Monitoring and troubleshouting node system

1. Server hardware monitoring.

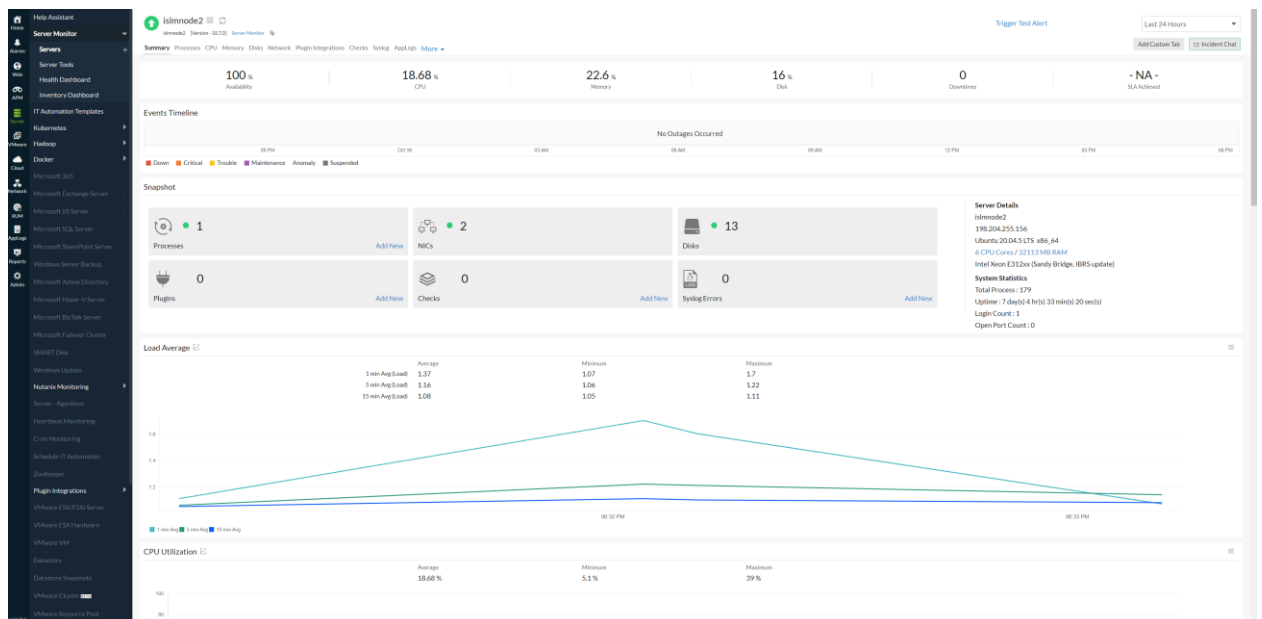I'm using 3-d party commercial system to monitor server:

In most cases this is more convenient then own developed. Due to the following reason:

- No need to install additional web server for remote access. Installing web-services to monitor server exactly on server – huge whole in security system. It's necessary to install web-server, databases, any monitoring agent which sometimes working not as expected.
- Notification system will not work in case of server shut down, so anyway need to have remote notification server
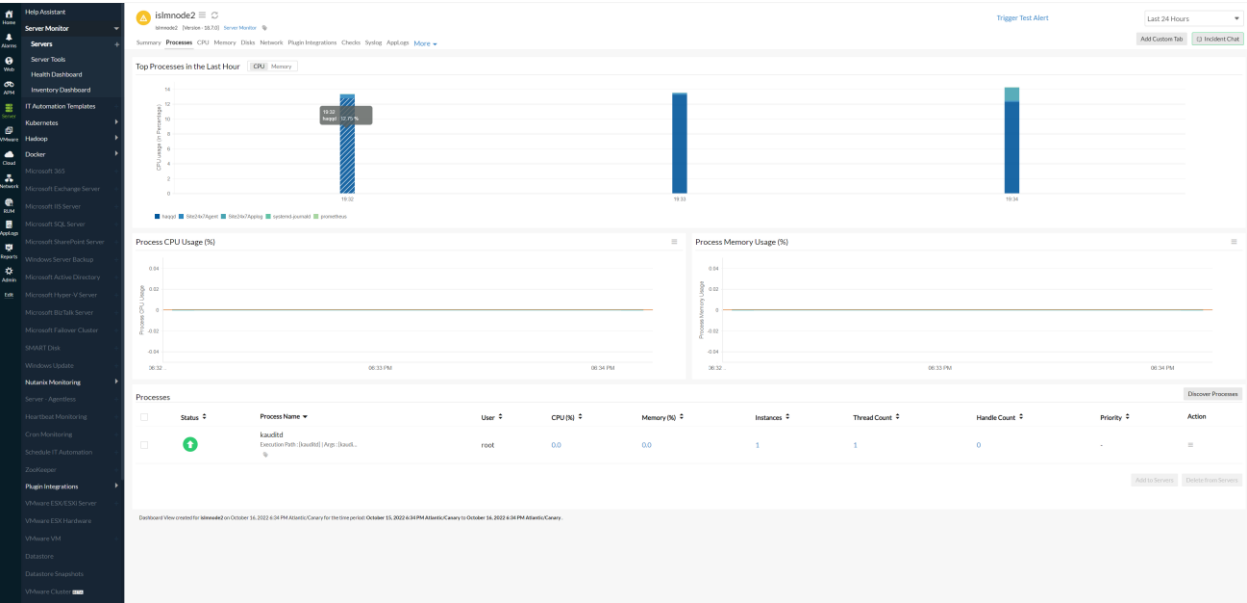- If any troubles – much easy and convenient way to ask support team!

Some other reasons, mostly because I'm not software developer, easy and finally more cheaper to use commercial solutions.

To not provide advertising to solution I'm using – just share some screenshots with monitoring information.
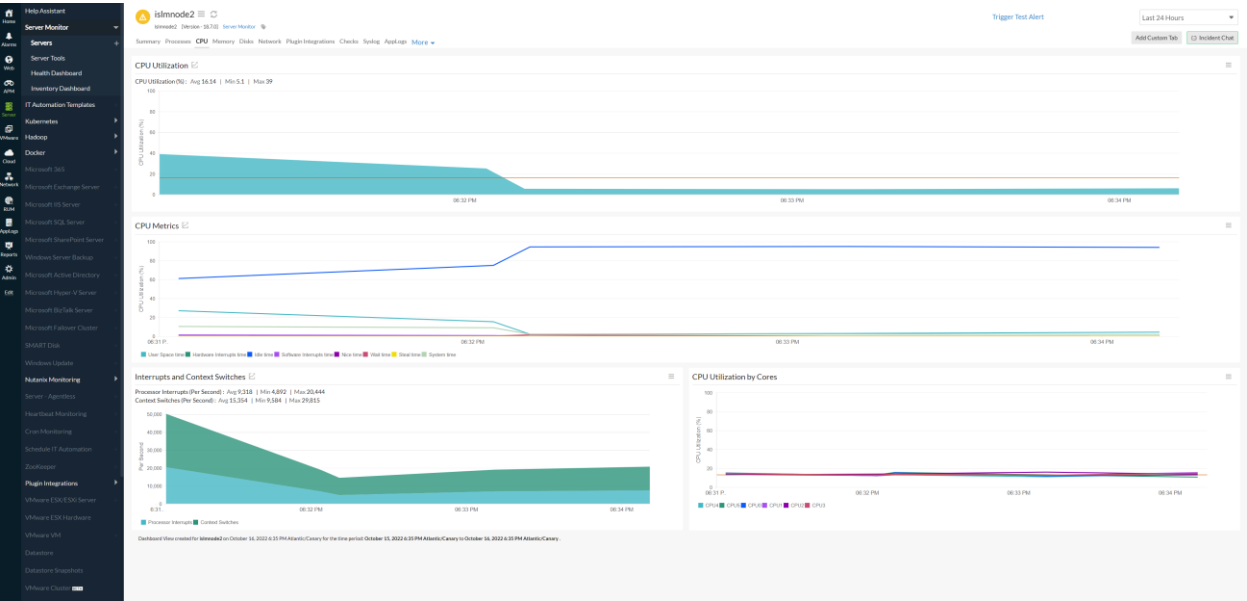
Pic. 1 General server information. This information exactly from HAQQ testedge validator server (you can see in right side server information including ip)

Pic 2. Process monitoring.

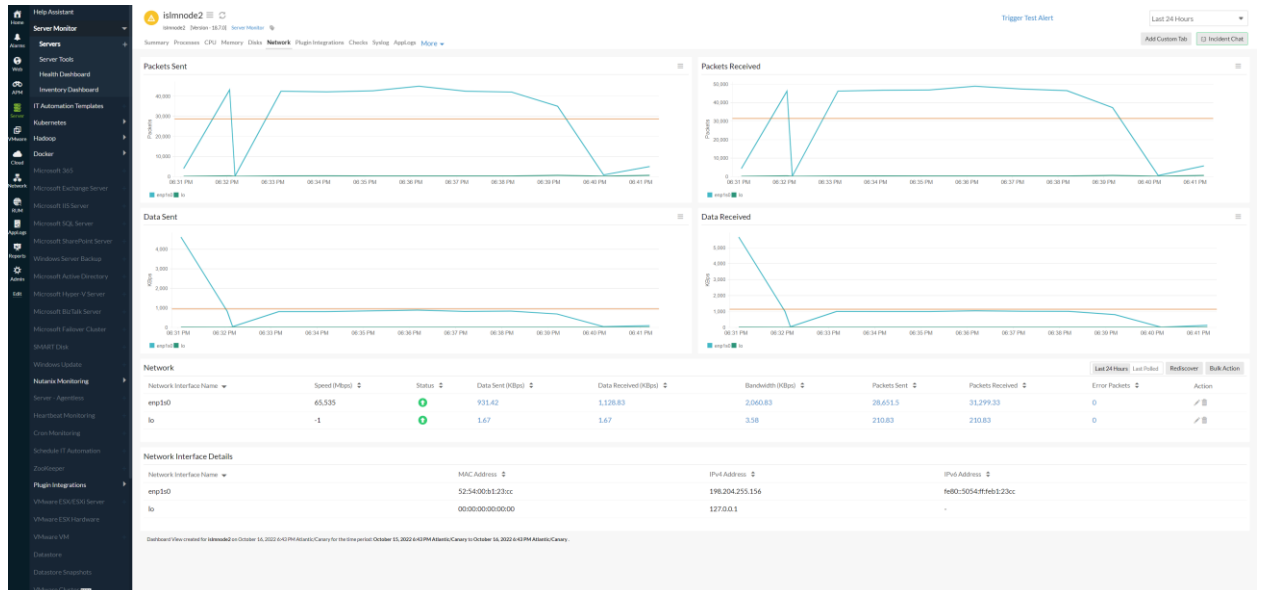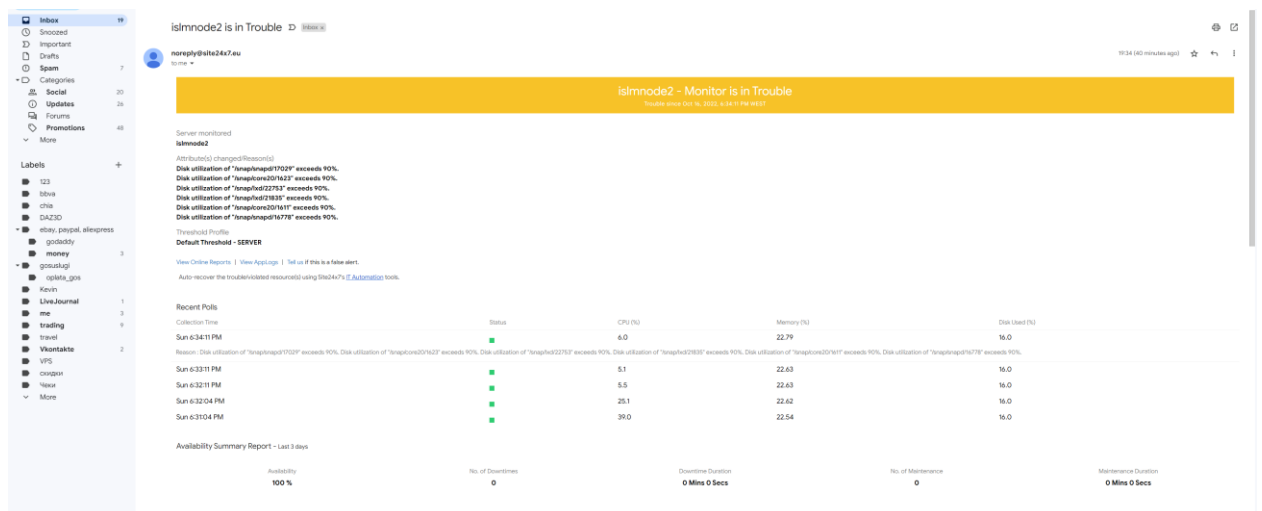## Pic.3 CPU loading monitoring.

Pic 4 Network Utilization

As of notification, sms, email and even call (I'm not on this option)

Pic 5. Email notification system in action

2. Validator troubles notification.

The main trouble we need to monitor in realtime, 24/7 – missed blocks.

Thanks to guys for telegram-bots.

Pic.6 False alarm screenshot, I stopped haqqd service for a couple of sec.

smsennode2

https://freedomstake.io

Individual PoS validator. Let's support real decentralization!

| Status | In Jail | Uptime |

Voting Power

11 916 ISLM   **0.64%**

Commission		Bonded		Addresses
Commission	5%	Self Bonded	0.8% (95.00 ISLM)	
Max Rate	20%	Delegators	2	
Max Change Rate	5%	Bonded Height	438 490	
Updated	09.10.2022			

Uptime by latest blocks

Delegations

Delegations   Undelegations   Redelegations

Address	Amount ↓
haqq13kw3e...3kyw	11 821 ISLM
smsennode2	95 ISLM

Haqq_UpTime_Checker
bot

October 16

/start 11:06 ✓✓

Menu   11:06

| create checker 📝 | list 📋 |
| delete checker 🗑 | status |

Moniker: smsennode2.
bot:
. missed_blocks: 10/50
   time_before_jail: 00:04   19:39

Write a message...