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AMD Creates Ready-to-Deploy OpenStack Private Cloud in a Box Based on the SeaMicro SM15000 Server

Packaged Bundle With Canonical Ubuntu Delivers Industry's Easiest Way to Create an Enterprise OpenStack Private Cloud

SAN FRANCISCO, CA -- (Marketwired) -- 09/16/14 -- AMD (NYSE: AMD) today announced a new collaboration with Canonical® that provides one of the industry's easiest ways to deploy an OpenStack® private cloud. The solution features the SeaMicro SM15000™ server, Ubuntu® LTS 14.04 and OpenStack, which includes a set of powerful tools to build one of the most flexible and reliable private clouds. The AMD and Canonical collaboration overcomes the complexity of deploying OpenStack technology and provides an out of the box experience making it possible to deploy a private cloud in hours compared to days. The joint solution automates complex configuration tasks, simplifies management, and provides a graphical user interface to dynamically deploy new services on demand.

"AMD and Canonical have dedicated a tremendous amount of engineering resources to ensure an integrated solution that removes the complexity of an OpenStack technology deployment," said Dhiraj Mallick, corporate vice president and general manager, AMD data center server solutions. "The SM15000 server, Ubuntu LTS 14.04 and OpenStack is an amazing solution filling a need in the industry for an OpenStack solution that can be deployed easily without spending a fortune on professional services or hiring teams of people."

The SeaMicro SM15000 server and Ubuntu LTS 14.04 and OpenStack solution is one the most scalable solutions in the industry, as demonstrated in setting the industry benchmark record for hyperscale cloud computing. The record of 168,000 virtual machines was achieved using MAAS (Metal as a Service) and Juju, both part of Ubuntu LTS 14.04 and OpenStack. MAAS was used to deliver the bare metal servers, storage and networking, and Juju was used for deployment. The solution is available today and is the most scalable, automated application for deploying Ubuntu LTS 14.04 and OpenStack in hyperscale environments.

"Canonical has developed the most sophisticated set of tools in the industry to remove the complexity of an enterprise grade OpenStack deployment," said John Zannos, vice president of cloud channels and alliances at Canonical. "The AMD-Canonical OpenStack solution bundle will help drive increased velocity for clients seeking to leverage scale-out cloud technology for next generation workloads."

AMD-Canonical Out of the Box Solution Details:

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AMD Hardware                          Canonical Software
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-- SeaMicro SM15000 server provides   -- Ubuntu LTS 14.04 and OpenStack
the following in 10 rack units:
  -- 3 Cloud Controllers                 -- Ubuntu server
  -- 57 Nova nodes                       -- MAAS
  -- 3 Cinder nodes                      -- Juju
  -- 64 GB Object Storage
  -- 128 GbE NICs (Max. 512 possible)
  -- Integrated Layer 2 Switching
  -- 80 Gbps I/O
  -- Consume 55 Watts per server
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AMD's SeaMicro SM15000 Server
AMD's SeaMicro SM15000 system is one of the highest-density, most energy-efficient servers in the market. In 10 rack units, it links 512 CPU cores, 160 gigabits of I/O networking, 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® E3-1265Lv2 ("Ivy Bridge"), E3-1265Lv3 ("Haswell") processors. The SeaMicro SM15000 server 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.

To learn more about the AMD-Canonical solution, please contact seamicro@amd.com.

Supporting Resources

- Learn more about AMD's SeaMicro SM15000 server here
- Download AMD's OpenStack Reference Architecture here
- Become a fan of AMD on Facebook
- Follow AMD Server on Twitter
- Follow AMD on LinkedIn
- Read more about AMD's hyperscale cloud computing industry benchmark record here

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