# Dell PowerEdge Systems Red Hat Enterprise Linux 8

Release Notes

#### Notes, cautions, and warnings

(i) NOTE: A NOTE indicates important information that helps you make better use of your product.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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### Release summary

Red Hat Enterprise Linux (RHEL) 8 is the follow-on Operating System (OS) release to the RHEL 7 operating system. Major enhancements in RHEL 8 are improvements in security and stability.

#### Topics:

- Version
- Release date
- Priority and recommendations

### **Version**

8.4

### Release date

May 2021

### **Priority and recommendations**

RECOMMENDED: Dell EMC recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that help keep your system software current and compatible with other system modules (firmware, BIOS, drivers, and software).

### Compatibility

Red Hat Enterprise Linux 8 is available on the 64-bit Intel architecture.

#### **Topics:**

• System configuration requirements

### System configuration requirements

For detailed system configuration requirements for RHEL 8, see the documentation at Red Hat Support.

### **Memory**

The following table lists the system memory requirements for the x86\_64 architecture of RHEL 8.

#### Table 1. Memory requirements for x86\_64 architecture

Memory	Size
Minimum recommended system memory	1.5 GB per logical CPU
Maximum certified system memory	6 TB

### New and enhanced in RHEL 8 release

- Simple content structure available through BaseOS and Application Stream repository
- More life cycle options and frequent application updates
- YUM4 package manager is based on the DNF technology
- Increased security with memory
- Better management of System Processes
- Support for Control Group v2 mechanism
- Multiple packages of the kernel package
- Distributed with Stratis, a new local storage manager, which provides easy to use CLI and well designed API
- System-wide cryptographic policies and support for OpenSSL 1.1.1 and TLS 1.3 cryptographic standard
- New TCP/IP stack with Bottleneck Bandwidth and RTT (BBR) congestion control
- i) NOTE: For more information on what is new and enhanced in this release, see Red Hat Documentation.

### Important notes

In the earlier versions of Red Hat Enterprise Linux, the default network interface naming scheme was **biosdevname**. From RHEL 8 onwards, **systemd** is the default naming scheme for network interface naming.

NOTE: You can turn on the **biosdevname** naming scheme during installation or post installation by passing the kernel command line parameter **biosdevname=1**.

### **Fixes**

#### Topics:

- The anaconda installer crashes while autoconfiguring disk partitions
- The system hangs, and a kernel soft lockup error is observed when OMSA is installed
- I/O related errors are observed in dmesg
- RHEL 8.8 and RHEL 9.2 failed to boot
- · Unattended operating system installation fails in RHEL using server configuration profile method
- RHEL 8.6 drops into maintenance mode while booting
- RHEL 8.6 fails to boot when UEFI secure boot is enabled BIOS
- Lspci utility lists HBA350i MM/ HBA350i MM LP as generic SAS devices
- RHEL 8.5 boot fails with Intel Corporation Ethernet Controller E810
- NetworkManager may restart unexpectedly when creating greater than 256 VLAN devices configured with DHCP IP
- RHEL 8.3 installer does not automatically locate the source installation repository when only inst.stage2=hd boot option is
  used
- The output of the systematl status command displays the status as thawing
- RHEL 8 does not discover FCoE LUNs connected over Broadcom BCM57XXX NICs
- System may drop into emergency mode during boot process
- · The version field in the output of the modinfo command for certain networking drivers is null
- System hangs when Intel thoot is used to boot the operating system
- BIOS update does not complete when an update is performed using the Linux .BIN files
- Dmesg shows drm related call trace in RHEL 8.3
- Operating system crashes on servers with NVIDIA GPGPUs
- Dmesg and /var/log/messages display AMD-Vi related messages
- The status of the NetworkManager service may be inactive when RHEL 8.3 is rebooted
- Operating system crashes on AMD Rome CPU-based systems and with Intel E810 NIC
- The Ivcreate command requests a response from the user when -wipesignature -yes parameters are passed
- The mdmonitor service displays an error during operating system installation
- The dmidecode utility displays the slot type as <OUT OF SPEC> for PCle Gen 4 NVMe slots
- · The mcelog utility logs only decoding architectural errors message in var/log/messages
- Disk drives part of MD RAID are not listed as installation destination by the installer
- Dell EMC OpenManage Storage Services utility fails to reconfigure the virtual disk
- · Guest VMs with SRIOV VFs assigned take a long time to power on, and libvirt related errors are observed
- · Dmesg displays Integrity Measurement Architecture (IMA) driver related-messages during system boot
- After every reboot, the network interface name changes
- Red Hat Enterprise Linux Version 8 installation wizard creates a duplicate bonding interface
- · Servers with the AMD Rome processor display a CCP initialization failure message in dmesg
- PowerEdge servers with the AMD Rome processor fail to detect an NVMe drive after multiple hot plugs
- Operating system enters the dracut shell during boot
- System crashes when rebooted with SR-IOV-enabled QLogic cards
- After system reboot, Disk data format (DDF) devices are not listed in /proc/mdstat
- Updating NVMe firmware using the nvme-cli utility displays an error in dmesg
- Fatal error BDF 02:00.0 is detected with BCM574xx NICs
- NVMe devices are not detected after hot-plugging
- Linux operating system fails to detect the Intel x710 card
- Dmidecode displays OUT OF SPEC in Slot Type and Slot Length of SMBIOS system slots
- Custom partitioning fails with FC LUN
- When booting the system from iSCSI with Mellanox CX-4 and CX-5 adapters, the system reports csum failure message
- Red Hat Enterprise Linux 8 kernel panic is observed due to fatal hardware error

# The anaconda installer crashes while autoconfiguring disk partitions

#### Description

On a drive with older GPT metadata, the anaconda installer crashes while autoconfiguring disk partitions. The following messages are observed in syslog every time a disk is discovered:

WARNING kernel:GPT:Primary header thinks Alt. header is not at the end of the disk.

WARNING kernel:GPT:209715199 != 282407679

WARNING kernel: GPT: Alternate GPT header not at the end of the disk.

WARNING kernel:GPT:209715199 != 282407679

WARNING kernel: GPT: Use GNU Parted to correct GPT errors.

Cause When a disk is discovered by the operating system, the contents of the disk are analyzed. A GPT

partition table is found, and the location of the alternate GPT partition table is checked. Since the alternate GPT partition table is not found at the end of the disk, the above mentioned messages are observed in **syslog**. This scenario can occur when a disk is extended after a GPT partition table is

already created on it.

**Solution** Issue is fixed in python-blivet-3.2.2-8.el8 which is in RHEL 8.5 or later.

Systems affected All Dell EMC PowerEdge servers

**Applies to** Red Hat Enterprise Linux 8.2 and later

Tracking number 165679

### The system hangs, and a kernel soft lockup error is observed when OMSA is installed

#### Description

On the Dell PowerEdge system configured with PERC 12 and with the mpi3mr out of box driver installed, or when the user installs OM-SrvAdmin-Dell-Web-LX-11.0.1.0-5487.RHEL8.x86\_64 (OMSA) the following call trace is observed when the system is in use: kernel:watchdog: BUG: soft lockup - CPU#30 stuck for 22s! [kworker/30:1H:931].

Issue is observed when September firmware version 8.4.10.0.18-5 (DPN 2DVNW) and December firmware version 8.4.0.0.18-29 (DPN 93K10) driver combination is used. For more information, see

Red Hat Enterprise Linux Knowledge Base article 6985596.

Workaround Use inbox mpi3mr driver instead of OOB driver or Use December FY24 firmware and December FY24

PERC 12 OOB driver.

**Resolution** The issue has been resolved in RHEL 8.7 z stream kernel. (kernel-core-4.18.0-425.10.1.el8\_7).

**Systems affected** All Dell PowerEdge Servers with a high number of CPU cores.

**Applies to** Red Hat Enterprise Linux 8.5 and later.

Tracking number 277161

### I/O related errors are observed in dmesg

#### Description

On Dell EMC PowerEdge systems equipped with PERC or HBA and installed with RHEL 8.8 and started performing I/O on EXT4 file system drives using the I/O tool, the following error messages were displayed by Dmesg after some time of stress.

EXT4-fs (sdc): Delayed block allocation failed for inode 157 at logical offset 1024 with max blocks 4 with error 74 EXT4-fs (sdc): This should not happen!! Data will be lost

**Workaround** Free up some space in the file system or extend the file system.

**Resolution** The error is expected when the file system is full. For more information, see Red Hat Enterprise Linux

Knowledge Base article 330523.

Systems affected Dell PowerEdge system XE9680

**Applies to** Red Hat Enterprise Linux 8.6

Tracking number 278631

#### RHEL 8.8 and RHEL 9.2 failed to boot

**Description** On Dell PowerEdge systems configured with the AMD Siena SP6 Processor. RHEL 8.8 and RHEL 9.2

operating system cannot normally boot into the operating system after installation and intermittently entering to emergency mode when system profile settings are set to performance mode in the BIOS.

Workaround While the system is booting, press 'e' to enter the kernel command line:

1. Add **nomodeset** after rhgb quiet to the kernel command line and press ctrl+x to save and boot

into the operating system.

2. Remove **rhgb** from the kernel command line and press ctrl+x to save and boot into the operating

system

**Resolution** The issue is resolved in Red Hat Enterprise Linux 8.9 and 9.3.

**Systems affected** Dell PowerEdge system C6615

**Applies to** Red Hat Enterprise Linux 8.5 and later.

Tracking number 273714

# Unattended operating system installation fails in RHEL using server configuration profile method

**Description** On Dell PowerEdge system, during the installation of Red Hat Enterprise Linux by importing server

configuration profile(SCP), installer is not reading the ks.cfg file, that is stored in a block device with the file system label OEMDRV exposed by life cycle controller to the operating system. As a result,

unattended installation stops at language selection wizard.

Workaround Pass inst.ks=hd:LABEL=OEMDRV:/ks.cfg kernel command-line parameter. For more information,

see Red Hat Enterprise Linux Knowledge Base article 6999834.

**Resolution** Issue is resolved in RedHat Enterprise Linux 8.9.

Systems affected All Dell PowerEdge systems

**Applies to** RedHat Enterprise Linux 8.0 and later.

Tracking number 245112

### RHEL 8.6 drops into maintenance mode while booting

**Description** On the Dell EMC PowerEdge system with high number of CPU cores and system profile set to

performance, the system fails to boot into the operating system and drops into the maintenance

mode.

Workaround Pass module\_blacklist=acpi\_cpufreq kernel command line parameter.

**Resolution** Issue is resolved in RedHat Enterprise Linux 8.8.

**Systems affected** All Dell EMC PowerEdge Servers with high number of CPU cores.

**Applies to** RedHat Enterprise Linux 8.5 and later.

Tracking number 218734

### RHEL 8.6 fails to boot when UEFI secure boot is enabled BIOS

**Description** On a system which has a operating system with shim version 15.7 or later installed, trying to install

RHEL 8.6 fails with error message Verification failed: (0x1A) Security Violation

shown on console. The behavior is as expected.

Workaround To install RHEL 8.6 on a system showing the message Verification failed: (0x1A)

Security Violation:

Option 1: See, Red Hat Enterprise Linux Knowledge Base article 7010515. Option 2: ssh to iDRAC and execute racadm systemerase bios.

i NOTE: The command may reset all BIOS settings to default.

Systems affected All Dell PowerEdge systems

**Applies to** RedHat Enterprise Linux 8.6.

Tracking number 260940

# Lspci utility lists HBA350i MM/ HBA350i MM LP as generic SAS devices

**Description** On a system configured with HBA350i MM/HBA350i MM LP Controllers Ispci utility lists the HBA350i

MM/HBA350i MM LP devices as generic SAS devices Fusion-MPT 12GSAS/PCIe Secure SAS38xx

instead of HBA350i MM/HBA350i MM LP.

Cause The PCI vendor/device IDs of HBA350i MM/HBA350i MM LP controller are not present in PCI ID

database in Red Hat Enterprise Linux 8.5.

Workaround Not Available. It is a cosmetic issue.

**Solution** This issue is resolved in Red Hat Enterprise Linux 8.6.

Systems affected All Dell EMC PowerEdge servers supporting HBA350i MM/HBA350i MM LP controller.

**Applies to** Red Hat Enterprise Linux 8.5

Tracking number 222570

## RHEL 8.5 boot fails with Intel Corporation Ethernet Controller E810

**Description** RHEL 8.5 boot process fails when the system has Intel Corporation Ethernet Controller E810 plugged

in. During the boot process the splash screen hangs. The PCI Device ID of E810 NIC is 8086:1593. For

more information, see Red Hat Enterprise Linux Knowledge Base article 6745731.

Workaround Issue can be worked around by removing rhgb keyword from grub command line.

**Solution** Issue is resolved in RedHat Enterprise Linux 8.6.

Systems affected All Dell EMC PowerEdge Servers supporting Intel Corporation Ethernet Controller E810.

**Applies to** RedHat Enterprise Linux 8.4 and RedHat Enterprise Linux 8.5.

Tracking number 217700

# NetworkManager may restart unexpectedly when creating greater than 256 VLAN devices configured with DHCP IP

**Description** On RHEL 8.3, when more than 256 VLAN devices are created and configured with DHCP IP,

NetworkManager utility may restart unexpectedly resulting in not creating expected number of VLAN

devices and some VLAN interfaces may not receive DHCP IP.

Workaround 1. Increase the limit on number of files that NetworkManager can open as below:

a. Create file/etc/systemd/system/NetworkManager.service.d/set-limit-nofile.conf

b. Add following lines to /etc/systemd/system/NetworkManager.service.d/set-limit-nofile.conf [Service] LimitNOFILE=65536

c. systemctl daemon-reload

**d.** systematl restart NetworkManager or reboot the system after step (b).

2. Disable IPv6 configuration for the VLAN interfaces at the time of connection activation. Instead of disabling IPv6 in two steps, disable it in a single step as shown below.

a. Merge steps b) and c) to a single step d).

 b. nmcli con add type vlan ifname <interface name> con-name <connection name> dev <device name> id <vlan id>

c. nmcli con modify <connection name> ipv6.method disable

d. nmcli con add type vlan ifname <interface name> con-name <connection name> dev <device

name> id <vlan id> ipv6.method disabled

**Solution** This issue is resolved in Red Hat Enterprise Linux 8.4.

**Systems affected** All Dell EMC PowerEdge systems

**Applies to** Red Hat Enterprise Linux 8.0 and later

Tracking number 191829

# RHEL 8.3 installer does not automatically locate the source installation repository when only inst.stage2=hd boot option is used

**Description** When both stage2 and the installation repository are on the same internal drive or external drive (USB

hard drive), RHEL 8.3 installer does not automatically locate the source installation repository when

only inst.stage2=hd boot option is used.

Solution Modify the boot option inst.stage2=hd:LABEL=<NAME> to inst.repo=hd:LABEL=<NAME>.

**Systems affected** Dell EMC PowerEdge yx4x and yx5x servers

**Applies to** Red Hat Enterprise Linux 8.3

# The output of the systemctl status command displays the status as thawing

**Description** The output of the **systemctl status <service name>** command displays the status **Active: active** 

(running) (thawing) instead of Active: active (running) when a service is reloaded. This issue is a

cosmetic issue and can be ignored.

**Solution** The issue is resolved in systemd version 239-41.el8\_3.x86\_64 and later.

**Systems affected** Dell EMC PowerEdge yx4x and yx5x servers

**Applies to** Red Hat Enterprise Linux 8.3

Tracking number 178127

### RHEL 8 does not discover FCoE LUNs connected over Broadcom BCM57XXX NICs

#### Description

On systems with Broadcom BCM57XXX NICs installed, the following cases are observed:

- 1. When Red Hat Enterprise Linux 8 is installed on FCoE Logical Unit (LUN) as the installation destination, LUN is not discovered.
- 2. While upgrading Red Hat Enterprise Linux 7 to Red Hat Enterprise Linux 8, and if the current operating system is installed on FCoE LUN, then the operating system fails to boot.
- **3.** When Red Hat Enterprise Linux 7 is upgraded to Red Hat Enterprise Linux 8, and if FCoE LUN is connected to the system as data LUN, then LUN is not discovered.

CAUTION: Do not upgrade to Red Hat Enterprise Linux 8 if FCoE LUNs are attached to Broadcom BCM57XXX NICs. Boot failure or data inaccessibility may result.

Cause

From Red Hat Enterprise Linux 8 onwards, the software FCoE is deprecated. When software FCoE support is not enabled in the operating system, the bnx2fc driver uses the libfcoe module. Since FCoE works over VLAN 802.1Q, the relevant change needs to be implemented in 802.1Q network module. As these changes were never done, Red Hat Enterprise Linux 8 fails to discover FCoE LUN connected over Broadcom BCM57XXX NICs.

**Workaround** There is no workaround for this issue.

**Solution** This issue is resolved in Red Hat Enterprise Linux 8.3.

Systems affected Dell EMC PowerEdge M630, FC630, M830, FC830, R630, R730, R730xd, R930, R640, R740, R940

**Applies to** Red Hat Enterprise Linux 8.0

Tracking number 131903

# System may drop into emergency mode during boot process

**Description** System may drop into emergency mode during boot process if CPU Power Management is set to

Maximum Performance in BIOS. For more information, see Red Hat Enterprise Linux Knowledge Base

article 6130261.

Workaround Pass module\_blacklist=acpi\_cpufreq to the boot loader.

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.5.

Systems affected Dell PowerEdge R6515, Dell PowerEdge R7515, Dell PowerEdge R6525, Dell PowerEdge R7525, and

Dell PowerEdge C6525.

**Applies to** Red Hat Enterprise Linux 8.4

Tracking number 200841

# The version field in the output of the modinfo command for certain networking drivers is null

**Description** The version field in the output of the **modinfo** command for certain networking drivers is null. As a

result, the version field in the output of ethtool-i command is set to the version of the kernel. The

output of the modinfo command is similar to the following:

modinfo -F version i40e

<no output>

**Workaround** Use the following command to retrieve the version of the network driver:

modinfo <driver name> | grep rhelversion

For more information, see Certain kernel drivers do not display their version section under Know

Issues.

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.5.

Systems affected All Dell EMC PowerEdge servers.

Applies to Red Hat Enterprise Linux 8.4

Tracking number 197095

# System hangs when Intel thoot is used to boot the operating system

**Description** In legacy BIOS boot mode, system hangs when tboot version 1.9.12-2 is used to boot the operating

system. The issue is observed with both TPM v2.0 and v1.2.

Workaround Use thoot version 1.9.10-1 from RHEL 8.2 GA. For more information, see Red Hat Enterprise Linux

Knowledge Base article 6013091.

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.5.

Systems affected All Dell EMC PowerEdge systems.

Applies to Red Hat Enterprise Linux 8.3 and later.

Tracking number 197339

# BIOS update does not complete when an update is performed using the Linux .BIN files

**Description** BIOS update does not complete when an update is performed using the Linux .BIN files.

Cause Interaction with Intel Management Engine Interface (Intel MEI) results in cold reboot instead of warm

reboot.

**Workaround** Exclude the mei and mei\_me drivers.

**Solution** This issue is resolved in Red Hat Enterprise Linux 8.4.

Systems affected Dell EMC PowerEdge systems R240, R340, T140, and T340

**Applies to** Red Hat Enterprise Linux 8.3

Tracking number 195178

### Dmesg shows drm related call trace in RHEL 8.3

**Description** On a Dell EMC PowerEdge MX740C system installed with RHEL 8.3, following call trace is observed in

Dmesg:

WARNING: CPU: 102 PID: 1722 at drivers/gpu/drm/

drm\_gem\_vram\_helper.c:576

For more information, see Red Hat Enterprise Linux Knowledge Base article 5899381.

**Workaround** Not available. The message can be ignored.

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.4.

Systems affected Dell EMC PowerEdge MX740C, Dell EMC PowerEdge MX750C.

**Applies to** Red Hat Enterprise Linux 8.3

Tracking number 194811

### Operating system crashes on servers with NVIDIA GPGPUs

**Description** Operating system crashes when installing Red Hat Enterprise Linux 8.3 on servers with NVIDIA

GPGPUs. For more information, see Red Hat Enterprise Linux Knowledge Base article 5853331.

Workaround Prevent nouveau driver from loading, by passing modprobe.blacklist=nouveau parameter

during the installation.

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.4.

Systems affected All Dell EMC PowerEdge systems which support Nvidia GPGPUs

**Applies to** Red Hat Enterprise Linux 8.3

Tracking number 189163

# Dmesg and /var/log/messages display AMD-Vi related messages

**Description** Dmesg and /var/log/messages display the following messages on Dell EMC PowerEdge servers with

256 core CPUs and Dell EMC PowerEdge Express Flash Enterprise NVMe Agnostic (AGN) device or Dell EMC Express Flash Enterprise NVMe CD6 or Dell EMC Express Flash Enterprise NVMe CM6

device:

AMD-Vi: Failed to allocate IRTE

The message indicates that only a total of 255 IO queues are enabled instead of 256.

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.4.

Systems affected Dell EMC PowerEdge C6525, Dell EMC PowerEdge R6525, and Dell EMC PowerEdge R7525.

**Applies to** Red Hat Enterprise Linux 8.0 and later

### The status of the NetworkManager service may be inactive when RHEL 8.3 is rebooted

**Description** The status of the NetworkManager service may be inactive when the operating system is rebooted.

The issue is observed when the Performance Co-Pilot (PCP) package is installed on the operating system. The command **systemctl status NetworkManager** can be used to check the status of the service. For more information, see Red Hat Enterprise Linux Knowledge Base article 5394191.

**Workaround** Disable the **pmlogger.service** using the following command:

#sudo systemctl disable pmlogger.service

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.4.

Systems affected All Dell EMC PowerEdge servers

Applies to Red Hat Enterprise Linux 8.3

Tracking number 185625

# Operating system crashes on AMD Rome CPU-based systems and with Intel E810 NIC

**Description** Operating system crashes when installing Red Hat Enterprise Linux 8.3 on AMD Rome CPU based

systems and with Intel E810 NIC if the system has 256 logical CPUs.

Workaround Pass nr\_cpus=255 kernel command line parameter during and after installation. For more information,

see Red Hat Enterprise Linux Knowledge Base article 5597881.

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.4

Systems affected Dell EMC PowerEdge C6525, Dell EMC PowerEdge R6525, and Dell EMC PowerEdge R7525.

**Applies to** Red Hat Enterprise Linux 8.3

Tracking number 179019

# The lvcreate command requests a response from the user when -wipesignature -yes parameters are passed

**Description** The **Ivcreate** command requests a response from the user when **-wipesignature -yes** parameters

are passed. When -yes parameter is passed, Ivcreate is not expected to prompt the user for a

response.

Workaround Use the wipefs command to clear the signatures before reusing the space for Logical Volume

Manager (LVM).

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.4.

Systems affected All Dell EMC PowerEdge servers

**Applies to** Red Hat Enterprise Linux 8.0 and later

# The mdmonitor service displays an error during operating system installation

**Description** When the operating system is installed on a virtual disk that is created by Dell EMC S150 RAID

Controller, the following error message is observed during installation:

[FAILED] Failed to start Software RAID monitoring and management

This issue is a cosmetic issue and can be ignored. The operating system installation completes

successfully.

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.4

**Systems affected** Dell EMC PowerEdge yx4x and yx5x servers

**Applies to** Red Hat Enterprise Linux 8.0 and later.

Tracking number 178369

### The dmidecode utility displays the slot type as <OUT OF SPEC> for PCIe Gen 4 NVMe slots

**Description** The dmidecode utility displays the Slot Type field of Type 9 record as <OUT OF SPEC> for PCle

Generation 4 NVMe slots.

Cause The dmidecode utility does not support the Slot Type value of 0x24 that is defined in System

Management BIOS (SMBIOS) version 3.4.

**Solution** The issue is resolved in SUSE Linux Enterprise Server 15 Service Pack 2 maintenance update

dmidecode version dmidecode-3.2-9.6.1.

Systems affected Dell PowerEdge R6515, Dell PowerEdge R7515, Dell PowerEdge R6525, Dell PowerEdge R7525, and

Dell PowerEdge C6525.

**Applies to** SUSE Linux Enterprise Server 15 Service Pack 1 and later.

Tracking number 171945

# The mcelog utility logs only decoding architectural errors message in var/log/messages

**Description** The mcelog utility logs only **decoding architectural errors** message in /var/log/messages:

mcelog: Family 6 Model 106 CPU: only decoding architectural errors mcelog: Family 6 Model 106 CPU: only decoding architectural errors

**Solution** This issue is resolved in Red Hat Enterprise Linux 8.3.

For more information, see Red Hat Enterprise Linux Knowledge Base article 6032341.

Systems affected Dell PowerEdge R750, Dell PowerEdge R650, Dell PowerEdge C6525, Dell PowerEdge MX750C.

**Applies to** Red Hat Enterprise Linux 8.2

# Disk drives part of MD RAID are not listed as installation destination by the installer

**Description** During installation, if a disk drive which was previously part of MD RAID volume is used, it is not listed

as an installation destination by the operating system installer.

Solution The drive must be formatted. For more information, see Red Hat Enterprise Linux Knowledge Base

article 5801081.

Systems affected All Dell PowerEdge servers

**Applies to** Red Hat Enterprise Linux 8.0 and later

Tracking number 192006

# Dell EMC OpenManage Storage Services utility fails to reconfigure the virtual disk

#### Description

On a system with multiple guest VMs running storage IO and network IO operations, Dell EMC OpenManage Storage Services utility fails to reconfigure the virtual disk that is connected to the PERC H755 or PERC H755N card. The dmesg displays following call trace indicating page allocation failure for high order memory allocation requests:

```
dsm_sa_datamgrd: page allocation failure: order:6,
mode:0x6000c0(GFP_KERNEL), nodemask=(null),cpuset=/,mems_allowed=0-1
```

dmesg also shows following messages:

```
megaraid_sas 0000:01:00.0: Failed to alloc kernel SGL buffer for IOCTL megaraid_sas 0000:01:00.0: Failed to alloc kernel SGL buffer for IOCTL
```

The issue may occur when the operating system is under pressure for high-order memory.

#### Workaround

Reconfigure the virtual disk from the Integrated Dell Remote Access Controller (iDRAC).

#### Cause

By default, the 'cache' setting for VMs is set to writeback. This results in host memory being used for buffer cache when storage IO is being performed by guest VMs.

#### Solution

Modify the 'cache' setting for guest VMs to 'none'. For more information, see Red Hat Enterprise Linux Knowledge Base article 5905701.

In the XML profile of guest VMs, change the following:

То

#### Systems affected

All Dell EMC PowerEdge servers

Applies to

Red Hat Enterprise Linux 8.3

Tracking number

194332

# Guest VMs with SRIOV VFs assigned take a long time to power on, and libvirt related errors are observed

#### Description

On a system with multiple guest VMs running storage I/O and network IO operations, VMs with SRIOV VFs assigned take a long time to power on. When the issue occurs, following error message is logged in /var/log/messages continuously until the guest VM successfully powers on:

Timed out during operation: cannot acquire state change lock (held by monitor=remoteDispatchDomainCreate)

#### Cause

By default, the cache setting for VMs is set to write back. This results in host memory being used for buffer cache when storage I/O is being performed by guest VMs.

#### Solution

Modify the cache setting for guest VMs to none. For more information, see Red Hat Enterprise Linux Knowledge Base article 5886891.

In the XML profile of guest VMs, change the following:

То

#### Systems affected

All Dell EMC PowerEdge servers

Applies to

Red Hat Enterprise Linux 8.3

Tracking number 194002

# Dmesg displays Integrity Measurement Architecture (IMA) driver related-messages during system boot

Description

Dmesg displays the following IMA driver related messages during system boot when the TPM 2.0 chip is enabled with a SHA-256 algorithm:

```
ima: Allocated hash algorithm: shal
ima: Error Communicating to TPM chip
```

Cause The Integrity Measurement Architecture (IMA) driver currently supports the SHA-1 algorithm only.

Solution Issue is resolved in Red Hat Enterprise Linux 8.3

Systems affected Dell EMC PowerEdge yx4x and yx5x servers

Applies to Red Hat Enterprise Linux 8.1 and later

Tracking number 165260

# After every reboot, the network interface name changes

#### Description

Network interfaces for NICs plugged into the PCI slot are named incorrectly. The issue could manifest where interfaces are named as ethN instead of the expected ensXfY format, or the network interface is incorrectly named. For example, the network interface is named ens5f0 when it is plugged into slot number 4

**Cause** There is an issue with \_SUN ACPI Slot numbers in system firmware.

**Solution** Update the system BIOS to 1.4.8 version or later.

**Systems affected** • PowerEdge R6525: Impacted slots are 1, and 2

• PowerEdge R7525: Impacted slots are 1, 2, 3, 6, 4, 5, 7, and 8

**Applies to** Red Hat Enterprise Linux 8.1

Tracking number 148546

# Red Hat Enterprise Linux Version 8 installation wizard creates a duplicate bonding interface

**Description** During Red Hat Enterprise Linux Version 8.1 installation, after creating a bonding and VLAN interface

with the bonding interface as the parent interface, the system automatically creates a duplicate bonding, VLAN, and virtual network interfaces named as None. Later, the system encounters an unknown error, and further network configurations are not allowed. The duplicate entries are created when the bonding interface or VLAN interface does not obtain an IP address. You can resume the operating system installation by restarting anaconda service, systemctl restart anaconda in

the shell.

**Solution** Issue is resolved in Red Hat Enterprise Linux 8.3.

**Systems affected** Dell EMC PowerEdge yx4x and yx5x servers

**Applies to** Red Hat Enterprise Linux 8.1

Tracking number 128135

# Servers with the AMD Rome processor display a CCP initialization failure message in dmesg

**Description** Servers with AMD Rome processor display the following messages in dmesg:

CCP initialization failed PSP Initialization failed

The CCP message indicates that the CCP device is not available. The PSP message indicates its dependency on the SEV feature.

**Solution** The issue is resolved in Red Hat Linux Enterprise Server 8.2.

Systems affected Dell PowerEdge R6515, Dell PowerEdge R6525, Dell PowerEdge R7515, Dell PowerEdge R7525, and

Dell PowerEdge C6525.

Applies to Red Hat Linux Enterprise Server 8.0, Red Hat Linux Enterprise Server 8.1

Tracking number 144920

# PowerEdge servers with the AMD Rome processor fail to detect an NVMe drive after multiple hot plugs

**Description** The PowerEdge servers with the AMD Rome processor fail to detect an NVMe drive after multiple hot

plugs.

Cause Issue in pciehp driver.

#### Workaround

i NOTE: The output of each command varies based on your system configuration.

Follow the steps:

1. Identify the parent device to which the NVMe device is connected using the following command:

From the above snippet, the device e2:00.0 is the NVMe device and the device e0:03.1 is the parent device. The parent device is used for the steps that are described subsequently.

2. Read the **Slot Status Register** in the PCI Express Capability structure by running the following command:

```
setpci -s e0:03.1 CAP_EXP+0x1a.w
```

Output: 0148 (value returned)

3. Clear the event bits that are impacted by running the following command:

```
setpci -s e0:03.1 CAP_EXP+0x1a.w=0x0108
```

4. Re-read the Slot Status Register to confirm that event bits are cleared by running the following command:

```
setpci -s e0:03.1 CAP_EXP+0x1a.w
```

Output: 0040 (value returned)

5. Unplug the drive and then plug-in the drive after clearing the event bits.

The issue is resolved in Red Hat Enterprise Linux 8.2 z-stream kernel version kernel-4.18.0-193.13.2.el8\_2.x86\_64 and later

Systems affected

PowerEdge R6515, PowerEdge R7515, PowerEdge R6525, PowerEdge C6525, and PowerEdge R7525

Applies to

Solution

Red Hat Enterprise Linux 8

Tracking number

155501, 155503

### Operating system enters the dracut shell during boot

#### Description

When Red Hat Enterprise Linux 8.1 is installed on PowerEdge RAID Controller (PERC) virtual disk (VD) and the system is rebooted, during this boot process the system enters the dracut shell with the following error message:

```
scsi alloc sdev: Allocation failure during SCSI scanning
```

**Cause** The SCSI disk discovery failure is due to an issue in the block device allocation code.

**Solution** Update the kernel to 4.18.0-147.5.1.el8\_1.x86\_64 version or later.

Systems affected All Dell EMC PowerEdge servers

Applies to Red Hat Enterprise Linux 8.1

# System crashes when rebooted with SR-IOV-enabled QLogic cards

**Description** When the system is rebooted with SR-IOV-enabled QLogic cards, the system crashes and generates a

coredump (vmcore) in /var/crash.

**Cause** The system crash is due to an issue in the gede driver.

Workaround Disable SR-IOV before rebooting the system. To disable SR-IOV, run the following command:

echo0 > /sys/class/net/network inteface name/device/sriov numfs

Solution The issue is resolved in Red Hat Enterprise Linux 7.8 and later. For more information, see SUSE Linux

Enterprise Server Knowledge Base article 4991311.

Systems affected All Dell PowerEdge servers

**Applies to** Red Hat Enterprise Linux 8.0 and later

**Tracking number** 151479, 152995, 152997

## After system reboot, Disk data format (DDF) devices are not listed in /proc/mdstat

**Description** Disk data format (DDF)-based MD virtual disk (VD) devices are not listed in the /proc/mdstat file,

if there are more than one MD VD devices, after rebooting the system.

Cause Not available

Workaround After creating the MD VD devices and before rebooting the system, run the following command:

mdadm --detail --scan >> /etc/mdadm.conf

(i) NOTE: Verify the file before system reboot to confirm that the MD VD devices created earlier are

not altered.

For more information, see Red Hat Knowledge Base article 4990891.

Systems affected All Dell PowerEdge servers

**Applies to** Red Hat Enterprise Linux 8.0 and later

Tracking number 152384

# Updating NVMe firmware using the nvme-cli utility displays an error in dmesg

**Description** When updating the NVMe firmware using **nvme-cli**, the error message **Get FW SLOT INFO** 

**log error** is displayed. This issue occurs when the drive firmware receives a request to activate immediately without reset. This message is not observed when you update the firmware using a

Dell-provided firmware update package. There is no functionality loss.

Cause Not available

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.2

**Systems affected** Dell EMC PowerEdge yx4x and yx5x servers

**Applies to** Red Hat Enterprise Linux 8.1

Tracking number 158536

### Fatal error BDF 02:00.0 is detected with BCM574xx NICs

**Description** A fatal error on bus number 02, device number 00, and function number 0 (BDF 2:0.0) is observed in

the following configurations:

• When a graceful shutdown action is initiated.

• In Gnome settings, under the Suspend & Power Button section, the When the Power Button

is pressed option is set to Suspend.

**Cause** The NIC continues to perform DMA operations even after device goes into a D3hot state.

Workaround Set the When the Power Button is pressed option to Power Off or Nothing.

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.2

**Systems affected** All Dell EMC PowerEdge servers that support BCM574xx series NICs.

**Applies to** Red Hat Enterprise Linux 8.1

Tracking number 158506

### NVMe devices are not detected after hot-plugging

**Description** When an NVMe drive is hot-plugged, it is not detected at the PCle and NVMe level. Running the **dmesg** command, displays the following message along with a call trace of the dead lock:

nvme nvme1: I/O 11 QID 0 timeout, completion polled

Later, the following message is displayed:

INFO: task irq/32-pciehp:588 blocked for more than 120 seconds

This issue is observed only when the NVMe device is hot plugged after booting the operating system.

The NVMe drives that are plugged in before booting the operating system are detected.

Cause Not available
Workaround Not available

**Solution** The issue is resolved in Red Hat Enterprise Linux 8.2

**Systems affected** PowerEdge R740xd, PowerEdge R7515, and PowerEdge R7425

**Applies to** Red Hat Enterprise Linux 8.0

Tracking number 130372

### Linux operating system fails to detect the Intel x710 card

**Description** The i40e in-box driver is not enabled to detect an Intel x710 NIC. NIC details can be identified by

running the command Ispci.

The output of the command is as follows:

Ethernet controller: Intel Corporation Ethernet Controller x710 for

Vendor ID: 8086 Device ID: 15FF

Cause The i40e in-box driver is not enabled to detect an Intel x710 NIC.

Workaround Install the out-of-box drivers.

Solution The issue is resolved in SUSE Linux Enterprise Server 15 SP2, SUSE Linux Enterprise Server 15 SP1

Maintenance Update kernel-default-4.12.14-197.29.1 version and later.

Dell PowerEdge R6515, Dell PowerEdge R6525, Dell PowerEdge R7515, Dell PowerEdge C6525, and Systems affected

Dell PowerEdge R7525.

Applies to Red Hat Enterprise Linux 8.1

Tracking number 146136, 146448, 146451, 152855

### **Dmidecode displays OUT OF SPEC in Slot Type and** Slot Length of SMBIOS system slots

Description The execution of dmidecode command displays an OUT OF SPEC message in the Slot Type and

**Slot Length** fields of the SMBIOS system slots (Type 9) structure.

Cause The dmidecode tool does not recognize the 0x5h and 0x6h values in the **Slot Length** field and 0x20h

value in the **Slot Type** field in SMBIOS specification version 3.0.0.

Workaround Not available

Solution The issue is resolved in Red Hat Enterprise Linux 8.2

Systems affected Dell PowerEdge R6515, Dell PowerEdge R7515, Dell PowerEdge R6525, and Dell PowerEdge R7525

Applies to Red Hat Enterprise Linux 8.0 kernel-4.18.0-80.7.1.el8 or later

Tracking number 150263, 157470, 157474

### Custom partitioning fails with FC LUN

Description While installing the Linux operating system on FC LUN, if Custom Partitioning is selected, partition

creation fails in:

/home under automatic option

/ and /home under manual standard partition

This issue is not observed if Automatic Partition is selected in the installation wizard.

Cause Not available Workaround Not available

Solution The issue is resolved in Red Hat Enterprise Linux 8.2

Systems affected All Dell PowerEdge servers Applies to Red Hat Enterprise Linux 8

# When booting the system from iSCSI with Mellanox CX-4 and CX-5 adapters, the system reports csum failure message

**Description** When booting the system from iSCSI with Mellanox CX-4 and CX-5 adapters, the following message is

displayed in the dmesg and /var/log/messages reports:

localhost kernel: ibft0: hw csum failure

This message can be ignored.

Cause Some networking switches which are sending frames with nonzero padding bytes maybe causing the

issue

Workaround Install out-of-box drivers.

**Solution** The issue is resolved in SUSE Linux Enterprise Server 15 SP2.

Systems affected All Dell PowerEdge systems

Applies to Red Hat Enterprise Linux 8

Tracking number 156922

### Red Hat Enterprise Linux 8 kernel panic is observed due to fatal hardware error

#### Description

On Dell EMC PowerEdge servers with Operating System Red Hat Enterprise Linux 8, kernel panic is observed when system is booting, shut down, or rebooting. When the kernel panic occurs, the following message is displayed:

```
[ 1.410443] {1}[Hardware Error]: Hardware error from APEI Generic
Hardware Error Source: 3
[ 1.419667] {1}[Hardware Error]: event severity: fatal
[ 1.425399] {1}[Hardware Error]: Error 0, type: fatal
[ 1.431130] {1}[Hardware Error]: section_type: PCIe error
[ 1.437347] {1}[Hardware Error]: port_type: 4, root port
[ 1.443465] {1}[Hardware Error]: version: 1.16
[ 1.448617] {1}[Hardware Error]: command: 0x0143, status: 0x4010
[ 1.455514] {1}[Hardware Error]: device_id: 0000:80:02.0
[ 1.461633] {1}[Hardware Error]: slot: 4
[ 1.466201] {1}[Hardware Error]: secondary_bus: 0x82
[ 1.471932] {1}[Hardware Error]: vendor_id: 0x8086, device_id:
0x6f04
[ 1.479312] {1}[Hardware Error]: class_code: 000406
[ 1.484948] {1}[Hardware Error]: bridge: secondary_status: 0x2000, control: 0x0003
[ 1.493588] Kernel panic - not syncing: Fatal hardware error!
```

#### Solution

Update the system BIOS.

- For yx3x servers, update BIOS to 2.10.5 version.
- For yx4x servers, update BIOS to 2.2.11 version.

Download the latest BIOS version from Drivers Support.

#### Systems affected

All Dell EMC PowerEdge systems supported by Red Hat Enterprise Linux 8. For more information, see Red Hat Enterprise Linux Certification Matrix for Dell EMC PowerEdge Servers.

**Applies to** Red Hat Enterprise Linux 8

### **Known issues**

#### Topics:

- Broadcom NIC port naming is incorrect in RHEL 8.9
- Unable to add gid with error=-14 in dmesg
- snmpd output the message "systemstats\_linux: unexpected header length in /proc/net/snmp. 237 != 224"
- Unable to switch to portrait mode with Matrox G200eW3 controller
- The dmesg displays qat related messages
- Booting into operating system fails on systems with TPM 1.2 chips
- FCoE session is not reestablished after MX9116N switch is rebooted
- Dmesq displays error messages when NVMe device is surprise removed
- Status of the RAID 0 logical volume is displayed as Available when one of the members of the RAID array is surprise removed
- /proc/mdstat and mdadm -D commands display incorrect statuses when two NVMe devices are surprise removed from a RAID 5 MD array
- Dell Controlled Turbo feature is not functional
- Caps Lock key-press is not registered on the Dell PowerEdge iDRAC virtual console
- Advanced Configuration and Power Interface (ACPI) error messages displayed in dmesg
- · Drivers available in OEMDRV drive are not installed during the operating system installation
- The Mellanox IB devices are listed under an incorrect device category on Red Hat Enterprise Linux 8
- · The Ispci utility is unable to read Vital Product Data (VPD) from QLogic QLE2692 adapter
- Driver dependency mismatch errors reported while installing out-of-box drivers on Red Hat Enterprise Linux 8.x
- Dmesg displays TPM and nvdimm related-messages in Red Hat Enterprise Linux 8.1
- Link Up message is observed when the NVMe device slot is powered off and the device is unplugged
- Mellanox InfiniBand adapters are listed in Bluetooth
- iscsiadm output displays STATIC in the iface bootproto field when the network interface is configured to DHCP
- When system reboots, system stops responding at the end of the reboot process
- Unable to shut down RHEL 8 when you select Graceful shutdown option or when you press power button on the server
- iSCSI LUN not discovered during RHEL 8 installation
- RHEL 8 installation fails on systems with Emulex OneConnect card
- Switching between runlevels fails

### Broadcom NIC port naming is incorrect in RHEL 8.9

#### Description

On a Dell PowerEdge system that is configured with Broadcom Inc. subsidiaries BCM57414 and RHEL 8.9, the NIC port naming is showing different values for port1 and port2 as below from the ifconfig output:

```
enp156s0: flags=4099<UP, BROADCAST, MULTICAST> mtu 1500 ether 40:a6:07:99:2a:04 txqueuelen 1000 (Ethernet)

ens1: flags=4099<UP, BROADCAST, MULTIMAST> mtu 1500 ether 40:a6:67:99:2a:00 txqueuelen 1000 (Ethernet)
```

#### Workaround

Specify naming scheme as kernel command line parameter according to user requirements to ensure compatibility with scripts and configurations that rely on a specific naming convention. For example, add "net.naming-scheme=v243" kernel command line parameter.

Systems affected

All Dell PowerEdge systems

Applies to

Red Hat Enterprise Linux 8.9 and later.

Tracking number

291224

### Unable to add gid with error=-14 in dmesg

**Description** On a Dell PowerEdge system configured with Broadcom BCM57508 2x100G QSFP PCIE and

RHEL 8.10. Multiple error messages are observed as below when trying to create bonding using BroadcomBCM57508 NIC interfaces. This message does not affect the bonding functionality.

"\_\_ib\_cache\_gid\_add: unable to add gid fe80:0000:0000:0000:5e6f:69ff:fef5:af90 error=-14"

Workaround N/A

Systems affected All Dell PowerEdge systems. The issue is not observed in RHEL 9.4.

**Applies to** Red Hat Enterprise Linux 8.10

Tracking number 304789

# snmpd output the message "systemstats\_linux: unexpected header length in /proc/net/snmp. 237 != 224"

**Description** On a Dell PowerEdge system installed with RHEL 8.10 and OMSA, when snmp walk is executed the

following message is displayed. The Add Linux 6.7 compatibility parsing /proc/net/snmp upstream

patch fixes the issue.

systemstats\_linux: unexpected header length in /proc/net/snmp. 237 !
= 224

**Cause** A change was introduced in the kernel that added the OutTransmits field to lp in /proc/net/snmp.

This broke the net-snmp.

Workaround Not available

Systems affected All Dell PowerEdge systems

Applies to Red Hat Enterprise Linux 8.10

Tracking number 305474

## Unable to switch to portrait mode with Matrox G200eW3 controller

**Description** On a Dell PowerEdge system installed with RHEL 8.8 or later, the I/O (mouse and keyboard) does

not respond and the operating system is unavailable when trying to change display settings from landscape to other. The orientation of the screen changes, yet the operating system remains stuck. The mouse and keyboard do not respond, making it impossible to select the "keep changes" option.

Therefore, after 20 s, the screen orientation resets to the default landscape mode.

Cause Wayland is disabled by default for Matrox chipsets on RHEL 8 and the X11 backend has a issue and

fails to work in portrait mode with Matrox chipsets.

Workaround Configure GDM to use the Wayland graphics backend. For more information, see Red Hat Enterprise

Linux Knowledge Base article 6231831.

Systems affected All Dell Power Edge Systems

**Applies to** Red Hat Enterprise Linux 8.8 and later.

### The dmesg displays qat related messages

**Description** On a PowerEdge system installed with the RHEL 8.6 operating system, the Failed to load

MMP firmware Qat $_{4xxx_mmp.bin}$  message is observed in dmesg. The message indicates that the firmware files required for Intel qat to function are not installed in the system under /lib/

firmware/. To avoid the error messages, gat needs to be configured correctly.

Systems affected All Dell PowerEdge systems

**Applies to** Red Hat Enterprise Linux 8.6

Tracking number 275032

# Booting into operating system fails on systems with TPM 1.2 chips

**Description** On systems with TPM 1.2 chips, booting into operating system fails when **TPM Security** field is set to

On without Pre-boot Measurements in BIOS.

Cause When the option On without Pre-boot Measurements is set in BIOS, the shim utility cannot write

to TPM PCR registers. Shim considers this as a fatal error and fails to boot.

Workaround In BIOS, set TPM Security field to On with Pre-boot Measurements.

Systems affected All Dell PowerEdge systems supporting TPM 1.2

**Applies to** RedHat Enterprise Linux 8 and later.

**Tracking number** 209250, 209177

### FCoE session is not reestablished after MX9116N switch is rebooted

**Description** On Dell EMC PowerEdge MX740C system containing Qlogic QL41000 series CNA device configured

for FCoE, FCoE session is not restored automatically when the MX9116N switch is rebooted.

Cause Issue in gedf driver related to handling the switch reboot scenario.

**Workaround** To reestablish FCoE session execute the command:

rescan-scsi-bus.sh -i --hosts=<host number>

The <host number> refers to the host number associated with the lost FCoE session and this can be

identified from dmesg.

Systems affected All Dell EMC systems supporting Qlogic QL41000 series CNA devices.

**Applies to** Red Hat Enterprise Linux 8.2

### Dmesg displays error messages when NVMe device is surprise removed

Description Dmesg or /var/log/messages show the following error messages after an NVMe device is unbound

from the NVMe driver and surprise removed:

kernel: pcieport 0000:b0:06.0: Timeout waiting for Presence Detect kernel: pcieport 0000:b0:06.0: link training error: status 0x8001 kernel: pcieport 0000:b0:06.0: Failed to check link status

Solution The issue is a cosmetic issue and can be ignored.

Cause The error that is displayed is due to an issue with the pciehp driver. Dell EMC PowerEdge R740XD and Dell EMC PowerEdge R7525. Systems affected

Red Hat Enterprise Linux 8.2 and later Applies to

180987 Tracking number

### Status of the RAID 0 logical volume is displayed as Available when one of the members of the RAID array is surprise removed

Description When Logical Volume Manager (LVM) is used to create a RAID 0 array and a member of the RAID

array is surprise removed, the Ivdisplay command shows the logical volume (LV) status as 'Available'.

Solution Use the command Ivs -o +Iv\_health\_status to check the status of the RAID array. The command

displays the output Partial when a member of the RAID array is removed.

Systems affected All Dell EMC PowerEdge systems supporting NVMe Surprise Removal.

Applies to Red Hat Enterprise Linux 8.2 and later

Tracking number 175865

### /proc/mdstat and mdadm -D commands display incorrect statuses when two NVMe devices are surprise removed from a RAID 5 MD array

Description When two of three NVMe devices are surprise removed from a RAID 5 MD array, the command

> cat/ proc/mdstat displays the array status incorrectly as active. Similarly, when the status of the MD RAID is queried using the mdadm -D /dev/mdN command, the number of active and working devices that are displayed is two. Only the status of the array reported is incorrect. However, when

I/O operations are performed, I/O errors are observed as expected.

Cause When the number of devices that are surprise removed exceeds the number of devices that are

required for the array to function, the MD status is not updated.

Systems affected All Dell EMC PowerEdge systems supporting NVMe Surprise Removal.

Applies to Red Hat Enterprise Linux 8.2 and later

### **Dell Controlled Turbo feature is not functional**

**Description** Dell Controlled Turbo is not functional when the system profile setting in BIOS is set to performance

or custom.

Cause The intel\_pstate driver may interfere with the processor settings which results in Dell Controlled

Turbo feature being not functional.

**Solution** Prevent the intel\_pstate driver from loading. For more information on how to prevent the module from

loading, see Red Hat Enterprise Linux Knowledge Base article 41278.

**Applies to** Red Hat Enterprise Linux 8.0 and later

Tracking number 167802

# Caps Lock key-press is not registered on the Dell PowerEdge iDRAC virtual console

**Description** The Caps Lock key-press is not registered when the Dell PowerEdge iDRAC virtual console is used.

The console displays lowercase letters when the Caps Lock key is enabled.

Workaround Do the following:

1. Create the file /etc/udev/rules.d/99-kbd.rules and add the rule:

```
ACTION=="add", SUBSYSTEM=="leds", ENV{DEVPATH}=="*/
input*::capslock", ATTR{trigger}="kbd-ctrlllock"
```

- 2. Run the command: udevadm control --reload-rules
- **3.** Disconnect and reconnect the Dell PowerEdge iDRAC virtual console.

Systems affected All Dell E

All Dell EMC PowerEdge servers

**Applies to** Red Hat Enterprise Linux 8.0, Red

Red Hat Enterprise Linux 8.0, Red Hat Enterprise Linux 8.1, and Red Hat Enterprise Linux 8.2

Tracking number 176749

# Advanced Configuration and Power Interface (ACPI) error messages displayed in dmesg

#### Description

The following ACPI-related error messages are displayed in dmesg and /var/log/messages:

```
[ 10.265354] ACPI Error: No handler for Region [SYSI] (ffff8f04edb31a20) [IPMI] (20130517/evregion-162) [ 10.265359] ACPI Error: Region IPMI (ID=7) has no handler (20130517/exfldio-305) [ 10.265368] ACPI Error: Method parse/execution failed [\_SB_.PMIO._GHL] (Node ffff8f106dea07e0), AE_NOT_EXIST (20130517/psparse-536) [ 10.265376] ACPI Error: Method parse/execution failed [\_SB_.PMIO._PMC] (Node ffff8f106dea0720), AE_NOT_EXIST (20130517/psparse-536) [ 10.265381] ACPI Exception: AE_NOT_EXIST, Evaluating _PMC (20130517/power_meter-753)
```

The error messages are related to the module dependency and module load order of the acpi\_power\_meter and acpi\_ipmi drivers.

Solution

The messages are informational and can be ignored. For more information, see Red Hat Enterprise Linux Knowledge Base article 49225.

Applies to

Red Hat Enterprise Linux 8 and later

Tracking number 172165

# Drivers available in OEMDRV drive are not installed during the operating system installation

**Description** Intermittently, during the installation of Red Hat Enterprise Linux, the operating system cannot

enumerate the USB drive at the stage of driver disk probing. This prevents the drivers from LC/

OEMDRV from being installed.

Workaround Use the kernel boot parameter command inst.dd=LABEL=OEMDRV to install the drivers in the

OEMDRV drive.

Systems affected Dell EMC PowerEdge servers

**Applies to** Red Hat Enterprise Linux 8 and later

Tracking number 168569

# The Mellanox IB devices are listed under an incorrect device category on Red Hat Enterprise Linux 8

**Description** The Mellanox IB devices are listed under the **Bluetooth** section of the **Network settings** tab in Red

Hat Enterprise Linux 8 and Red Hat Enterprise Linux 8.1 operating systems. This is a cosmetic issue

and can be ignored.

Workaround Use the nmcli tool or the nm-connection-editor to display available devices.

**Systems affected** Dell EMC PowerEdge yx4x and yx5x servers

**Applies to** Red Hat Enterprise Linux 8 and later

Tracking number 123915

# The Ispci utility is unable to read Vital Product Data (VPD) from QLogic QLE2692 adapter

**Description**The Ispci utility is unable to read Vital Product Data (VPD) from QLogic QLE2692 card and displays the following error message:

# lspci -vvv -s <PCI bus/device/func>
[...]
Capabilities: [88] Vital Product Data

pcilib: sysfs\_read\_vpd: read failed: Input/output error

Not readable

This issue is a cosmetic issue and can be ignored.

Systems affected Dell EMC PowerEdge yx4x and yx5x servers

**Applies to** Red Hat Enterprise Linux 8 and later

# Driver dependency mismatch errors reported while installing out-of-box drivers on Red Hat Enterprise Linux 8.x

**Description** Driver dependency mismatch errors are reported when inst.dd installation methods (flash drive,

driver package, HTTP, NFS, FTP) are used to install the out-of-box (OOB) drivers during operating system installation. The dependency errors are not observed after the initial installation as the operating system will use the out-of-box (OOB) drivers. The issue is industry wide and is not specific

to Dell EMC PowerEdge servers.

**Workaround** Block the installation of the inbox versions of the OOB drivers.

**Systems affected** Dell EMC PowerEdge yx4x and yx5x servers

**Applies to** Red Hat Enterprise Linux 8 and later

Tracking number 176624

# Dmesg displays TPM and nvdimm related-messages in Red Hat Enterprise Linux 8.1

**Description** When Red Hat Enterprise Linux Version 8.1 is booted with the TPM 2.0 chip enabled, dmesg displays

the following messages in var/log/message:

No TPM handle discovered. failed to open file /etc/ndctl/keys/nvdimm-master.blob: No such file

or directory

There is no impact to the functionality of the TPM chip if it is enabled in the system BIOS. This is a

cosmetic error and can be ignored.

**Systems affected** Dell EMC PowerEdge yx4x and yx5x servers

**Applies to** Red Hat Enterprise Linux 8.1 and later

Tracking number 164988

# Link Up message is observed when the NVMe device slot is powered off and the device is unplugged

**Description**The message **Link Up** is observed in the dmesg log when the NVMe device slot is powered off and the device is unplused by rupping the following sampled.

the device is unplugged by running the following command:

echo 0 > /sys/bus/pci/slots/<slot number>/power

The expected message is Link Down because the device is unplugged.

**Cause** This is due to an issue with the pciehp driver.

Workaround This issue is a cosmetic issue and can be ignored. The NVMe device is recognized when plugged into

the slot.

Systems affected Dell EMC PowerEdge R740xd and Dell EMC PowerEdge R7425

**Applies to** Red Hat Enterprise Linux 8.0 and later

### Mellanox InfiniBand adapters are listed in Bluetooth

**Description** Mellanox InfiniBand adapters are listed in Gnome, under the **Network** > **Settings** > **Bluetooth** 

section.

Cause Not available

Workaround Not available. This issue is a cosmetic issue. Use other tools like nmcli, and nm-connection-editor to

view and configure the InfiniBand interfaces.

Systems affected All Dell EMC PowerEdge servers

**Applies to** Red Hat Enterprise Linux 8.0 and later

Tracking number 133715

# iscsiadm output displays STATIC in the iface.bootproto field when the network interface is configured to DHCP

**Description** When the system is booting from iSCSI with the Emulex OneConnect device that is configured with

DHCP IP, the iface.bootproto field is listed as STATIC in the command iscsiadm -m fw output.

There is no functionality loss.

Cause Not available
Workaround Not available

Systems affected Dell PowerEdge yx3x servers that support Emulex OneConnect

**Applies to** Red Hat Enterprise Linux 8.1 and later

Tracking number 147877

# When system reboots, system stops responding at the end of the reboot process

**Description** When the system reboots, system stops responding at the end of the reboot process. When the

system is in this state, it does not respond to keyboard or mouse device and iDRAC virtual console

displays the No signal message.

Workaround To recover the system, perform any one of the following:

• Using iDRAC GUI, on the **Dashboard** page, click **Graceful Shutdown** drop-down, and then select

Reset System(warm reboot).

• Restart the system by pressing the Power button.

**Solution** Update system BIOS to 1.4.8 version.

Systems affected Dell PowerEdge R6515, Dell PowerEdge R6525, Dell PowerEdge R7515, and Dell PowerEdge C6525.

**Applies to** Red Hat Enterprise Linux 8

### Unable to shut down RHEL 8 when you select Graceful shutdown option or when you press power button on the server

#### Description

When you select the Graceful shutdown option from any system management interface such as iDRAC or press the power button, the system goes to suspended state and stops all the tasks. So, firmware updates through iDRAC interface that require restart take longer, and the system is hard reset upon iDRAC watchdog time expiration.

#### Workaround

Change the power settings by performing the following steps:

- 1. In the **Settings** pane, click **Power**.
- 2. In the Suspend & Power Button section, from the When the Power Button is pressed list, select Power Off.
  - (i) NOTE: By default, Suspend option is selected.
  - NOTE: The preceding workaround may not work when the system is locked. GNOME prevents the accidental shutdown when system is locked. As a security precaution, GNOME does not allow any power related actions such as:
    - Shutdown from any system management interfaces like iDRAC
    - Pressing the power button unless the user is active and logged in to the operating system.

Systems affected

N/A

Applies to Red Hat Enterprise Linux 8.0

137495 Tracking number

### iSCSI LUN not discovered during RHEL 8 installation

Description When Red Hat Enterprise Linux 8 is installed on an iSCSI LUN, the LUN is not discovered

automatically.

Cause If the Network interface displays the status as UP but displays NO-CARRIER, it indicates that

dracut has reduced the wait time to run the network interface from 7 seconds to 5 seconds. This reduction in time causes dracut to assume that the network interface is not connected, which results

in the LUN not being discovered.

Workaround During the iSCSI installations, in addition to the boot parameter rd.iscsi.ibft=1, add the following boot parameter: rd.net.timeout.carrier=7

After the iSCSI installation, during boot, add the following boot parameter:

rd.net.timeout.carrier=7

Systems affected All Dell EMC PowerEdge servers

Applies to Red Hat Enterprise Linux 8.0

Tracking number 124792

### RHEL 8 installation fails on systems with Emulex OneConnect card

#### Description

When RHEL 8 is installed on an iSCSI LUN that is configured on Emulex OneConnect card on Dell EMC 13G systems, the installation fails with a UnicodeDecodeError. This error occurs because the Anaconda installer is unable to decode the iSCSI initiator name.

**Workaround** There is no workaround available for this issue, but the LUN can be used as DATA LUN.

Systems affected All Dell EMC 13G systems

Applies to Red Hat Enterprise Linux 8.0

Tracking number 111760

### Switching between runlevels fails

**Description** Switching from runlevel 5 to 3 fails.

**Workaround** Switch to different TTYs (Ctrl+Alt+F2/F3) to continue using the system.

Systems affected All Dell EMC PowerEdge servers

Applies to Red Hat Enterprise Linux 8.0

### Limitations

- Unattended operating system installation of Red Hat Enterprise Linux 8.0 and later updates using iDRAC Server Configuration Profile (SCP) method is not supported up to RHEL 8.8.
- The auth and authconfig kickstart commands require the AppStream repository.
- The --interactive option of the ignoredisk kickstart command does not work in RHEL 8.
- RHEL 8 system becomes unresponsive when many devices are connected.
- Physical memory hot plugging does not work.
- Database servers are not installable in parallel.

For more information about the limitations of RHEL 8, see Red Hat Enterprise Linux Documentation.

### **Resources and support**

This section provides information about the documentation resources for your server.

Table 2. Additional documentation resources for your server

Task	Document	Location
Setting up your server	For information about installing the server into a rack, see the Rack documentation included with your rack solution or the Getting Started Guide that is shipped with your server.	PowerEdge Manuals
	For information about turning on the server and the technical specifications of your server, see the <i>Getting Started Guide</i> that is shipped with your server.	PowerEdge Manuals
Configuring your server	For information about the iDRAC features, configuring and logging in to iDRAC, and managing your server remotely, see the Integrated Dell Remote Access Configuration Tool User's Guide	iDRAC Manuals
	For information about installing the operating system, see operating system documentation.	Operating System Manuals
	For information about understanding Remote Access Controller Admin (RACADM) subcommands and supported RACADM interfaces, see the RACADM Command Line Reference Guide for iDRAC.	iDRAC Manuals
	For information about updating drivers and firmware, see Download drivers and firmware topic in this document.	Drivers
Managing your server	For information about server management software offered by Dell, see the Dell Systems Management Overview Guide.	OpenManage Manuals
	For information about setting up, using, and troubleshooting OpenManage, see the Dell OpenManage Server Administrator User's Guide.	OpenManage Manuals
	For information about installing, using, and troubleshooting Dell OpenManage Essentials, see the Dell OpenManage Manuals >	OpenManage Manuals

Table 2. Additional documentation resources for your server (continued)

Task	Document	Location
	OpenManage Essentials <i>User's</i> Guide.	
	For information about installing and using Dell SupportAssist, see the Dell SupportAssist Enterprise User's Guide.	Software Serviceability Tools
	For understanding the features of Dell Lifecycle Controller (LC), see the Dell Lifecycle Controller User's Guide.	iDRAC Manuals
	For information about partner programs enterprise systems management, see the OpenManage Connections Enterprise Systems Management documents.	ESM Manuals
	For information about viewing inventory, performing configuration, and monitoring tasks, remotely turning on or off servers, and enabling alerts for events on servers and components using the Dell Chassis Management Controller (CMC), see the Chassis Management Controller User's Guide.	ESM Manuals
Working with the Dell PowerEdge RAID controllers	For information about understanding the features of the Dell PowerEdge RAID controllers (PERC) and deploying the PERC cards, see the Storage controller documentation.	Storage Controller Manuals
Understanding event and error messages	For information about checking the event and error messages generated by the system firmware and agents that monitor server components, see the Dell Event and Error Message Reference Guide for 14th Generation Dell PowerEdge Servers.	OpenManage Manuals
Troubleshooting your system	For information about identifying and troubleshooting the PowerEdge server issues, see the PowerEdge Servers Troubleshooting Guide.	PowerEdge Manuals

#### Topics:

• Download drivers and firmware

### **Download drivers and firmware**

It is recommended that you download and install the latest BIOS, drivers, and systems management firmware on your system.

Ensure that you clear the web browser cache before downloading the drivers and firmware.

- 1. Go to Drivers.
- 2. In the **Drivers & Downloads** section, enter the Service Tag of your system in the **Enter a Dell Service Tag, Dell Product ID, or Model** text box, and then click the right arrow button.
  - NOTE: If you do not have the Service Tag, click **Detect PC** to allow the system to automatically detect your Service Tag.
- 3. Click Drivers & Downloads.
  - A list of applicable downloads is displayed.
- 4. Download the drivers or firmware to a USB drive, CD, or DVD.

### **Contacting Dell EMC**

Dell provides several online and telephone-based support and service options. Availability varies by country, region, and product, and some services may not be available in your area.

To contact Dell for sales, technical assistance, or customer service issues, see Contact Dell.

If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or the product catalog.