

MONBOSS
Monitor, Detect, Resolve.

DATASHEET

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Monboss by TekMonks is an effective tool for monitoring and managing IT resources, particularly for companies that need to ensure high levels of uptime and reliability.

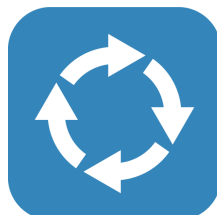
Monboss, an agentless monitoring tool, does not require additional software or hardware to be installed, making it handy to set up and use. The combination of fault detection and recovery features could save time and effort for IT staff, who might otherwise have to manually troubleshoot and resolve issues as they arise.

Its ability to automatically recover and solve issues helps prevent downtime and minimize disruptions to business operations.



Artificial Intelligence (AI) as a service

Utilizes AI as a service through AI algorithms based on its analysis on failure in finding efficient solutions for problems encountered.



Efficiency

Imperative to infrastructure monitoring for detection and quick resolution without human intervention.



Easy to deploy

MonBoss comes as an appliance so it removes the dependency on the operating system.

Monboss uses an AI BDI¹ algorithm that makes IT resource management and recovery more streamlined and effective. The recovery chain is causality based, as well as confidence based, helps reduce the risk of false positives or unnecessary recovery efforts. By analyzing the root cause of each issue and determining the level of confidence in the diagnosis, Monboss can more effectively prioritize recovery efforts and avoid wasting time and resources on issues that may not actually be causing problems.


The use of priority for recovery of each system and the creation of a recovery chain is also a smart approach, as it allows Monboss to systematically work through each issue in the most efficient and effective way possible. By following this recovery chain and fixing systems on its own, Monboss helps minimize the need for manual intervention, which can save time and reduce the risk of errors or oversights.

¹ **Belief-Desire-Intention:** This is a model used in philosophy and cognitive science to explain human action. According to this model, people act based on their beliefs about the world, their desires or goals, and their intentions or plans to achieve those goals.

AI System to monitor and fix infrastructure.

Enterprise-wide monitoring within AI Agents for automated response, can fix server failures, network issues etc. automatically within seconds.

Monboss is built on concepts of:

- **Modularity** - Monitoring can be added as modules at any point in time, without the need of reworking the entire software.
 - **Granularity** - Monboss can monitor performance metrics of multiple servers, even going down to minute details. For e.g., looking through OS logs for anomalies.
 - **Light-weight** – Monboss can perform optimally with low OS resource usage.
 - **Dynamic** – Monboss can monitor multiple groups of unrelated entities at the same time, offering better fault detection while keeping resources usage at minimum.
 - **Causality** – Monboss can track causality of issues and help engineers debug issues with more accuracy.
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MonBoss Modular Design

As Monboss is modular, more modules can be added for monitoring outside the scope. It can be customized to monitor different systems and devices.

Monboss modular design offers multiple monitoring capabilities. Below are few examples:

- Network port check
- Database service check
- CPU, RAM, Disk usage check.
- Database query performance checks
- Database RAM, Disk usage check
- Server RAM page faults, RAM commit percentage check
- CPU run queue and blocked queue check.
- Network latency check
- Row store and column store storage check
- Row skew and memory skew percentage check

Key Features

- **Utilizes AI as a service through AI algorithms** based on its analysis on failure in finding efficient solutions for problems encountered.

Businesses and organizations can gain insights into the root causes of problems and identify potential solutions more quickly and accurately than traditional manual methods.

- **Imperative to infrastructure monitoring for detection** and quick resolution without human intervention.

By leveraging the power of AI algorithms for detection and quick resolution without human intervention, businesses can ensure the reliable and efficient operation of their IT systems and applications, and ultimately support their overall business goals and objectives.

- **Proactively eliminates if not minimizes downtime** to save cost.

Businesses can ensure that their systems are performing optimally, minimize the risk of downtime, and ultimately save costs and protect their bottom line.



“Save time and cost with MonBoss”

Reporting alone does not necessarily fix anything. While monitoring tools can provide valuable data and insights, it is ultimately up to the users to take action based on that information. This may involve manual intervention by IT personnel, or it may involve setting up automated responses or triggers based on certain events or thresholds.

to me ▾

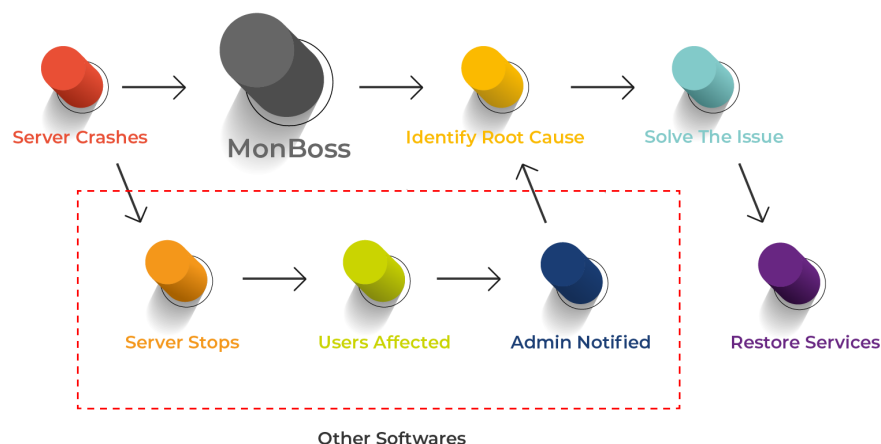
time: 2023-01-06:10:58:11: UTC Service Monitor. Additional info:



Service Status

Object	Status
Service Name	Customer portal
Last restart	2023-01-06 10:56:11
Memory	5.5M
Tasks	7
CPU	62ms

Consistent monitoring with AI algorithms is essential for businesses that rely on their IT systems to support daily operations. By leveraging the power of MonBoss, businesses can reduce the burden on System Administrators, improve system performance, and ultimately save time and money while increasing customer satisfaction.



Monboss communication with cluster

Although Monboss can do more, it is not limited to DB monitoring alone. One of its capabilities is to provide users with a secure and flexible way to collect data and execute commands on the nodes by supporting Secure Shell (SSH) communication with the cluster. It allows for more effective monitoring and management of the cluster. The following points explain the communication:

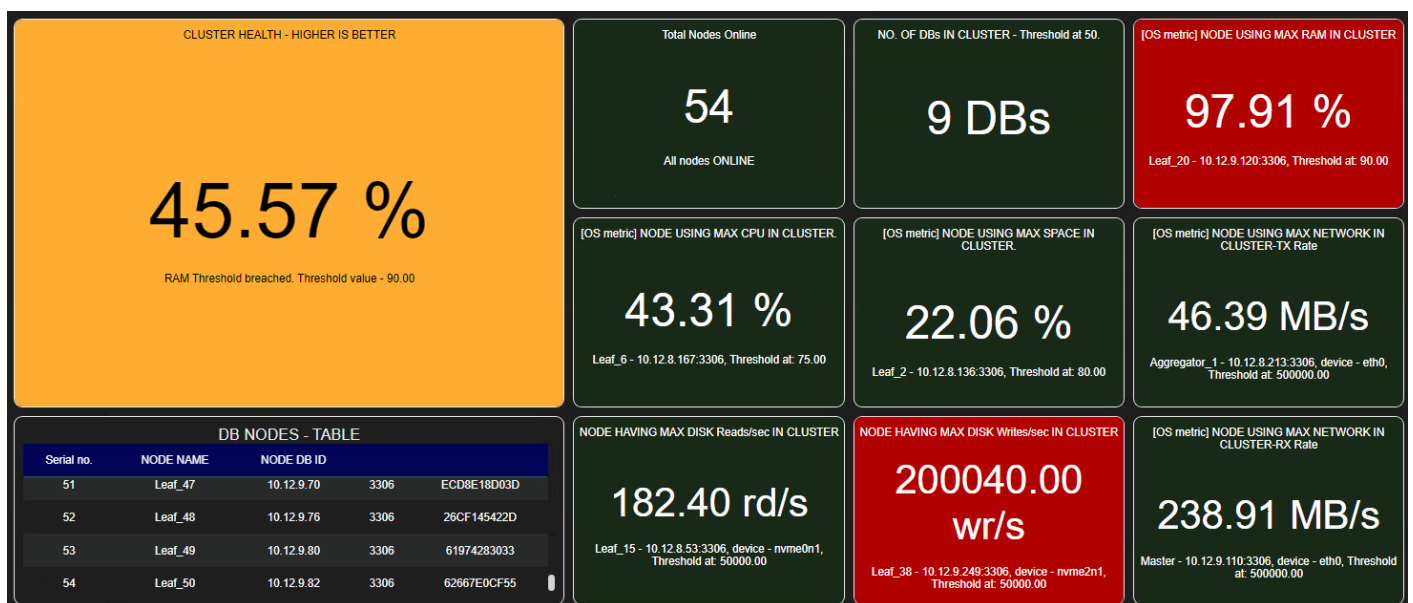
- Monboss SSH's into the Master of cluster, which is specified to Monboss via configuration file.
- Once done, Monboss gathers all the DB related performance data, list of nodes in the cluster and OS performance metrics for Master node.
- Once done, Monboss goes through a list of all the nodes captured from Master, and one by one, gets OS performance metrics from each of them, as specified in the aforementioned table.

Monboss also provides a wide range of options for monitoring and managing servers and applications:

- Retrieve and analyze Simple Network Management Protocol (SNMP) data to generate alerts and perform automated remediation actions.
- Monitor REST APIs provided by servers and applications.
- Monitor log files generated by servers and applications to detect errors and issues.
- Send email and SMS notifications to administrators and stakeholders when alerts are triggered.
- execute custom scripts and commands to monitor and manage servers and applications.

Dashboard

Monitoring tools can sometimes generate false alarms or alerts, which can be time-consuming for users to sift through and often do not result in any actionable fixes. But with MonBoss, the number of false positives are reduced therefore saving users valuable time. It can provide more sophisticated analysis of the data being collected, identifying patterns and trends.



The following dashboard of MonBoss:

- Notifies incidents and outages
- Provides the administrator with clear information on network health.
- Fix problems after detection in mere seconds and inform the admin.
- Can be integrated into pre-existing dashboards.



Monboss by TekMonks is a comprehensive monitoring solution that can be tailored to specific company needs. By providing customized monitoring solutions, the software can ensure that critical servers and databases are always running at peak performance, which can lead to increased productivity and reduced stress for employees and customers.

Monboss can help companies avoid costly repairs and legal liabilities by reducing the risk of downtime and data loss, thereby reducing overall costs and risks. Also, the software's safety and security features can help protect against cyber attacks and other security threats, further increasing the safety and security of company assets.

TekMonks' Monboss is a valuable tool for businesses looking to streamline their operations and improve their bottom line. This is by allowing companies to allocate their funding to important areas while ensuring that their assets remain efficient and data safe.

Specifications	
OS Requirements	<ul style="list-style-type: none">• Linux server - CentOS - 7 or above• 4 vCPUs• 16 GB RAM• Disk space: 200 GB
Connectivity Requirements	<ul style="list-style-type: none">• SSH connectivity between Monboss server and all other VMs.• Allowed Inbound SSH connectivity to Monboss VM.• SSH key(pem file) to access VMs.• Allowed Inbound connectivity on ports 8080 to Monboss VM.• Allowed Inbound connectivity on port 9090 to Monboss VM.• Allowed outbound access to SMTP, for sending email alerts.• Allowed internet inside the Monboss VM for installing packages.
User Requirements	<ul style="list-style-type: none">• User, with sudo rights, on Monboss Node.• User, with non-sudo rights, on all of the Nodes.• A DB user with SHOW METADATA, PROCESS grants.• Packages:<ul style="list-style-type: none">◦ Sar◦ Numastat◦ lostat
Support	Support Documentation

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PATENTS: US Patent Pending

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