

# Orion HCI Platform

Next-Generation Hyperconverged Infrastructure Built on Kubernetes

Type 1 Hypervisor | Cloud-Native Architecture | Enterprise-Grade Performance

## | Transform Your Data Center

Orion revolutionizes infrastructure management by eliminating the complexity of traditional three-tier architectures. Built on Kubernetes, it combines enterprise-grade virtualization through KubeVirt with distributed storage to deliver a true cloud-native HCI experience.

**HA**

### High Availability & Resilience

Multi-node cluster architecture with automatic failover, quorum support, self-healing capabilities, and continuous data protection for maximum uptime.

**UM**

### Unified Management Platform

Centralized dashboard provides complete visibility and control over your infrastructure with real-time resource monitoring.

**FW**

### Flexible Workload Support

Run traditional VMs and modern containers simultaneously, enabling enterprise modernization without operational disruption.

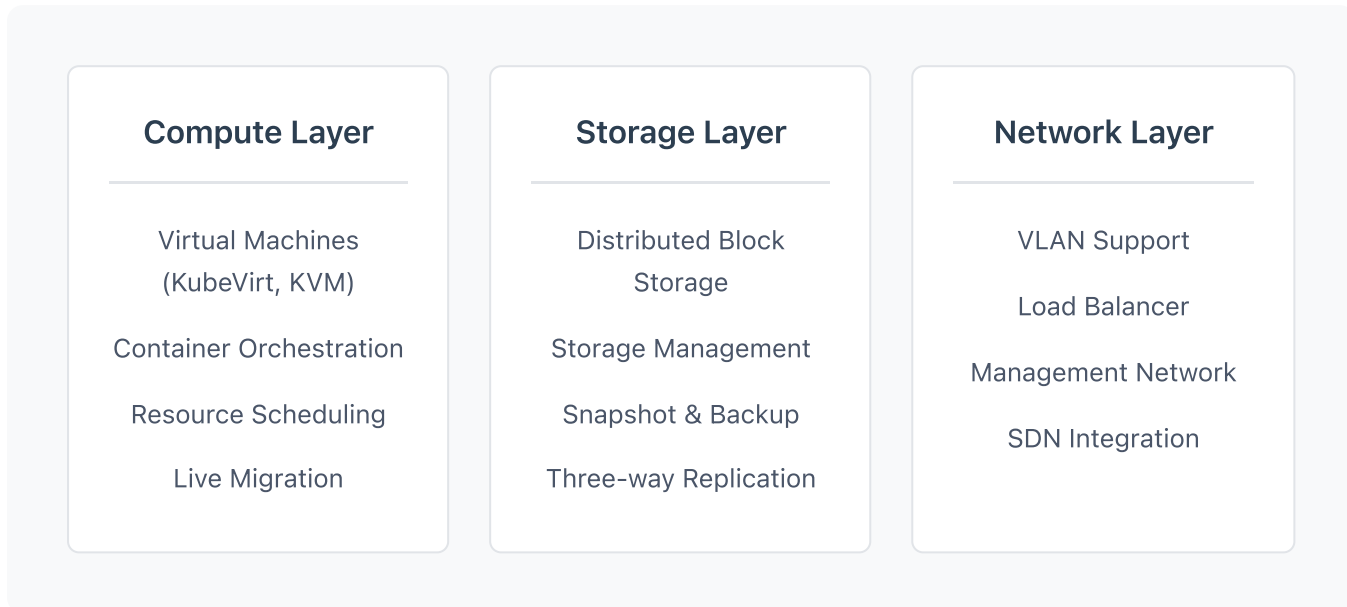
**DP**

### Enterprise Data Backup

Comprehensive backup, snapshot, and replication capabilities with support for multiple storage targets to ensure business continuity.

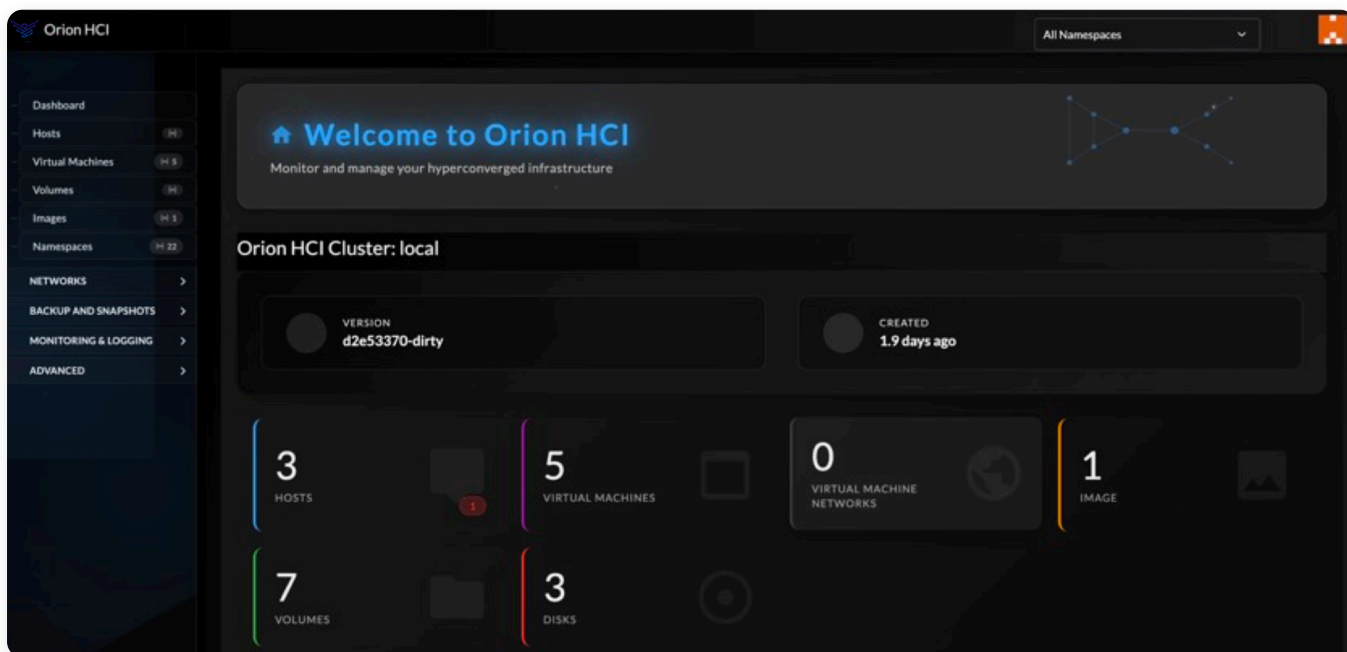
# Architecture Overview

Orion is a hyperconverged infrastructure solution deployed directly on bare-metal servers, leveraging cloud-native technologies to integrate virtualization and distributed storage.



# Unified Management Dashboard

Monitor and manage your entire hyperconverged infrastructure from a single, intuitive interface.



# Core Features

## VM Virtualization Management

- KVM-based hypervisor with KubeVirt orchestration
- Live migration with zero downtime
- VM templates and cloud image support
- PCI/GPU device passthrough
- VM import from qcow2, OVA, and VMDK formats
- Advanced resource scheduling and optimization

## ST Storage Capabilities

- Distributed storage with automatic tiering
- Backup to S3/NFS targets
- Instant volume snapshots
- Three-way replication by default
- ARCA engine powered WAN optimized file backup with Dedup, Compression, Bandwidth throttling and also provide AES 256 bit encryption

70%

Reduction in TCO

5x

Faster Deployment

90%

Less Management Time

## Why Choose Orion?

1

### Simplified Operations

Reduce operational complexity with unified management, automated workflows, and intelligent resource optimization.

2

### Enterprise-Ready

Built for mission-critical workloads with enterprise-grade reliability, security, and performance guarantees.

3

### Future-Proof Architecture

Cloud-native foundation ensures seamless integration with modern DevOps practices and container ecosystems.

4

### Cost-Effective Scaling

Start small and scale incrementally with linear performance gains and predictable costs.

## Deployment Models

Deployment Size	Node Count	Ideal For	Suggested Workload
Small	3-5 nodes	Branch offices, Development teams	Dev/test environments, small applications
Medium	7-15 nodes	Department level, Regional offices	Production workloads, databases, web services
Large	16-35 nodes	Enterprise data centers	Mission-critical applications, large-scale virtualization

## Migration Support

Migrate seamlessly from existing virtualization platforms with comprehensive import/export support.

<p><b>.OVA</b></p> <p>Open Virtual Appliance</p>	<p><b>.qcow2</b></p> <p>QEMU Copy-on-Write</p>	<p><b>.VMDK</b></p> <p>Virtual Disk Images</p>	<p><b>.raw</b></p> <p>Raw Disk Images</p>
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# Ready to Transform Your Infrastructure?

Experience the power of true hyperconverged infrastructure

[Request Demo](#)