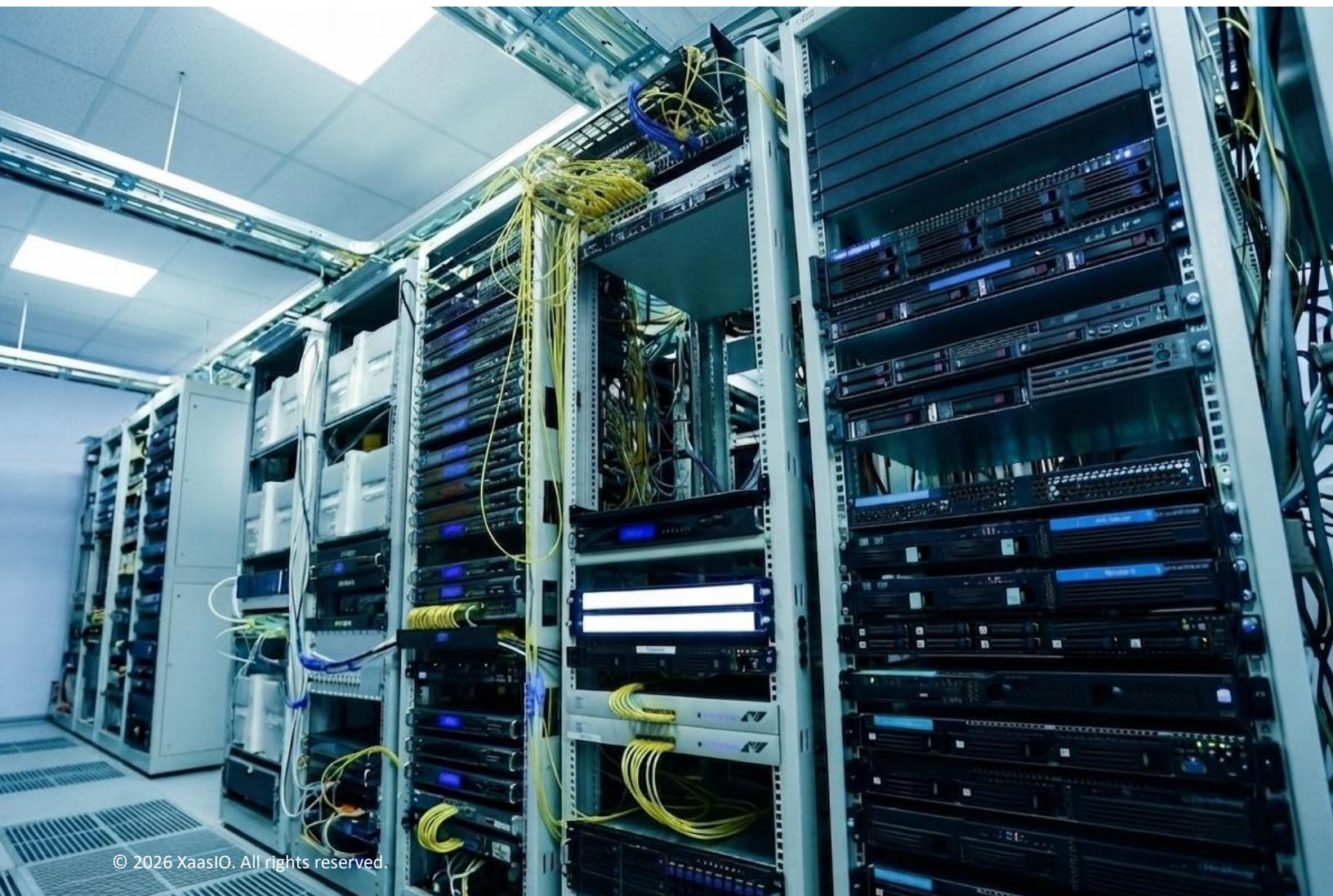


# XaasIO Compute Platform

## OpenStack Private Cloud, Made Simple

Give teams self-service access to Windows and Linux virtual machines, software-defined networks, images and persistent storage through one cloud experience. Built on upstream-aligned OpenStack and KVM, with portal, APIs, CLI and infrastructure as code.



## PLATFORM OVERVIEW

### Consume - Self-Service Infrastructure

Launch approved Virtual Machine images, networks and persistent volumes using service profiles, APIs and automation pipelines.

### Govern - Projects, Roles and Quotas

Separate departments, customers and environments with identity, policy, projects, permissions and quota controls for governance.

### Automate - API-First Cloud Operations

Use Horizon, OpenStack APIs, CLI, OpenTofu/Terraform, Heat and automation workflows from the same control plane.

## DEPLOYMENT ARCHITECTURE

### Compute - OpenStack on KVM

Run KVM compute with supported enterprise SAN/NAS storage, preserving storage investments, multipathing, operations, and established data-protection workflows.

### Storage - External Storage or Ceph SDS

Use validated enterprise SAN/NAS platforms through Cinder or deploy Ceph-based software-defined block storage and object storage.

### Network - VLAN or Open vSwitch SDN

Integrate VLAN provider networks or use Open vSwitch/OVN for virtual routing, overlays, security policies, QoS and load balancing.

## ONE CONTROL PLANE | MULTIPLE INFRASTRUCTURE MODELS

Preserve existing storage and network investments or adopt software-defined infrastructure when the validated design requires it.

## CORE OPENSTACK CAPABILITIES

Deliver a governed infrastructure cloud with self-service simplicity and the advanced controls required by enterprise, sovereign and high-performance workloads.

### VM and Image Lifecycle

Launch Windows and Linux VMs from approved images. Resize, rebuild, snapshot, shelve, migrate, evacuate and retire workloads through governed workflows.

### Smart Placement and Profiles

Offer general-purpose, memory-optimized, compute-intensive, SSD-backed, GPU-enabled and dedicated-CPU profiles mapped to compatible infrastructure.

### Software-Defined Networking

Provide private and external networks, VLAN/VXLAN connectivity, routers, floating IPs, security groups, QoS and load balancing.

### Persistent Block Storage

Attach volumes, select storage tiers and create snapshots through Cinder using Ceph RBD or validated external enterprise storage backends.

### GPU and High Performance

Support dedicated CPUs, NUMA-aware placement, huge pages, SR-IOV, PCI passthrough, GPUs and vGPUs when included in the validated architecture.

### Bare Metal and Accelerators

Extend the service catalog to include and manage bare-metal servers and specialized hardware using Ironic and hardware-aware placement policies.

### Maintenance, Recovery and Scale

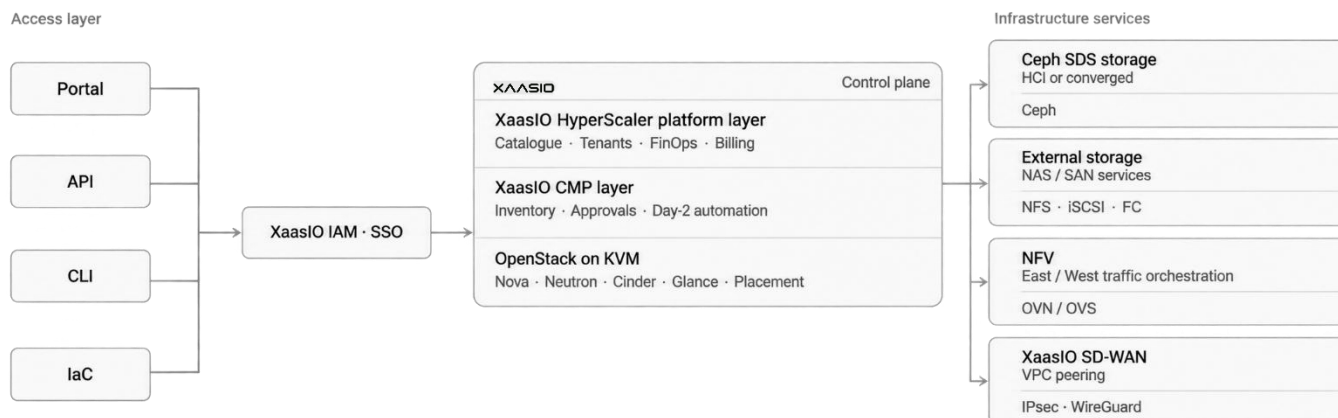
Live-migrate compatible instances, evacuate workloads and organize capacity across aggregates, availability zones, cells and regions.

### Identity, Policy and Governance

Use Keystone projects, roles, policies and quotas with optional enterprise federation through Keycloak, Active Directory or LDAP.

## ENTERPRISE OPERATIONS AND INTEGRATION

Optional platform integration includes XaasIO CMP for multi-cloud inventory, governance and Day-2 automation; XaasIO MLT for centralized monitoring, logging and telemetry; XaasIO Hyperscaler Platform for service catalogs, tenants, metering and billing; and AWX/Ansible for repeatable operational runbooks.



## PRODUCTION OPENSTACK DESIGNED FOR DAY 0 THROUGH DAY 2

XaasIO combines architecture, deployment, validation, lifecycle control and operating support to deliver OpenStack as one production-ready platform, rather than an unsupported collection of projects.

- Assess - Workloads, capacity, security, network, storage and operating constraints.
- Design - Control plane, compute, storage, networking, IAM, HA, backup and scale.
- Deploy - Automated installation, configuration, integration and environment build.
- Validate - Functional, resilience, performance, security and operational acceptance.
- Operate - Monitoring, incidents, patching, upgrades, capacity and continuous improvement.

## OPERATING MODELS

- Customer-operated - XaasIO architecture and platform support with customer-led operations.
- Co-managed - Shared responsibilities for monitoring, maintenance, incidents and change.
- Fully managed - XaasIO-led production operations under an agreed service model.
- Dedicated SRE Pod - Assigned reliability engineering capacity for Day-2 operations.

## PLATFORM COMPONENTS AND SERVICES

- Service Experience - Horizon, API, CLI and Infrastructure as Code.
- Compute - KVM, Nova, Glance & Placement.
- Networking - Neutron, VLAN/VXLAN, OVS/OVN and Octavia.
- Storage - Cinder, Ceph RBD & External Storage.
- Identity - Keystone, Keycloak, AD & LDAP Federation.
- Automation - OpenTofu/Terraform, Heat and AWX/Ansible.
- Observability - Native Telemetry & XaasIO MLT.
- Governance - XaasIO CMP & Hyperscaler Platform.

## SUPPORT & SERVICES

- Architecture, sizing and validated design.
- Installation, integration and production acceptance.
- VMware-to-OpenStack migration planning and execution.
- Runbooks, knowledge transfer and team upskilling.
- Monitoring, incident response and capacity management
- Release maintenance, patching and controlled upgrades.
- SLA-backed support and managed operations options.

# XAASIO COMPUTE PLATFORM

Build and operate an OpenStack private cloud without assembling and supporting every project yourself.

Deliver self-service virtual machines, networking, storage, identity and automation on KVM. Choose external enterprise storage or Ceph-based SDS, and VLAN provider networking or Open vSwitch-based SDN according to the validated architecture.

Explore the Platform at [xaasio.com/platform/compute/](https://xaasio.com/platform/compute/)

Book an OpenStack architecture workshop at [xaasio.com/contact/](https://xaasio.com/contact/)

Learn more at [xaasio.com](https://xaasio.com)

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