nCSSV

A modular and flexible platform

Cloud Infrastructure Platform for Intelligent Data Centers

nCSSV is the next-generation IaaS platform that integrates compute, storage, network, and security management into a single stack.
With a fully software-based, open, and scalable architecture, nCSSV enables the creation of efficient, resilient private and hybrid clouds, ready for both enterprise and cloud-native applications.

Immediate Agility

New environments and services delivered quickly and smoothly, without hidden complexity.

Native Scalability

From a few nodes to thousands of servers, maintaining predictable performance and simplifying management via API.

Openness and Compatibility

An open approach that eliminates lock-in and enables multi-cloud and hybrid cloud scenarios.

Enterprise Reliability

HA, intelligent scheduling policies, and multi-scenario backup to ensure business continuity even in critical moments.

nCSSV is not just a cloud platform: it integrates bare-metal management, multi-cloud orchestration, continuous data protection (CDP), and advanced observability tools.
A single centralized console allows you to monitor, manage, and automate heterogeneous resources simply and effectively.

NEXAVM

Intelligent Architecture

- Microservices-based architecture with isolated, independent components, upgradable with no impact

- Asynchronous communication over a distributed message bus for resilience and parallelism

- Lock-free mechanisms and consistent hashing that eliminate bottlenecks

- Workflow engine with automatic rollback for operational stability

Expandability & Innovation

- Independent plugin system to extend functionality without downtime

- Terraform automation for fast deployment and management

- Cascade framework to consistently propagate operations across resources

- RESTful APIs for DevOps and IaC integration

Network & Connectivity

- Support for VLAN and VXLAN for multi-layer virtual networks

- Segmentable L2/L3 with integrated DHCP, DNS, and routing

- VPC router with firewall, NAT, and IPsec VPN for secure connectivity

- Observability with NetFlow, port mirroring, and topological view

NEXAVM

Storage & Data Service

- Support for local storage, SAN (iSCSI/FC), NFS, and Ceph

- Distributed and synchronized image stores for multi-zone scenarios

- Advanced snapshots and capacity management

- QoS on volumes and capacity management for consistent performance

Protection & Continuity

- Local, remote, and public cloud backups with granular retention

- Continuous Data Protection with second-level RPO and point-in-time restores

- Geographic replication and integrated disaster recovery procedures

- V2V and cross-hypervisor migration for hybrid and multi-cloud paths

Security & Governance

- Distributed security groups and firewalls with granular L2/L3 policies

- Identity & Access Management with SSO, RBAC, AD/LDAP, and MFA

- Centralized auditing, logging, and tagging for full traceability

- Multi-tenant isolation with separate users, roles, and projects

NEXAVM

Operations & Observability

- Single console for VM, cluster, network, and storage

- Performance and capacity monitoring with multi-channel alerts

- One-click automatic inspections with ready-to-use reports

- Tagging, exports, and reporting for governance and compliance

Compatibility & Scalability

- Integrated billing with always-visible rates and consumption

- Automation and consolidation to reduce TCO

- Hybrid cloud ready: scalability on-premises and in the public cloud

- Unified management of VMs and bare metal with customizable interfaces and bulk operations
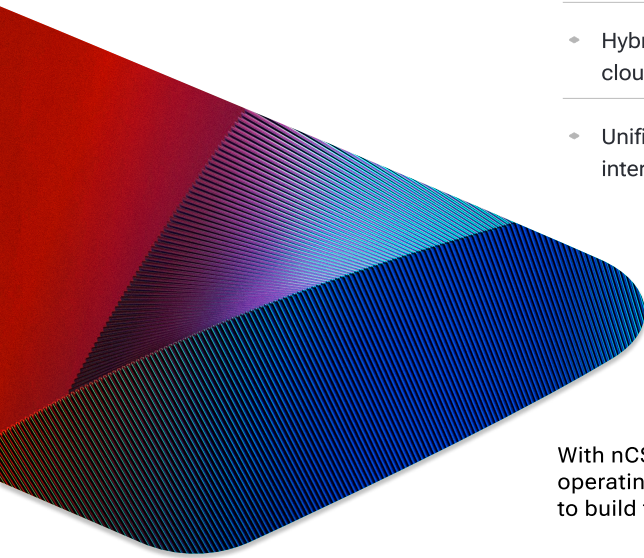
With nCSSV, enterprises and service providers can consolidate data centers, reduce operating costs, and adopt an open, resilient, and scalable cloud model. A single platform to build their digital future.

Operational Efficiency

Automation of daily operations and integrated IaC workflows to reduce time, errors, and management costs.

Continuous Innovation

Modules for AI, containers, and hybrid cloud scenarios, ensuring infrastructure is ready for new demands.

Unified Experience

A single console to simplify the control of complex and distributed environments.

Future-Proof

Elastic and modular architecture, designed to scale without limits and support edge, enterprise, and hyperscale scenarios.

NEXAVM