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TRANSFORMING OPEN ENROLLMENT TRAFFIC MANAGEMENT: How C-HIT Achieved a Two-Fold Increase in Volume and a 75% Drop in Noise

Open Enrollment is the busiest time of the year for Medicare, our national health insurance program. In past years, increased traffic strained the infrastructure and affected the customer experience. With C-HIT's cutting-edge implementation of Splunk and Portal Operational Intelligence (POI), traffic has doubled and volume-related performance events dropped by 75%.



To meet the challenges of substantial increases in peak load, C-HIT began by looking at the needs of customers and users: How can system owners make good decisions in real time in multi-domain environment? How can C-HIT improve the user experience? Can C-HIT help stakeholders by delivering technology and information that is accessible and reliable when and where it matters most?

Our customers need real-time, actionable insights driven by machine learning-powered algorithms. Partnering with Splunk, C-HIT's Operational Center of Excellence (COE) is developing tailored solutions to satisfy customer and user needs, which include Key Performance Indicators (KPIs), concise visualizations, and transformative solutions.

FROM DATA TO ACTIONABLE INSIGHTS

C-HIT focuses on turning data into actionable insights by integrating data sources for more informed business decisions. Teaming with Splunk, we reimagined data integration and visualization to provide a single pane of glass view of the health of over 60 integrated applications.

Using Human-Centered Design (HCD) principles, we organized data into clean, KPI-led visualizations with drill-down capability. The outcome: more signal, less noise, faster resolutions, and better collaboration.

THE CHALLENGES

- Lack of full-horizon line of sight across multiple dependent environments
- 10 data centers; 53 applications across the distributed environment
- Critical performance and/or failure issue data is buried or unavailable; securing this data under failure scenarios is challenging, and analyzing data under either condition is difficult
- Since data streams are non-aligned and non-synchronized, analyses of causal relationships are challenging



C-HIT SOLUTION

- · Focuses on the big picture by incorporating machinegenerated data from numerous sources into a single view. This enhances information sharing and collaboration across teams.
- · Provides real-time monitoring and analysis through a web interface.
- · Supports outage prevention using machine learning through operational patterns and trends.
- Uses Artificial Intelligence (AI) to enable predictive analytics, thereby anticipating and preventing outages 20-30 minutes in advance.
- · Delivers quicker problem resolution and minimal timeconsuming root cause analyses. Faster answers mean happier customers.
- · Relies on system-specific KPIs: C-HIT selected the data streams that mattered most to a given team, partnering with the hosting and application teams to understand their thresholds and likely failure points.

THE SINGLE PANE OF GLASS

POI delivers a single dashboard view of data from multiple sources in a unified display, allowing a rapid assessment of an application's health.

- C-HIT developed comprehensive data visualizations, known as Glass Tables
- The user-friendly design of the Glass Table dashboard allows for easier tracking of problems.
- · Coloring scheme of portal components denotes the criticality of issues.
- UI is rendered by aggregating several hundred KPIs across several portal components spanning multiple servers and data centers.

ENGAGE WITH US

For more information about C-HIT and our capabilities:

www.c-hit.com

HOW IT WORKS

C-HIT leverages Splunk to integrate a range of sophisticated enterprise monitoring tools. To implement the CMS Portal, the following tools were deployed to create our enterprise Glass Table:

- Splunk Core
- · Security Alerts Akamai
- · Data analytics Chartbeat
- Application Performance Monitoring New Relic
- Infrastructure and Synthetic Monitoring New Relic
- End User Browser Experience
- · Automated Performance Monitoring
- · Network Monitoring ExtraHop

Each tool provides distinct insights displayed on different screens and different time scales. While the answers are there, so are hundreds or thousands of other data streams. How does C-HIT separate the signal from the noise?

While focused monitoring tools are useful, these do not convey a uniform overall picture at a glance. Our initial implementation had 10 more screens to monitor a wide variety of feeds.

To unlock the value in these threads, our team partnered with Splunk to fuse a wide variety of data sources into the Splunk Core environment.



C-HIT builds software as a service platforms that use machine learning to harness data in real time to deliver actionable insight that provides value to our customers. Interested in learning how C-HIT can do the same for your business? For more information about C-HIT's Splunk capabilities, please contact: Splunk@c-hit.com.

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