SAP NS2® Real-Time Cyber Situational Awareness

THE PROBLEM

The failures of traditional cyber defense perimeters, coupled with the abilities of attackers to circumvent traditional security systems, require federal agencies to rethink their cyber security models. With today's highly-networked, hyper-extended, cloud-based, mobile computing assets, security approaches that are heavily reliant on defensive measures are obsolete. Instead, a more agile approach based on real-time dynamic risk assessments will be essential for a secure operational posture.

THE SAP SOLUTION

Leveraging recent innovations in computing hardware and software, database management, in-memory processing, and analytics, SAP has collaborated with Intel Corporation to deliver radically better computing performance at a lower cost – including significant performance increases and simplified deployment for the cyber mission.
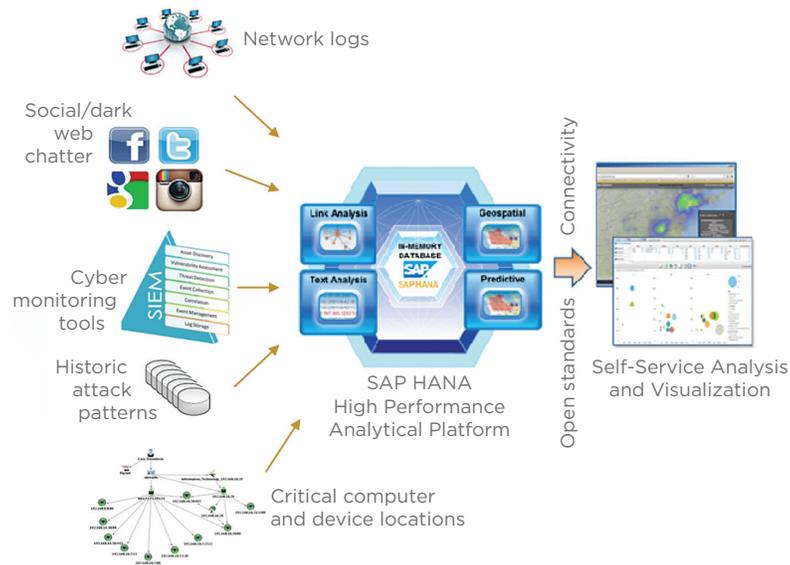
The SAP HANA® platform delivers multiple capabilities to cyber defenders in one easy-to-deploy server, including high performance in-memory processing of both streaming and historical data using predictive analysis, geospatial analysis, unstructured text analysis and graph-engine link analysis.

BENEFITS

- Enables greater time for analysis and response

- Evaluates 2–3X more hypotheses of evolving situations

- Reduces the "cost of curiosity"

- Proactively identifies vulnerabilities

- Moves from a network-centric to a human-cognitive model for threat awareness, while leveraging existing investments in hardware and software

SAP HANA does all of the above while leveraging existing investments in existing cyber security and big data infrastructure.

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REAL-TIME DATA PLATFORM IS KEY TO ACHIEVE ANTICIPATORY CYBER SITUATIONAL AWARENESS

Network logs

Social/dark web chatter

Cyber monitoring tools

Historic attack patterns

Critical computer and device locations

SAP HANA High Performance Analytical Platform

Connectivity

Open standards

Self-Service Analysis and Visualization

UNIQUE CAPABILITIES

- Accelerate analysis of information 10x–1000x compared to traditional analytics

- Handle extreme-scale Big Data analytics. World's largest data warehouse record @ 12.1 PB[1]—4x larger than previous

- Eliminate redundant data manipulation—reduce data footprint 37x and 4–6:1 data compression

- 4,200 commercial clients + DoD

- AWS/C2S cloud compliant for ICITE

- Enable multi-modal analysis with data and compute engines in one box:

  - Geospatial

  - Quantitative predictive

  - Graph-engine link analysis

  - Unstructured text

  - Event stream

- Aggregate data on the fly from machines, streaming events and operations without translation or transformation

FOR MORE INFORMATION:

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