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UCloud Selects ScaleFlux for Data-Driven Cloud Infrastructure

Computational Storage Deployment Signals a Sea Change in IT Infrastructure Solutions to Address the Crashing Wave of Compute and Storage I/O-Intensive Applications

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SAN JOSE, Calif.--(BUSINESS WIRE)--ScaleFlux, Inc., the pioneer in deploying Computational Storage at scale, announced that UCloud, China's leading independent public cloud provider, has selected ScaleFlux to power its advanced UPHost (UCloud Physical Host) infrastructure for Big Data, Database, Data Warehousing, and a fast-growing list of data-driven applications.

ScaleFlux provides industry's first, production-qualified Computational Storage Subsystem (CSS) solutions that uniquely integrate algorithmically complex compute engines with Terabytes of 3D NAND flash storage. CSS simply integrates into standard server and storage infrastructure through an easy-to-install Linux plug-in software package combined with standard PCIe HHHL Add-In Card and 2.5" U.2 drive level form factors.

"UPHost offers outstanding computing performance to meet the core application scenarios for high performance and stability, and is built to run applications at any scale for our customers," said Xianfeng Mo, CTO and Founder of UCloud. "With the integration of ScaleFlux CSS into UPHost, we are further extending UCloud's value proposition by dramatically reducing the time to complete Big Data and Database jobs, while also optimizing flash storage capacity utilization."

Large pools of Computational Storage will eliminate the scaling roadblocks faced by data-driven infrastructure where:

(1) traditional CPUs are highly inefficient when tasked to process modern, intense workloads

(2) the latency and power to move massive datasets from storage to the CPU is too expensive

(3) compute-intensive workloads can be sped up by orders-of-magnitude when parallelized across flash storage subsystems

These scaling challenges are commonly faced with applications in the field of Big Data, Database, Data Warehousing, Content Delivery, Search, Machine Learning, AI, VR, Genomics, Security, High-Performance Computing, and many others.

"By taking an evolutionary and simple approach to integrating CSS into application frameworks, we are delighted to provide our revolutionary Computational Storage solutions for UCloud's UPHost infrastructure that will open new revenue generating use-cases for data-driven applications at scale with fast time-to-market," said Hao Zhong, CEO and co-founder for ScaleFlux, Inc. "One of the primary values of CSS is the ability to reprogram new hardware acceleration engines in-system, which can evolve the infrastructure in lock step with new customer demands."

ScaleFlux CSS features field-programmable gate arrays (FPGAs) and enables acceleration for compression, erasure coding, and KV store, in addition to encryption, authentication, and common compute intensive algorithms. Future application level acceleration algorithms such as database queries, machine learning, AI, media transcoding, search, and many more, can be dropped into the same hardware infrastructure. By taking a programmable hardware approach, ScaleFlux has set CSS apart from commodity SSDs through the addition of proven, application level, value-added features while facilitating mass deployment of state-of-the-art 3D NAND Flash media.

ScaleFlux CSS is available for customer deployment today. More information is located at www.scaleflux.com.

About ScaleFlux, Inc. (www.scaleflux.com)

ScaleFlux is the pioneer in providing Computational Storage Subsystem (CSS) solutions at scale. CSS is the foundation for modern, data-driven infrastructure that provides responsive performance, affordable scaling, and agile platforms for compute and storage I/O intensive applications. Founded in 2014, ScaleFlux is a well-funded startup with leaders proven to deploy complex computing and solid-state storage solutions in volume.

About UCloud (www.ucloud.cn)

UCloud (Shanghai UCloud Cloud Computing Co., Ltd.) is a leading IaaS service provider in China. UCloud's own R&D solutions range from computing and storage to network resources and other fundamental IT infrastructure that enterprises need. UCloud has provided services to 50,000 enterprise customers worldwide.

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