

Oak Ridge National Laboratory Delivers Accessible, Powerful Supercomputing Environment with Red Hat OpenStack Platform

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Red Hat's open cloud technologies help extend supercomputing access to broaden scientific and computational research with CADES

BOSTON--(BUSINESS WIRE)-- Red Hat, Inc. (NYSE: RHT), the world's leading provider of open source solutions, today announced that [Oak Ridge National Laboratory \(ORNL\)](#), a multiprogram science and technology laboratory managed by the United States Department of Energy, is using Red Hat OpenStack Platform to deliver cloud services in its Compute And Data Environment for Science ([CADES](#)). The cloud operations at ORNL have been customized to offer self-serve, Infrastructure-as-a-Service (IaaS) capabilities for ORNL's staff and is being progressively expanded with platform and analytics services specific to the research needs of the scientific staff. CADES uses the flexible, highly scalable power of Red Hat OpenStack Platform to extend the accessibility of ORNL's world-class supercomputing environment to a broader set of scientific research projects.

Housing some of the world's most powerful supercomputers, ORNL is at the forefront of research in a variety of areas critical to the Department of Energy - from the physical and environmental sciences to neutron and nuclear science. While the supercomputing platforms provide the processing power and analytics capabilities to handle the most extreme research workloads, ORNL has deployed the on-demand, self-service cloud within CADES to complement the computing and data needs for a broad range of research at the laboratory, ultimately facilitating an on-ramp to leadership computing as an instrument for discovery.

At the start of the CADES development cycle, the Laboratory recognized the need for extreme flexibility and scalability of the underlying technology, as well as a need for open standards and components. By selecting Red Hat OpenStack Platform, ORNL gained the benefits of the community-driven OpenStack cloud framework backed by the enterprise-class support and reliability of Red Hat's extensive expertise. In 2013, ORNL deployed Red Hat OpenStack Platform to form the cloud component of CADES with the backing of Red Hat's support infrastructure, including training and Red Hat's award-winning global support team.

Built on the proven, enterprise-grade backbone of Red Hat Enterprise Linux, Red Hat OpenStack Platform delivers a reliable cloud platform for mission-critical and data-intensive workloads. Hardened from OpenStack community code, Red Hat OpenStack Platform provides the agility to scale and more quickly meet demand without compromising availability, performance or IT security requirements.

CADES extends the leading-edge technologies of ORNL's supercomputing resources to scientific and computational researchers in an easy-to-consume manner. By emphasizing support for data-driven computing and analytics, as well as cross-platform workflows, ORNL researchers are now able to run a variety of scale and type of workloads depending on the domain requirements. This means that users can spin up clusters, move and process data across facilities and accelerate the process of discovery.

Supporting Quotes

Radhesh Balakrishnan, general manager, OpenStack, Red Hat

"Red Hat prides itself on pairing community innovation with enterprise-grade stability and support, and Red Hat OpenStack Platform is a paradigm for how stable, open innovation should look and function. Oak Ridge National Laboratory's CADES project takes full advantage of Red Hat's expertise in upstream community innovation backed by our award-winning support, and we're pleased that our relationship helps to drive scientific and computational research forward."

Arjun Shankar, director, Compute and Data Environment for Science (CADES), Oak Ridge National Laboratory

"CADES offers a science-focused computing and data-analytics environment that requires underlying flexibility and robustness coupled with a set of powerful tools. A key part of this is a configurable cloud and Red Hat OpenStack Platform offers us exactly that."

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Forward-looking statements

Certain statements contained in this press release may constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements provide current expectations of future events based on certain assumptions and include any statement that does not directly relate to any historical or current fact. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including: risks related to delays or reductions in information technology spending; the effects of industry consolidation; the ability of the Company to compete effectively; the integration of acquisitions and the ability to market successfully acquired technologies and products; uncertainty and adverse results in litigation and related settlements; the inability to adequately protect Company intellectual property and the potential for infringement or breach of license claims of or relating to third party intellectual property; the ability to deliver and stimulate demand for new products and technological innovations on a timely basis; risks related to data and information security vulnerabilities; ineffective management of, and control over, the Company's growth and international operations; fluctuations in exchange rates; and changes in and a dependence on key personnel, as well as other factors contained in our most recent Annual Report on Form 10-K (copies of which may be accessed through the Securities and Exchange Commission's website at <http://www.sec.gov>), including those found therein under the captions "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations". In addition to these factors, actual future performance, outcomes, and results may differ materially because of more general factors including (without limitation) general industry and market conditions and growth rates, economic and political conditions, governmental and public policy changes and the impact of natural disasters such as earthquakes and floods. The forward-looking statements included in this press release represent the Company's views as of the date of this press release and these views could change. However, while the Company may elect to update these forward-looking statements at some point in the future, the Company specifically disclaims any obligation to do so. These forward-looking statements should not be relied upon as representing the Company's views as of any date subsequent to the date of this press release.

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