

Solution for Validating your engagement

Topic

VxRail Restricted Procedures

Selections

Select the VxRail Appliance Model: VxRail E660/E660F/E660N

Select a procedure: Rapid Appliance Self Recovery (RASR) Factory Image Upgrade Procedure

(Remote Capable - Dell platforms only)

Select the Version you wish to upgrade the RASR Image to: v7.0.482

Do you want to include the RASR Reset Procedure?: Yes

Generated: February 29, 2024 5:00 PM GMT

REPORT PROBLEMS

If you find any errors in this procedure or have comments regarding this application, send email to SolVeFeedback@dell.com

Copyright © 2023 Dell Inc. or its subsidiaries. All Rights Reserved. Dell Technologies, Dell, EMC, Dell EMC and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners.

The information in this publication is provided "as is." Dell Inc. makes no representations or warranties of any kind with respect to the information in this publication, and specifically disclaims implied warranties of merchantability or fitness for a particular purpose.

Use, copying, and distribution of any software described in this publication requires an applicable software license.

This document may contain certain words that are not consistent with Dell's current language guidelines. Dell plans to update the document over subsequent future releases to revise these words accordingly.

This document may contain language from third party content that is not under Dell's control and is not consistent with Dell's current guidelines for Dell's own content. When such third party content is updated by the relevant third parties, this document will be revised accordingly.

Publication Date: February, 2024

Contents

Preliminary A	3	
Read, understa	nd, and perform these tasks	3
VxRail v7.0.4	05 or later RASR Factory Image Upgrade from ISO	4
Summary:		4
Supported Mod	els	4
System requirer	ments	4
Task 1:	RASR Reset using RASR ISO	5
Appendix A:	Gathering RASR Update Utility Logs	12
Appendix B:	Change iDRAC username and password	13
Appendix C: Clear all jobs in iDRAC		

Preliminary Activity Tasks

This section may contain tasks that you must complete before performing this procedure.

Read, understand, and perform these tasks

1. Table 1 lists tasks, cautions, warnings, notes, and/or knowledgebase (KB) solutions that you need to be aware of before performing this activity. Read, understand, and when necessary perform any tasks contained in this table and any tasks contained in any associated knowledgebase solution.

Table 1 List of cautions, warnings, notes, and/or KB solutions related to this activity

530869: VxRail: Intel Youngsville SSD may stop prepossessing when FW less than DL63

<u>528536</u>: VxRail: vSAN license and deployment guidance; caution do not use 4.7.X (and above) RASR package for purchases at 4.5.X and below

504087: VxRail: How to find the version on RASR image

<u>525386</u>: VxRail: iDRAC doesn't get updated when performing RASR with devices connected to other USB ports on the node

- VxRail 7.0.320 and later releases contain resolutions for two of the VMware vSAN issues detailed in VMware Proactive Customer Advisory issued in June 2022: KB 88870 https://kb.vmware.com/s/article/88870. One issue is not yet resolved by VMware and requires the workaround described in KB 88870. The Dell VxRail: VxRail Response to VMware Proactive Customer Advisory for June 2022 contains more information https://www.dell.com/support/kbdoc/EN-US/000201082.
- 2. This is a link to the top trending service topics. These topics may or not be related to this activity. This is merely a proactive attempt to make you aware of any KB articles that may be associated with this product.

Note: There may not be any top trending service topics for this product at any given time.

VxRail Appliance Top Service Topics

VxRail v7.0.405 or later RASR Factory Image Upgrade from ISO

Note: Screenshots in this document might defer depending on the RASR.

Summary:

This procedure describes the steps to upgrade the RASR image on VxRail Dell appliance (node) to the VxRail v7.0.405 or later release versions. This procedure requires the node to be power-cycled. If this RASR image upgrade is run on a currently running cluster, the cluster might be impacted. This procedure contains the following steps:

- 1. Upgrade the RASR image on the node using ISO.
- 2. Start the RASR Re-Image process.

Note: This procedure does NOT update drive firmware. Drive firmware can only be updated manually or using LCM. Update the drive firmware according to the recommend firmware documented in the VxRail 7.x Support Matrix.

Note: Using this procedure to downgrade nodes is NOT supported.

Note: DISCONNECT the external data storage before performing the RASR procedure, or the data in the external storage might be lost after RASR.

Note: Log in to iDRAC with the default username *root* and password *calvin*. See Appendix B to change iDRAC account if it is not default account.

Note: Clear all jobs in iDRAC before executing Factory Reset with installing DUPs. See Appendix C to clear all jobs in iDRAC

Supported Models

This procedure supports the following VxRail models:

13G Models	14G Models	15G Models	16G Models
E460, E460F	D560, D560F	E660, E660F, E660N	VE-660
P470, P470F		E665, E665F, E665N	VP-760
S470		P670F, P670N	
V470, V470F		P675F, P675N	
		S670	
		V670F	
		VD-4510c, VD-4520c	

System requirements

- VxRail RASR ISO upgrade image for version 7.0.360 or later (available for download from https://www.dell.com/support/home/en-us/product-support/).
- Access to iDRAC

Task 1: RASR Reset using RASR ISO

- 1. [] From the iDRAC UI, click Configuration > Virtual Media > Remote File Share 1.
- 2. [] Enter the Image File Path, User Name, and Password.
- 3. [] Click Connect.

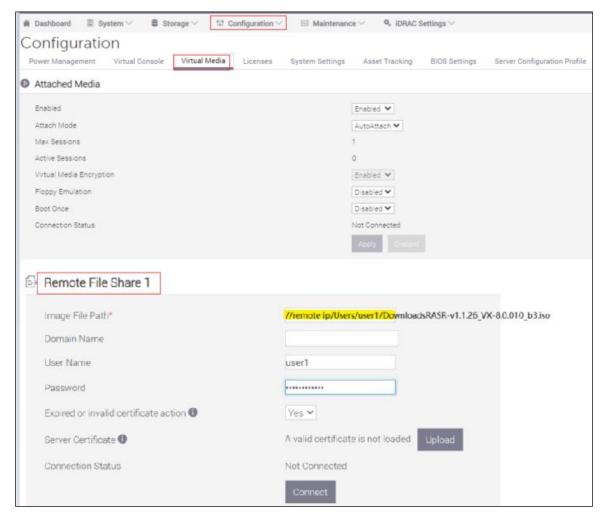


Figure 1 Launch virtual console.

4. [] Click **Next Boot** to confirm that **Virtual CD/DVD/ISO** has been selected.

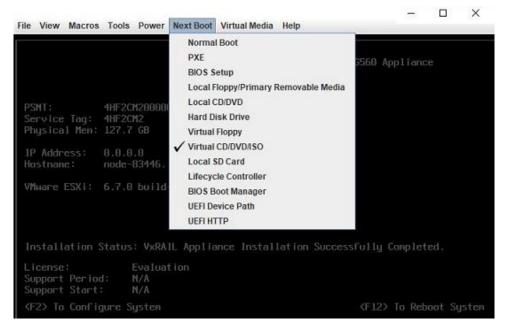


Figure 2 Next Boot.

5. [] Click Power and select Reset System (warm boot).

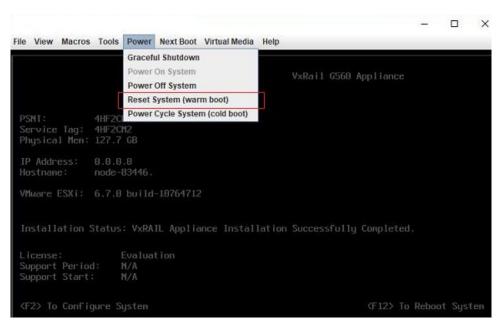


Figure 3 Reset System.

6. [] Click Yes to continue and reboot the system to the RASR Update Utility menu.

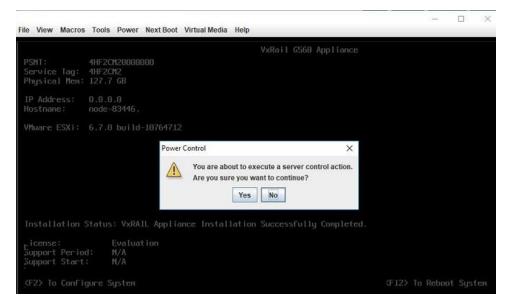


Figure 4 System Reboot.

```
Welcome to UxRail RASRISO v1.2.0

[Flactory Reset
[Clreate RASRUSB
[Qluit

Please select:
```

Figure 5RASR Update Utility.

7. [] Type ${f F}$ to select Factory Reset, and then type ${f Y}$ to continue.

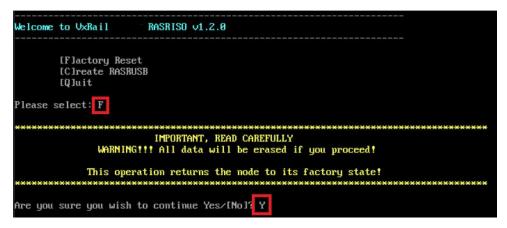


Figure 6 Factory Reset.

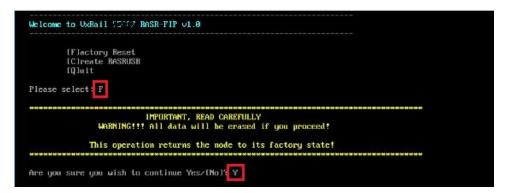


Figure 7 Factory reset.

8. [] Ensure that all external storage devices are disconnected correctly to prevent the potential risks of data corruption. If yes, type **Disconnected** to continue. Press any key to exit Factory Reset.

Note: See KB 000021277 for more details about how to disconnect external storage devices.



Figure 8Confirm that external storage devices are disconnected.

9. Type **Y** if you want to automatically update the DUPs or **N** to skip upgrading the DUPs.

If Y was selected, RASR will create a partition and copy the DUPs and stage the system for Factory Reset. If there are multiple DUPs a restart is required. RASR will perform the restart, boot back up, and continue installing. Once all the DUPs are processed, RASR will erase the boot entry and all its contents, boot to the OS partition and continue on with the Factory Reset process.

If N was selected, only factory install will be performed. (Skip to Step 13)

Note: Entering Y will perform a rolling DUP upgrade and all upgradable DUPs will be installed.

Figure 9 Install DUPS

10. [] Factory Reset completes and displays the message: Factory install Prototype (FIP) successfully completed. Press Enter to continue and return to the RASR Update Utility menu.

```
SAS-Non-RAID_Firmware_YAM1_LN_16.17.00.05_A07_01.BIN'
IFIPCOpyBeleaseFiles1 '/mnt/FipyZeyTdp/SAS-RAID_Firmware_MTW6_LN64_2.5.13.3022_A06.BIN'
to '/mnt/FipyTmp/RASRA(ups/14g/SAS-RAID_Firmware_MTW6_LN64_2.5.13.3022_A06.BIN'
IFIPCOpyBeleaseFiles1 '/mnt/RASRA(ups/14g/ZzziDRAC-w-LC_Fw_KTC95_LN_4.10.10.10.BIN'
IFIPCOpyBeleaseFiles1 '/mnt/RASRA(ups/14g/ZzziDRAC-w-LC_Fw_KTC95_LN_4.10.10.10.BIN'
Processing Section ITEMP_DISK1

IFIPRakeTempDisk1 Creating Temp Disk: 'TEMP_DISK1'...
IFIPCreateTempDisk1 Located disk model: 'DELLDOSS UP' on Disk: sda
Each FIN will be 79339
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP1' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP2' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP2' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP2' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP3' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP3' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP4' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP4' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP5' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP5' on Disk '/dew/sda'
IFIPCreateTempDisk1 Creating FAT16 Temp partition 'ESXTMP5' on Disk '/dew/sda'
IFIPCreateTempDisk1 Copying 'gmysd_esxtmp.tar.80
IFIPCreateTempDisk1 Cop
```

Figure 10 Factory Install Prototype successfully completed.

11. [] Disconnect virtual media by selecting Virtual Media and then Disconnect Virtual Media.

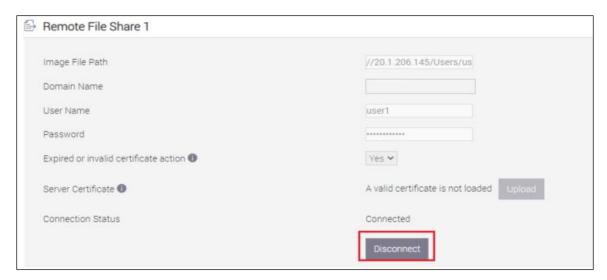


Figure 11Disconnect virtual media.

12. [] Enter **Q** to quit and **Yes** to reboot the system.

Note: Refer to Appendix C for instructions on clearing all jobs in iDRAC before upgrading firmware.



Figure 12Confirm reboot.

13. [] RASR will perform a rolling DUP upgrade if DUPs were detected.

Figure 13 Rolling DUP upgrade process.

14. [] The node boots into the ESXi Installer. The factory reset is completed once the ESXi screen Installation Status reports VxRail Appliance Installation Successfully Completed. This automated reset process will take approximately one hour to complete with multiple reboots.

Note: If you are upgrading the RASR image for an entire cluster, repeat this procedure for each node in the cluster.



Figure 14 Installation completed successfully.

Appendix A: Gathering RASR Update Utility Logs

The logs are stored in a directory on the RASR device you have booted from except for RASR ISO.

When booted from the IDSDM or USB disk, the logs are stored at:

/mnt/RASR/systems/<service tag>/logs/

When booted from RASR ISO, the logs are stored at:

/tmp/systems/<service tag>/logs/

Note: Log files contain useful information about all invocations of RASR. If an error occurs while using RASR, collect all available logs which include the individual RASR.log files, for debugging by engineering.

Appendix B: Change iDRAC username and password

1. [] Open iDRAC web UI. Select iDRAC Settings > Users and click Local Users.

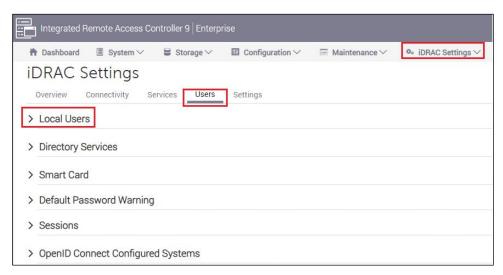


Figure 15 iDRAC settings.

2. [] Select ID 2, the iDRAC account, and click Edit.

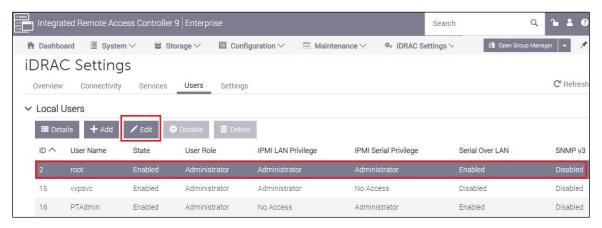


Figure 16 Edit iDRAC settings.

3. [] Modify the username and password. Set the iDRAC default username to root and the password to calvin.

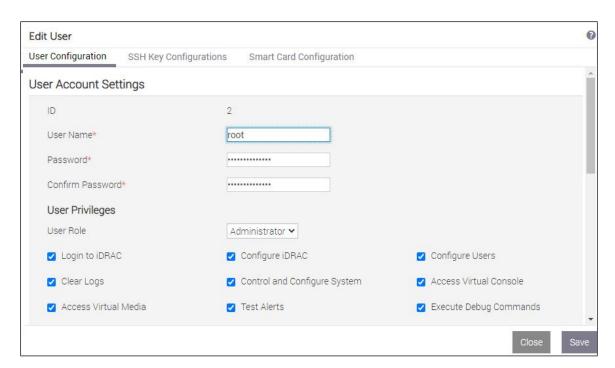


Figure 17 User account settings.

4. [] Click Save and OK.

Dell Technologies Confidential Information- for internal use only	version: 5.3.3.17

Appendix C: Clear all jobs in iDRAC

1. [] Open iDRAC web UI. Select Maintenance > Job Queue

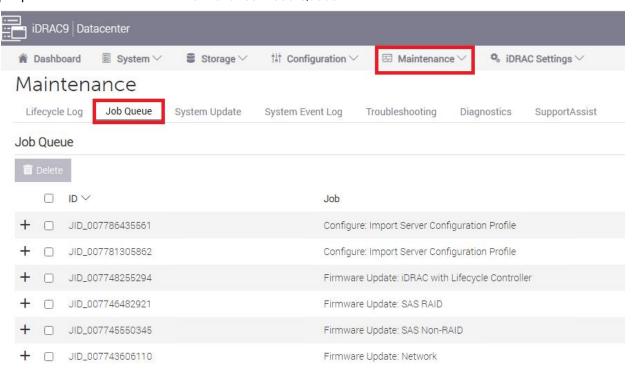


Figure 18 Maintenance

2. [] Select all jobs and click Delete.

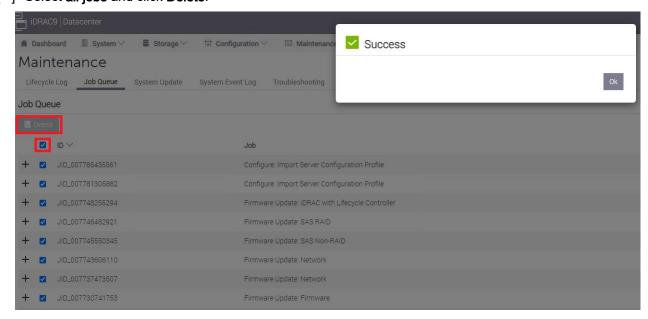


Figure 19 Clear Jobs

Dell Technologies Confidential Information- for internal use only	version: 5.3.3.17