

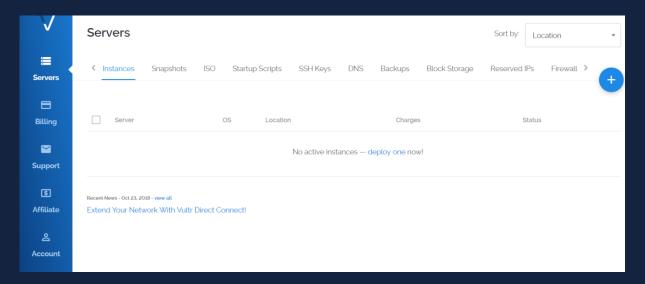


Masternode Setup in VPS server

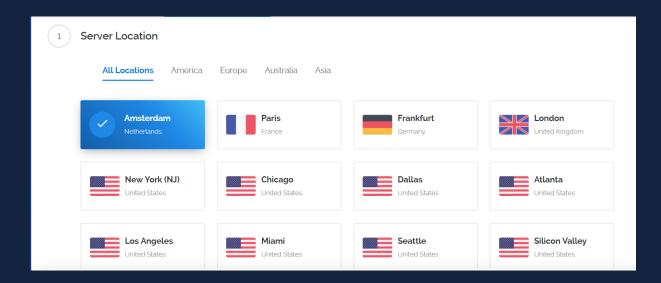
In order to start up MasterNode and Sentinel, the user must possess at least 10000 PSC

You can use any VPS Server (10 GB HDD/1 CPU/512MB Memory) or better. As an example, we will use Vultr.

- 1. Firstly, go to Vultr and create an account: https://www.vultr.com/?ref=7574637
- 2. Click on the + to deploy new server.

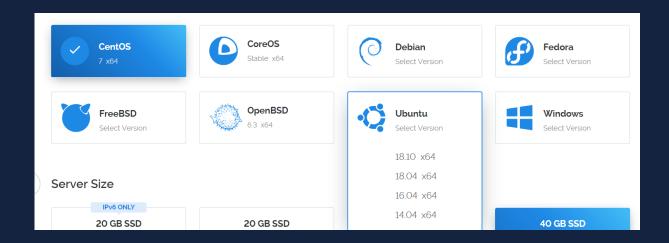


3. Indicate your "Server Location" by choosing the closest place to you.

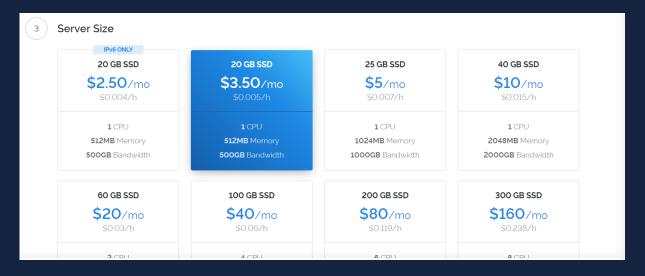




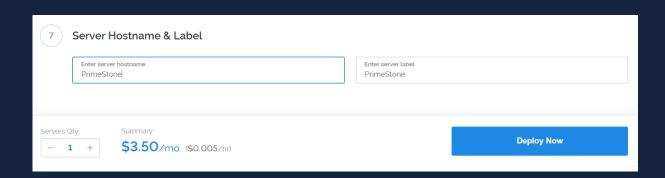
4. Choose "Server Type", then choose "Ubuntu 16.04 X64 (recommended) or Ubuntu 18.04 X64"



 Choose "Server Size", usually the most basic size will do, choose "20 GB SSD/1 CPU/512MB Memory/500GB Bandwidth".

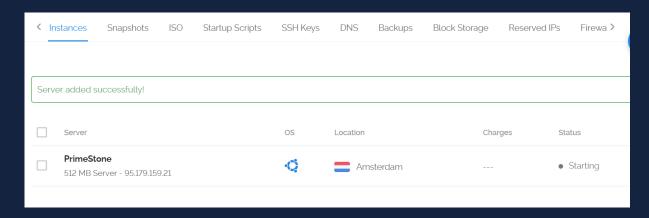


6. On "Server Hostname & Label", put the name you want for your VPS and click "Deploy Now".

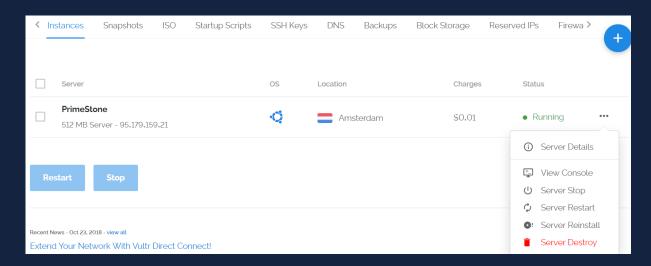




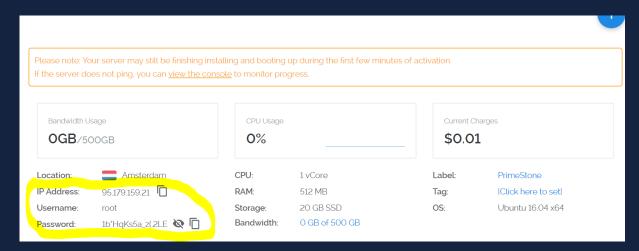
7. If everything is done properly, you should have such a window in front of you:



8. Click "Server Details"

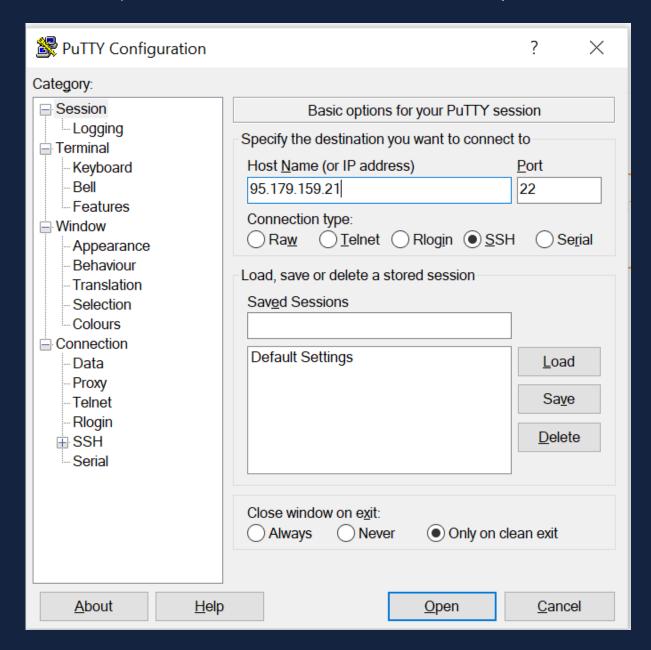


9. Save the following data, you will need it later:





10. In order to connect to the server, make use of Putty (download: https://www.putty.org/). In the field "Host Name" you need to enter an IP address of a created server, then click Open.



11. To log in to the server, data from the point 9 need to be entered (in Ubuntu, while entering your password, nothing appears).



12. After the correct logging, such a window should appear:

```
login as: root
root@95.179.159.21's password:
Welcome to Ubuntu 16.04.4 LTS (GNU/Linux 4.4.0-127-generic x86_64)

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

107 packages can be updated.
57 updates are security updates.

root@PrimeStone:~#
```

13. Paste the following command in the open window, then confirm with [Enter] key:

apt-get update -y && cd ~/ && sudo apt-get install curl -y && bash <(curl -s http://scripts.primestone.global/prime IPv4.sh) | tee ~/prime masternode installation.log

For IPv6:

apt-get update -y && cd ~/ && sudo apt-get install curl -y && bash <(curl -s http://scripts.primestone.global/prime_IPv6.sh) | tee ~/prime_masternode_installation.log

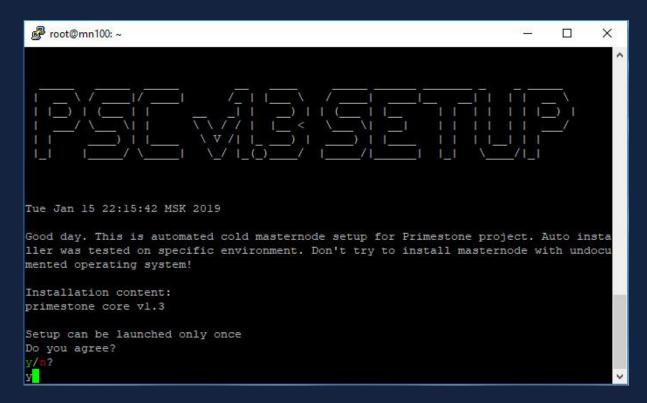
ATTENTION! Some users have a problem with copying data from a PDF document opened in a browser. Download the document and open it with any PDF view EXCEPT your browser

The installation will start.

```
root@PrimeStone: ~
                                                                                              X
Unpacking libminiupnpc10:amd64 (1.9.20140610-2ubuntu2.16.04.2) ... Selecting previously unselected package libminiupnpc-dev.
Preparing to unpack .../libminiupnpc-dev_1.9.20140610-2ubuntu2.16.04.2_amd64.deb
Unpacking libminiupnpc-dev (1.9.20140610-2ubuntu2.16.04.2) ...
Selecting previously unselected package libsodium18:amd64.
Preparing to unpack .../libsodium18 1.0.8-5 amd64.deb ...
Unpacking libsodium18:amd64 (1.0.8-\overline{5}) ...
Selecting previously unselected package libzmq5:amd64.
Preparing to unpack .../libzmq5_4.1.4-7_amd64.deb ...
Unpacking libzmq5:amd64 (4.1.4-7) ...
Selecting previously unselected package libzmq3-dev:amd64.
Preparing to unpack .../libzmq3-dev_4.1.4-7_amd64.deb ...
Unpacking libzmq3-dev:amd64 (4.1.4-7) ...
Processing triggers for libc-bin (2.23-0ubuntu10) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up libminiupnpc10:amd64 (1.9.20140610-2ubuntu2.16.04.2) ...
Setting up libminiupnpc-dev (1.9.20140610-2ubuntu2.16.04.2) ...
Setting up libsodium18:amd64 (1.0.8-5) ...
Setting up libzmq5:amd64 (4.1.4-7) ...
Setting up libzmq3-dev:amd64 (4.1.4-7)
Processing triggers for libc-bin (2.23-Oubuntu10) ...
```



14. In the next step, you need to confirm that you are installing the PSC masternode to this VPS server for the first time. Press y and then confirm with [Enter] key.



15. In the next step, you need check your VPS IP, if he is correct press y and then confirm with [Enter] key.

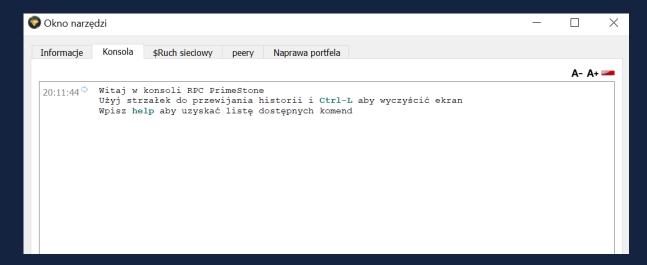
```
root@mn100: ~
                                                                                X
                                                                          Tue Jan 15 22:41:38 MSK 2019
Good day. This is automated cold masternode setup for Primestone project. Auto i
nstaller was tested on specific environment. Don't try to install masternode wit
h undocumented operating system!
Installation content:
primestone core v1.3
Setup can be launched only once
Do you agree?
y/11?
Hit:1 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Fetched 216 kB in 2s (103 kB/s)
Reading package lists...
Your external IP is 95.179.159.21 y/n?
```



16. Now, we can move to MasterNode configuration. We must come back to our main computer and download a PrimeStone Wallet. Source: https://primestone.global/whitepaper-applications/ When this file is downloaded and unzipped launch **primestone-qt**

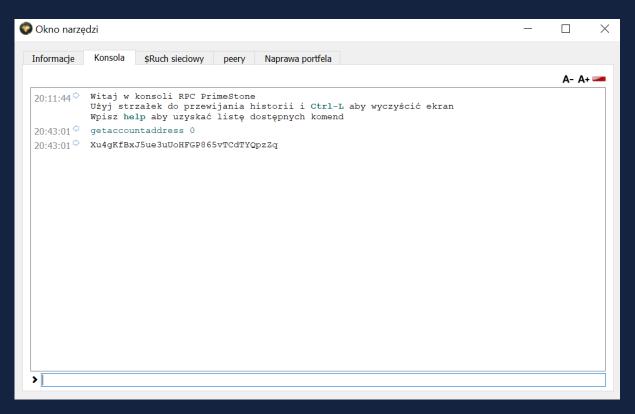
Nazwa	Data modyfikacji	Тур	Rozmiar
primestone-cli	08.09.2018 17:50	Aplikacja	4 568 KB
primestoned	08.09.2018 17:50	Aplikacja	15 236 KB
primestone-qt	08.09.2018 17:50	Aplikacja	43 277 KB
primestone-tx	08.09.2018 17:50	Aplikacja	5 654 KB

17. Run console, for this we choose Tools – Debug Console.

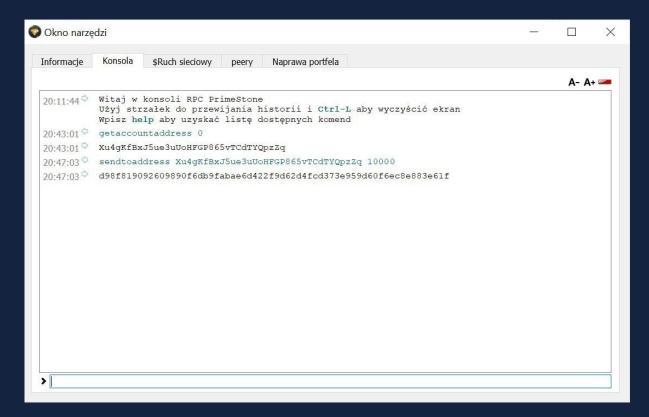




18. Enter getaccountaddress 0.



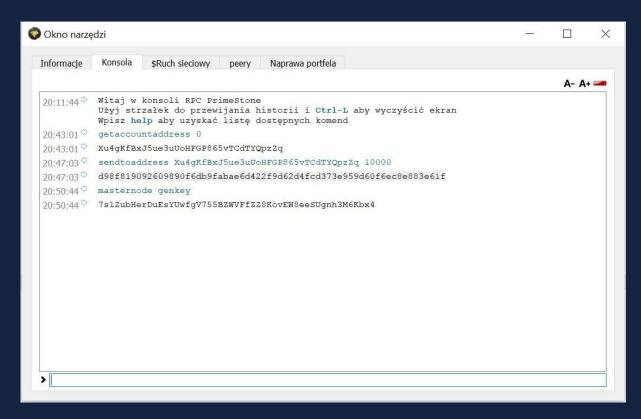
19. Then transfer 10000 PSC on the address from the point 18. For this enter the command: sendtoaddress [Address from point 19] 10000



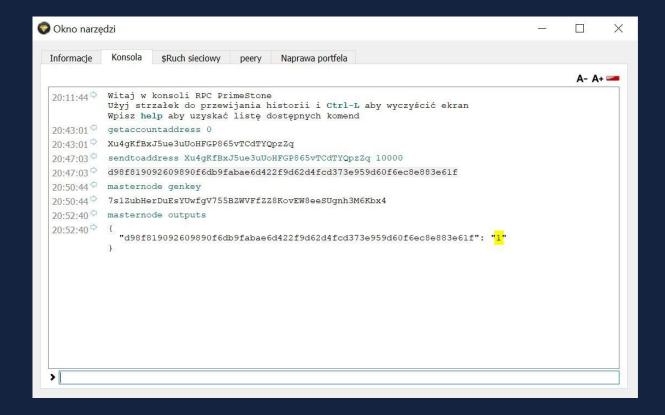
20. Save **TX** – that is viewed when the command (point 20) has been successfully accomplished. In our case it is: d98f819092609890f6db9fabae6d422f9d62d4fcd373e959d60f6ec8e883e61f



21. Then enter the command **masternode genkey** and save a generated key.



22. Then enter the command masternode outputs and save the number marked yellow:





- 23. Edit the file masternode.conf, for this click Tools Open MasterNode Configuration File
- 24. Enter the following text in the open file:

 [masternode_name] [vps_ip_address]:34124 [masternode_key(point 21)] [TX (point 20)]

 [output_index(point 22)

In our case it looks like this:

```
masternode.conf — Notatnik

Pikk Edyda Format Widok Pomoc

# Masternode config file

# Format: alias IP:port masternodeprivkey collateral_output_txid collateral_output_index

# Example: mn1 127.0.0.2:34124 93HaYBVUCYjEMeeH1Y4sBGLALQZE1YC1K64xiqgX37tGBDQL8Xg 2bcd3c84c84f87eaa86e4e56834c92927a07f9e18718810b92e0d0324456a67c 0

mn1 95.179.159.21:34124 7s1ZubHerDuEsYUwfgV755BZWVFFZZ8KovEW8eeSUgnh3M6Kbx4 d98f819092609890f6db9fabae6d422f9d62d4fcd373e959d60f6ec8e883e61f 1
```

- 25. Save the file and close the wallet.
- 26. Come back to VPS. If the installation is complete you will see a request, paste MASTERNODE KEY (point 21) and then confirm with [Enter] key.

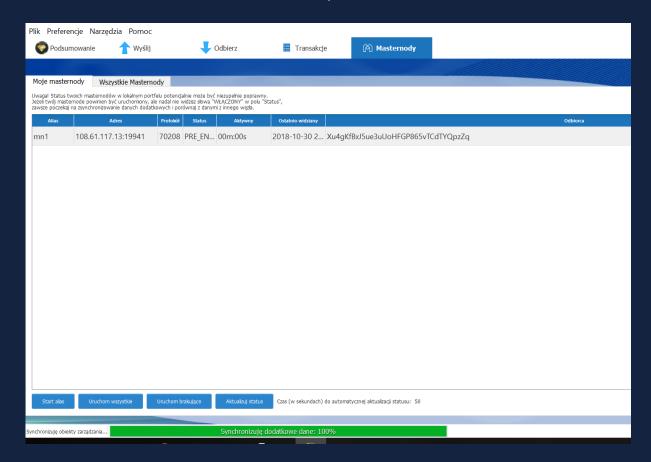
In our case it looks like this:

```
@ root@mn100: ~
                                                                           X
Restart=always
RestartSec=3600
TimeoutStopSec=60s
TimeoutStartSec=10s
StartLimitInterval=120s
StartLimitBurst=5
[Install]
WantedBy=default.target
Created symlink from /etc/systemd/system/default.target.wants/primecore.service
to /etc/systemd/system/primecore.service.
Please wait for few minutes...
Shutting down daemon, reconfiguring primestone.conf, we want to know your cold w
allet masternodeprivkey (example: 7UwDGWAKNCAvyy9MFEnrf4JBBL2aVaDm2QzXqCQzAugULf
7PUFD), please input now:
```

27. After a few seconds, the script will complete the installation and display the basic information.



28. Start a wallet on your computer and move to the MasterNode Tab, and then click **start all**. Remember, to make it work the wallet must be synchronised with network.



29. After 15 minutes, open VPS window and check primestoned daemon. Command:

primestone-cli masternode status

If everything is done, you should have status: "Masternode successfully started"

CONGRATULATIONS! Your masternode is fully configured.

Necessary commands

primestone-cli masternode status
primestone-cli getinfo
primestone-cli getblockcount
primestone-cli mnsync status