

# A platform to boost telco value

How Red Hat OpenStack Services on OpenShift enhances telco cloud

## Modernized for scalability

Red Hat OpenStack Services on OpenShift modernized control plane is now a Kubernetes-native Red Hat OpenShift workload.

This transition offers more flexibility for telco service providers who are dealing with complex environments bridging between virtualized and containerized workloads.

## A continued commitment to the OpenStack project

Red Hat's commitment to and investment in OpenStack remains strong. Red Hat is the leading contributor in [commits](#) and continues to lead innovation at both the upstream project and within the product.<sup>1</sup>

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## Why choose Red Hat OpenStack Services on OpenShift

Red Hat® OpenStack® Services on OpenShift® helps telecommunication (telco) service providers build and operate their [telco cloud](#) infrastructure. This is made possible by providing the scalability, unified management and observability, enhanced logging, simplified deployment, and greater cost efficiency to deliver diverse and business-critical services and applications.

It provides a scalable cloud environment that is based on integrated technologies that can be deployed across a service provider's network from core to the edge. Red Hat OpenStack Services on OpenShift is open source—designed for, tested, and certified on different hardware and enhanced by Red Hat's extensive ecosystem of partners.

In the face of changing virtualization options, service providers need the ability to deploy and maintain both virtual network functions (VNFs) and cloud-native network functions (CNFs) to become more agile, flexible, and efficient, reduce costs, and propel innovation. Red Hat OpenStack Services on OpenShift allows service providers to rapidly add services and features to respond to changing demands, which creates differentiation and accelerated time to value.

## Benefits of upgrading to the latest Red Hat OpenStack Services on OpenShift

With Red Hat OpenStack Services on OpenShift, service providers can streamline the development and deployment of virtualized and containerized network functions, establishing a platform for highly scalable infrastructure across hybrid and multicloud environments. Managed and deployed through the Red Hat OpenShift control plane, Red Hat OpenStack Services on OpenShift offers additional benefits that include:

- ▶ **Accelerated application development.** Enhanced integration with Red Hat OpenShift makes moving development between virtualized and container environments simpler, reducing development time.
- ▶ **Elastic capacity and scalability.** A containerized control plane allows for greater scale, many times larger than the previous virtualized control plane.
- ▶ **Simplified management.** With management for OpenStack and OpenShift workloads centralized, managing a mixed workload environment is streamlined.
- ▶ **Faster deployment.** Integration with Ansible means parallelized processes are multiple times faster, speeding time to market.
- ▶ **Observability.** An updated service telemetry framework can monitor resource utilization to increase efficiency and help diagnose performance bottlenecks.

<sup>1</sup> ["Commits by company."](#) Stackalytics, accessed 22 Aug. 2024.

*“By implementing an open approach, KDDI can enhance our platform to provide a higher quality of service with more efficient operations.”*

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**Tatsuo Sato**

Vice President & Managing Officer, network and cloud platform, KDDI<sup>2</sup>

Read why KDDI Corporation chose Red Hat to lay the open foundation for its 5G networks and other services in this [press release](#).

## Delivering for both your 4G and 5G networks

Red Hat OpenStack Services on OpenShift is capable of incorporating virtualized service provider workloads or virtual network functions (VNFs) within VMs so they can run on commercial-off-the-shelf (COTS) hardware.

This gives service providers the ability to scale up or down, delivering diverse and business-critical services and applications based on changing customer demand without requiring additional hardware resources. VNFs can be placed in different parts of a service provider’s network, for example, at the network edge, ensuring the VNF is in the most optimal location to deliver the necessary performance and latency.

## A comprehensive and consistent platform for application development

Red Hat OpenShift is a trusted, comprehensive, and consistent hybrid cloud application platform, bringing together a complete set of tools and services to streamline the entire application lifecycle, from development to delivery to management of application workloads. It combines features to help service providers enhance their security focus, a trusted software supply chain, and Red Hat Enterprise Linux® as the operating foundation. For service providers looking to transition their virtualized workloads in response to recent changes in the marketplace, the integration of Red Hat OpenShift and Red Hat OpenStack Services on OpenShift offers not just the ability to have virtualized and containerized workloads existing next to each other, but as a pathway for modernizing virtual workloads as appropriate for dynamic and changing business needs.

## Migration support with Red Hat services

For service providers looking for guidance on how to transition from a current installation of Red Hat OpenStack Platform or from other popular virtualization platforms to Red Hat OpenStack Services on OpenShift, a Red Hat Technical Account Manager (TAM) can help guide you through the process. Red Hat TAMs are technical advisors who serve as a consistent single point of contact for service providers as their technology needs evolve.

## A comprehensive solution for telco cloud

Red Hat OpenStack Services on OpenShift is a reliable solution that gives service providers tools to deliver telco cloud infrastructure with scale, unified management and observability, enhanced logging, and simplified deployment and scalability.

By upgrading to Red Hat OpenStack Services on OpenShift, service providers benefit from an updated control plane, extended lifecycle management, and the flexibility to run virtual and cloud-native applications at the same time. As service providers look to offer efficient services on both their 4G and 5G networks, Red Hat OpenStack Services on OpenShift can help deliver value to customers.

## [Learn more](#) about Red Hat OpenStack Services on OpenShift

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2 Red Hat press release. [“KDDI Corporation selects Red Hat to lay open foundation for 5G services and more.”](#) 26 Feb. 2024.

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### About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with award-winning support, training, and consulting services.

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