

# NASA's Jet Propulsion Laboratory Powers Planetary Exploration with Red Hat OpenStack Platform

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*Red Hat Enables Technology behind Planetary Exploration, Helping JPL Maximize Server and Storage Capacity to Process Flight Projects and Research Data Through an OpenStack Private Cloud*

AUSTIN, Texas--(BUSINESS WIRE)-- Red Hat, Inc. (NYSE:RHT), the world's leading provider of open source solutions, today announced that NASA's Jet Propulsion Laboratory (JPL) has built a private cloud based on Red Hat OpenStack Platform, saving significant time and resources spent on datacenters by retooling and consolidating their in-house hardware. JPL, NASA's primary center for robotic exploration of the solar system, used Red Hat's OpenStack and Linux technology to modernize its on-premise storage and server capacity, giving them the ability to support hundreds of JPL mission scientists and engineers.

NASA's JPL has led many significant achievements in space exploration, from creating America's first satellite to sending a spacecraft to every planet in the solar system and launching all four of the Mars rovers. Today, these exploratory missions rely more significantly on cloud computing capabilities to process requests from flight projects and researchers working with mission data. Traditionally, most of JPL's infrastructure was housed in on-site server hardware.

JPL engineers built an on-site OpenStack cloud for the large and flexible cloud computing capacity they could offer mission scientists and engineers, planning to move critical compute activities that needed to be on-site into a more efficient private cloud architecture.

Deploying Red Hat OpenStack Platform offers JPL enterprise-scale computing capacity that would enable researchers to tap into their own private cloud and use external cloud resources, such as Amazon Web Services (AWS), when necessary for peak demand. Red Hat's experience from long-term participation in the OpenStack Foundation and key upstream contributions to specific platform projects made them a well-suited partner for JPL.

Red Hat is an OpenStack leader - both in contributions to the upstream OpenStack community and its work to deliver a production-ready OpenStack platform to enterprise customers. Red Hat OpenStack Platform, a highly scalable, production-ready Infrastructure-as-a-Service (IaaS) solution, has emerged as an open source cloud platform of choice for a growing number of global organizations. Co-engineered with Red Hat Enterprise Linux and backed by Red Hat's support lifecycle, Red Hat OpenStack Platform offers an open foundation for cloud deployments.

## Supporting Quote

*Radhesh Balakrishnan, General Manager, OpenStack, Red Hat*

"NASA JPL is at the forefront of technology-powered innovation and we're excited about the computing capacity needed for their exploratory missions being powered by Red Hat OpenStack Platform. This is a testament to the reliability, availability and scalability offered by a fully open cloud infrastructure built on Red Hat OpenStack Platform. We are proud of the partnership with NASA JPL to address their needs for an agile infrastructure to meet their projected growth, while helping to reduce the datacenter footprint."

## Additional Resources

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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 the ability of the Company to compete effectively; the ability to deliver and stimulate demand for new products and technological innovations on a timely basis; delays or reductions in information technology spending; the effects of industry consolidation; 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; 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.

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