

# Red Hat Drives Hybrid Cloud-Native Services with CoreOS, Red Hat OpenShift Integration

MAY 08, 2018

*CoreOS technology combines with Red Hat OpenShift to drive fully-automated Linux container platform stack, from the operating system to application services, across the hybrid cloud*

SAN FRANCISCO- RED HAT SUMMIT 2018--(BUSINESS WIRE)-- Red Hat, Inc. (NYSE: RHT), the world's leading provider of open source solutions, today announced the first steps for integrating CoreOS Tectonic, Quay, and Container Linux with Red Hat's robust container and Kubernetes-based solutions portfolio. [Container application platforms](#) like Red Hat OpenShift Container Platform already provide CIOs with a powerful, open standards-based solution to fuel [digital transformation](#) efforts, helping enterprises more quickly adopt emerging technologies like [Linux containers](#) and [Kubernetes](#) without sacrificing existing applications or IT investments. CoreOS' technologies advance the comprehensive nature of Red Hat's container infrastructure offerings, providing a clear roadmap for the digital enterprise while simultaneously making [hybrid cloud](#) environments an excellent choice deploying both modern and traditional applications.

[Acquired with CoreOS in January 2018](#), Tectonic and Container Linux will help drive automation at every layer of the cloud-native stack, backed by Red Hat's commitment to enterprise-grade stability and support. This automation will extend to Red Hat's robust independent software vendor (ISV) ecosystem, enabling them to more easily deliver and maintain applications and services on top of Red Hat OpenShift Container Platform across hybrid environments with the simplicity of [public clouds](#).

## OpenShift automated operations

Tectonic, CoreOS' enterprise Kubernetes solution, offered a powerful way to manage large Kubernetes footprints through automated "over-the-air" updates. With this feature, systems administrators and IT managers can more easily roll-out upgrades to entire Tectonic clusters and underlying Container Linux hosts all via an automated process. Now, Red Hat will integrate this capability with Red Hat OpenShift Container Platform, Red Hat's comprehensive [enterprise-grade Kubernetes](#) distribution, as automated operations.

With automated operations, IT teams will be able to use the automated upgrades of Tectonic paired with the reliability, support, and extensive application development capabilities of Red Hat OpenShift Container Platform. This makes managing Kubernetes deployments at-scale easier, with the vast majority of rote maintenance tasks performed automatically, lessening the need for constant administrator action and providing a "lights out" approach to cluster oversight. Other enterprise needs are retained through the addition of automated operations to Red Hat OpenShift as well, including platform stability and support for existing IT assets.

## The Operator Framework

CoreOS also established the concept of "operators" within Kubernetes, application-specific controllers that extend the Kubernetes API to create, configure, and manage instances of complex stateful applications on behalf of a Kubernetes user. This effectively takes the "human knowledge" of managing a Kubernetes application and builds it into software, making typically challenging workloads easier to deploy and maintain on Kubernetes.

Announced at KubeCon Europe 2018, the Operator concept is now encapsulated by the [Operator Framework open source project](#). Building on this initiative, Red Hat today announced that Red Hat OpenShift Container Platform will use this project for [the benefit of Red Hat's ISV ecosystem](#). This makes it easier for ISVs to bring cloud services, like messaging, big data, analytics, and more, to the hybrid cloud and address a broader set of enterprise deployment models while avoiding cloud lock-in. Red Hat's existing ISV certification program will also extend to encompass the automation capabilities provided by the Operator Framework. The result is a consistent, common experience for these services on Red Hat OpenShift, enabling ISVs to bring their offerings to market more quickly on any cloud infrastructure where Red Hat OpenShift runs.

## Bringing Container Linux to Red Hat OpenShift

Container Linux provides several key pieces of the modern, container-native operating system, most notably a fully immutable, container-optimized Linux host that includes automated, "over-the-air" updates, to keep large deployments more easily up to date. Built around a robust existing community, Container Linux will retain its vision of providing a free, fast-moving, and automated container host while also providing content options from the Red Hat Enterprise Linux and Fedora ecosystem, with a supported variant being provided under the name Red Hat CoreOS. Red Hat CoreOS will integrate concepts, technology, and the user experience of Container Linux. This offering will ultimately supersede Atomic Host and function as Red Hat's immutable, container-centric operating system.

Red Hat CoreOS will provide the foundation for Red Hat OpenShift Container Platform, Red Hat OpenShift Online, and Red Hat OpenShift Dedicated for customers who prefer an immutable infrastructure-based Kubernetes platform with automated updates. Red Hat OpenShift Container Platform will also continue to support Red Hat Enterprise Linux, for customers who prefer a traditional lifecycle and packaging as the foundation for their Kubernetes deployments.

## Red Hat Quay and OpenShift

Over the past few years, many Red Hat OpenShift customers have used CoreOS Quay as their enterprise registry solution. While OpenShift provides an integrated container registry, customers who require more comprehensive enterprise grade registry capabilities now have the option to get Quay Enterprise and Quay.io from Red Hat. Quay includes automated geographic replication, integrated security scanning with Clair, image time machine for viewing history, performs rollbacks and automated pruning, and more. Quay is now added to the Red Hat portfolio, available both as an enterprise software solution and as a hosted service at Quay.io, and will see future enhancements and continued integration with OpenShift in future releases.

## Availability

Tectonic's automated operations, Red Hat CoreOS and more will be fully integrated into Red Hat OpenShift Container Platform in future

versions. Container Linux will continue to be maintained while its successor will be developed with the Fedora and CoreOS Communities.

Red Hat Quay is available immediately at <https://quay.io/>.

#### Press Conference

Red Hat executives, including Paul Cormier, the company's president of Products and Technologies, will host a webcast live from Red Hat Summit to discuss this and today's other announcements at 2 p.m. ET. Following remarks, press and analysts are invited to participate in a question and answer session.

To join the webcast or view the replay after the event, visit: <https://onlinexperiences.com/Launch/QReg/ShowKey=51468>

#### Supporting Quote

*Ashesh Badani, vice president and general manager, OpenShift, Red Hat*

"We strongly believe that the integration of CoreOS' automation technologies with Red Hat's powerful infrastructure solutions will redefine the hybrid cloud, meshing the simplicity of public cloud deployments with the enhanced security of private cloud computing. Previously, enterprises had to choose between public cloud lock-in for ease-of-use or managing the complexity of a hybrid IT environment to retain full control over workloads and data. Now, Red Hat OpenShift Container Platform settles this argument, delivering automation across the entire container stack, from the underlying operating system to the application services, to make hybrid IT easier to consume while retaining enhanced security, driving a new model for how enterprises perceive the open hybrid cloud."

#### Additional Resources

Read more about [Red Hat OpenShift Container Platform](#)

Find out more about [Red Hat Quay](#)

Learn about the [Operator Framework](#)

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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 integration of acquisitions and the ability to market successfully acquired technologies and products; risks related to errors or defects in our offerings and third-party products upon which our offerings depend; risks related to the security of our offerings and other data security vulnerabilities; fluctuations in exchange rates; the effects of industry consolidation; 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; changes in and a dependence on key personnel; the ability to meet financial and operational challenges encountered in our international operations; and ineffective management of, and control over, the Company's growth and international operations, 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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**Media:**

**Red Hat, Inc.**

**John Terrill, +1-571-421-8132**

**[jterill@redhat.com](mailto:jterill@redhat.com)**

**Source: Red Hat, Inc.**