

RYFT CLOUD

Achieve smarter, more sophisticated data analytics with push-button ease of use on cloud-based data and analytics platforms

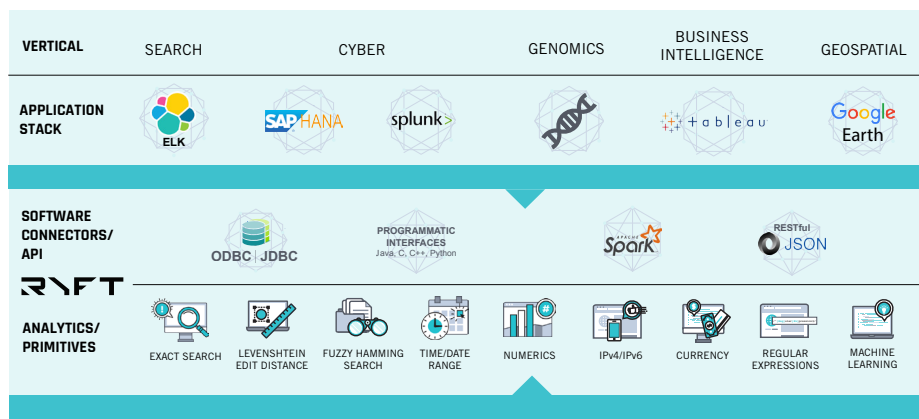
ANALYTICS: SIMPLY SMARTER. SIMPLY ACCELERATED.

Ryft Cloud delivers the never before possible ability to achieve smarter, faster data analytics in the cloud by leveraging the massive performance benefits of FPGA-accelerated architectures—all with push-button ease of use. Boosting performance by 91X compared to traditional CPU-based cloud analytics, Ryft Cloud powers the next generation of tools that organizations need to analyze and understand their data immediately, with no delay and no boundaries defined by analytics platform limitations.

Finally, users of cloud-based data and analytics applications can fully leverage FPGA-accelerated analytics—without the steep learning curve—with Ryft’s high-performance and easy-to-use analytics algorithms and application connectors. Ryft’s proven history of delivering supercharged yet easy-to-use FPGA- and CPU-based heterogeneous compute accelerators makes Ryft Cloud a natural fit to enable the growing base of cloud customers to gain tremendous value from newly emerging accelerated cloud offerings.

RYFT POWERS COMPLEX ANALYTICS APPLICATIONS TO SPEED BUSINESS INSIGHTS

Whereas traditional FPGA-based data analytics appliances proved too difficult and too costly for the average enterprise to deploy, program and maintain, Ryft’s cloud-based solutions make use of Ryft’s open API, providing a library of analytics algorithms and connectors that abstract away traditional FPGA complexity. The result is a fast and simple cloud-based architecture harnessing the power of FPGA-based heterogeneous compute systems. With Ryft, all organizations can benefit from the FPGA’s performance gains without needing any specialized knowledge.



RYFT EXTENDS AND EXPANDS CLOUD-BASED ANALYTICS PERFORMANCE AND FUNCTIONALITY

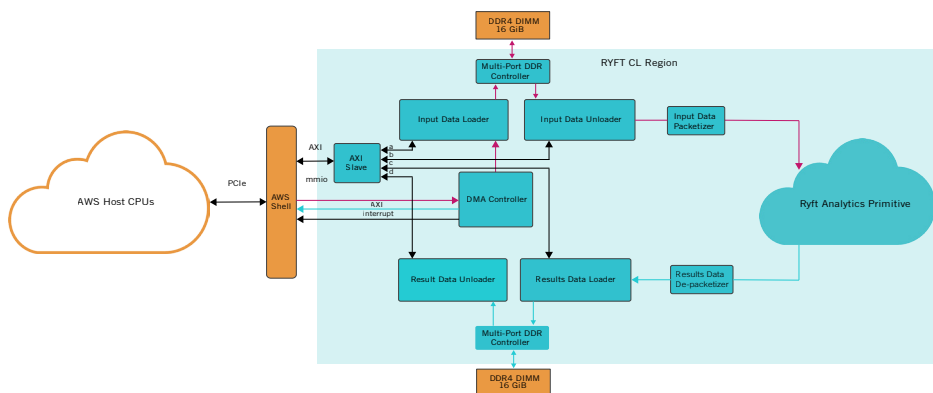
Ryft Cloud is currently available to Amazon Web Service customers through the AWS Marketplace. Depending on the analytics need, customers can choose between two Amazon Machine Images (AMIs), including:

Toolkit Powered by Ryft’s Heterogeneous Computing: Ryft’s developer toolkit enables users to instantly—and without a steep learning curve—integrate smarter, more sophisticated search and analysis capabilities into existing data analytics interfaces and/or applications. Toolkit Powered by Ryft increases the speed and quality of analytics insights by:

- **Seamlessly integrating with your current analytics environment** via a series of APIs and connectors—including programmatic interfaces, command line, RESTful JSON, ODBC/JDBC and more—to access the powerful FPGA enabled data analysis functions needed for faster insights and smarter business decisions.
- **Getting more accurate and actionable insight** with significantly enhanced fuzzy Hamming and Levenshtein (Edit Distance) search as well as PCRE2 Regular Expression capabilities on both structured and unstructured data.
- **Turning big data into small data** by analyzing and thinning data in near real time with no data indexing, transformation or curation requirement.

Elasticsearch Powered by Ryft's Heterogeneous Computing: Ryft's Elasticsearch takes the widely used Lucene-based search engine and supercharges performance with expanded Regular Expression and fuzzy search capabilities. Elasticsearch Powered by Ryft enables users to gain immediate insights on both pre- and post-indexed data by:

- **Enhancing Regular Expression capabilities** with full PCRE2 searching in near real time.
- **Increasing the power of edit distance** with user selectable changes to large (>2) distance requests for Fuzzy Hamming and Levenshtein searches.
- **Speeding search and analysis** across unstructured data and JSON, XML, LOGs, CSV, TSV and other files with no data transformation requirements.
- **Augmenting wildcard searches** to include leading wildcard characters.

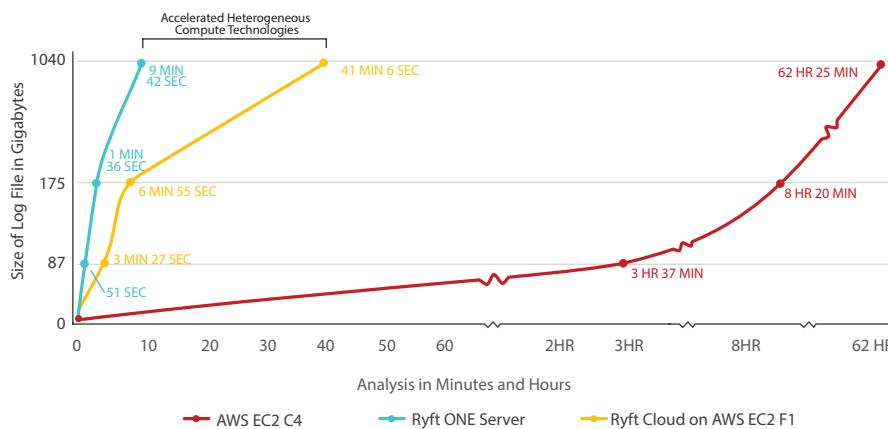


Ryft seamlessly integrates using Amazon F1 instance deployment.

BENCHMARKS: RYFT OUTPERFORMS HIGH PERFORMANCE CPU-BASED CLOUD INSTANCES BY 91X

Currently available on the Amazon EC2 F1 platform, Ryft Cloud combined with the powerful F1 accelerated compute instance gives organizations the unprecedented ability to quickly and easily extract critical insights from all their data.

Ryft on Amazon F1 consistently performed in a fraction of the time it took to run the same query on a single AWS C4.8xlarge instance type. Benchmark tests using Ryft and F1 instances processed and completely searched 87 GB, 175 GB and 1 TB of log file data 63X, 72X and 91X faster, respectively.



Benchmark comparisons of a search via Elasticsearch on AWS EC2 C4 instance vs. Ryft ONE server vs. Ryft Cloud on Amazon EC2 F1 Instance.

DEPLOY IN MINUTES. RESULTS IN SECONDS.

Getting started with Ryft on the AWS F1 instance is easy. Simply go to the AWS Marketplace and search for “Ryft” to view and launch the AWS F1 instance with Ryft to accelerate and enhance your data analytics.

ABOUT RYFT

Ryft unlocks the power of FPGAs for fast, simple high-performance data analytics in cloud, on-premise and hybrid environments. Without requiring specialized programming skills, Ryft's platform works seamlessly with your data ecosystem to supercharge business analytics application performance by eliminating data indexing and transformation latency. Today, industry leaders rely on Ryft to deliver fast and actionable insights from all their data.

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