IT Performance Analytics for SUSE® Linux Enterprise Server

Today's IT infrastructures are more complex than ever before. Between the overall variety of modern cloud, hybrid and virtual IT environments to the sheer volume of system data, events and alerts, organizations are struggling to keep track of system performance and make sense of all the noise. Sightline Systems leverages recent advances in big data visualization, machine learning and predictive analytics to deliver real-time IT performance analytics, automated root-cause analysis and capacity planning to help organizations proactively predict performance issues and prevent unplanned downtime.

Sightline EDM (Enterprise Data Manager) at a Glance:

+ *Proactively monitor IT infrastructure systems across thousands of data points*
+ *Consolidate multiple monitoring tools into a single-pane-of-glass solution*
+ *Visualize and analyze infrastructure alerts and performance issues in real time*
+ *Conduct root cause analysis by correlating data across multiple systems*

The Challenge

IT Operations has changed dramatically in recent years with the rise of cloud computing, mobile applications and digital transformation initiatives that put constant pressure on organizations to continuously deliver high-quality customer experiences. This shift in compute requirements has made it challenging for IT Managers, System Administrators and DevOps to maintain system performance across distributed, heterogeneous IT environments and respond to critical issues faster before outages occur and services suffer.

Without additional capacity, staff or budget, IT teams are expected to maximize the performance of their existing systems, servers and applications before making investments in new technologies to alleviate additional processes and workloads.

Legacy IT monitoring solutions, however, are not able to consolidate performance monitoring activity across today's modern cloud, hybrid and virtual IT environments. Nor are they able to analyze massive amounts of system data generated from a vast number of network-enabled devices. IT Operations teams need modern performance management solutions that will help them spend less time reactively troubleshooting performance issues and more time proactively preventing potential capacity constraints and system downtime from impacting the business.

The Solution

Sightline Enterprise Data Manager (EDM) is a powerful IT performance analytics solution that leverages machine learning and predictive analytics to provide real-time visibility across today's modern cloud, virtual and hybrid IT environments.

Sightline EDM allows organizations to:

- *Replace multiple legacy IT infrastructure monitoring tools with a single-pane-of-glass solution*
- *Collect hundreds of metrics across thousands of systems, servers and applications every millisecond*
- *Aggregate, visualize and analyze massive amounts of performance data*

- *Understand the past, present and future state of their IT infrastructure*
- *Diagnose infrastructure problems, pinpoint root causes and forecast capacity constraints*

Sightline allows DevOps and QA Engineers to:

- *Correlate and analyze alerts and events across all servers, applications and databases*
- *Quickly connect the dots between first alert and final outcome*
- *Detect patterns, trends and anomalies that could result in costly unwanted downtime*
- *Reduce the mean time to identification and resolution*
- *Take corrective action to prevent problems from affecting customers, systems or services*

Sightline EDM analyzes historic resource utilization and application workloads to automate the capacity planning process and predict when systems are expected to run out of capacity.

Sightline helps IT Managers and System Admins:

- *Identify resource bottlenecks, forecast capacity constraints and plan for future growth*
- *Baseline existing system performance and identify significant behavioral patterns and trends.*
- *Forecast infrastructure requirements and resource utilization days, weeks and months in advance*
- *Establish performance thresholds and maintain service delivery levels*
- *Withstand potential spikes in customers, usage and demand*

How It Works with SUSE
Sightline EDM enables IT teams to continuously monitor SUSE® Linux Enterprise Server systems in real time to:

- *Identify performance issues*
- *Determine root cause*
- *Take corrective action*
- *Minimize disruption to stakeholders*

Sightline's highly interactive, visual tools are used to achieve results in minutes, accelerating discovery and investigation of costly performance problems that threaten to interrupt IT Operations, service level agreements and customer experiences. Unlike legacy IT monitoring solutions that provide alerts, but not answers, Sightline enables IT teams to quickly determine how to address problems by correlating performance metrics, detecting system anomalies and streamlining remediation processes.

Sightline EDM provides the most comprehensive SUSE Linux Enterprise Server performance data with more than 300 real-time system metrics, from CPU, memory, disk, network and file systems down to process-level data. Sightline collects real-time performance data and user-defined event data from all of the key components of the SUSE Linux Enterprise Server, as well as detailed granular metrics on:

- *Kernel variables*
- *Message queues*
- *Semaphores*
- *System calls*
- *Uptime*
- *Virtual memory*
- *Workloads*
- *NFS stats*
- *RPC stats*
- *Expressions*

Contact us at:
www.suse.com

Sightline EDM performs direct queries to the Linux kernel, with most data coming from the PROCFS (Proc file system). Sightline EDM supports 32-bit and 64-bit versions of SUSE Linux Enterprise Server 10, 11 and 12, as well as the PPC (Power PC) CPU architecture.

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