

Trusted and consistent compute at the edge

Providing security-focused edge devices through a single interface

Capitalize on the opportunity at the edge

Devices at the edge continue to increase. They can be located anywhere, such as an oil rig in the ocean, a public transit station, an aircraft in flight, or a device in a mine. Edge devices must be resilient to operate in harsh and inaccessible environments but retain the ability to be updated and maintained. This is crucial for critical industry processes that need to run without interruption and receive software updates or insights in near real-time. Security teams must manage OT cybersecurity standards that require device software to remain in a good state of health to decrease the risk of security threats.

Red Hat Device Edge helps meet customers' needs based on where they are on their edge workload journey by providing the flexibility to deploy what they need based on their use case.

Right-sizing features and functionality

Each edge implementation has very specific needs. Enterprises must simplify workload deployments and automate application updates, monitor network health, and assure security compliance. Red Hat Device Edge is built for business and critical processes that need to run with minimal interruption.

Red Hat Device Edge is designed for small, resource-constrained edge deployments. It has a minimal footprint combining an edge-optimized operating system built from Red Hat Enterprise Linux®, with an enterprise-ready distribution of MicroShift—a lightweight Kubernetes container orchestration solution built from the edge capabilities of Red Hat OpenShift®.

Red Hat Device Edge provides capabilities that include; security-focused remote device onboarding, transactional over-the-air updates, and automated rollbacks, improving up-time and reducing the need for on-site maintenance. To rapidly scale the environment, Red Hat Device Edge can be tested, deployed, and updated as a single unit.

Streamline and automate deployment and operations

Red Hat Device Edge supports capabilities that help operations teams deploy and manage thousands of devices consistently, imperative for locations with limited accessibility. Now operations teams can more conveniently create, deploy and maintain custom edge-optimized operating system images with image builder. Images can be customized for unique edge workloads, helping keep edge deployments consistent, scalable, more secure (less attack surface), and compliant. Intelligent device updates are optimized to reduce bandwidth utilization and deal with the challenges of intermittent connectivity.

Red Hat and Verizon collaborate to deliver edge-based solutions

Verizon private 5G provides telco-grade connectivity to ensure business and edge-based use cases run uninterrupted and at optimum performance. Verizon's private 5G solution provides consistent, dedicated connectivity and predictable, reliable performance, eliminating connectivity restrictions and constraints. Private, on-premise networks are inherently built with long-term evolution (LTE) and 5G security with a device monitoring system. Verizon offers scalable solutions for any facility size,

spectrum and quality of service (QoS) levels, helping to scale swiftly and in less time. Together, Red Hat and Verizon offer customers a unified solution with integrated operational tools and automation-based resource consumption that achieves higher agility, scalability, improved performance and uninterrupted mobility. Constant mobility supports wide ranges on campuses, provides authorized remote access and ubiquitous coverage to handle data access, whether indoors or outdoors.

Edge computing becomes a superpower with 5G, providing hardened security-focused connections designed to support critical wireless workloads with low latency, remote coverage, improved security, and increased network reliability.



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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