

This guide will let you receive notifications from your VPS . i have customized to send a status for the Master Node for every hour. You can add as many nodes you want.

- 1) Install pushbullet on smartphone you want to receive notifications
 - a) <https://www.pushbullet.com/>
- 2) Register for the free service.
- 3) Generate an API key to send notifications.
 - a) Go to pushbullet website and login to account
 - b) Go to settings
 - c) Click on create access token. It will give you an API key. Save this key.
- 4) Login to your VPS where you have masternode running.
- 5) Install curl by following commands
 - a) 'sudo apt-get update'
 - b) 'sudo apt-get install curl'
- 6) Create a scripts folder, 'mkdir scripts'
 - a) cd to that folder 'cd scripts'
- 7) Create a bash script to send notifications. Name it push.sh
 - a) Use any editor, most common are vi or nano.
 - b) Save the following text in that file

```
#!/bin/bash
curl -u <API KEY>: https://api.pushbullet.com/v2/pushes -d type=note -d title="$*
```
 - c) Replace the API key text above with the API key you generated for you account. Note the ':' after API key. Don't remove it.
 - d) Change mode to give executable permissions. 'chmod +x push.sh'
 - e) Test the notification. './push.sh this is test'
 - f) You should see that notification on your smartphone where you have pushbullet installed. Either in app, or regular notifications depending on the settings.
- 8) Create a script to get your masternode status. Name is monitor.sh
 - a) Save the following text in that file

```
#!/bin/bash
if [ ` $HOME/vivo/vivo-cli masternode list|grep < collateral_output_txid>| grep -vw
ENABLED |wc -l` -gt 0 ]
then
    echo VIVO ` $HOME/vivo/vivo-cli masternode list|grep < collateral_output_txid>|cut -f 2 -d
':' |xargs ./push.sh
fi
```
 - b) Replace the collateral_output_txidtext above with the tx id of your node.
 - c) Change mode to give executable permissions. 'chmod +x monitor.sh'
 - d) Test the script by running it. './monitor.sh'
 - e) You should receive a notification with the node status.
- 9) Next step is to automate this script.
 - a) Check if you have cron installed 'service cron status'

- i) If not installed, install using command 'sudo apt-get install cron'
- b) Add the script to cron
 - i) Run 'crontab -e'
 - ii) If this is first time, it will prompt to choose a text editor, use whatever you are comfortable .
 - iii) Add a line in the end of the file
'0 * * * * \$HOME/scripts/monitor.sh'
 - iv) Save the file. And you are all set. It will run the script automatically every hour and push a notification.

New Steps to check for monitoring the block chain progress and send alert if it did not move for 1 hour.
Assuming you already have setup as mentioned above.

- 1) Login to VPS
- 2) Create a logs folder. 'mkdir logs'
- 3) Go to scripts folder and create a new file monitor_blockchain.sh
- 4) Copy the following text

```
#!/bin/bash
oldblk=`cat $HOME/logs/vivo.blk`

cur_blk=`$HOME/vivo/vivo-cli getinfo | grep blocks|cut -f 2 -d ':'|tr -d [:punct:] | tr -d [:space:]`

if [ $cur_blk -gt $oldblk ]
then
    echo $cur_blk > $HOME/logs/vivo.blk
else
    $HOME/scripts/push.sh VIVO STUCK
fi
```

- 5) save the file. And give executable permission. 'chmod +x monitor_blockchain.sh'
- 6) test the file by running ./monitor_blockchain.sh
- 7) the first time, you will see Stuck as it will create necessary files.
- 8) add it to cron. ' crontab -e'
 - Add the following line '15 * * * * \$HOME/scripts/monitor_blockchain.sh'
- 9) save the file.
- 10) you are all set, and if the blockchain did not move for an hour, you will see an alert

Donations are welcome, if this helped you.

ViVo address : **VSt7VqpKPoqSPB2E5X1CqA5LM31n8D5BwL**