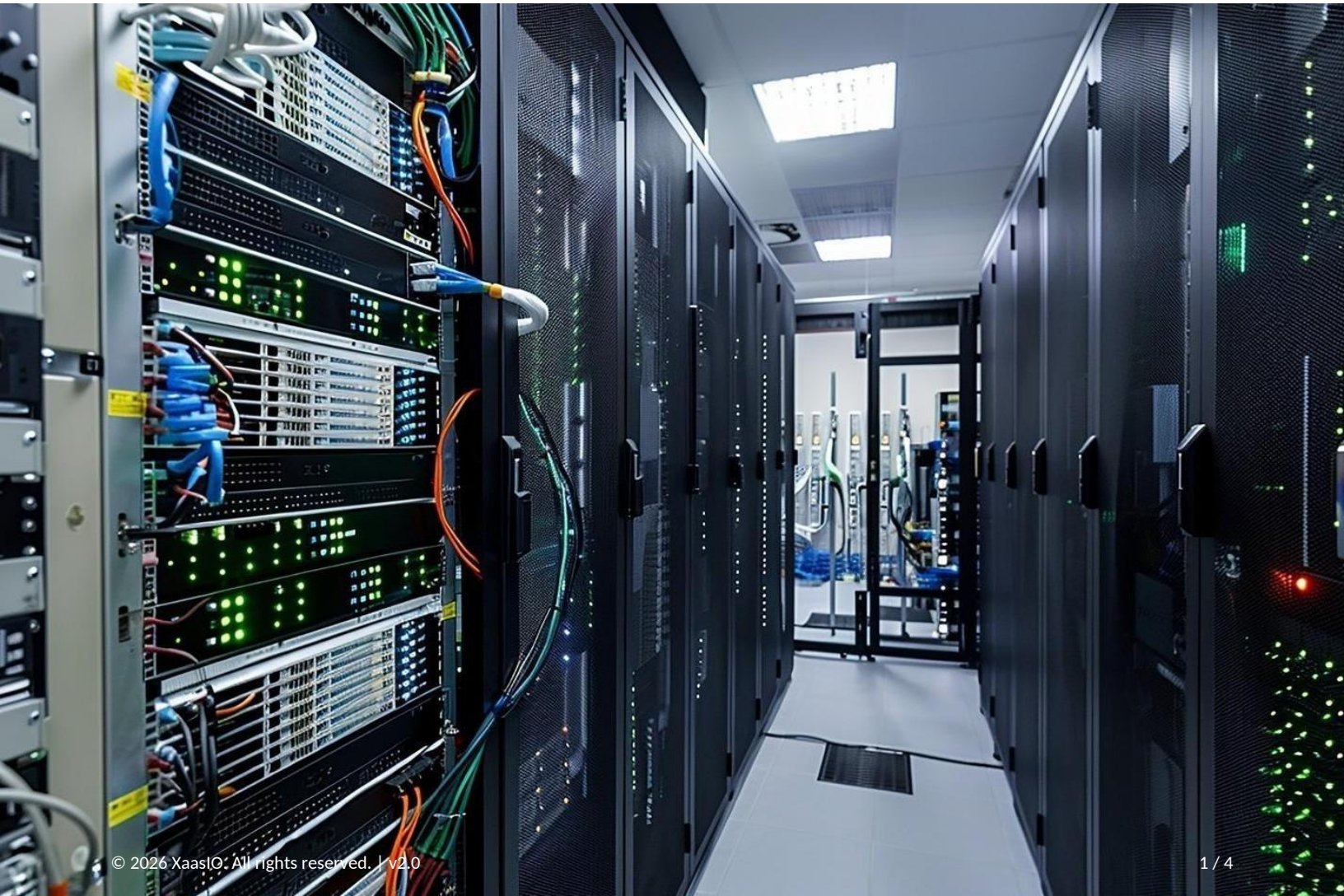
XaasIO Virtualization Platform

Enterprise Virtualization with XaasIO HCI

Run Windows and Linux virtual machines with centralized management, high availability and live migration. Choose XaasIO HCI Platform to combine virtualization and integrated Ceph storage on the same nodes, or deploy XaasIO Virtualization Platform with supported external SAN/NAS storage.



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PLATFORM OVERVIEW

Operate - Unified VM Operations

Provision, clone, template, snapshot, resize, migrate, protect and retire enterprise VMs through a centralized management interface and APIs.

Control - Private and Air-Gapped

Deploy in customer data centers, sovereign facilities or disconnected environments. Keep infrastructure operations and data within your own boundary.

Modernize - Open Foundation

Build on KVM and open infrastructure components, with XaasIO architecture, validated deployment, lifecycle maintenance and enterprise support.

DEPLOYMENT ARCHITECTURE

XaasIO HCI Platform

Combine virtualization and integrated Ceph block storage on the same nodes. Plan compute, storage and networking together as one hyperconverged cluster.

XaasIO Virtualization Platform

Connect KVM hosts to supported external SAN/NAS storage. Retain shared-storage investments, multipathing and existing data-protection workflows.

Resilience and Capacity Planning

Define host and rack failure domains, storage replication and recovery headroom. Size CPU, memory, usable storage and network bandwidth for workload demand.

ONE VIRTUALIZATION FOUNDATION | TWO DEPLOYMENT CHOICES

XaasIO HCI Platform: virtualization with integrated Ceph.
XaasIO Virtualization Platform: virtualization with supported external storage.

CORE VIRTUALIZATION AND HCI CAPABILITIES

Manage Windows and Linux VMs with integrated infrastructure controls and repeatable operations.

VM Lifecycle Management

Create, clone, import, template, snapshot, resize, migrate, suspend, restart and retire VMs. Standardize provisioning for Windows and Linux workloads.

Integrated Ceph Storage

Provide shared VM block storage from local drives across HCI nodes. Use replicated pools, recovery and rebalancing to support data resilience and planned growth.

Enterprise Identity and Access

Connect enterprise directories and selected XaasIO IAM services. Apply single sign-on, MFA and role-based access controls for platform administrators and operators.

Monitoring and Observability

Track host, VM, storage and cluster health, capacity, events and logs. Extend visibility with XaasIO MLT dashboards and alerts where required.

High Availability and Live Migration

Restart protected VMs on healthy nodes after host failure. Move compatible running workloads between hosts during planned maintenance.

Software-Defined Networking

Use VLAN and VXLAN networks with Open vSwitch. Add routing, segmentation, firewalls, VPN and load balancing through selected XaasIO NFV services.

Automation and APIs

Automate infrastructure tasks through APIs, templates and repeatable workflows. Integrate AWX/Ansible or XaasIO CMP for broader operational automation.

Backup and Recovery Integration

Integrate VM backup, snapshots and tested recovery runbooks. Plan high availability, backup and disaster recovery as distinct protection mechanisms.

ENTERPRISE OPERATIONS AND INTEGRATION

Extend operations with optional XaasIO CMP for multi-cluster governance, MLT for monitoring and logs, IAM for access, NFV for network services and DR/BC for recovery integration.

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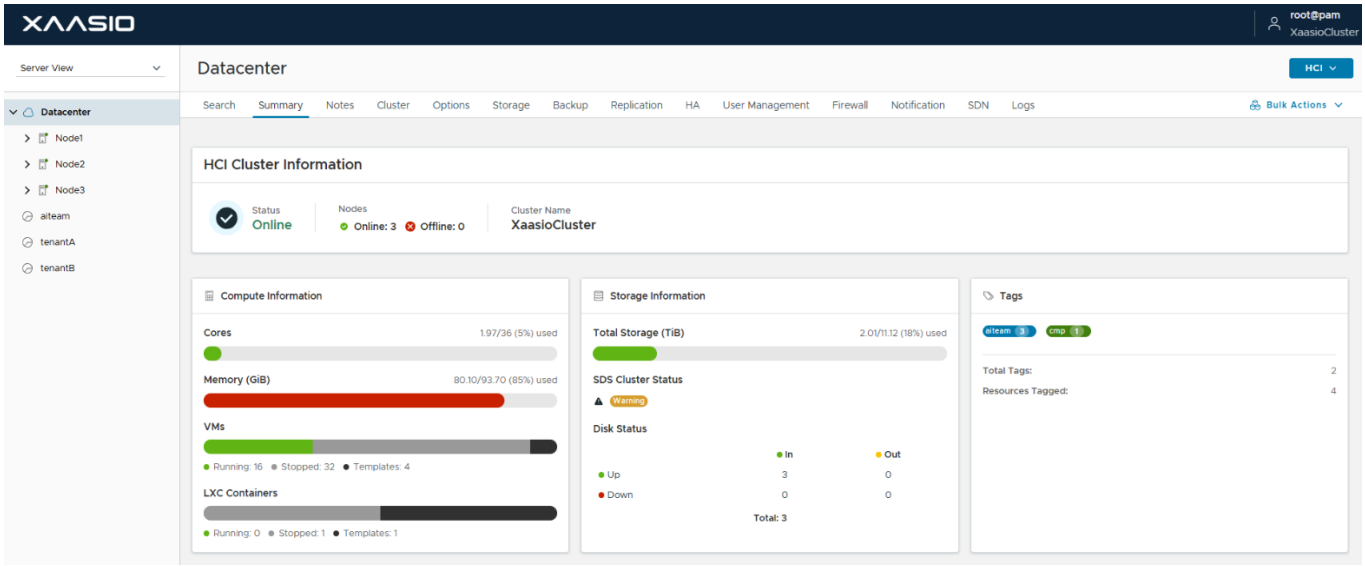

XaasIO management console shown with an HCI cluster.

CONTROLLED VMWARE MIGRATION

Move enterprise workloads through governed waves, with compatibility checks, pilot validation, rollback plans and structured handover.

- **Assess** - Inventory workloads, networks, storage, application dependencies and operational constraints.
- **Design** - Define HCI or external-storage clusters, networking, identity, availability, backup and support.
- **Pilot** - Validate representative workloads, migration tooling, performance, cutover and rollback.
- **Migrate** - Execute approved waves, verify each business service and maintain change records.
- **Stabilize** - Tune, document and hand over runbooks, then transition to steady-state operations.

FUNCTIONAL MAPPING

VMWARE	XAASIO
vSphere / ESXi	KVM hosts and VM lifecycle
vCenter	Centralized VM management
vMotion / HA	Live migration / VM restart
vSAN	XaasIO HCI with integrated Ceph
External SAN/NAS	Virtualization with external storage
NSX	Selected SDN / XaasIO NFV services
Aria / vRealize	XaasIO CMP + MLT integrations
VMware SRM	XaasIO DR/BC integration

Mappings are assessed by capability. Supported integrations and migration outcomes are validated during design.

SUPPORT AND SERVICES

- Architecture, sizing and deployment validation.
- Migration factory and implementation services.
- Runbooks, knowledge transfer and training.
- SLA-based platform support and managed operations options.

SOFTWARE SUPPLY CHAIN ASSURANCE

- Upstream and XaasIO release SBOMs in SPDX or CycloneDX formats.
- Component, dependency and license inventory.
- Vulnerability visibility and remediation status.
- Artifact provenance and signing evidence.
- Release documentation and support lifecycle.

Private data centers | Regulated industries | Sovereign and air-gapped environments

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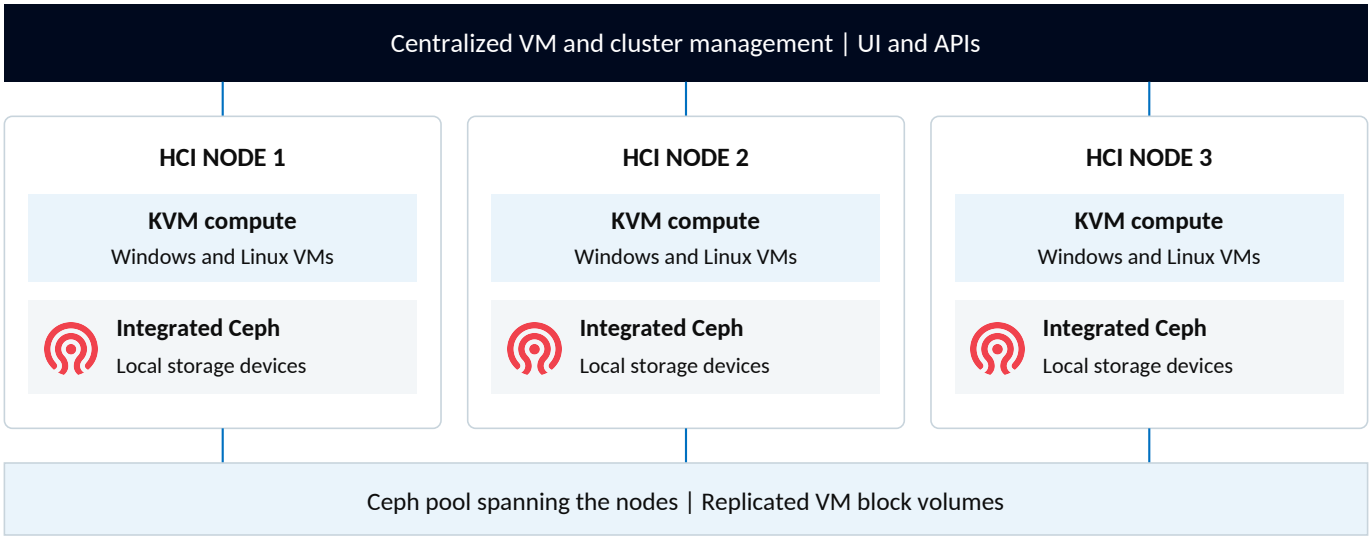
XAASIO HCI PLATFORM REFERENCE ARCHITECTURE

XaasIO Virtualization + integrated Ceph on the same nodes



Redundant network fabric for VM, management and storage traffic

Scale Out
Add validated nodes and devices

Storage Resilience
Define replication and failure domains

Recovery Readiness
Plan capacity and recovery headroom

Conceptual cluster. Node count, network design and failure domains are defined during architecture validation.

XAASIO VIRTUALIZATION AND HCI

Enterprise VM operations with integrated infrastructure.

Run Windows and Linux workloads on XaasIO Virtualization Platform. Choose XaasIO HCI Platform for integrated virtualization and Ceph storage, with architecture, deployment, lifecycle support and operational services from XaasIO.

Explore the Platform at xaasio.com/platform/virtualization/

Book a virtualization and HCI architecture workshop at xaasio.com/contact/

Learn more at xaasio.com

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