

Splunk® for Cisco® Unified Computing System (UCS)

Deep Operational Visibility. Complete Historical Analytics.

Managing Unified Computing Technology Is Critical

The Cisco Unified Computing System is a significant simplification of the traditional IT architecture, reducing the number of devices that must be purchased, cabled, configured, powered, cooled, secured and managed. The UCS delivers end-to-end optimization for virtualized environments and creates new agility for traditional OS and application stacks in physical environments.

However, it also creates very dense environments where trending, analyzing and visualizing faults, events, and performance metrics become critical to find failures quickly, fix recurring problems and avoid outages. Moreover, when there are problems at the user or application layer, IT needs the ability to correlate events from the underlying hardware through the virtualization stack all the way to the individual application or session to accelerate problem-resolution times.

Enter Splunk

Splunk Enterprise is a scalable and versatile engine for machine data, such as logs, performance metrics and events. It offers a unique approach to solving difficult problems in complex virtualized environments. Use Splunk software to collect, index and harness your machine-generated data across your virtualized infrastructure, including the hypervisor, guest operating systems, applications, as well as the underlying server, storage and network devices.

Splunk Enterprise lets you:

- Centrally monitor, alert, report and analyze metrics, logs and events in real time across the entire physical and virtual stack
- Correlate and connect events across every level and technology with its powerful search language
- Proactively detect performance issues and prevent them from impacting end users
- Determine root cause of outages or performance problems up to 70% faster
- Retain transient data from every element for trending, historical analysis, security and compliance
- Flexibly address reporting or operational analytic requirements such as capacity planning, usage analyses and asset reporting in the continuously changing virtual environment
- Scale to handle big data problems faced by the largest datacenters, with a unique MapReduce based, schema-less technology

Splunk App for UCS

The Splunk App for Cisco UCS helps you collect, analyze and visualize faults, events, and performance metrics, as well as inventory from UCS systems. It enables:

- Correlation of event data from UCS with data from other technology tiers such as virtualization, storage, operating systems and applications. Find causal links between different technology tiers with Splunk.
- Trending, analysis and visualization of data from multiple UCS managers and domains. Collect and persist faults, events, network, temperature, and power statistics from all components of UCS systems—find anomalies and avoid recurring problems
- Complete operational analytics such as capacity reporting, change monitoring, asset tracking, reporting of assets by faults and impact analysis of critical events over time
- Track power usage, cooling requirements and the associated datacenter costs

Features of Splunk App for Cisco UCS

The Splunk App for Cisco UCS uses Cisco's XML API to gather inventory, performance and fault information from each UCS Manager. It also utilizes information sent over syslog such as configuration and state changes, as well as authentication, authorization and accounting information. The Splunk App for Cisco UCS helps you visualize the state of your UCS environment by providing you with the following:

Central Operational View across Multiple UCS Domains

See your entire UCS inventory in a central location by state and over time. Find trouble spots and performance issues instantly.

Faults over Time, by Cause and Affected Assets

Visualize faults over time and instantly find issues that are unresolved. Identify the most common sources of faults over time.

Networking Throughput by Port and over Time

Identify spikes and valleys in network throughput and track network performance issues over time.

Power Consumption by Server/Chassis over Time

Maintain control over your power costs by monitoring consumption by chassis or server over time.

Temperature over Time to Highlight Sensitive Objects

Monitor temperature of chassis over time to identify cooling requirements and gauge the impact of running at higher levels of utilization.

Correlation of UCS Data with Events and Performance Metrics from Other Technology Tiers

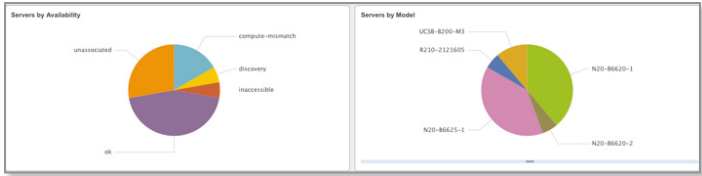
Correlate UCS events and performance with information from hypervisors, operating systems and applications to get a cross-technology view of your environment.

Authentication Tracking

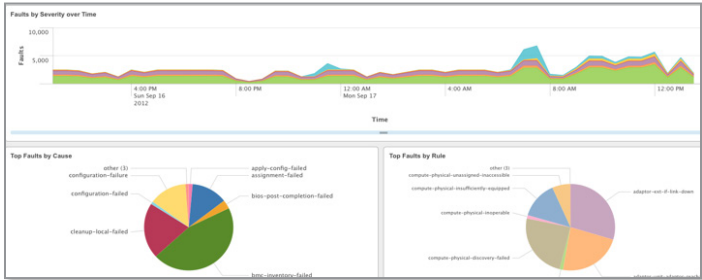
Audit session creation and track authentication failures to detect anomalous activity in your UCS environment.

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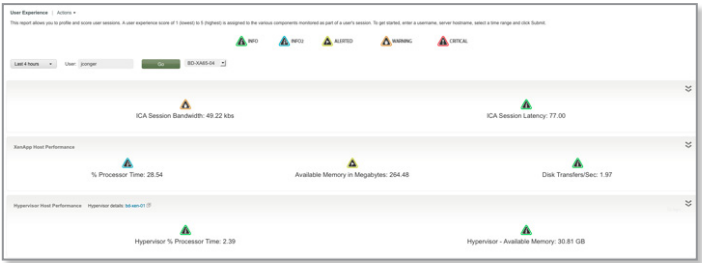
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Central Operational View across Multiple UCS Domains



Faults over Time, by Cause and Affected Assets



Networking Throughput by Port and over Time