CloudSigma

Customer Success Story

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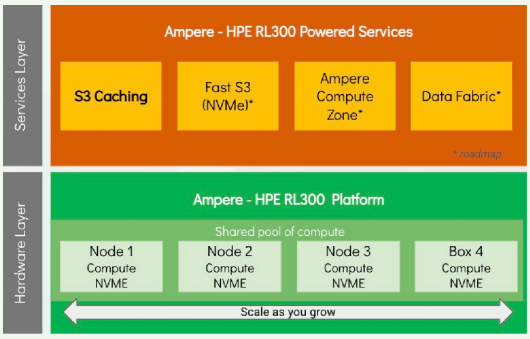
CUSTOMER PROFILE

CloudSigma build an Ampere Compute fabric (ACF) that serve next-gen cloud services like S3 Caching, Fast S3, KVM ARM Virtualization/Cloud Native Applications and an Next-Gen Data fabric for IoT platform, Intelligent SaaS and real-time BI applications.

Built for sustainable cloud computing, Ampere Computing's Cloud Native Processors feature a single-threaded, multiple core design that's scalable, powerful, and efficient.

AMPERE®

https://amperecomputing.com/



CloudSigma Ampere Compute Fabric (CS ACF) is the foundation for delivering next-gen cloud services for modern cloud-native application.

CloudSigma Ampere Compute Fabric (CS ACF) is a pool of ARM-based compute that can be shared and balance across the services.

CloudSigma Ampere Compute Fabric (CS ACF) benefits are:

- low CAPEX and OPEX which drive a low cost of delivery and **increase profitability**
- **limited upfront** investment by starting small and grow on-demand
- **fully integration** into CloudSigma platform for IAM/SSO, Monitoring/Metering and Billing/Invoicing
- **fully integrated with the CloudSigma network topology** for data transfer monetization, QoS, multi-tenancy and security

ORGANIZATION

CloudSigma offers a unique fully managed cloud solution based on a revenue sharing business model. IT service providers around the globe are partnering with CloudSigma to derisk and accelerate their cloud strategies.

CHALLENGE

CloudSigma partners need to lower their OPEX and CAPEX but also need to bring Innovation to the cloud market demand while keeping their cost of delivery low. They are also committed on their Corporate Social Responsibility by reducing their environmental footprint.

Solution

CloudSigma extends its Cloud Service Catalog with disruptive offering like S3 Caching lowering cost of delivery and literally remove cost of AWS traffic and API calls. These new services will be based on a shared and scalable compute fabric based on Ampere and HPE RL300 that increase performance by 3 and reduce carbon footprint by 3.

CloudSigma Ampere compute fabric will also support other services like “Fast S3 for AI/ML latency sensitive apps”, “KVM ARM for virtualization and cloud native application” and “Cloud Native Data fabric for Transactional processing, Real-time BI analytics or ML Predictive analysis workload”.

Result

Partners will be able to sell new disrupting cloud services while keeping a low cost of delivery, a high profitability and reducing their Carbon footprint.

End-Customers benefits are:
- S3 caching by removing “hidden” cost of AWS S3 data transfer and API calls
- Fast S3 based on NVMe storage for low latency-sensitive applications
- Ampere Compute Zone for ARM based workload and cloud-native application (Kubernetes)
- Turnkey Cloud-Native Data Fabric for building IoT platform, Intelligent SaaS or RT BI application.

S3 Cashing - Why

AWS S3 is the reference for Object Storage but customers often forget about hidden cost and get surprised when it’s time to pay.

CloudSigma introduce S3 Caching to offload these hidden costs and reduce the bill but also increase performance by having the data locally.

Here’s an example with a 10TB AWS S3 bucket where the consumer will pay 1192 USD monthly.

AWS S3		
Standard storage	10 TB per month	
Data move using API PUT, COPY POST request	yes	fr
Standard Average Object Size	16 MB	N
PUT, COPY, POST, LIST requests to S3 Standard	10000 per month	
GET, SELECT, and all other requests from S3 Standard	10000 per month	
Data returned by S3 Select	8 TB	
Data scanned by S3 Select	8 TB	
	SubTotal for AWS S3 Standard Storage	
AWS Data transfer		
Inbound internet	10 TB	fr
Outbound internet	10 TB	

With S3 caching, the consumer will be able to save up to 62% by offloading API calls and data transfer.

with CloudSigma S3 Caching		
S3 Storage	10 TB	0
S3 Caching Data transfert inbound	10 TB	0
S3 Caching Data transfert outbound	10 TB	204.8
	TOTAL with AWS S3 + CloudSigma S3 Caching	**450.56**
	Savings ($)	**741.8428**
	Savings %	**62.21%**

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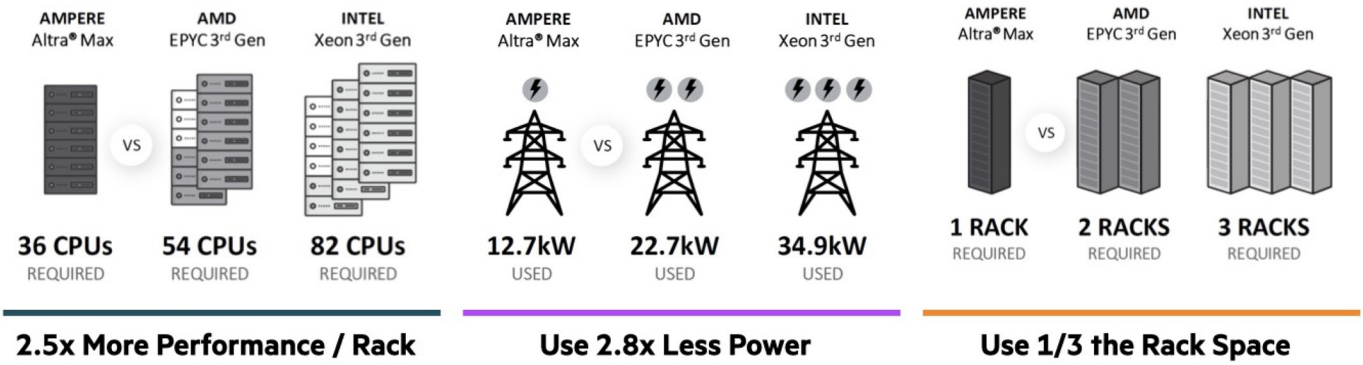
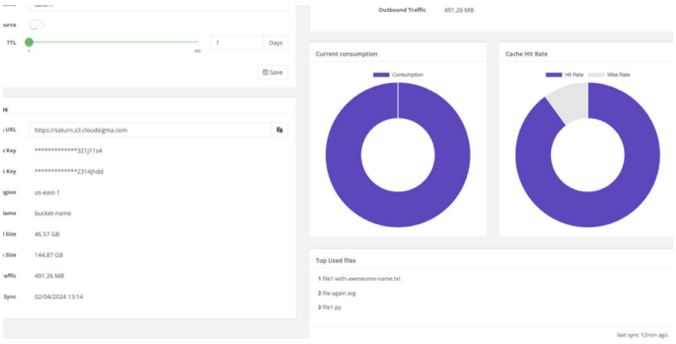


Solution

The CloudSigma solution is composed of 2 layers:
- The first layer is the CloudSigma Ampere Compute Fabric (ACF) and it correspond to the “hardware layer”. It provides a pool of compute ressources consumed by the service layer.

- The second layer is the “service layer” where sits the S3 caching and other services.

S3 Caching is exposed via our interfaces (WebApp UI, API). CloudSigma where the consumer will be able to manage the service.



S3 Caching is also fully integrated and benefits from the core CloudSigma functionalities like IAM/SSO, metering/monitoring and billing/invoicing, scale for cloud native, mission critical workloads.

Conclusion

CloudSigma Ampere Compute Fabric is a unique fabric design to serve next-generation workload while keeping low cost of delivery and achieving sustainability goals.

CloudSigma S3 Caching is the first of a long series of next-generation services designed to increase performance with a low cost of delivery.

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ABOUT US

CloudSigma is a pure-cloud infrastructure-as-a-service (IaaS) provider that's enabling the digital industrial economy through its highly-available, flexible, enterprise-class hybrid cloud servers and cloud hosting solutions in Europe, the U.S., Asia and Australia. CloudSigma is the most customizable cloud provider on the market, giving customers full control over their cloud and eliminating restrictions on how users deploy their computing resources. With CloudSigma, customers can provision processing, storage, networks and other fundamental computing resources as they please, as well as extend private networks out of existing infrastructure and elastically into CloudSigma's IaaS cloud to create easy to manage and transparent hybrid cloud solutions.

OUR LOCATIONS

CloudSigma offers a range of locations from Europe to the United States and APAC. We are adding new locations over time as we expand our offering globally. We choose our locations very carefully to offer excellent connectivity, security and reliability for our clouds.

For more information, please visit us at **www.cloudsigma.com**

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