Modernize Retail IT with Pextra CloudEnvironment®

Simplify Infrastructure. Drive Better Customer Experiences.

Retail success today depends on speed, reliability, and seamless digital experiences. Whether you're running e-commerce platforms, point-of-sale systems, or data-driven marketing — your infrastructure needs to be simple to manage, scalable, and ready for constant change.

Pextra CloudEnvironment® helps retailers modernize IT by delivering secure, scalable private cloud infrastructure, combining compute, storage, and networking into one easy-to-manage platform — so you can focus on customer experience, not infrastructure headaches.

Why Choose Pextra®?

Reliable Compute for Retail Applications

Run e-commerce platforms, inventory systems, POS, and loyalty programs on distributed compute clusters with built-in backups, fault tolerance, and high availability — ensuring your systems stay online during peak shopping periods.

High-Performance Storage for Data-Driven Retail

Simplify storage for product catalogs, transactional data, customer profiles, and marketing content. Pextra's scalable storage delivers fast, reliable access across retail locations and digital platforms.

Secure Networking Across Locations

Connect stores, distribution centers, and head offices with programmable, secure networking. Isolate critical workloads, protect sensitive data, and manage traffic across your entire retail footprint.

Scalable Infrastructure for Omnichannel Retail

Support unified shopping experiences with infrastructure that adapts to digital growth, seasonal spikes, and evolving customer expectations — all managed from an intuitive interface.

Protect Customer Data and Payment Systems

Integrated ABAC+RBAC access controls, secure audit logging, and policy enforcement help safeguard payment systems, personal data, and meet PCI DSS requirements.

Cost-Effective Modernization

Eliminate complexity and avoid expensive legacy licensing with Pextra's open, flexible architecture — modernize your retail IT while reducing costs.

"The value of cloud computing is less about the cost savings of running applications 'in the cloud'—it is more about a step change in agility, productivity, and speed to market. Companies can address concerns regarding the privacy and security of cloud solutions with proper planning and policies. Indeed, many companies are able to match or even exceed their privacy and security requirements when switching from on-premise solutions to cloud solutions."

- BCG

Pextra For Retailers

Focus on your customers — Pextra keeps your retail infrastructure reliable, scalable, and easy to manage, so you can deliver seamless experiences that drive loyalty and growth.

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Simplify Global IT Operations

Reduce Costs and Avoid Vendor Lock-in

Scale with Confidence across R&D, Production, and Services

Stay secure and compliant

Pextra CloudEnvironment® is a next-generation private cloud platform that integrates compute, storage, networking, and security into one easy-to-manage, scalable solution. Our software-defined infrastructure is designed to simplify operations, reduce costs, and give organizations full control over their infrastructure, without suffering from vendor lock-in.

Software-Defined Private Cloud

Built for modern workloads, Pextra delivers scalable compute, reliable storage, advanced networking, and enterprise-grade security — all running on your hardware of choice. Our architecture eliminates silos and complexity, making it easy to deploy and manage infrastructure for demanding applications.

Simple, Unified Management

Everything in your private cloud is managed through an intuitive web interface and CLI, with rich API integrations available for automation and custom workflows. Deploy, monitor, and scale your environment without the overhead of legacy systems.

High-Performance Storage

Pextra provides fast, reliable storage through cluster-wide abstractions, delivering high I/O performance for databases, file shares, media workloads, and more. Storage is configured on a per-cluster basis to simplify operations while maximizing efficiency.

Advanced, Secure Networking

Our platform features a programmable, high-throughput networking stack built on Open vSwitch, with integrated L4 firewalls and workload isolation. Easily connect datacenters, secure internal traffic, and segment applications with confidence.

Enterprise-Grade Security & Compliance

Pextra is built with security in mind — supporting multi-tenant deployments, role-based access controls (RBAC/ABAC), secure audit logging, and policy enforcement. Our platform is designed to meet industry security standards and help organizations stay compliant.

AI-Ready & Hardware Flexible

Whether running AI training, virtual machines, or critical applications, Pextra's distributed design supports GPU passthrough and hardware paravirtualization — giving teams full control over their infrastructure performance.

Minimal Vendor Lock-In

Pextra is built on open-source technologies, ensuring transparency, flexibility, and freedom to adapt. Migrate workloads, scale infrastructure, or integrate with your preferred tools — without proprietary constraints.

Ready to Get Started With Pextra?

To learn more about how Pextra can drive your private cloud infrastructure, visit www.pextra.cloud/cloudenvironment/, or contact our sales team at sales@pextra.cloud. To get a free evaluation license, visit our website and click on Get Started.

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