

Future-Ready IT for K-12 with Pextra CloudEnvironment®

Simple. Secure. Scalable. Designed for Schools.

Today's schools depend on reliable, easy-to-manage technology to power digital learning, student services, and administrative operations. But legacy IT infrastructure is complex, expensive, and difficult to scale — leaving many districts stretched thin.

Pextra CloudEnvironment® simplifies private cloud management for K-12 education, combining compute, storage, and networking into one intuitive platform. Whether you're supporting 500 students or 50,000, Pextra delivers dependable performance and security — without the cost or complexity of older solutions.

Key Benefits for Schools

Fast, Flexible Compute for Classrooms and Admin Systems

Easily deploy virtual desktops, student information systems, and productivity apps with Pextra's scalable clustering technology. Provision resources in minutes and expand as enrollment grows.

High-Performance, Easy-to-Manage Storage

Simplify storage for student files, lesson content, and administrative records. Pextra's cluster-wide storage delivers reliable, high-speed access without the headaches of managing standalone systems.

Secure, Programmable Networking

Protect your network with built-in, policy-driven controls. Segment traffic, isolate workloads, and manage connections between classrooms, offices, and district sites with confidence.

Quick Deployment on Your Hardware

Pextra installs on almost any server, helping districts modernize infrastructure without ripping and replacing existing hardware. Intuitive web UI and well-documented API make ongoing management easy.

Enterprise-Grade Security for Student Data

Integrated multi-tenant access controls, secure audit logging, and advanced network isolation keep sensitive data protected and help meet privacy requirements.

No Expensive Licensing or Lock-In

Say goodbye to costly hypervisor licenses. Pextra's open-source foundation provides full control with minimal vendor dependency — ideal for budget-conscious schools. Schools get special discounts on licensing and support subscriptions.

Empower digital learning with technology that works — simple to deploy, reliable to run, and ready for the future.

"The rise of artificial intelligence in K-12 schools has led many institutions to consider the benefits of a private cloud. Private clouds offer enhanced security and privacy controls compared with public clouds, making them particularly well suited for applications that handle sensitive data."

- EdTech

"Cloud computing has become an essential component of K-12 education as the shift towards e-learning continues to gain momentum. With the increasing use of online platforms for assignments, journals, notes, and tests, there is a growing need for secure and reliable cloud solutions."

- Technavio



**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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