

KumoScale Release Notes: Platform Issues

KumoScale software is highly dependent on the server platforms used by the software. This section includes platform related issues found during KumoScale System testing and are not related to KIOXIA software.

Linux NVMe Host Module Patches

When you are ready to set up your orchestration environment, you will need to apply a patch to all of your compute nodes. This patch addresses an issue where commands get stuck while Host NVMe-oF controller is in a reconnect state. For more information on this patch and how to install it, see the [KumoScale NVMe Host Patch Instructions](#). Below is a list of the patches available with KumoScale 3.22 software:

Item	Revision
Linux NVMe host module patch for Ubuntu 20.04 LTS (kernel 5.13.0-30-generic)	1.1
Linux NVMe host module patch for Ubuntu 20.04 LTS (kernel 5.4.0-91-generic)	1.0
Linux NVMe host module patch for Ubuntu 20.04 LTS (kernel 5.8.0-63-generic)	1.0
Linux NVMe host module patch for CentOS 8.5 (kernel 4.18.0-348.2.1.el8_5)	1.1
Linux NVMe host module patch for Oracle Linux 8.5 (kernel 5.4.17-2136.300.7.el8uek.x86_64)	1.0

Platform Related Critical Issues

Bug ID	Description
NOF-2083	Rarely QCT™ QuantaGrid™ D42A-2U platform (AMD EPYC™) hangs during a reboot done via the REST API or CLI The following error is seen via IPMI: Mlx5_core: mlx5_enter_error_state 128 (pid 1)This issue was not reproducible with any other platform and may be related to PCIe errors reported with the current server samples we use <i>Mitigation:</i> Manually reboot to recover.

Platform Related High-Impact Issues

Bug ID	Description
NOF-5384 NOF-5240	SuperMicro™ 2029 system rarely hangs during a new deployment and last reported message shown "Couldn't get size 0x8000000000000000e" <i>Mitigation:</i> A second deployment attempt should be able to complete successfully.
NOF-4817	When working with a Dell PowerEdge™ R7525 server, SSD hot plug is not always recognized by Linux OS. <i>Mitigation:</i> Server Power cycle might be needed for all SSDs to be discovered.
NOF-4758	Reboot a compute host during live/cold VM migration might cause the VM instance to go into an "error state " and leave OpenStack databases related to this VM instance in an inconsistent stateSeems to be known limitation for OpenStack Stein release: https://bugs.launchpad.net/nova/+bug/1859496 https://access.redhat.com/solutions/4420801
NOF-3366NOF-3196	When working with SuperMicro SYS-2029U-TN24R4T server, SSD hot plug is not always recognized by Linux OS <i>Mitigation:</i> Server Power cycle might be needed for all SSDs to be discovered.
NOF-2460NOF-570NOF-426	When working with a SuperMicro 2028U-TN24R4T server and C-M3 or CD5 SSD, SSD hot plug is not always recognized by Linux OS <i>Mitigation:</i> Server Power cycle might be needed for all SSDs to be discovered
NOF-1507	KumoScale ISO Installation of Lenovo ThinkSystem™ SRxxx-POC can't be done via PXE. <i>Mitigation:</i> Installation should be done via USB only.
NOF-1045	When working with a Tyan™ B8026T70AE24HR server and C-M5 SSD, SSD hot plug is not always recognized by Linux OS <i>Mitigation:</i> Server Power cycle might be needed for all SSDs to be discovered.
NOF-516	Eject SSD from BMC GUI will stick the appliance (group target and NS configurations are set). <i>Mitigation:</i> Don't use the Eject SSD option from the BMC GUI

Platform Related Medium-Impact Issues

Bug ID	Description
NOF-5849	The Solarflare XtremeScale™ X2541-100G Adapter is not supported with the latest KumoScale kernel (Centos 8.3 based kernel).

Bug ID	Description
NOF-4757	During long term tests of recurrent live VM migrations it was reported once a migration failed and the VM was inaccessible.

Platform Related Low-Impact Issues

Bug ID	Description
NOF-6479NOF-6390NOF-5883NOF-5881	Seldom, during a boot of an AMD EPYC based server platform , APEI Generic Hardware Error is reported and the system hangs. <i>Mitigation:</i> System reboot should overcome this issue.
NOF-4842	When working with SuperMicro 2028U-TN24R4T, moving Bootable NVMe disks to none bootable NVMe Slot can result in a system load from SATA SSDs. <i>Mitigation:</i> Avoid using non-bootable NVMe slots for the Storage Node OS.
NOF-1062	When using a Tyan B8026T70AE24HR server, alert of “The system temperature is too high. Above: 75” can be seen”An AMD EPYC CPU on this platform report a temperature value of 82 degrees Celsius