WHAT ARE SMARTNODES?

Lets explore this key feature of SmartNodes a little more in depth..

SmartNodes are servers that run a SmartCash wallet and make decisions, such as locking transactions with InstantPay. SmartNodes are required to have 10,000 SMART collateral, a dedicated VPS (IPv4 address, 1GB RAM, 20GB drive) and be able to run 24 hours a day without a more than two hour of connection loss. SmartNodes are paid at a rate of 10 nodes every other block, which means a payout will be 2% of the Block Reward for every Node.

SmartNodes enable the following services:

* InstantPay (Instant Transactions): Allows for SmartCash transactions to be locked in about a second. No risk of double spending a transaction, so the receiver can trust that transaction immediately.
* SmartRewards: SmartRewards are calculated by the SmartNodes to allow for distribution to be handled automatically by the block rewards.

HOW MUCH CAN I EARN FROM HOSTING A SMARTNODE?

SmartNodes are paid at a rate of 10 nodes every other block, which means a payout will be 2% of the Block Reward for every Node

Show Calculator

WHAT DO I NEED TO HOST A SMARTNODE?

* **10,000 Smart:** Arguably the hardest part. Smart can be obtained from exchanges such as **[CryptoBridge](https://crypto-bridge.org/), [HitBTC](https://hitbtc.com/SMART-to-BTC).** For the full list of places to obtain Smart click [**here**](https://smartcash.cc/get-smartcash/).
* **A computer** for running a local wallet to start nodes and hold funds
* **A VPS server** installed Ubuntu for remote node running 24hrs/day with the following specs:
  + 1GB RAM (about half used for OS and half for daemon)
  + 20GB drive (less than 1GB used for wallet, some for OS, and some for future.)
  + 1 Static IPV4 Address per node (IPV4 address that never changes) (No IPV6)
* **A little time:** Pick your time and follow this [**Setup Guide.**](https://smartcash.freshdesk.com/support/solutions/articles/35000084806-all-in-one-smart-node-guide)

SMARTNODES HOSTING SERVICES

* **SmartCash Hive Team is not officially involved in the provision of any of these services. Use it at your own risk.**
* **SmartNode shared hosting (less than 10,000 SMART) requires you to trust another party with your funds and is considered high risk.**
* **Hosted SmartNode services allow you to keep control of your private keys and you should not be asked for your private key. (SmartNode Genkey is not your private key and is required for hosting)**

A list of currently available masternode hosting services is available below.

SMARTNODES FAQ’S

**1.SmartNode Setup Guide**

**2.How can I speed up the blockchain syncing for my SmartNode?**

1.In VPS

Don’t need. SmartNodes should sync fast from a VPS

2. In Local Wallet

**3. Bash installer for smartnode on VPS**

This installer is only suitable for a dedicated vps. The anti-ddos script in this installer will disable all ports including the http, https and dns ports. It will only leave the smartnode port open as well as a custom port for SSH

**4.Common SmartNodes errors**

**Can’t type special characters**

Notes about console: The console software does not support cut & paste. You will need to key in login information directly. The software also uses the US character set. If you are using an international keyboard layout and are having trouble to key in the special characters used in passwords please switch to a US keyboard layout.

**EXPIRE**

Expired implies it is not communicating with other nodes, after a while it goes to expired. It could also happen if the node was not configured correctly. Its like a website timeout kind of. If it was enabled, and is now expired then its not communicating for some reason, if it was pre-enabled but went to expired, then its not configured correctly etc.

**NEW\_START\_REQUIRED**

Please check your storage space. We face this issue when we haven’t used the bash  installer from https://github.com/SmartCash/smartnode. The debug.log eat all space in storage, you have to create a crontab to rotate the log file

**Node status error “Not capable smartnode: Smartnode not in smartnode list”**

**You most likely haven’t applied the steps described in Section 9 of the Setup Guide correctly. The final steps after setting up the VPS are that you move to your desktop computer once again, edit the smartnode.conf there and finally start the node from your software wallet (SmartNodes tab).**

**Node status error “Not capable smartnode: Can’t detect valid external address …**

**Your hosting provider most likely doesn’t support automatic assignation of the external IP or IPv4. This issue has been reported with AWS (Amazon Web Services), among others. It can be solved by adding the following line to smartcash.conf on your VPS:externalip=PUT\_EXTERNAL\_IP\_OF\_YOUR\_NODE\_HERE**

**5.Do we have grace period in SmartNodes?**

Grace period for SmartNode downtime is two hours, so great for updates, reboot, launch smartnode etc and and you’re still all good

**6.When do SmartNode payments go out and how much?**

Starting with Block 545005. Payments take about approximately two days (based on the current node count). Each payment is about ~24 SMART and reduces a little over time.

**7.What address receives the SmartNodes payments?**

Same address that have 10000 smartcash in 1 input

**8. Do I have to leave my desktop wallet running?**

No, only VPS need to run 24/7

**9.What happen when public IP of VPS changed?**

VPS should have a static IP that never changes. If you move to a new VPS, then follow the setup guide and generate a new smartnode key, update local smartnode.conf and remote smartcash.conf

**10.Where do I get further support regarding SmartNodes?**

Please visit [**#smartnodes on Discord**](https://discord.gg/BDUh8jr), follow [**SmartCash support on Twitter**](https://twitter.com/smartcashassist) or consult our [**SmartCash support platform**](https://smartcash.freshdesk.com/)

**11.Setup cronjob to clear debug.log**