Solving the Storage Challenges of IoT Analytics with Cynny Space and Elasticsearch

Analytics-ready data infrastructure based on software defined object storage solution

elasticsearch + cynny space = IOT and Big Data

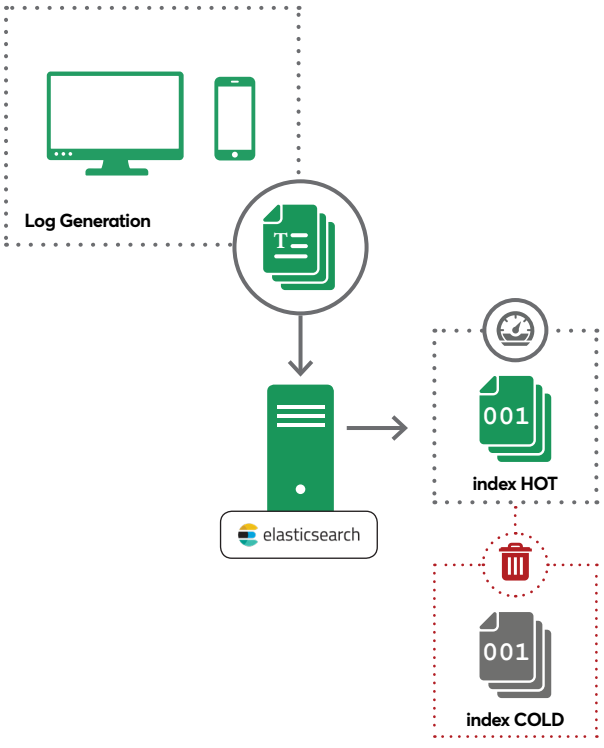
Client challenge

Our client, an **electronics company** is looking to upgrade his **IT infrastructure** to meet the companies changing necessities.

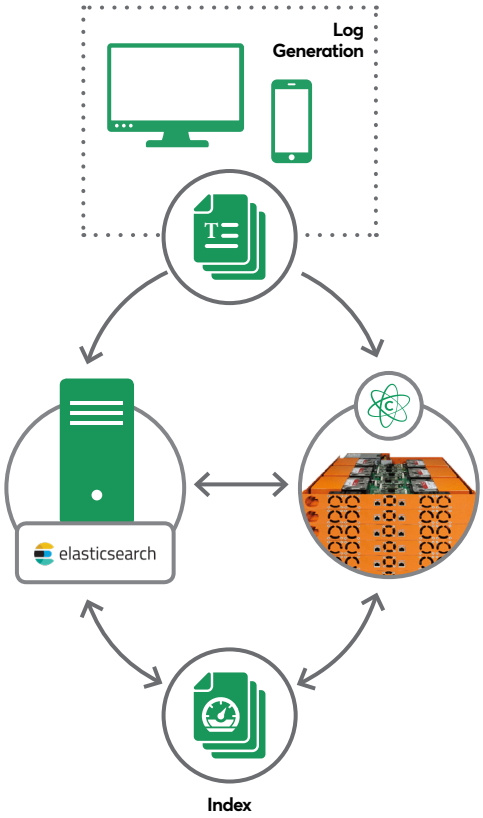
The **log files** produced by servers' systems, software applications, **databases**, and network devices are currently elaborated by **generating indexes** with a short life cycle that then require **archiving**.

The company needs to improve **data availability** and **storage capacity** and the new solution needs to be **scalable** to match a future **expansion** of the business.

Historically, the **log files** have been stored on a **large-capacity NAS** system, bogged down with data the system is no longer **effective**, and the cost of upgrading the system is high and **counterproductive** to business.



Final setup



- Elasticsearch thanks to S3 compatibility is connected directly and natively.
- Cynny Space suggests a shift to object-based storage to optimize management of generated indexes.
- Cloud object storage flat structure can hold unlimited number of files.
- Data can now be kept in long term retention and easily analyzed granularly at a later date.

Results

Using a Big data analytic platform like Elasticsearch (vital for getting actionable insights from IoT data) alongside the Cynny Space Object Storage solution the client can centralize the storage of machine data securely and have the data immediately available for analysis.

The Cynny Space solution

Cynny Space is an S3 compatible object storage solution that simplifies and fortifies data management.

Thanks to the innovative ARM® based file-system, the Cynny Space solution can grow rapidly to any size without reconfigurations or downtime. Extreme scalability means that cost, power, and bandwidth grow linearly as nodes are added to the storage. The solution comes with full maintenance and support included and the SwARM file system is designed to sustain and repair any hardware failure. Unprecedented energy savings delivered by the ARM® micro-servers reduces electricity costs considerably.
The direct and indirect savings make Cynny Space's storage a great storage solution for IoT Analytics.

Key benefits

- S3 compatible with seamless integration
- Unlimited scalability
- Long term data retention
- Optimized data management and analytics
- Lightweight HTTP protocol RESTful API

Conclusion

Cynny Space's scalable solution combined with Elasticsearch provides high-performance access for analytics processing, and long-term retention at a highly competitive cost.

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