

Red Hat Provides CERN with a Platform for Mission-Critical Applications

APR 15, 2014

Red Hat Enterprise Linux, Red Hat Enterprise Virtualization and Red Hat Technical Account Management Services selected by CERN

SAN FRANCISCO--(BUSINESS WIRE)-- Red Hat, Inc. (NYSE: RHT), the world's leading provider of open source solutions, today announced that CERN, the European Organization for Nuclear Research, has deployed Red Hat Enterprise Linux, Red Hat Enterprise Virtualization and Red Hat Technical Account Management services to provide a reliable and stable platform for mission-critical applications. The project includes nearly 600 servers running Red Hat Enterprise Linux operated by CERN at its Geneva datacenter, fulfilling database, application server and backup and recovery functions.

At CERN, Red Hat Enterprise Linux runs some of the organization's most critical applications, including the Large Hadron Collider Logging Server and the central financial and HR systems for CERN's members of personnel and 11,000 users. Given the nature of these applications, operating system stability is crucial to successful operations, a need fulfilled by the reliability and high availability offered by Red Hat Enterprise Linux. Beyond uptime, Red Hat Enterprise Linux also requires minimal administrative overhead and offers CERN high flexibility and rapid deployment times for key applications and services.

In addition to using an infrastructure based on Red Hat Enterprise Linux, CERN also runs Red Hat Enterprise Virtualization in its cutting-edge LHCb experiment, which focuses primarily on identifying the differences between matter and antimatter. A stable and reliable IT infrastructure, such as that provided by Red Hat's solutions, is critical to LHCb, as it supports the controlling, configuring, and monitoring functions for approximately one million systems and processes, including detectors, temperature sensors, and power supply units as well as entire software processes.

The infrastructure is comprised of physical two-socket servers and is virtualized using Red Hat Enterprise Virtualization on Dell PowerEdge M610 servers (with Intel Nehalem or Ivy Bridge processors with between 96 GB and 256 GB RAM per server) and a Brocade FC8 SAN with a NetApp data storage system. The infrastructure is designed for high availability and is built to be completely redundant, a critical feature for CERN as control system downtime almost always results in data loss.

Beyond the crucial technologies delivered, CERN's Red Hat subscription enables the Organization to take advantage of Red Hat Technical Account Management (TAM) services. Through Red Hat TAM, CERN is assigned a dedicated technical contact person at Red Hat who helps the Organization take full advantage of its investment in Red Hat solutions, offering active consultation services and support in both strategic and operative decision-making processes.

A long-term Red Hat customer, CERN also uses other solutions from the open source specialist in different IT areas. For example, the Organization uses Red Hat JBoss Fuse, a robust, flexible, enterprise service bus (ESB) platform for integrating applications, data, services, and devices. Based on popular open source technologies, JBoss Fuse provides services for transformation, routing, and log assignments.

Supporting Quotes:

Tim Bell, group leader of IT operating systems and infrastructure services at CERN:

"We appreciate the stability and availability of solutions from Red Hat. This is extremely important to us because we use these solutions in highly critical areas where commercial support, resilience and reliability are key requirements."

Niko Neufeld, deputy project leader at CERN:

"Our LHCb experiment requires a powerful, very reliable and highly available IT environment for controlling and monitoring our 70 million CHF detector. Red Hat Enterprise Virtualization is at the core of our virtualized infrastructure and complies with our stringent requirements."

Leonard Bodmer, Red Hat country manager, Switzerland:

"We are very proud of the fact that a world renowned research institute such as CERN has not only selected Red Hat solutions, but also because these products are used in such critical areas of the organization. In the instance of Red Hat Enterprise Linux, this is further evidence of the platform's success in supporting mission-critical applications, regardless of their end purpose or composition. Naturally, we are looking forward to further collaboration with CERN and we are pleased to know that with our solutions, we are able to make a small contribution to innovative research initiatives."

Additional Resources

Read other [Red Hat customer success stories](#)

[More about Red Hat Summit](#)

Visit our [online press kit](#) for additional resources from Red Hat Summit 2014

Follow updates from Red Hat Summit Twitter at [@RedHatSummit](#) or [#RHSummit](#)

[Engage with Red Hat Summit on Facebook](#)

Connect with Red Hat

Learn more about [Red Hat](#)

Get more [Red Hat news](#) or subscribe to the [Red Hat news RSS feed](#)

Follow [Red Hat on Twitter](#)

Join [Red Hat on Facebook](#)

Watch [Red Hat videos on YouTube](#)

Join [Red Hat on Google+](#)

About Red Hat, Inc.

Red Hat is the world's leading provider of open source software solutions, taking a community-powered approach to reliable and high-performing cloud, Linux, middleware, storage and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As the connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT. Learn more at <http://www.redhat.com>.

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 Quarterly Report on Form 10-Q (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.

Red Hat, the Shadowman logo, JBoss, and OpenShift are of Red Hat, Inc. registered in the U.S. and other countries. Linux® is a registered trademark of Linus Torvalds in the U.S. and other countries.

Red Hat, Inc.
John Terrill, 571-421-8132
jterril@redhat.com

Source: Red Hat, Inc.

News Provided by Acquire Media