

Red Hat Edge

What We'll Discuss Today

- How Edge can Transform Businesses
- Red Hat's Edge Computing Strategy
- An Architectural Approach to Edge Computing

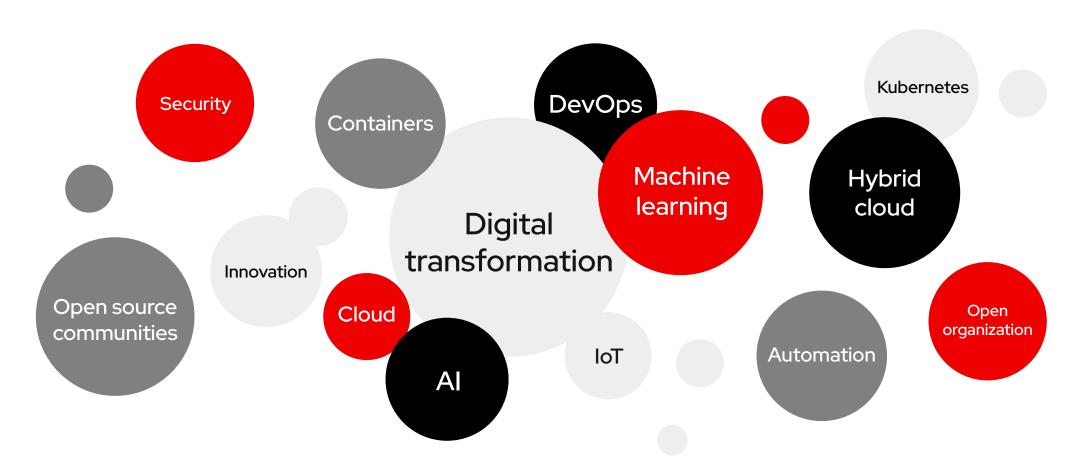


How Edge
Computing can
Transform
Businesses



Innovation Velocity, Operational Agility

New Platforms Enable Digital Transformation





Edge Computing Extends Digital Transformation to where Business Happens



- Standard, scalable hardware
- Cloud-native applications
- Flexibility and agility
- Convergence of data platforms

- Real-world, real-time interaction
- Convergence of planning and execution
- Implementation of data-driven insights
- Integration of formerly closed systems



Solve Complex Business Problems and Discover New Opportunities



Faster data-driven operational outcomes

Leverage data and analytics on-site to make critical decisions faster, automate operations, and develop new service offerings



Better end-user experiences

Place applications and data closer to the end user to provide real-time engagement and drive new revenue streams



Higher app and process resiliency

Ensure critical operations on edge sites continue despite limited connectivity or security and regulatory concerns

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Data residency and sovereignty

Securely process and manage sensitive data on-site and maintain regulatory compliance across boundaries



Create Flexibility and Opportunity with Edge Computing

Application Flexibility

Deploy applications anywhere



Act with speed and agility and adapt to the needs of the business

Operational Agility

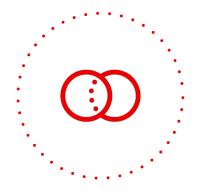
Minimize operational challenges



Provide new solutions for a variety of distributed application environments

Business Innovation

Address new opportunities



Enhance innovation, increase productivity, and offer better products and services



Edge Computing is Already Happening

Industrial Use Cases with AI/ML



Telecommunications



Manufacturing



Energy

Use cases

Private networks
vRAN
Distributed core

Predictive maintenance
Factory automation
AR + remote export

Process control
Environment monitoring
Autonomous vehicles

Benefits

Better user experience Scale to meet demand Greater network flexibility Improved resilience Reduced downtime
Increased productivity
Longer asset lifetime
Improved factory safety

Reduced downtime
Lower OpEx and CapEx
Lower workforce risk
Less environmental impact



Edge Computing is Complex



Management at scale

Managing hundreds of thousands workloads in many locations with enough people to scale efficiently



Complexity of infrastructure

Supporting heterogeneous infrastructure increases costs and skill sets



Accelerated innovation to meet business needs

Building an edge infrastructure that supports in house innovation and partnering with specialized 3rd party providers



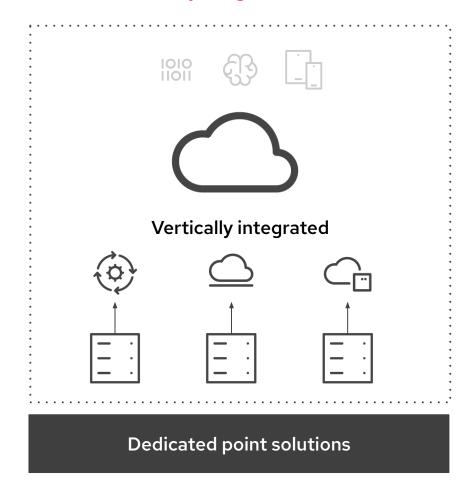
Security and compliance

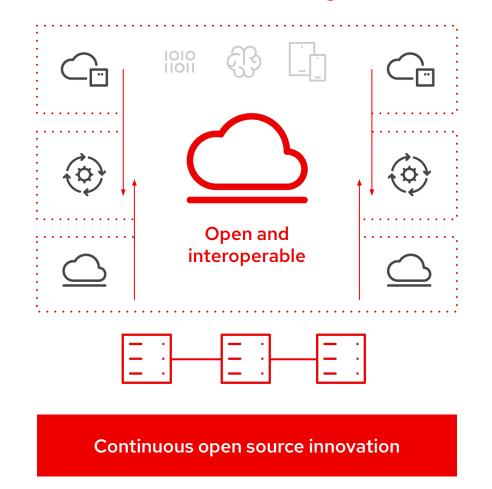
Processing and managing data at the edge to make decisions while protecting sensitive information and supporting latency-sensitive applications



Edge is a Continuum of and Open Hybrid Cloud

Every Organization Faces Fundamental Questions for a Modern Edge







Red Hat's Edge Computing Strategy



Red Hat Can Help



"If edge computing is going to be a realistic future for enterprise IT, it needs the hybrid cloud and open source to thrive."



Paul Cormier
Red Hat Chairman

Hybrid cloud provides operational consistency across your architecture—all the way to the edge

Open source harnesses the power of collaboration to propel innovation and interoperability



Our Vision

Community-Powered Innovation

Business requirements drive the need for transformation

Open source enables choice and innovation

Communities are the catalyst for innovation

Edge is a cultural change for companies



Red Hat is a leader in commercial open source solutions



Red Hat Edge: Any Workload, Any Footprint, Any Location

Red Hat's Approach to Edge Computing



Platforms and portfolio

Powerful building blocks including application services, management, storage, and services, with Red Hat

OpenShift® and Red Hat Enterprise Linux® in the heart of all



Open source leadership

Enhancing the development of open standards while providing hardened, fully supported enterprise-grade platforms



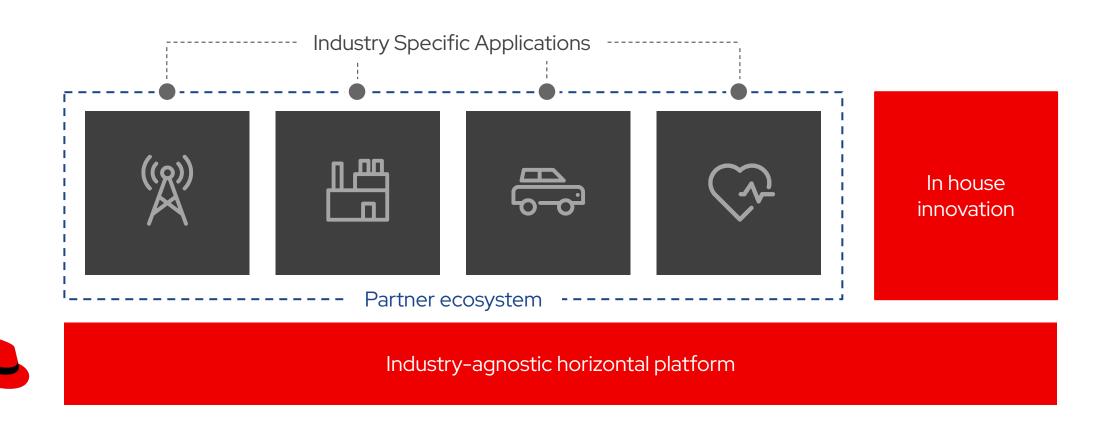
Partner ecosystem

Partnering with hardware and software vendors to provide solutions that meet customer needs



Our Role

Industry Alignment through Our Ecosystem





An Edge Platform to Meet Your Needs

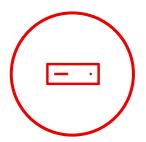
A Consistent Platform: Adaptable to All Use Cases

Develop once, deploy anywhere

Address diverse use cases

Consistent operations at scale





Edge gateway/ edge server



Small bare metal footprint



Infrastructure virtualization



Public/private cloud



Edge Computing can be a Business Differentiator

Red Hat can Help You Get There



Consistency

Scale securely without added complexity while minimizing headcount impact



Innovation

Embrace industry-wide open standards



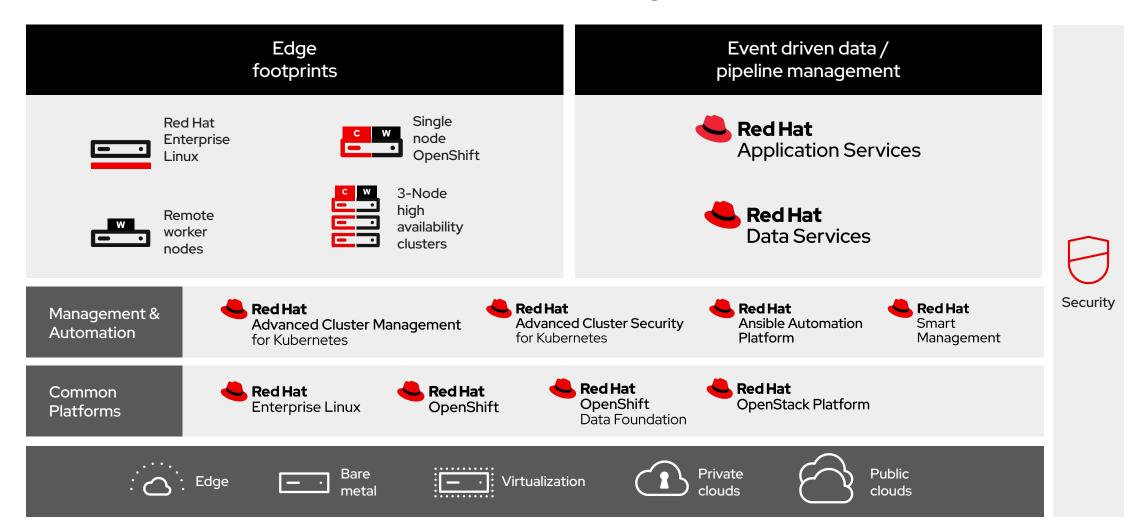
Versatility

Place applications where the business needs them

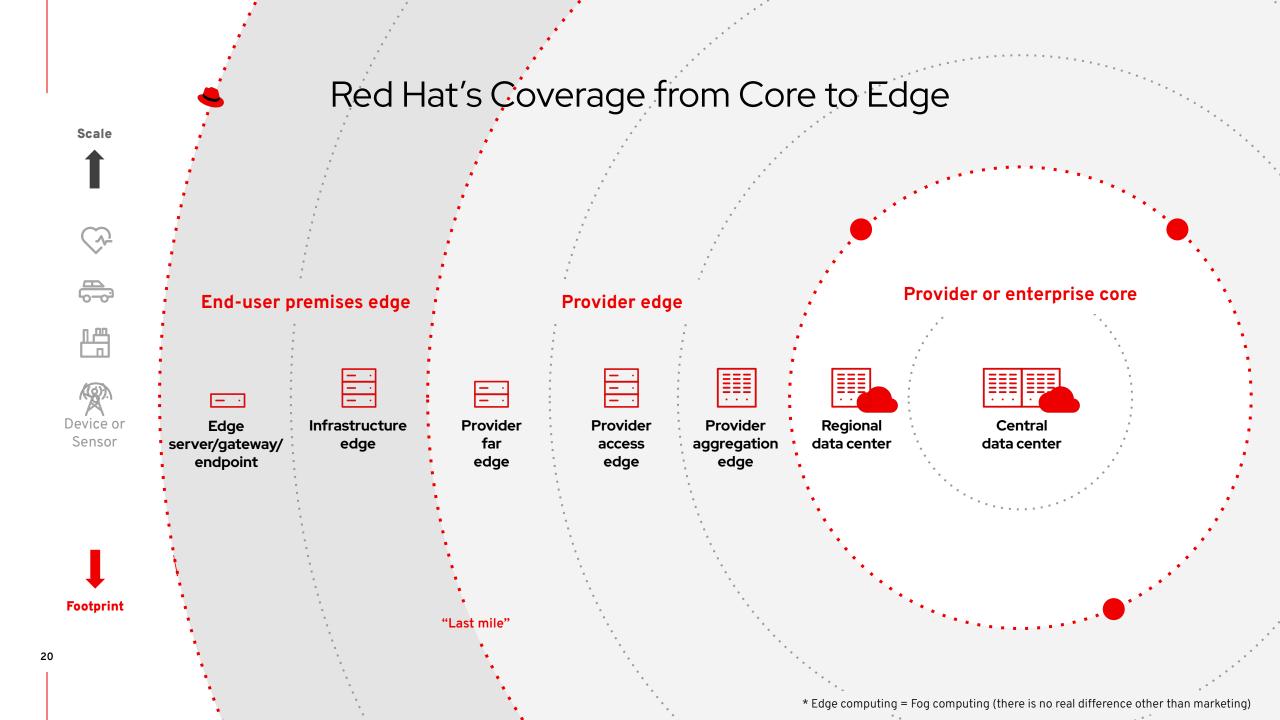


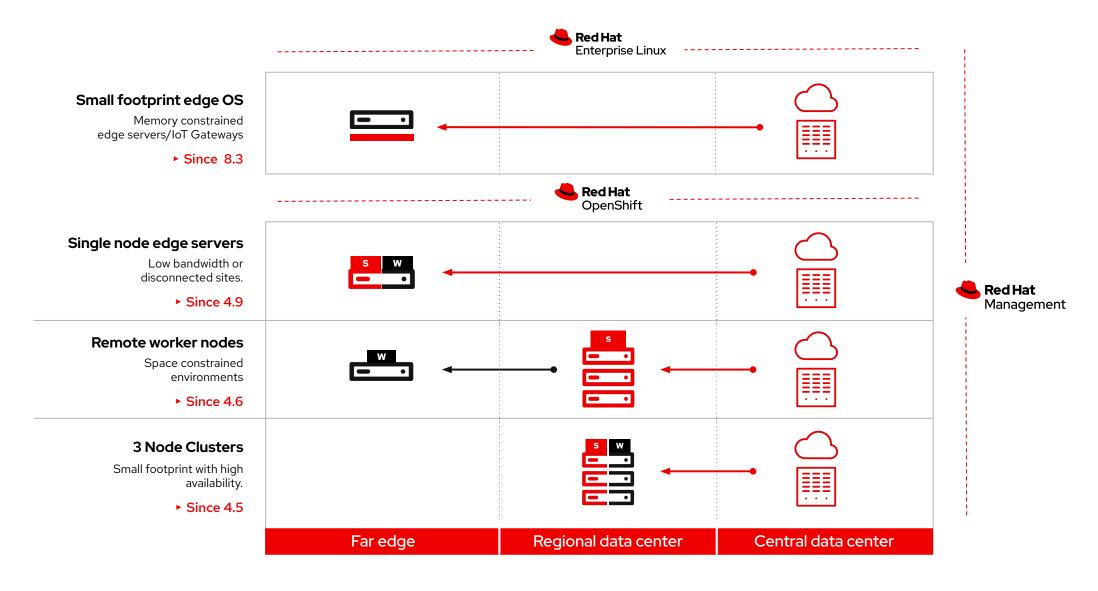
An Architectural Approach to Edge Computing

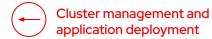
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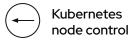












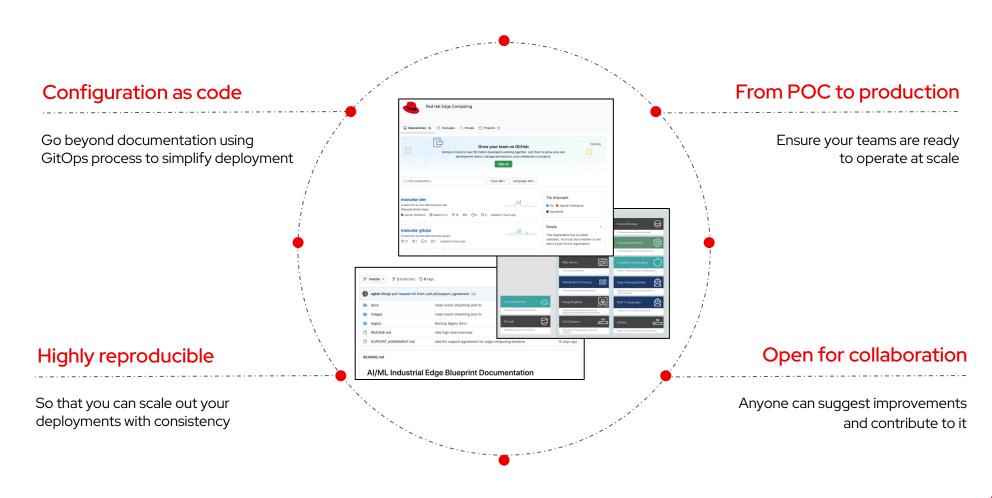






Simplify the Creation of Edge Stacks with Validated Patterns

Bringing the Red Hat Portfolio and Ecosystem Together







Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

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