Red Hat Edge

A portfolio approach to building secure, scalable, and extensible edge solutions

Modern edge compute platforms powered by Red Hat® Edge help organizations extend their open hybrid cloud to the edges of their business to make decisions faster and enhance their offerings. Red Hat's vast and growing ecosystem of partners plus open methodologies ensure that organizations have the flexibility needed to build an optimum platform that allows them to respond to rapidly changing market conditions and create differentiated offerings. Red Hat Edge provides trusted open source software that helps organizations implement a layered-security approach for better risk management at on-premise, cloud, and edge sites.

Features and benefits

The Red Hat Edge portfolio of products and services provides solutions that meet customers' specific technical and business requirements. The portfolio spans infrastructure, application services, cloud services, and life cycle management with automation capabilities, all validated in many vertical deployments.

Table 1. Red Hat Edge portfolio

Product	Description
Platforms	
Red Hat OpenShift®	Serves as the foundation of our develop-once, deploy- anywhere hybrid cloud promise and is further enhanced by support of smaller footprint topologies that include 3-node clusters, single-node OpenShift, and remote worker nodes that better map to varying physical size, connectivity, and availability requirements of different edge sites.
Red Hat Enterprise Linux®	Provides a consistent, flexible, and security-focused foundation that delivers customizable image generation, remote device mirroring, and intelligent rollbacks, to maximize the stability of application deployments at the edge.
Red Hat OpenShift Data Foundation and Red Hat Ceph®	Software-defined storage solutions that provide persistent block, file, and object storage for applications at the edge of the network including data federation.
Red Hat OpenStack®	Red Hat OpenStack Platform supports distributed compute nodes (DCN). These nodes allow telecommunications and other large organizations to treat distributed computing and storage resources as an extension of the datacenter, using the same tools to deploy and manage edge compute resources from a centralized control plane.

Product	Description
Management , security, and automation	
Red Hat Ansible® Automation Platform	Centralized platform for automating complete infrastructure deployment and management including Red Hat and third-party platforms. Ensures that the underlying infrastructure can be deployed with known good configurations and managed remotely allowing for consistent operations at the edge.
Red Hat Advanced Cluster Management for Kubernetes	Red Hat delivers full application life cycle support, cluster life cycle management, observability for container-based applications at scale while also providing advanced policy governance to foster consistency, reliability, and compliance throughout the organization's edge computing landscape and even across thousands of nodes at physically distant facilities.
Red Hat Advanced Cluster Security for Kubernetes	Security concerns are one of the top blockers to deploying containerized applications and microservices. Red Hat delivers full life cycle security for your applications deployed at the edge. Red Hat automates DevSecOps to protect the software supply chain against security issues such as vulnerabilities, and offers advanced threat protection and mitigation capabilities with out-of-the-box policies to detect common threats such as misconfigured or risky deployments, intrusions, lateral movement, privilege escalation, and cryptomining, with tiered incident response based on the severity of the threat.
Red Hat Smart Management	Helps organizations optimize and manage their Red Hat Enterprise Linux environment to better secure their IT infrastructure foundation by improving the reliability, availability, security, and compliance of their systems in remote locations with intermittent connectivity as well as well-connected cloud or on-premise systems.
Red Hat Insights	Continuously analyzes platforms and applications to predict risks, recommend actions, and track costs so enterprises can better manage hybrid cloud environments.
Consulting	
Red Hat Services Edge Platform Architecture Review	Helps customers solve their remote office edge use case by demonstrating an opinionated solution for deployment and management of edge workloads in a Red Hat environment integrated with third-party services and systems.
Red Hat Services Edge Platform Solution	Helps customers with a mentor-based approach to establishing and operationalizing an initial edge platform capability that extends from core datacenters to remote nodes and includes deployment, security, day-to-day operations, and life cycle management for platforms and workloads.
Red Hat Innovation Labs	In a 4-12 week Open Innovation Labs residency, engineers are paired up with Red Hat experts to learn how to successfully adopt Red Hat technology and open source practices when building an edge solution. An important practice is team cohesion where IT and OT engineers collaborate effectively.

The portfolio advantage

Highlights of the Red Hat Edge portfolio include these important advantages when the products listed above are used in combination with each other:

▸ Red Hat Edge helps you build a flexible and agile platform allowing you to respond to changing market dynamics without the burden of proprietary solutions or vertically integrated technology stacks that limit your ability to differentiate from the competition.

▸ Red Hat Edge includes innovative open source technology and is extensible through industry-standard integration technologies and Red Hat's partner ecosystem so that you have choices when developing a solution that meets your organization's needs.

▸ Red Hat Edge allows IT to remotely configure and support the edge platform with little to no need for on-site support thanks to its automation and management capabilities. Management tooling has been extended from the datacenter out to the edge, so existing IT skills extend as well.

▸ Red Hat Edge includes layered security and tools that help you maintain high levels of security even when dealing with a dynamic threat landscape.

▸ Red Hat Edge provides a common infrastructure layer across all public and private cloud and edge deployments. This minimizes variability and reduces security risks while allowing companies to use existing skills and staff with one platform to support their entire landscape.

Read customer success examples in various industries.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. A trusted adviser to the Fortune 500, Red Hat provides award-winning support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

facebook.com/redhatinc
@RedHat
linkedin.com/company/red-hat

North America	**Europe, Middle East, and Africa**	**Asia Pacific**	**Latin America**
1 888 REDHAT1	00800 7334 2835	+65 6490 4200	+54 11 4329 7300
www.redhat.com	europe@redhat.com	apac@redhat.com	info-latam@redhat.com

redhat.com
#F31081_0222