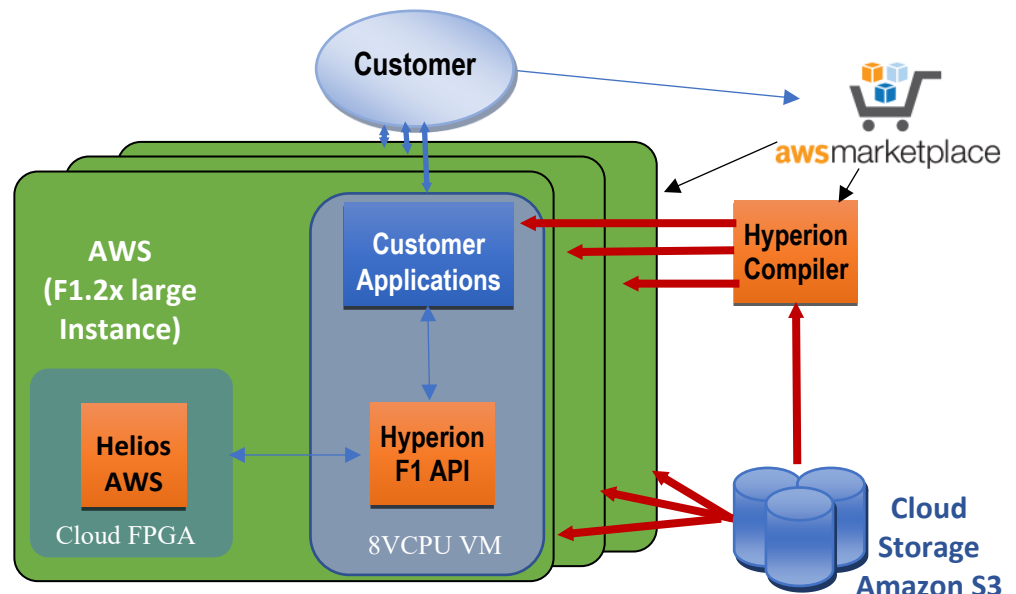


## AWS F1 HYPERSCALE FILE SCAN AND LOGFILE ANALYTICS ACCELERATION



Hyperion F1 10G Regex File scan is a high-performance Regular Expression (RegEx) offload accelerator designed for the AWS F1 Virtual Appliance marketplace and used for in-cloud hyperscale log analytics and file scanning. Hyperion F1 10G Regex File scan is optimised for the Amazon cloud fabric, taking advantage of the new AWS F1 in-cloud FPGA technology, enabling elastic scaling of data analytics acceleration of hundreds of Petabytes of data.

Hyperion F1 10G Regex File scan is comprised of a 10G Helios IP core image configured easily via a web based client application. The Hyperion F1 10G Regex File Scan Software Development Kit (SDK) allows direct integration of offload acceleration within customer application using Hyperion F1 API.

### KEY FEATURES.....

- ❖ RegEx solution with single core options for 10G file scan.
- ❖ Optimised for file scanning and log analytics for 16KB job processing
- ❖ Scalable beyond Petabit offload acceleration
- ❖ Supports up to 1M regex rules using external DDR4
- ❖ Supports POSIX/PCRE compatible regular expressions
- ❖ Comprehensive SDK to assist in customer application integration:
  - RXP Compiler
  - Application Programming Interface (API) for plugin development
  - Sample apps
  - Utilities
- ❖ Custom and flexible scanning with offline compilation of customer RegEx rulesets

## KEY BENEFITS.....

- ❖ Easy set up and rental model using AWS Marketplace service model
- ❖ Easily extends beyond Petabit performance by cascading hundreds of Helios AWS instances
- ❖ Integrated within the AWS F1 infrastructure taking advantage of the AWS cloud fabric (computing, network and storage)
- ❖ Offload of data analytic functions from host CPU freeing up resources and saving cost
- ❖ Solution does not rely on embedded Regex rules, customers can use their own regular expressions dataset for customisable searches.

## APPLICATIONS.....

- ❖ Security Analytics Acceleration (SAA)
- ❖ Security log analytics offload to accelerate Security Information and Event Management (SIEM) tools.
- ❖ Security forensics acceleration
- ❖ Rule-based analytics of massive datasets (>Petabytes) to filter and extract relevant data
- ❖ Advanced auditing and policing of user/application security policies
- ❖ File scanning
- ❖ Data Mining

## CAPABILITIES & RESOURCES.....

Hyperion F1 10G Regex File scan is optimised for the F1.2xlarge instance launch the solution on <https://aws.amazon.com/marketplace>

	f1.2xLarge
Network bandwidth in to the instance	10 Gbps
Total vCPUs on instance	8
Number of vCPUs for 10 Gbps throughput	1-2 + Xilinx VU9P
Number of vCPUs available for client application	6-7
Regex Support	up to 1M Simple to medium complexity

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