

NexaSphere

Secure Server Virtualization

Virtualization Platform for Modern Data Centers

NexaSphere is the enterprise virtualization platform that delivers software-defined compute and networking, with hardware-independent architecture. It's designed for those who want a user experience consistent with market-leading solutions, combined with advanced enterprise-grade capabilities. With NexaSphere you get high reliability, advanced security, and optimized performance on existing physical hosts, without being tied to proprietary hardware.

Total Flexibility

A single platform able to adapt to different scenarios. NexaSphere grows with infrastructure needs, without rigid constraints.

Unified Experience

A clear and customizable console to keep resources, performance, and security under control, reducing daily complexity.

Operational Intelligence

Automation of critical processes and proactive monitoring turn management into a fast and predictable activity.

Security and Continuity

Built-in data protection and high service availability to ensure resilience, rapid recovery, and constant trust in the infrastructure.

Thanks to its enterprise-grade design and comprehensive APIs, NexaSphere enables the management and automation of complex environments, simplifying daily operations while ensuring high performance, service continuity, and advanced security.

Architecture & Openness

- Optimized KVM hypervisor with x86/ARM support
- Public RESTful APIs for IaC integration
- Fast deployment, unified web console, intuitive UI

Virtualization & Compute

- VM creation, live/cold migration, and cloning
- Fast snapshots and instant restores
- CPU pinning, vCPU and RAM hot-plug
- GPU passthrough and vGPU

Virtualization & Network

- Distributed switch and port groups
- 802.1Q VLANs, integrated DHCP/DNS
- Security groups with distributed firewall and anti-spoofing
- OVS-DPDK and SR-IOV for low latency and high throughput

Reliability & Resilience

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- Multi-level HA for VMs
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- DRS clusters with load balancing
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- Fault detection and automatic recovery
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- Operational continuity even in critical scenarios

Data Protection & Recovery

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- At-rest and in-transit VM encryption
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- Native backup integration, plus third-party support
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- vTPM 2.0 for hardware-based attestation and security

Security & Compliance

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- RBAC and custom roles
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- SSO via OIDC, AD, and LDAP
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- Secure access with 2FA, policies, and certificates
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- Centralized auditing and detailed logs

Operations & Observability

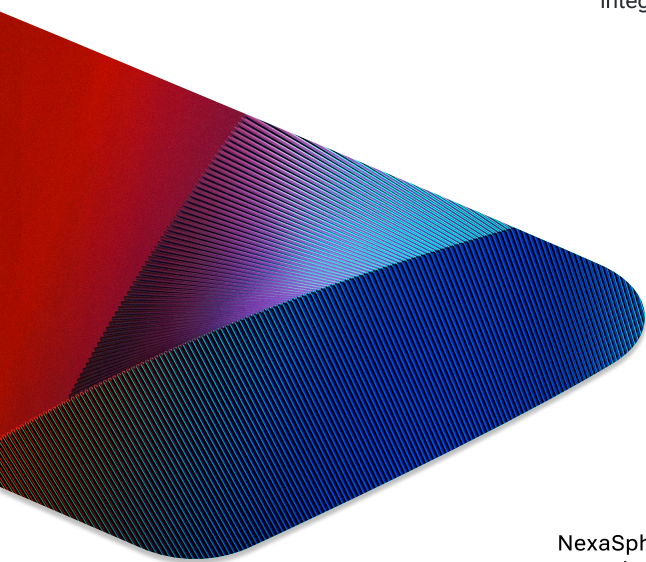
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- Single console for VMs, clusters, hosts, and storage
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- Custom tags and attributes
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- Reporting with CSV exports
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- Alarms and notifications with integration options

Expansion & Adaptability

- Unified management of clusters, hosts, VMs, and bare-metal instances from a single console
- Elastic scalability across environments, from lab to enterprise data center
- Seamless integration of new resources without operational interruptions

Smart Operations

- Automated provisioning, migration, and scheduling with dynamic policies
- Proactive monitoring of performance, capacity, and service health
- Reduced operational time thanks to guided workflows and integrated tools



NexaSphere, simple and secure, integrates physical and virtual resources into a single console, offering intelligent automation, advanced data protection, and proactive monitoring tools. This way, enterprises reduce operational complexity and prepare their infrastructure to grow in a stable, reliable, and resilient way.

True Flexibility

Centralized management of heterogeneous environments: VMs and storage. Multi-cluster and multi-datacenter support, without technology lock-in.

Governance

Dynamic scheduling policies and DRS, automated provisioning, and orchestration tools to simplify operations.

Continuous Protection

HA for VMs and clusters, advanced snapshots, local/remote backups to ensure service continuity.

Advanced Storage

Support for local storage, SAN (iSCSI/FC/NVMe), NFS, and distributed storage, with replication options, thin provisioning, and integrated monitoring.