

What is XAVS ?

XAVS is a powerful virtualization solution designed to help businesses of all sizes manage multiple virtual machines (VMs) and containers efficiently. It optimizes server resource utilization, enhancing performance, scalability, and security while enabling hardware consolidation.

What it does ?

XAVS allows businesses to run multiple virtual servers on a single physical server, making it easier to manage resources and reduce hardware costs. This technology ensures that different applications can run independently without affecting each other, providing enhanced security and performance.

Key Feature

- **Intuitive Dashboard:** Easy-to-use single pane of glass for managing virtual resources.
- **Seamless Scalability:** Quickly scale your infrastructure to meet evolving business needs.
- **Enhanced Security:** Advanced security protocols and isolation for VMs and containers.
- **Resource Optimization:** Maximize server efficiency and reduce hardware costs.
- **Snapshots & Backup:** Ensure data integrity with regular snapshots and backups.
- **Microservices:** Support modern application architectures with microservices.
- **Kubernetes:** Integrate with Kubernetes for container orchestration.
- **VM Cloning:** Quickly replicate VMs for testing and development.
- **vCPU & GPU Enabled Infrastructure:** Support for virtual CPUs and GPU-enabled infrastructure.
- **Cloud Security:** Advanced security protocols for cloud environments.
- **Dynamic Instance Migration:** Seamlessly migrate instances across your infrastructure.
- **Virtual Machine Encryption:** Secure your VMs with encryption.

Why choose XAVS?

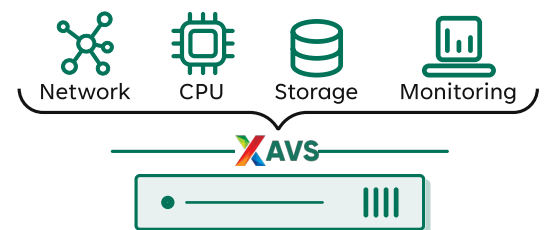
Cost Efficiency: Optimize resource utilization and reduce hardware expenses by leveraging existing infrastructure.

Enhanced Security: Protect your operations with robust security features, ensuring data integrity and isolation.

Simplified Management: Streamline management through a user-friendly interface, reducing administrative overhead.

Enterprise-Ready: Suitable for both SMBs and large enterprises, offering robust capabilities for diverse needs.

No Vendor Lock-In: Enjoy the freedom and flexibility without being tied to a single vendor.



Virtualization by Xcloud

Use Cases

Application Isolation

Run different applications independently on the same hardware without interference, ensuring enhanced security and performance for critical workloads.

Development & testing

Create isolated and sandboxed environment for developers and testers, where they can experiment with different operating systems and configuration.

Legacy Application Support

Run legacy applications on modern infrastructure by using virtual machines that replicate original environments, simplifying management & reducing costs.

Hybrid Workload Management

Virtualization streamlines workload migration between on-premises data centers and the cloud, optimizing performance, reliability, and compliance.

XAVS License Tier

Features		Standard	Professional	Enterprise
Bare-metal Virtualization	Runs Directly on Hardware. Operates without relying on a general-purpose OS, ensuring higher reliability and security.	✓	✓	✓
Guest OS Support	Broad Compatibility. Supports Windows (Client/Server), Linux (RHEL, SUSE, Ubuntu, CentOS), and Solaris x86, with vendor certification and hypervisor support.	✓	✓	✓
Live Migration	Seamless VM Mobility- Live migration of VMs between different CPU generations—even long-distance—without downtime or disruption to users.	✓	✓	✓
	Proactive High Availability. Continuously monitors host health and automatically migrates VMs from any degraded server before performance issues arise.	✗	✗	✓
	Automatic Failover. When a host fails, VMs running on it seamlessly migrate to a healthy host, maintaining service continuity.	✓	✓	✓
Availability	Affinity & Anti-Affinity Rules. Enforces rules to keep specific VMs together or separate, with native backup and restoration for the virtualization management server.	✗	✓	✓
	Single-Reboot Upgrades. Reduces upgrade times by rebooting only the hypervisor, skipping a full host reset and hardware initialization.	✓	✓	✓
	Zero Downtime & Data Loss. Ensures continuous availability and protection for critical VMs without needing complex clustering solutions.	✗	✗	✓

XAVS License Tier

	Features	Standard	Professional	Enterprise
	Hot-Add Resources. Allows adding CPU, memory, and devices to Windows or Linux VMs on the fly, with no downtime.	✓	✓	✓
	High Performance Resources. Allows tuning for SR-IOV, CPU Pinning, Huge Pages, OCP	✗	✓	✓
	Storage Cluster & Auto-Balancing. Creates a storage cluster from multiple datastores and automatically optimizes VM placement based on real-time performance demands.	✗	✗	✓
Performance	Persistent Memory Support. Exposes persistent memory as block storage or direct memory, boosting performance for modern and legacy apps; also provides configuration compliance alerts/dashboards.	✗	✓	✓
	Dynamic Resource Pooling. Aggregates computing resources into a single pool, automatically balancing workloads while allowing optional control over VM placement on specific hosts.	✗	✓	✓
	Integrated L4-L7 Load Balancer. Provides load balancing with SSL offload and advanced traffic management built into the platform.	✗	✓	✓
	Network & Storage QoS. Enforces per-VM quality of service to maintain performance for critical workloads.	✗	✓	✓
	VM-Level Encryption & Secure Boot. Encrypts data at rest and in-flight without changing guest OS, verifying system integrity and preventing unauthorized code from running.	✗	✓	✓
	Distributed Firewall. Applies stateful firewall rules at the virtualization layer, protecting every VM individually.	✓	✓	✓
Security	Policy Mobility. Automatically maintains security rules for VMs migrating between hosts or datacenters, eliminating the need to reconfigure.	✓	✓	✓
	TPM 2.0 & Virtual TPM. Offers hardware TPM 2.0 support and a virtual TPM device to protect the guest OS from unauthorized access or operator-level attacks.	✓	✓	✓
	Application-Centric Security. Ties policies directly to each application so rules move or delete with the app, even across VLANs or clusters.	✓	✓	✓
Storage Support	Flexible SAN & API Integration. Boots from iSCSI, FCoE, or FC SAN; integrates with third-party multipathing, data protection, and disk arrays; supports virtualization-aware external storage (Virtual Volumes).	✓	✓	✓
Management	Converged Visibility. Unifies monitoring of guest OS resources (CPU, disk, memory, network) and physical hardware in a single management console.	✓	✓	✓

XAVS License Tier

Features		Standard	Professional	Enterprise
Networking	Distributed Virtual Switch Extends a single virtual switch across multiple hosts, simplifying network administration and enabling third-party switch integration.	✓	✓	✓
	Multi-Site & Container Networking. Provides Layer 2 extensions across data centers, plus micro-segmentation and container-to-container L3 networking for active-active DC, DR, and microservices.	✗	✓	✓
	Advanced Network Services. Offers distributed routing (BGP), VXLAN-based switching, NAT, server load balancing, site-to-site IPSEC VPN, and a vNIC-level stateful firewall.	✗	✓	✓
VM-Based Replication	Array-Agnostic Replication Replicates VM data over LAN/WAN with RPOs as low as 15 minutes, simplifying management via VM-level replication rather than array-level.	✗	✗	✓
	Smart Alerts & Analytics. Delivers intelligent with customizable dashboards and reports to proactively identify and resolve issues.	✗	✗	✓
Disaster Recovery	Automated DR Orchestration. Enables one-click failover/failback and recovery sequencing for application VMs, all managed from the same console.	✗	✗	✓
	Non-Disruptive DR Testing. Allows full or partial DR drills without impacting production workloads, ensuring readiness without downtime.	✗	✗	✓
SDS	Scalable Distributed Storage. Provides a highly scalable, self-healing storage layer with multi-site replication, erasure coding, and replica-based redundancy. Offers VM/Container-level replication, encryption, and elastic scaling for growing workloads.	✗	✗	✓

Grow with Xloud

Xloud empowers to create, manage, and scale products and operations with **confidence**. We provide **elastic foundation** essential for business's growth by offering advanced **sandboxing** tools, to customize and optimize dynamic infrastructure effectively, which is designed to adapt seamlessly with evolving needs, ensuring the infrastructure is as agile and **resilient** as business demands.