

A modern approach to retail point of sale with Red Hat

Red Hat provides an enterprise, open source platform to help address edge computing requirements for point-of-sale.

Why choose Red Hat for edge computing in retail?

Flexibility:

Run traditional and container-based workloads where they are needed in order to *accelerate data-driven decisioning*

Security:

Automate the process for onboarding, coordinating, and *ensuring compliance across all sites and devices* and adapt as requirements change

Scalability:

Scale to support new initiatives and enhanced end-user experiences, *improving current revenue streams and opening new ones*

The evolving retail landscape

In recent years, the retail industry has been challenged to keep up with the rapid pace of change. Largely propelled forward by the pandemic, customers today expect a retail experience that is ecommerce-focused, digitally supported, personalized and more integrated between offline and online shopping.

New, emerging technologies have the capability to solve these challenges, however, traditional point-of-sale (POS) systems lack the ability to handle the requirements for larger data values, layering in technologies such as artificial intelligence (AI) or the ability to connect effortlessly with other systems. To simplify retail complexity, protect current revenue streams, push innovation forward, and save on resource costs, retailers must modernize their approach to point of sale.

The role of edge computing in retail

Edge computing is a key component of retail modernization at the point of sale, bringing compute closer to the source of data. This approach aims to lower latency and bandwidth needs for the underlying applications, allowing retailers to operate with limited computing resources and connectivity. In turn, retailers can manage point-of-sale systems across numerous locations, providing faster response times and data-driven decisions, more reliable services, and a better application experience back to users.

Red Hat's solution for point-of-sale modernization

Red Hat Device Edge provides a single, enterprise platform that supports the edge computing requirements at the point of sale. By combining an edge-optimized operating system (OS) with automation and management, retailers can deploy, safeguard, scale, and monitor large fleets of edge devices and technologies while minimizing the infrastructure and costs required.

Red Hat Device Edge solution includes:

Red Hat Enterprise Linux: Generate edge-optimized OS images to handle a variety of use cases and workloads with Red Hat's security-focused and stable OS. Take advantage of management services, intelligent device updates, and zero touch provisioning for visibility and control over field-deployed edge devices.

MicroShift: Derived from Red Hat® OpenShift®, community project MicroShift's minimal footprint brings the power of the industry's leading hybrid cloud application platform to devices with limited compute resources. Deploy anything from traditional Linux® workloads to complex container-based services with this lightweight Kubernetes distribution.

Red Hat Ansible Automation Platform: With tools for both day 1 device deployments and ongoing platform and workload operations, Red Hat Ansible® Automation Platform helps you scale point-of-sale device and application life cycle management, including activity scheduling, in less time.

Using this powerful combination allows retailers to:

- ▶ Limit downtime with automatic rollback and ensure availability for business.
- ▶ Reduce security risk and associated costs with automated assessments and immediate remediation.
- ▶ Respond to changing market conditions or create differentiated offerings as needs arise, in less time.
- ▶ Eliminate on-site tech staff with single touch updates, upgrades, and application deployment across remote sites.
- ▶ Focus on availability of systems: All routine maintenance handled during off hours.

Simplify retail complexity

Simplify retail complexity, protect current revenue streams, save on resource costs. Break away from the constraints of conventional technology and deliver innovation no matter where you are on your journey with an open source platform for edge computing.

Learn more about Red Hat Edge solutions for retail at redhat.com/edge.



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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