

# Red Hat Adds Sophisticated Tiering and Data Protection Features to its Industry-leading Storage Platform for OpenStack

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*Red Hat's Inktank Ceph Enterprise 1.2 delivers new levels of flexibility and cost advantages through powerful features such as erasure coding and cache tiering*

RALEIGH, N.C.--(BUSINESS WIRE)-- Red Hat, Inc. (NYSE: RHT), the world's leading provider of open source solutions, today announced the availability of its Inktank Ceph Enterprise 1.2 with new features to help customers store and manage an entire spectrum of data - from "hot" mission-critical data to "cold" archival data. The new functionality, coupled with enhancements to the solution's Calamari management and monitoring platform, make Red Hat's Inktank Ceph Enterprise storage solution a flexible and cost-effective storage platform for enterprises managing data-intensive applications.

In May, 2014, [Red Hat acquired Inktank](#), provider of Ceph and Inktank Ceph Enterprise open source storage solutions. Inktank Ceph Enterprise delivers world class object and block storage software to enterprises deploying public or private clouds, including many early adopters of OpenStack. Combined with Red Hat's existing GlusterFS-based file storage offering, the addition of Inktank positions Red Hat as one of the leading providers of open software-defined storage across object, block and file system storage. As part of today's announcement, Red Hat's Inktank Ceph Enterprise supports the new [Red Hat Enterprise Linux OpenStack Platform 5](#) to provide a truly integrated OpenStack stack that is delivered from and supported by a single vendor.

According to IDC's report "Worldwide Cold Storage Ecosystem Taxonomy", published in March 2014<sup>1</sup>, as data continues to grow at an exponential pace, enterprises increasingly recognize the importance of categorizing and storing data based on frequency of access and relevance, or rather, temperature—with newer or "hot" data sets stored with highest priority and performance. The addition of tiering capabilities to Red Hat's Inktank Ceph Enterprise 1.2 enables enterprises to more effectively execute management of all data - from mission-critical to archival - providing an opportunity to radically reduce storage costs.

Red Hat's Inktank Ceph Enterprise now enables users to define pools for storing data densely, and therefore more cost-effectively, as well as caching pools that can deliver high-performance. The new erasure encoded storage pools in Red Hat's Inktank Ceph Enterprise provide enterprise-scale durability that can lower raw capacity requirements by up to 50 percent<sup>2</sup>. Additionally, new cache tiering pools enable both hot-to-cold and cold-to-hot data management. By combining the power of these new features, customers can create the right blend of price and performance tailored to their specific needs.

Continuing Red Hat's commitment to customer choice, Red Hat's Inktank Ceph Enterprise 1.2 is supported on Red Hat Enterprise Linux 6.5 and 7 and Ubuntu 12.04 and 14.04. Key new features and benefits in Red Hat's Inktank Ceph Enterprise 1.2 include:

Erasure Coding, making Red Hat's Inktank Ceph Enterprise 1.2 suitable for archive and cold storage use cases by reducing the cost per gig.

Cache Tiering, enabling "hot" data to be moved onto high-performance media when it becomes active and "cold" data to be moved onto low-performance media when it is no longer active.

Calamari v1.2, updating the Ceph management platform to support management functions. These updates will enable an administrator to manage the core functionality of the reliable autonomic distributed object store (RADOS) storage cluster, including the ability to manage individual storage devices and pool policies. Calamari is an on-premise application with management tools and performance data that simplifies operational management and enables administrators to adapt to changes in their Ceph clusters. In May 2014, Red Hat [announced](#) that Calamari had been open sourced as part of the upstream Ceph community.

Comprehensive integration with Red Hat Enterprise Linux OpenStack Platform 4 and 5, enabling an integrated OpenStack cloud storage and platform solution that is supported by one vendor.

## Supporting Quotes

*Neil Levine, director, product management, Storage and Big Data, Red Hat*

"Enterprises are under pressure to store expanding amounts of data with limited IT budgets. As part of our commitment to redefining the economics of software-defined storage, the new archiving and tiering functionality in Red Hat's Inktank Ceph Enterprise 1.2 enables users to define pools for storing data densely, and therefore more cost-effectively, as well as pools that serve data very quickly. And, because these pools all work together, customers can now create the blend of price and performance that's right for them for both cold and hot data storage."

*Steven Stover, director of engineered solutions, Dell*

"Dell and Red Hat have partnered for more than 15 years to bring global customers value with Red Hat open source software solutions across Dell's enterprise offerings. Red Hat's Inktank Ceph Enterprise, which delivers a highly scalable, reliable cloud storage solution that can cost-effectively support different types and volumes of enterprise data, can further enterprise customers' acceleration of OpenStack-based clouds. We look forward to delivering Red Hat's Inktank Ceph Enterprise 1.2 to our customers in our Dell Red Hat Private Cloud Solutions."

## Additional Resources

More information about [Red Hat's Inktank Ceph Enterprise](#)

More information about [Red Hat Enterprise Linux OpenStack Platform](#)

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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 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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<sup>1</sup> IDC report on Worldwide Cold Storage Ecosystem Taxonomy, March 2014, #246732

<sup>2</sup> Relative to industry standard 3x replication; actual savings will vary depending on erasure coding parameters selected

Red Hat, Inc.  
Karin Bakis, 978-392-1096  
[kbakis@redhat.com](mailto:kbakis@redhat.com)

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