



# **SENTINEL GUIDE**

**For Linux**

# Install Sentinel

- a) Login to your VPS using PUTTY.
- b) Make sure Python version 2.7.x or above is installed:

```
python --version
```

```
cd /root/nyx
```

- c) Installation:

```
apt-get update
```

```
apt-get -y install python-virtualenv
```

```
git clone https://github.com/nyxpay/sentinel.git && cd sentinel
```

```
apt install virtualenv
```

(Press Y and ENTER when prompted)

```
virtualenv ./venv
```

```
./venv/bin/pip install -r requirements.txt
```

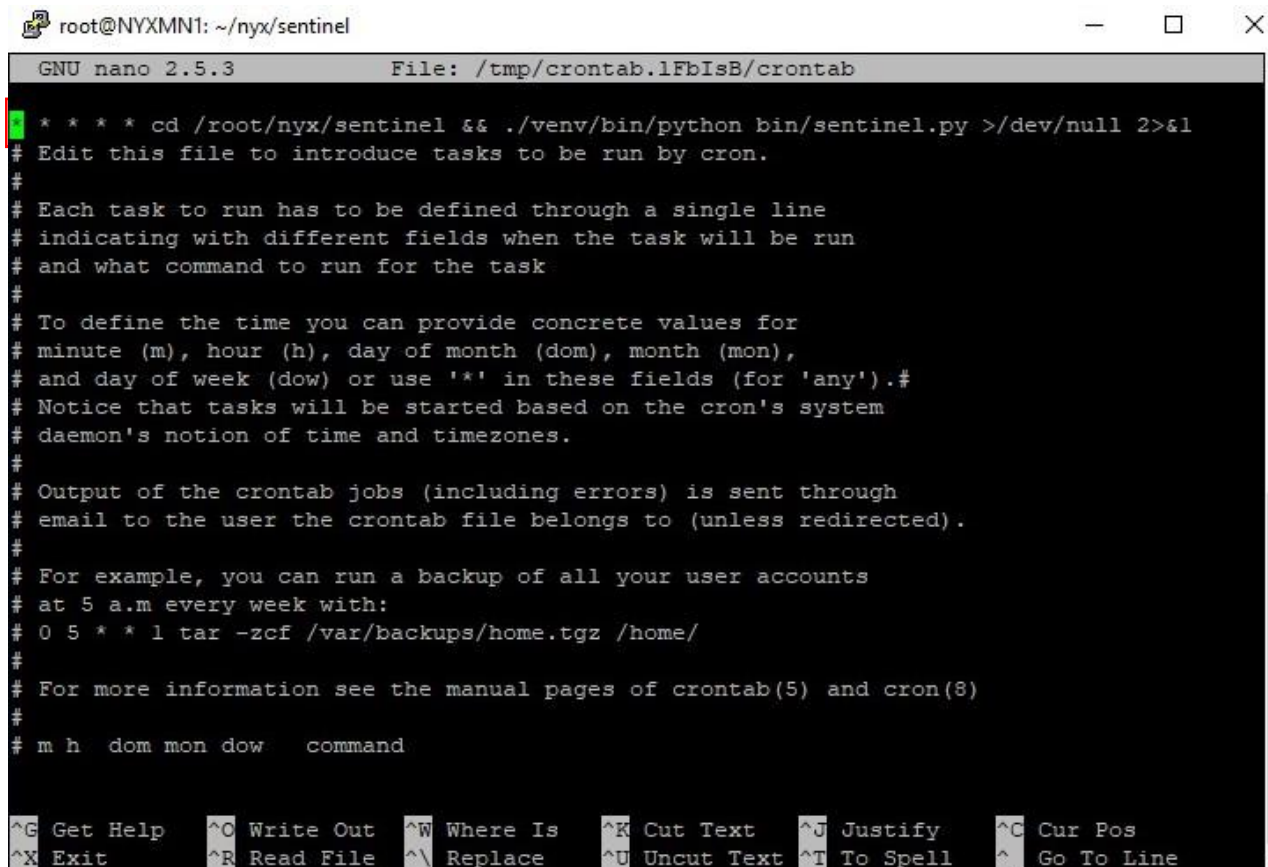
d) Set up a crontab entry to call Sentinel every minute:

`crontab -e` (Press 2 and ENTER when prompted)

e) COPY blue text and paste it in PUTTY:

```
* * * * * cd /root/nyx/sentinel && ./venv/bin/python bin/sentinel.py >/dev/null 2>&1
```

(And press ENTER to move string to next line)



```
root@NYXMN1: ~/nyx/sentinel
GNU nano 2.5.3 File: /tmp/crontab.1FbIsB/crontab
* * * * * cd /root/nyx/sentinel && ./venv/bin/python bin/sentinel.py >/dev/null 2>&1
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow   command
^G Get Help  ^O Write Out  ^W Where Is   ^K Cut Text   ^J Justify    ^C Cur Pos
^X Exit      ^R Read File  ^\ Replace    ^U Uncut Text ^T To Spell   ^_ Go To Line
```

f) Use CTRL+O -> ENTER -> CTRL+X (for saving changes and exit to command line)

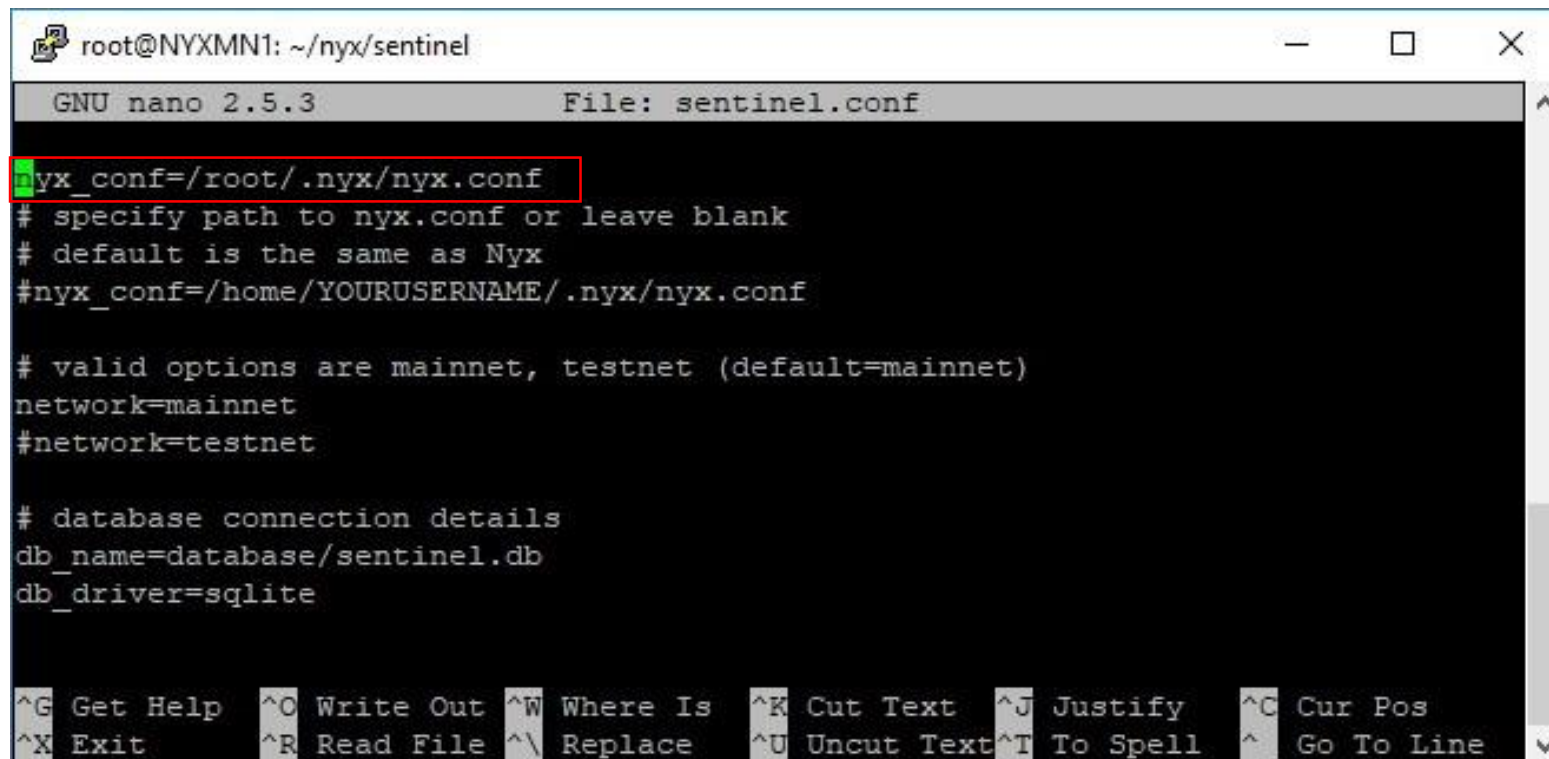
g) Configuration sentinel.conf:

`nano sentinel.conf`

h) Copy blue text and paste in PUTTY:

`nyx_conf=/root/.nyx/nyx.conf`

(And press ENTER to move string to next line)



```
root@NYXMN1: ~/nyx/sentinel
GNU nano 2.5.3 File: sentinel.conf
nyx_conf=/root/.nyx/nyx.conf
# specify path to nyx.conf or leave blank
# default is the same as Nyx
#nyx_conf=/home/YOURUSERNAME/.nyx/nyx.conf

# valid options are mainnet, testnet (default=mainnet)
network=mainnet
#network=testnet

# database connection details
db_name=database/sentinel.db
db_driver=sqlite

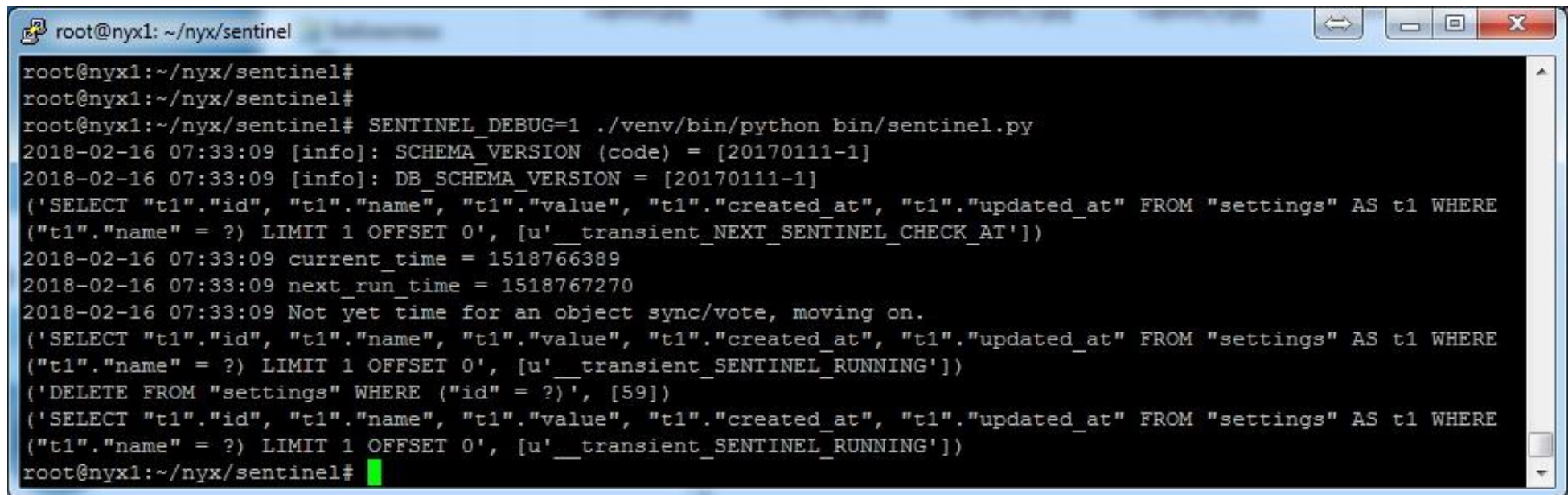
^G Get Help  ^O Write Out  ^W Where Is  ^K Cut Text   ^J Justify   ^C Cur Pos
^X Exit      ^R Read File  ^\ Replace   ^U Uncut Text ^T To Spell  ^_ Go To Line
```

i) Use CTRL+O -> ENTER -> CTRL+X (for saving changes and exit to command line).

j) Test Sentinel:

```
cd /root/nyx/sentinel
```

```
SENTINEL_DEBUG=1 ./venv/bin/python bin/sentinel.py
```



```
root@nyx1: ~/nyx/sentinel
root@nyx1:~/nyx/sentinel#
root@nyx1:~/nyx/sentinel# SENTINEL_DEBUG=1 ./venv/bin/python bin/sentinel.py
2018-02-16 07:33:09 [info]: SCHEMA_VERSION (code) = [20170111-1]
2018-02-16 07:33:09 [info]: DB_SCHEMA_VERSION = [20170111-1]
('SELECT "t1"."id", "t1"."name", "t1"."value", "t1"."created_at", "t1"."updated_at" FROM "settings" AS t1 WHERE
("t1"."name" = ?) LIMIT 1 OFFSET 0', [u'__transient_NEXT_SENTINEL_CHECK_AT'])
2018-02-16 07:33:09 current_time = 1518766389
2018-02-16 07:33:09 next_run_time = 1518767270
2018-02-16 07:33:09 Not yet time for an object sync/vote, moving on.
('SELECT "t1"."id", "t1"."name", "t1"."value", "t1"."created_at", "t1"."updated_at" FROM "settings" AS t1 WHERE
("t1"."name" = ?) LIMIT 1 OFFSET 0', [u'__transient_SENTINEL_RUNNING'])
('DELETE FROM "settings" WHERE ("id" = ?)', [59])
('SELECT "t1"."id", "t1"."name", "t1"."value", "t1"."created_at", "t1"."updated_at" FROM "settings" AS t1 WHERE
("t1"."name" = ?) LIMIT 1 OFFSET 0', [u'__transient_SENTINEL_RUNNING'])
root@nyx1:~/nyx/sentinel#
```

- \* This is mean your sentinel is working fine
- \* Run command after masternode start only.

**CONGRATULATIONS! YOU DID IT!**

**GOOD LUCK!**