# Splunk Infrastructure Monitoring

Real-time visibility, insights and problem detection for modern cloud infrastructure

Splunk Infrastructure Monitoring is the market-leading service for monitoring and observability of modern cloud environments. Built on our patented streaming analytics architecture, it provides the **best-in-class solution** for DevOps, SRE and platform teams to visualize and analyze relevant performance metrics across infrastructure, services and applications in a fraction of the time and with greater accuracy than traditional solutions.
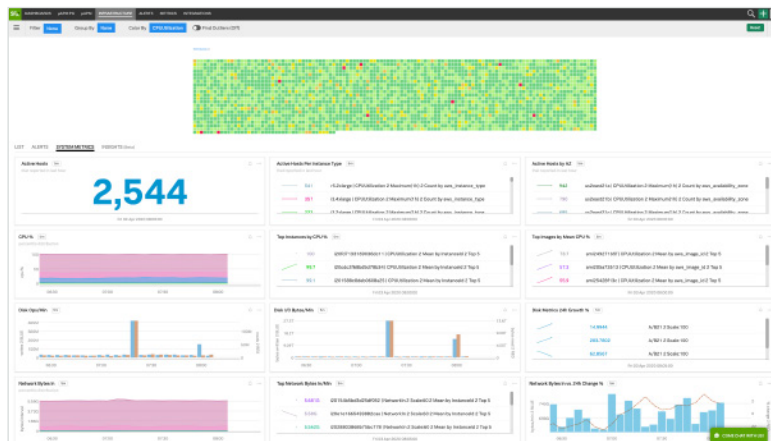
Navigate your infrastructure dynamically and slice and dice by the data that matters to you.

Key Benefits	
Better Customer Experience	Catch problems before they affect customers with a mean time to detect up to **80% Faster** than competitors
Higher Developer Productivity	Deliver higher quality code up to **8x Faster** than with competitors
More Predictable Operations	Accurate, AI-driven alerts delivered in seconds, up to **36x Faster** than competitors
Greater Resource Efficiency	Reduce infrastructure costs and operational overhead by up to **$1M** Reduce monitoring costs by up to **50%** with the transparency and usage control provided by Splunk Service Bureau

Architecture

Streaming analytics
Unlike traditional systems that use a slow batch model to run analytics on metric time series, Splunk IM applies analytics on metrics in flight using a streaming pub/sub bus. Visualize and alert in seconds.

High cardinality metastore
Designed with an independent data store optimized for your human readable metadata, Splunk IM treats all dimensions and tags the same. Search by any combination of dimensions is equally efficient and fast even with high cardinality metrics.

Key Capabilities

Open, flexible data collection
Expedite time-to-value and avoid vendor lock-in with open source, lightweight agents and open standards based instrumentation.

Otel Collector for service auto-discovery
Lightweight open source-based agent for Linux and Windows with automated discovery of services running on hosts and dynamic configuration of data collection plugins. Simple to set up for a fast time to value. Visualize data at up to 1 second resolution.

Comprehensive set of service integrations
Hundreds of ready to use integrations with popular OSS, cloud infrastructure and services. Integrations automatically pull standard metrics from services and feed them into pre-built dashboards for rapid visualization.

Cloud API integration with Amazon Web Services (AWS)
Seamlessly ingest metrics and metadata with integrations into AWS services for fast time to value without the need to manage agents or plugins.

Wrappers for serverless functions
Monitor popular FaaS services like AWS Lambda with Function Wrappers that provide metrics on total invocations, errors, durations, etc. in seconds.

Fully-automated Kubernetes monitoring
Kubernetes Navigator is a turn-key solution that provides an intuitive way to understand and manage the performance of Kubernetes environments. AI-driven analytics automatically surfaces actionable recommendations to expedite triaging and troubleshooting. Seamless workflow integration with Splunk Enterprise/ Splunk Cloud platform eliminates context switching and accelerates root-cause analysis.

Real-time visualization
High resolution, easy-to-use dashboards and charts let you interact with all of your data in real time.

Instant discovery and visualization (Seconds)
Insights into your dynamic environments (e.g., VMs, Kubernetes, containers, serverless functions) within seconds, instead of minutes or hours that legacy batch-based monitoring tools provide. See a live heatmap of your entire infrastructure in one unified view.

Customizable charts and dashboards
Whether built-in or customized, visualize charts and dashboards that update in real time with the metrics that matter most to you instead of waiting minutes if not hours with most batch querying monitoring tools.

Deep data linking with Splunk Platform
Carry the context of your chart into solutions like Splunk Enterprise or Splunk Cloud for deeper insights, and eliminate context switching — shortening root cause analysis. Log Observer Connect centralizes observability log data alongside security, analytics, compliance, and other data from existing Splunk instances and surfaces this data as related content in Splunk Infrastructure Monitoring.

Simplified, out-of-the-box alerting
Get started in minutes with AutoDetect to detect problems in critical infrastructure components and services for quick time-to-value. Remove the complexity of manually setting up your environment to automatically discover any anomalies in your infrastructure within seconds. With customizable detectors, filter notifications by infrastructure or service and adjust thresholds and conditions for more accurate alerting. Intelligently notify by severity and reduce alert noise.

Intelligent problem detection
With built-in data science, get instant and accurate alerts on dynamic thresholds, multiple conditions, and complex rules to dramatically reduce mean time to detect.

Instant actionable alerts
Alert on patterns and identify anomalies in seconds, instead of minutes as with legacy batch-based monitoring tools that can result in lengthy downtime or persistent performance issues.

Adaptive alert conditions
Point and click alert conditions with dynamic thresholds and automatic baselining that leverages data science instead of static thresholds for no-noise alerts. Preview these alerts to simulate and fine-tune.

Alerts creation wizard
Comprehensive library of data science-driven functions democratizes creation of composite metrics and customized alerts you need to monitor the health of your business.

> "What's most lovely about Splunk is we benefit hugely from having centralized, customizable analytics dashboards that collate and analyze transactions in real time, ensuring that we respond to customers in a timely manner while spotting errors and latency at a glance."
>
> **Ben Leong,** Director of Operations, Online and eCommerce Platform, Lenovo

Advanced analytics
Programmable data science models and advanced statistics, enable predictive analysis, high cardinality slice and dice, rich analysis of business metrics, and automated issue resolution.

High cardinality slice and dice
Filter, slice and dice, and drill down on data to conduct complex analytics across metric time series in parallel.

Composite metrics for business KPIs
Business and application owners can measure relevant KPIs and derive insights such as customer churn rate, success ratios, products sold per second, etc. from one single pane of glass across DevOps teams.

Calendar window analytics
Analytics functions can be calculated over true calendar intervals to provide relevant business context to charts.

Built for enterprise DevOps agility
Achieve DevOps agility without losing control over usage, access, and permissions. Control costs with capacity limited tokens for self-service development and ops teams. Enable access to dashboard detectors by certain users and/or teams.

Enterprise controls with service bureau
Monitor use and avoid overages with detailed usage reports. Create Mirrored Dashboards from standard templates with automatic propagation of changes to maintain consistency across the organization. Support multiple teams with access controls, capacity limits, and consolidated billing across the entire organization.

Programmable APIs
Self-service with control for Agile developers moving at DevOps speed. Make sophisticated ad-hoc queries or create charts and alerts at scale via programmable APIs with a monitoring-as-code approach enabled by the Terraform provider.

Integration with CI/CD tools
Enable your DevOps teams to perform frequent code pushes with integrations into the CI/CD toolchain (Jenkins, Ansible, ZooKeeper, etc.).

Trusted by Companies like:

Lenovo   CLOUDREACH   HubSpot

yelp

Learn more about **Splunk Infrastructure Monitoring**: https://www.splunk.com/en_us/software/infrastructure-monitoring.html

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