Oracle and NVIDIA Bring the Power of the Cloud to the Next Generation of Analytics, Machine Learning and AI

First public cloud provider to support NVIDIA HGX-2 to give customers access to a unified data science, HPC and AI computing architecture

GTC Europe--Oracle (NYSE:ORCL) and NVIDIA (NASDAQ: NVDA) today announced that Oracle is the first public cloud provider to support the NVIDIA HGX-2™ platform on Oracle Cloud Infrastructure, to meet the needs of the next generation of analytics, machine learning and AI. The companies are also announcing the general availability of support for GPU-accelerated deep learning and HPC containers from the NVIDIA GPU Cloud™ (NGC) container registry on Oracle Cloud Infrastructure.

From enabling autonomous vehicles to driving global climate simulations, rapid progress in AI and HPC has transformed entire industries while also demanding massive increases in complexity and compute power. HGX-2 is designed for multi-precision computing to accelerate the most demanding applications by unleashing 2 petaflops of computing power and half a terabyte (TB) of total GPU memory with 16 NVIDIA Tesla® V100 Tensor Core GPUs interconnected with NVSwitch™. Supporting HGX-2 on both Oracle Cloud Infrastructure bare-metal and virtual machine instances, Oracle and NVIDIA are helping customers solve the greatest AI and HPC challenges for the most complex workloads.

Oracle is also announcing support for RAPIDS™ open-source software introduced today by NVIDIA for executing end-to-end data science training pipelines accelerated on NVIDIA GPUs. RAPIDS will be available this week on Oracle Cloud Infrastructure via NGC. RAPIDS dramatically accelerates data science pipelines by moving workflows onto the GPU. This optimizes machine learning training with more iterations for better model accuracy. Data scientists can quickly integrate RAPIDS with hassle-free integration and minimal code changes, enabling them to significantly accelerate the Python data science toolchain. With this new offering and support for NGC containers, Oracle and NVIDIA are allowing customers to easily deploy containerized applications and frameworks for HPC, data science and AI and run them seamlessly on Oracle Cloud Infrastructure.

Oracle Cloud Infrastructure is also working with NVIDIA to support RAPIDS across its platform, including the Oracle Data Science Cloud, to further accelerate customers' end to-end data science workflows. RAPIDS software runs seamlessly on the Oracle Cloud, allowing customers to support their HPC, AI and data science needs, all while taking advantage of the portfolio of GPU instances available on Oracle Cloud Infrastructure.

"We are very excited about this collaboration with NVIDIA. As the world of computing continues to push the boundaries of what's possible, we are providing our customers with the software, tools and cloud infrastructure needed to solve the most complex challenges,'' said Clay Magouyrk, senior vice president, software development, Oracle Cloud Infrastructure. "Whether you are an engineer, data scientist, researcher or developer, we are bringing the power of compute and cloud to your fingertips.

"This new collaboration with Oracle will help fuel incredible innovation across a wide range of industries,'' said Ian Buck, vice president and general manager of Accelerated Computing at NVIDIA. "By taking advantage of NVIDIA's latest technologies, Oracle is well positioned to meet surges in demand for GPU acceleration for deep learning, high-performance computing, data analytics and machine learning.''

About Oracle Cloud Infrastructure

Oracle Cloud Infrastructure is the enterprise Infrastructure as a Service (IaaS) platform. Companies of all sizes rely on Oracle Cloud to run enterprise and cloud native applications with mission-critical performance and core-to-edge security. By running both traditional and new workloads on a comprehensive cloud that includes compute, storage, networking, database, and containers, Oracle Cloud Infrastructure dramatically increases operational efficiency and lowers total cost of ownership. For more information, visit https://cloud.oracle.com/iaas.

About Oracle

The Oracle Cloud offers complete SaaS application suites for ERP, HCM and CX, plus best-in-class database Platform as a Service (PaaS) and Infrastructure as a Service (IaaS) from data centers throughout the Americas, Europe and Asia. For more information about Oracle (NYSE:ORCL), please visit us at www.oracle.com.

About NVIDIA

NVIDIA's (NASDAQ: NVDA) invention of the GPU in 1999 sparked the growth of the PC gaming market, redefined modern computer graphics and revolutionized parallel computing. More recently, GPU deep learning ignited modern AI—the next era of computing—with the GPU acting as the brain of computers, robots and self-driving cars that can perceive and understand the world. More information at http://nvidianews.nvidia.com/.

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Media Contacts

Danielle Tarp
+1 650 506 2905
danielle.tarp@oracle.com
Kristin Bryson
+1 203 241 9190
kbryson@nvidia.com