



NexaSphere Release Notes

Version: V2.1.1

Issue: V2.1.1

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1 NexaSphere 2.1.1 Release Notes

New Features

This release includes the following new features.

- **VM Encryption**

NexaSphere 2.1.1 adds encryption at rest and in transit for VMs to protect stored VM data and data transmitted during hot migration.

Key capabilities include:

- **Encryption at Rest:** Encrypts and decrypts data stored in virtual disks, snapshots, and backups at the hypervisor layer. No Guest OS adaptation is required.
- **Key Providers:** Supports external KMS providers and the built-in NKP. All storage types except ZHPS support VM and disk encryption.
- **Encryption State Changes and Lifecycle Management:** Allows you to enable or disable encryption when a VM is stopped and perform lifecycle operations such as snapshot, backup, and clone on encrypted VMs. Snapshots and backups are automatically encrypted and inherit the source DEK.
- **Encryption in Transit:** Encrypts memory and disk data during VM hot migration. TLS encryption is mandatory for encrypted VMs and can be enabled as needed for unencrypted VMs.

- **Commvault Backup and Restore**

This release supports backup and restore of **NexaSphere** VMs through Commvault 11.40.51, expanding integration with third-party data protection software.

- **ISO Installation Time Zone Default**

In the ISO installation interface, the default time zone is changed to Europe/Zurich.

Improvements

This release includes the following improvements.

- **Host Mount Configuration**

This release optimizes the host mount configuration in `/etc/fstab` to prevent abnormal devices from blocking system startup and improve host startup reliability.

- **nSDS-X Installation and Deployment Compatibility**

This release supports the installation and deployment of nSDS-X 6.4.300.3.

- **Log Server Enhancements**

The log server supports multi-level alarms, tiered notifications, and platform operation logs.

Logs and alarms of different levels can be delivered to external logging systems for centralized storage, query, and analysis.

- **Block Device Performance Monitoring**

You can view performance metrics for NVMe and FC block devices, including throughput, IOPS, and latency, to understand block device status and troubleshoot performance issues.

- **Built-In QXL Driver in VMTools**

VMTools includes a QXL driver for UEFI VMs. When used with a QXL video device and the SPICE remote desktop protocol, the driver provides 2D graphics acceleration and allows screen resolution adjustment.

- **VM Console Permission Control**

You can separately configure permissions for pasting local commands, using command tools, managing VM power, and enabling read-only mode in the VM console. This enhancement allows console operations to be controlled by role.

- **Data Disk Storage Relocation**

You can migrate only the data disks of a VM. Both cold and hot migration are supported from SAN storage to SAN storage. Cold migration is supported between NFS storage systems or between nSDS distributed storage systems. This enhancement lets you relocate data disks based on capacity, performance, or service planning without migrating the system disk.

- **Network and Hostname Configuration During VM Cloning**

When cloning a VM, you can customize network interface parameters and specify the VM hostname, reducing network and operating system configuration after cloning.

- **Veeam Backup and Restore Performance**

This release optimizes the Veeam backup and restore path to improve backup and restore efficiency.

Resolved Issues

This release resolves the following issues.

- Fixes an issue where the **Storage Network** field was still displayed when registering SAN storage in a cluster that already contained FC or NVMe storage.
- Fixes an issue where a dialog title on the Security Group outbound traffic page did not match the operation.
- Fixes an issue where the option to simultaneously delete disks was not reset in the confirmation dialog when a VM was moved to the recycle bin.
- Fixes an issue where restoring a custom snapshot of a running VM did not automatically trigger a shutdown operation, causing the restore to fail and the behavior to be inconsistent with the dialog message.
- Fixes an issue where disks were still automatically deleted after a migration task was deleted with the target VM retained.
- Fixes an issue where KVM Agent memory usage might continue to increase after extended operation, affecting the stability of host task execution.
- Fixes an issue where custom attribute values might be empty in CSV files exported from VM, host, data storage, bare metal host, distributed switch, or distributed storage resource lists.
- Updates the Linux kernels and related drivers of supported operating systems to fix CVE-2026-31431 and CVE-2026-43284.
- Upgrades Redis to 7.2.11 to fix CVE-2025-49844.