

VALIDATOR SERVICES

node101 provides a secure, reliable and efficient validation service.



More than 20 chains trust in node101 as a validator

\$40M

delegation

26

networks



GLOBAL COMPANIES OF THE BLOCKCHAIN WORLD TRUST NODE101

cøsmos labs



SuiFoundation



WHAT MAKES NODE101 A PERFECT VALIDATOR?



SECURITY



MONITORING



GOVERNANCE

SECURITY

node101 combines all best practices in the DevOps world with its institutional experience to enable resilient nodes.

I

All signing is handled via private network solutions with no private key exposure over the public internet.

II

Through KMS servers, any risk of double signing is completely avoided.

III

Private keys are stored on 1Password vaults with full encryption.

IV

All servers are on a dedicated private network via customized firewalls.

V

Only essential services are exposed through restricted and role-based IP management.

VI

All logins and actions are monitored on the zero trust private network and periodically audited.

MONITORING

All node101 nodes are under constant monitoring and maintenance of our experts.

I

Server and node monitorings are done through Loki, Alloy, and Prometheus and casted to dedicated Grafana dashboards.

II

Custom watchdog and monitoring stacks are utilized to track the metrics performance.

III

For increased security, critical alert observers are deployed on multiple servers in different countries against the risk of massive failures.

IV

All urgency are alerted to our experts through multiple channels:

- Slack's dedicated DevOps channel
- Telegram groups for regular mobile alerts,
- PagerDuty phone calls for critical alerts.

V

Upon an alert, the downtime risk is handled instantly in 3 steps:

- A fresh replacement node is auto-run
- The new node is automatically started
- KMS pointers are updated to the new instance

Note that in most failovers, no manual intervention is needed at all.

COMMUNITY

node101 values the community and the growth of the network as much as it does its security.

I

node101 has an active presence on all networks it validates, and expresses its ideas and casts its votes accordingly.

II

node101 researchers and developers follow all chain updates to make the best decision possible during proposals.

III

In order to make sure no proposal goes unnoticed, a custom-built governance tracker (bot101) monitors Cosmos SDK-based chains for new governance proposals and scheduled upgrades.

IV

All chain updates are handled beforehand through proactive binary preparation and deployment with block height based automatic start mechanisms

- This enables 99.99% uptime for node101 validators.

V

Important updates are communicated to the node101 community through our X and Telegram accounts.

For more information about our governance bot, bot101, you can see our [GitHub link](#) ↗

THANKS

Reach us anytime



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