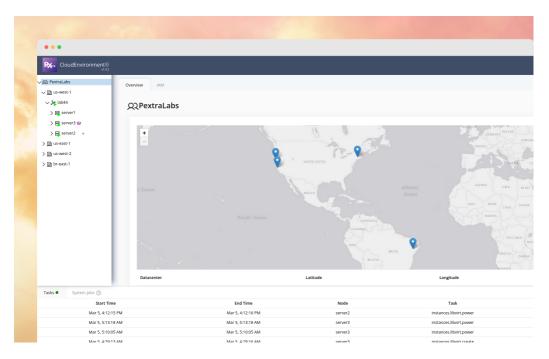
#### Private Cloud Management, Simplified.

Pextra CloudEnvironment® is a next-generation private cloud platform that seamlessly integrates compute, storage, networking, and security into a single, scalable solution. Our software-defined infrastructure simplifies operations, reduces costs, and empowers organizations with complete control over their resources. Built on robust open-source technologies, including the Debian GNU/Linux operating system, KVM/QEMU, LXC for virtualization, leading enterprise storage solutions, and Open vSwitch for software-defined networking, Pextra ensures reliability and performance. Unlock extensive multi-datacenter scalability with our distributed architecture, powered by CockroachDB. Features such as GPU passthrough, multi-instance GPU (MIG), and paravirtualization enable efficient processing for demanding Al applications. Pextra features a modern API for easy integration with existing systems, along with a high-throughput metrics and monitoring stack, allowing organizations to track performance, resource utilization, and more.

42%

of organizations plan to include an element of private cloud in their primary cloud strategy. Private and hybrid clouds are key enablers of multiple enterprise cloud strategies.

- The 2025 State of Cloud Report, Rackspace





#### **Enterprise Virtualization**

- Securely run workloads in full QEMU/KVM virtual machines
- Supports most 32 or 64-bit operating systems, including, Windows, Linux, MacOS, BSD
- Run lightweight Linux (LXC) containers with near-zero overhead, sharing the host kernel
- Minimal overhead compared to bare-metal with an optimized virtualization stack
- Manage small-scale clusters to larger multi-site deployments from a single interface

#### **AI-Ready Features**

- Direct GPU passthrough to virtual machines
- Multi-Instance GPU (MIG) and vGPU supported with NVIDIA GRID
- Seamlessly scale horizontally by adding GPU-enabled nodes

## Software-Defined Storage

- Cluster-level configuration
- Local storage support: directory-based, ZFS, and LVM
- Networked storage support: NFS, CIFS/ SMB, iSCSI, and Ceph RBD
- Native at-rest encryption support
- Live volume resizing

#### **Device Passthrough & Emulation**

- Passthrough of paravirtualized and emulated devices
- Supports input devices, network interfaces, block devices, and more
- Hot-plug support for applicable device types
- USB and PCI passthrough for direct hardware access

#### Scalable Clusters

- Fault-tolerant, multi-node clusters with no single point of failure (Raft consensus)
- Real-time, consistent configuration synchronization across all nodes
- Add new nodes without disrupting running workloads
- Cluster-aware storage and network configuration

#### **Software-Defined Networking**

- Create and manage virtual switches
- Full IPv4 and IPv6 support
- Port groups for isolation of traffic using VLANs and trunking
- Multiple uplinks for fault tolerance



#### **Backup & Replication**

- Integrated point-in-time instance backups
- Asynchronous incremental instance replication
- In-transit encryption support for replication
- Schedule backup and replication jobs with a cron interval

#### **Enterprise-Grade Security**

- Comprehensive ABAC/RBAC authorization system
- Support for multiple authentication providers and OpenID SSO
- Two-factor authentication (TOTP)
- Secure Boot and TPM support
- Sealed audit logging
- Support for restricted/fully air-gapped environments

#### Reduced Costs

- Licenses and subscriptions fully selfmanaged at portal.pextra.cloud
- Reduced long-term TCO compared to other solutions, no hidden costs
- Reduced reliance on separate paid tools with included features
- Discount on licenses and technical support subscriptions available for academia and non-profits

#### **Metrics & Monitoring**

- Centralized dashboard with performance metrics
- Historical aggregated resource usage trends for capacity planning
- Easily stream to external systems in realtime

#### **Extensive Hardware Support**

- Compatible with the latest Intel® and AMD® processors
- Broad compatibility with server-class hardware
- Wide range of GPUs, storage devices, and network adapters supported
- Maximize infrastructure investments with extended hardware lifecycle support
- Supported on non-enterprise (commodity) hardware

#### **Open-Source Foundations**

- Built on the reliable Debian GNU/Linux operating system
- Leverages battle-tested, open-source technologies for storage and networking
- Minimal vendor lock-in



#### Simple to Learn & Manage

- Streamlined installer experience
- Built-in web-based interface with intuitive workflow
- Integrated web-based VNC and text consoles for direct instance administration
- Configuration wizards for common tasks
- Extensive, visual documentation and user quide
- Local mirror of documentation for offline access
- CLI for advanced users and scripting
- Seamless, efficient system upgrades

#### **Effortless API Integration**

- Extensive API for automation and integration
- Modern, comprehensive Scalar API documentation
- Fully-declarative OpenAPI v3 schema with built-in validation
- Ready to integrate with third-party orchestration, backup, and monitoring systems

#### **Community Edition**

- Community Edition licenses at portal.pextra.cloud
- Completely free for homelabs and personal use
- Community support forum available at forum.pextra.cloud

# 

- Service-level agreements (SLAs) with ticketing via helpdesk.pextra.cloud
- Email support at support@pextra.cloud

### **Get Started**

- Free evaluation license: Visit www.pextra.cloud and click on Get Started.
- Learn the platform: Visit docs.pextra.cloud for the user quide—no prior experience needed.
- Contact us: Visit www.pextra.cloud/contact-sales, or email sales@pextra.cloud.
- Purchase: Visit portal.pextra.cloud to purchase licenses and technical support subscriptions

## Help & Support

- Technical support (SLA): Visit helpdesk.pextra.cloud to file and track tickets, or email support@pextra.cloud
- Community support: Visit forum.pextra.cloud





www.pextra.cloud | sales@pextra.cloud

1207 Delaware Ave #1212 Wilmington, Delaware 19806

Copyright © 2025 Pextra Inc. All rights reserved. Pextra, the Pextra logo, and all product and service names mentioned herein are registered trademarks or trademarks of Pextra Inc. and its subsidaries in the United States and other jurisdictions. All other marks and names mentioned herein are for identification purposes only and may be trademarks of their respective companies.