May 13, 2014

AMD's SeaMicro SM15000(TM) Server Sets Industry Benchmark Record for Hyperscale OpenStack Clouds

Canonical Ubuntu OpenStack 14.04 (Icehouse) on SeaMicro SM15000 Server Scales to 168,000 Virtual Machines

SAN FRANCISCO, CA -- (Marketwired) -- 05/13/14 -- AMD (NYSE: AMD) today announced that its SeaMicro SM15000™ server set a significant industry benchmark record for hyperscale cloud computing with a demonstration that highlights how OpenStack can quickly and reliably provision on-demand computing services at scale. The test provisioned 168,000 virtual machines on 576 physical hosts. The first 75,000 virtual machines were deployed in six hours and thirty minutes. This is the largest known demonstration of OpenStack scalability ever. AMD achieved the record in collaboration with Canonical using the Ubuntu OpenStack (Icehouse) distribution. MaaS (Metal as a Service), part of Ubuntu 14.04 LTS and Ubuntu OpenStack, was used to deliver the bare metal servers, storage and networking. The solution is available today and is the most scalable, automated application for deploying OpenStack in hyperscale environments.

"This record validates that the SeaMicro SM15000 is well suited for massive OpenStack deployments," said Dhiraj Mallick, corporate vice president and general manager, AMD Data Center Server Solutions. "The combination of Ubuntu OpenStack and the SeaMicro SM15000 server provides the industry's leading solution to build cloud infrastructure that is highly responsive and ideal for on-demand services."

Ubuntu OpenStack 14.04 provides SeaMicro SM15000 integration with support for the system's RESTful application programming interface (API). AMD's SeaMicro SM15000 is the only dense server that natively provides RESTful APIs without requiring a separate management application, while accelerating automation and simplifying management by creating standard interfaces to provision compute, storage and networking resources. The SeaMicro SM15000 provides the most flexible, scalable and resilient data center infrastructure in the industry.

"We have raised the bar once again and firmly established Ubuntu OpenStack as the fastest and most reliable way to build a public or private cloud," said Mark Shuttleworth, founder of Ubuntu and Canonical. "Ubuntu OpenStack stands out with its performance and sophisticated tools to provision, build and manage hyperscale clouds."

AMD's SeaMicro SM15000 Server

AMD's SeaMicro SM15000 system is the highest-density, most energy-efficient server on the market. In 10 rack units, it links 512 compute cores, 160 gigabits of I/O networking and more than five petabytes of storage with a 1.28 terabyte high-performance supercompute fabric, called Freedom™ fabric. The SM15000 server eliminates top-of-rack switches, terminal

servers, hundreds of cables and thousands of unnecessary components for a more efficient and simple operational environment.

AMD's SeaMicro server product family currently supports the next-generation AMD Opteron™ ("Piledriver" core) processor, Intel® Xeon® E3-1260L ("Sandy Bridge"), E3-1265Lv2 ("Ivy Bridge"), E3-1265Lv3 ("Haswell") and Intel® Atom™ N570 processors. The AMD SeaMicro SM15000 also supports the Freedom Fabric Storage products, enabling a single system to connect with more than five petabytes of storage capacity in two racks. This approach delivers the benefits of expensive and complex solutions such as network attached storage (NAS) and storage area networking (SAN) with the simplicity and low cost of direct attached storage.

Supporting Resources

- Learn more about AMD's SeaMicro SM15000 here
- Download AMD's OpenStack Reference Architecture here
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Source: Advanced Micro Devices