



OPCITO TECHNOLOGIES

Nagios for Monitoring On-Premises Infrastructure

About The Customer

The customer is a supply chain management organization with a substantial on-premises IT setup consisting of several servers, networks, and applications. Despite the growing trend of shifting to the cloud, they remained steadfast with their on-premises infrastructure due to regulatory constraints and business-specific requirements.

Business Challenge

The customer was facing frequent downtimes and system failures. There was no efficient system to detect these issues before they escalated, leading to unnecessary productivity and business continuity losses. Additionally, the IT team struggled with manual monitoring efforts, unable to proactively manage their infrastructure.

How Opcito Helped

Opcito's team of SecOps experts identified Nagios, a leading tool in the world of infrastructure monitoring, as a potential solution. The decision was primarily driven by its robust monitoring capabilities, open-source nature, and broad community support. The team proposed a strategic plan to implement Nagios in their environment that involved:

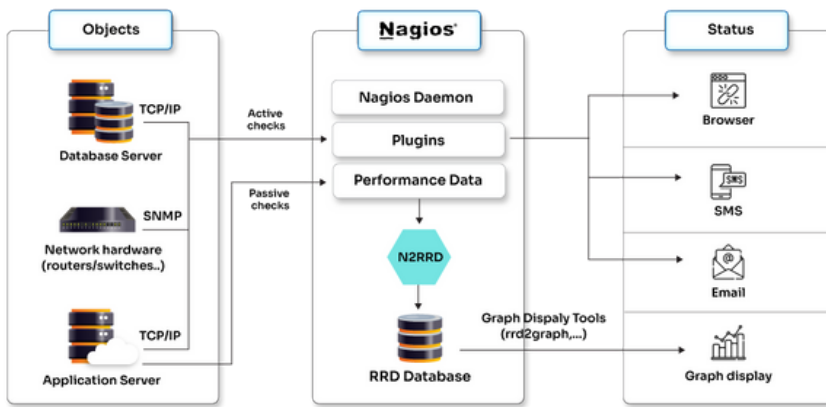
- **Setting up Nagios Core on a Linux server and configuring it to monitor the servers, network devices, and applications:** The IT team created a list of critical metrics such as CPU usage, disk usage, network bandwidth, and application response times that needed monitoring.
- **Nagios Plugins and NRPE:** The plugins monitor specific metrics, and NRPE (Nagios Remote Plugin Executor) was set up on each server to allow Nagios Core to execute checks on remote systems. Moreover, the team used SNMP for network device monitoring.
- **Custom alert systems:** The alert system is configured for different levels of warnings and critical thresholds. These alerts notify the team via email and SMS, ensuring issues are addressed promptly.



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Technologies, Tools, and Platforms used

NAGIOS

PROTOCOLS (TCP/IP, SNMP)

RRD DATABASE

Benefits

IMPROVED INFRASTRUCTURE MANAGEMENT AND UPTIME

The advanced warning system allowed the IT team to proactively address potential issues, resulting in increased system uptime and reliability.

REDUCED MANUAL MONITORING

With automated checks and alerts, the team could focus more on strategic tasks instead of constant manual monitoring.

COST SAVING

The customer saved significantly on costs associated with infrastructure failures and workforce inefficiencies.

About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.



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