EDUCATION

COMPUTEROME

SUPERCOMPUTER FOR LIFE SCIENCE, STRENGTHENS SECURITY WITH LOGPOINT

BACKGROUND

Computerome - The Danish National Life Science Supercomputing Center, is a High-Performance Computing facility specialized for Life Science. The Supercomputer is a collaboration between Technical University of Denmark (DTU) and University of Copenhagen (UCPH).

Computerome debuted in November 2014, it ranked as number 121 on the TOP500 Supercomputing sites in the world, and it remains among the fastest supercomputers in the world.

THE CHALLENGE

Traditionally high-performance computing facilities are optimized for small data sets and large amounts of CPU power is deployed with a few specific applications such as simulations. However, life science research has special demands. Computerome is optimized for big data analysis with parallelism, intelligent handling of multiple data types and diverse tasks like image analysis and DNA assembly while ensuring high security.

To ensure the highest levels of security and compliance the Computerome center set out to consolidate and implement a new solution to analyze the log data generated by the Supercomputer and the attached systems, in particular the storage units holding vast amounts of data.

computerome DTU

FACTS	
Customer	Computerome
Industry	Education, IT Services
Location	Copenhagen, Denmark
Objectives	Increasing cybersecurity and ensuring regulatory compliance
Results	• Detects unusual behavior • Ensures regulatory compliance • Provides enhanced security for vast amounts of sensitive data

THE SOLUTION

“Realizing that SIEM is not an off-the-shelf product in High Performance Computing, a key requirement was for a flexible platform that would easily integrate with the Computerome systems at a scale and a vendor with that can offer the custom integration services”, says Peter Løngreen, National Life Science Supercomputing Center.

The Logpoint SIEM solution was selected as the solution to fulfil those requirements. A cornerstone of the Logpoint architecture is the flexibility in integration with different sources. This is achieved with Logpoint’s single taxonomy and compiled plugins that normalize any log data into Logpoint’s standardized format. There are hundreds of plugins for integration available out-of-the- box when deploying Logpoint and custom integrations are provided as part of the normal support process.

THE RESULTS

At the Computerome, Logpoint enables real-time monitoring of security controls, provides real-time data analysis to early detect possible data breaches, data collection, data storage and accurate data reporting. The built-in log analysis engine is configured to automatically detect and notify of all critical events in the Computerome system, including operation awareness, system breakdowns, user authentication issues and much more before they happen.

“Logpoint allows Computerome administrators to quickly detect unusual behavior in the system and to prevent misuse and data breaches. It provides that extra layer of security on top of the established security controls, which is required when handling vast amounts of data. It also allows us to provide our users with full insight and transparency”, says Peter Løngreen. Logpoint helps support the tough compliance requirements at Computerome. The solution provides easy access and overview for administrators, auditors and regulators to prove and document compliance in reports that tracks data flows and transactions. Including file system and database activities, file access reports, account management and data modification reports etc.

CONTACT LOGPOINT

If you have any questions or want to learn more about Logpoint and our modern SIEM solution visit www.logpoint.com

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Peter Løngreen
Director