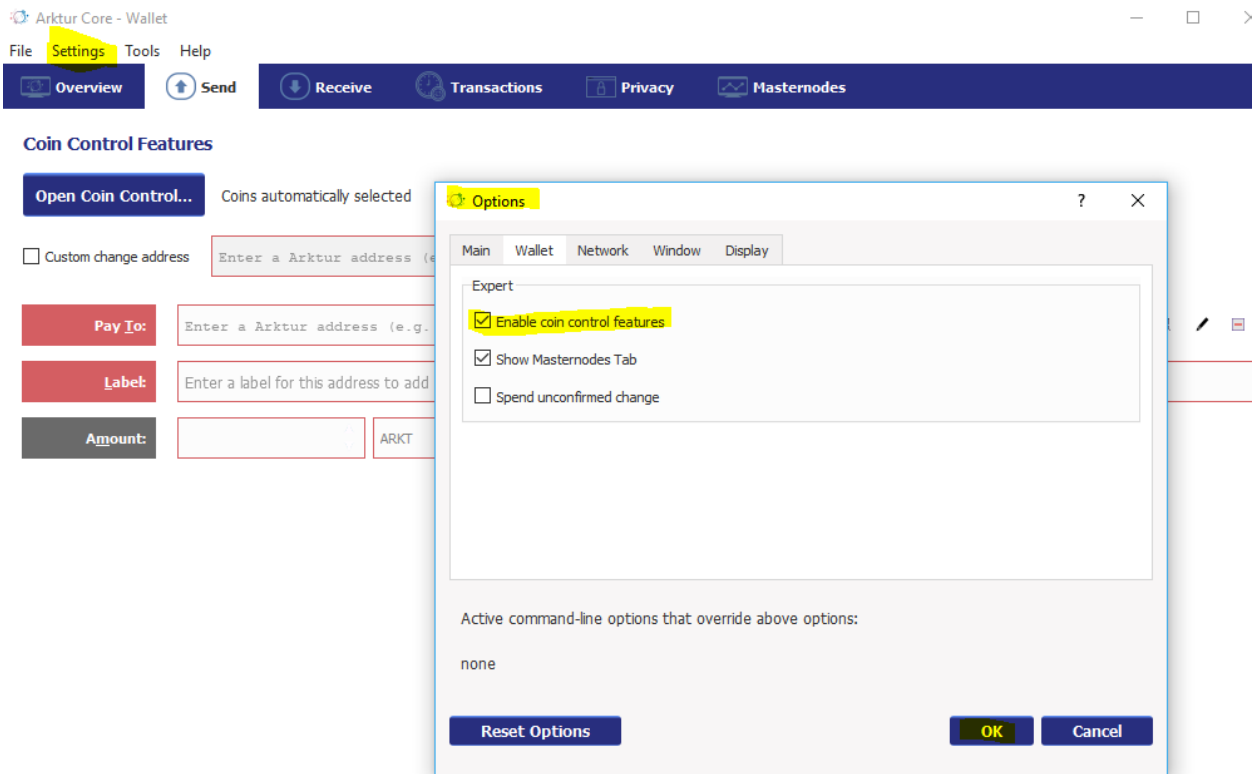
As soon as all transactions are done, **will wait for 15 confirmations**. You can check this in your wallet or use the explorer. It should take around 30 minutes if all transaction have 15 confirmations.

Installation & Setting up your Server

SSH (Putty on Windows, Terminal.app on macOS) to your VPS, login as root (**Please note:** It's normal that you don't see your password after typing or pasting it) and run the following command:

```
bash <( curl
https://raw.githubusercontent.com/mrkss21/arktur/master/install.sh )
```


If you get the error "bash: curl: command not found", run this first: `apt-get -y install curl`

After install done, you will see next:

You have to copy Yellow line to masternode.conf file

Open Masternode configuration file in you wallet (you can find also this file here - \%appdata%\arktur in windows address line)
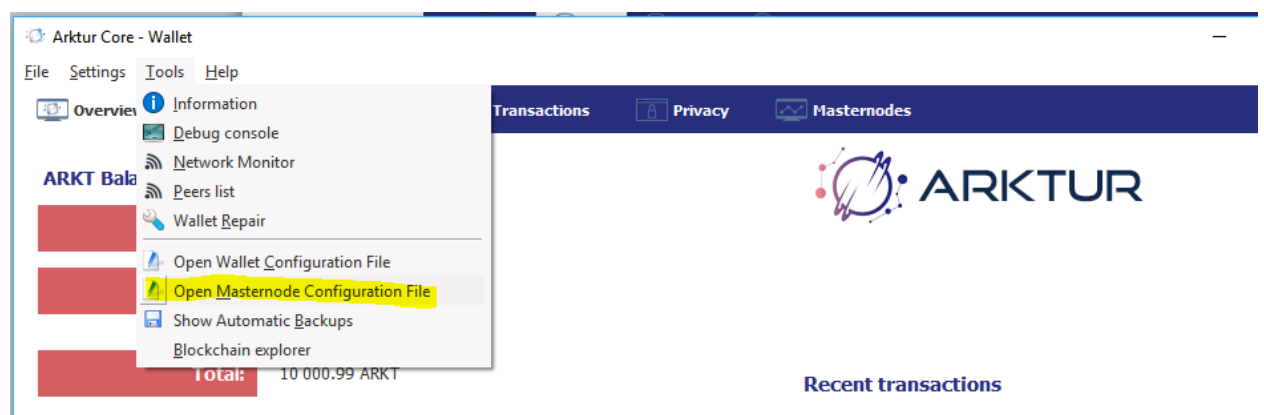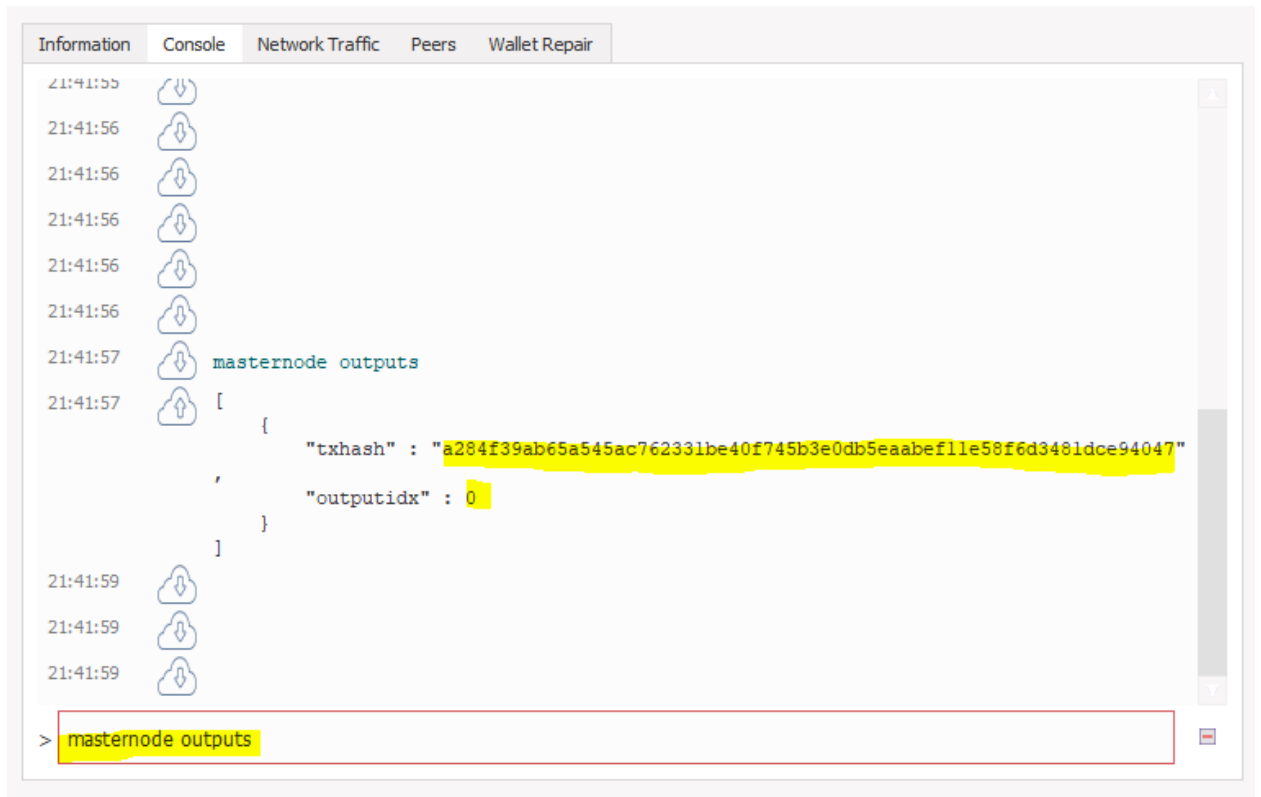

Now copy your yellow line to masternode.conf file

Run this command to get your output information in console:

```
masternode outputs
```

Add the output information to a conf file in single line.

An example would be

```
Masternodename ipaddress:40001 genkey txhash outputidx

MN 82.120.10.2:40001 92GScFJBkFcBKBfrvghpD8ido7wYz2m6ZbJ7uX8qjZzW1b2casP
a284f39ab65a545ac762331be40f745b3e0db5eaabef11e58f6d3481dce94047 0
```

masternodename is a name you choose, *ipaddress* is the public IP of your VPS,
masternodeprivatekey is the output from *masternode genkey*, and *txhash & outputidx* come
from `masternode outputs`. Please note that *masternodename* must not contain any spaces, and
should not contain any special characters.

Restart and unlock your wallet.

Go to VPS now.

Make sure that wallet sync and block is like in explorer. Use this command to check:

arktur-cli getinfo | grep blocks

```
arktur-cli getinfo | grep blocks

-=####.3.####=- Start node on wallet and check status with this command:

arktur-cli masternode status
root@26:~# arktur-cli getinfo | grep blocks
    "blocks" : 16817,
root@26:~# arktur-cli getinfo | grep blocks
    "blocks" : 19157,
root@26:~#
```

you can check actual block in http://explorer.arktur.cc/

Now you can start your masternode (hope you didn't forget restart wallet)

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Note: Status of your masternodes in local wallet can potentially be slightly incorrect.
Always wait for wallet to sync additional data and then double check from another node
if your node should be running but you still see "MISSING" in "Status" field.

Alias	Address	Protocol	Status	Active	Last Seen (UTC)	Pubkey
MN	80....40001	-1	MISSING	00m:00s	1970-01-01 00:00	

Confirm masternode start ×

? Are you sure you want to start masternode MN?

Yes   Cancel

| Start alias | Start all | Start MISSING | Update status | Status will be updated automatically in (sec): 2 |

ARKT

Arktur-Qt ×

Alias: MN
Successfully started masternode.

OK

File   Settings   Tools   Help

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Note: Status of your masternodes in local wallet can potentially be slightly incorrect.
Always wait for wallet to sync additional data and then double check from another node
if your node should be running but you still see "MISSING" in "Status" field.

Alias	Address	Protocol	Status	Active	Last Seen (UTC)	Pubkey
MN	80........:40001	70005	ENABLED	00m:00s	2018-07-02 19:12	A...Ku8RD.....EWAQ.....URL

Go to VPS and check status with this command:

arktur-cli masternode status

```
root@26:~# arktur-cli getinfo | grep blocks
    "blocks" : 19157,
root@26:~# arktur-cli masternode status
{
    "txhash" : "a284f                          76222lb 406745L      e94047",
    "outputidx" : 0,
    "netaddr" : "80.            0001",
    "addr" : "Aa                         dj5",
    "status" : 4,
    "message" : "Masternode successfully started"
}
root@26:~#
```

Congratulations!