

[SOLVED] Proxmox 7.1-4- migration aborted: no such logical volume pve/data

👤 mrE · 🕒 Nov 20, 2021 · 🗨 migration aborted no such logical volume pve/data

🏠 > Forums > Proxmox Virtual Environment > Proxmox VE: Installation and configuration



mrE

Renowned Member



Nov 20, 2021

🔗 #1

Greetings,

I broke my own rule and jump on the recent update and it hit me in the face:
I have a cluster with 3 Proxmox servers (pmx1 & pmx3; pmx2 used just for quorum)

The sequence used to upgrade was:

1. I upgrade pmx2 (the one just for quorum, it doesn't run any vm) and reboot
2. Migrate all vms from pmx1 -> pmx3, upgrade pmx1 and reboot
3. Migrate al from pmx3 -> pmx1, without any issue, then I upgrade pmx3 and reboot

(I have attached 2 files with the logs of pmx1, pmx3)

Now I have this in the cluster



I use a Synology NAS as network storage with NFS shared folders

Time	User	Client Name and IP*	Connection Type	Resource
11/19/2021 23:12:07	-	192.168.16.61	NFS	PVE_ContainerTemplate, PVE_ISOImage
11/19/2021 23:04:21	-	192.168.16.62	NFS	PVE_ContainerTemplate, PVE_ISOImage
11/19/2021 23:05:43	-	192.168.16.63	NFS	PVE_ContainerTemplate, PVE_ISOImage
11/19/2021 23:12:07	-	192.168.16.61	NFS	PVE_Container, PVE_DiskImage, PVE_ISOImage
11/19/2021 23:04:20	-	192.168.16.62	NFS	PVE_Container, PVE_DiskImage, PVE_ISOImage
11/19/2021 23:05:43	-	192.168.16.63	NFS	PVE_Container, PVE_DiskImage, PVE_ISOImage

This is the cluster storage

id	Type	Content	Path/Format	Storage	Quota	Avail
Container	NFS	Container	Backup/Container	Yes	No	
ContainerFS	NFS	Container	Backup/ContainerFS	Yes	Yes	
ContainerTemplate	NFS	Container template	Backup/ContainerTemplate	Yes	Yes	
ContainerTemplateFS	NFS	Container template	Backup/ContainerTemplateFS	Yes	Yes	
DiskImage	NFS	Disk image	Backup/DiskImage	Yes	Yes	
DiskImageFS	NFS	Disk image	Backup/DiskImageFS	Yes	Yes	
ISOImage	NFS	ISO image	Backup/ISOImage	Yes	Yes	
ISOImageFS	NFS	ISO image	Backup/ISOImageFS	Yes	Yes	
PRG	Proxmox Backup	v2 backup backup file		Yes	Yes	
V2ContainerBackup	NFS	v2 backup backup file	Backup/V2ContainerBackup	Yes	Yes	
local	Directory	v2 backup backup file, Disk image, ISO image, Container template	local/	No	Yes	
Snapshot	zfs	Disk image, Container		No	Yes	

Code:

```
Now I try to migrate some VMs/CTs from pmx1 -> pm3 and this error occurs any
2021-11-20 01:32:38 starting migration of CT 206 to node 'pmx1' (192.168.16.
2021-11-20 01:32:38 ERROR: no such logical volume pve/data at /usr/share/per
2021-11-20 01:32:38 aborting phase 1 - cleanup resources
2021-11-20 01:32:38 start final cleanup
2021-11-20 01:32:38 ERROR: migration aborted (duration 00:00:00): no such lc
TASK ERROR: migration aborted
```

The same occurs if I try to migrate some CT from pmx1 -> pm2:

Code:

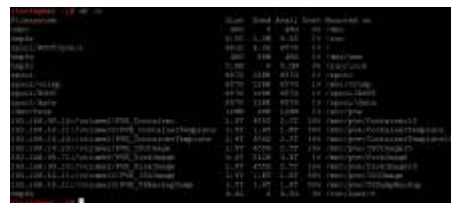
```
2021-11-20 01:38:13 shutdown CT 201
2021-11-20 01:38:16 starting migration of CT 201 to node 'pmx2' (192.168.16.
2021-11-20 01:38:16 ERROR: no such logical volume pve/data at /usr/share/per
2021-11-20 01:38:16 aborting phase 1 - cleanup resources
2021-11-20 01:38:16 start final cleanup
2021-11-20 01:38:16 start container on source node
2021-11-20 01:38:18 ERROR: migration aborted (duration 00:00:05): no such lc
TASK ERROR: migration aborted
```

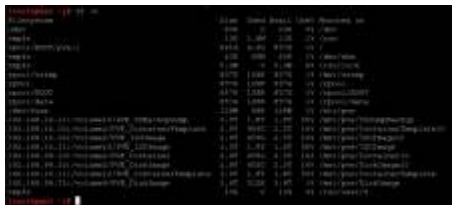
If I try to migrate from pmx3 -> pmx1 a CT that is offline the error persists:

Code:

```
2021-11-20 01:44:51 starting migration of CT 206 to node 'pmx1' (192.168.16.
2021-11-20 01:44:51 ERROR: no such logical volume pve/data at /usr/share/per
2021-11-20 01:44:51 aborting phase 1 - cleanup resources
2021-11-20 01:44:51 start final cleanup
2021-11-20 01:44:51 ERROR: migration aborted (duration 00:00:00): no such lc
TASK ERROR: migration aborted
```

This is what df shows in pmx1, pmx3 (IP 192.168.16.11 is another NAS that was used some weeks ago, the new nas and final is 192.168.16.10)





At this moment (11am), staff is working on VMs and I can't restart PMX1.
Thank you for your help.

Regards

Attachments



Looks like I won't be spared from reinstalling my 3 servers and recreating my cluster.

Luckily, by having a PBS and recent backups this may be "simple".

Even luckier: I took a chance and restarted my server running the VM/CTs...
and they all started.

, , ,



mrE

Renowned Member



mrE

Renowned Member



Nov 29, 2021

#3

With no solution, the only workaround was to reinstall my cluster.

This time I was careful to reinstall each Proxmox with an 8GB Swap partition.

I recommend having a Proxmox Backup Server installed on your cluster; PBS is a lifesaver and is quick to restore backups.

+1 for PBS.

Edit / 2021.12.13:

A possible solution to my problem would have been with @Fabian_E 's comment that @mlanner has confirmed. But now already reinstalled I can't corroborate it on my cluster.

Thanks for the responses!

Last edited: Dec 13, 2021

**mlanner**

Renowned Member



Dec 7, 2021

#4

@mrE

It doesn't make sense to me that you marked this as "SOLVED". It appears that you were able to migrate VMs/CTs between nodes perfectly fine before the upgrade, but after the upgrade the functionality is no longer there. Having backups of everything is obviously good, but it's far from a solution to the problem you encountered. It's a disaster recovery tactic. I ended up finding your post as I ran into the same issue and was hopeful that "SOLVED" actually would solve my problem. Reinstalling my cluster might get me to a point where things are working again, but without truly understanding what's going on here and why it suddenly stopped working after an upgrade, I'd be inclined to consider this a bug.

Perhaps some PVE developer can chime in here with some input?

@t.lamprecht You seem to have been busy looking into various issues reported as part of the 7.1 release announcement. Do you happen to have any comments or insights on this problem?

**mlanner**

Renowned Member



Dec 7, 2021

#5

Also, for what it's worth, it appears the servers in the screenshot above are using ZFS for the boot disks. I have the same in a mirror-0 config.

**fiona**

Proxmox Staff Member

Staff member



Dec 7, 2021

#6

Hi,
the issue comes from an enabled `local-lvm` storage, which doesn't actually exist, i.e. no logical volume `pve/data`. Simply disable/remove that storage (or restrict it to the nodes that actually have it).

Best regards,
Fiona










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[mrE](#)**mlanner**

Renowned Member

Dec 7, 2021

#7

<div><div>▼</div><div></div><div>fiona</div><div>Proxmox Staff Member</div><div>Staff member</div><div>▼</div></div>	<div><div>Thanks @Fabian_E , that makes sense. I did disable it on all my nodes and migration does indeed work now. What I'm curious about is why and how it could and used to work in previous versions of PVE? Maybe it was a "bug" in earlier releases? It just came as a surprise that it suddenly didn't work.  #8</div><div><div>mlanner said: </div><div>Thanks @Fabian_E , that makes sense. I did disable it on all my nodes and migration does indeed work now. What I'm curious about is why and how it could and used to work in previous versions of PVE? Maybe it was a "bug" in earlier releases? It just came as a surprise that it suddenly didn't work.</div></div><div>The check for LVM-thin storages is new in version 7.1. Previously, it was just assumed that they are always active, but they might not be.</div><div>Best regards, Fiona</div><div>Do you already have a Commercial Support Subscription? - If not, Buy now and read the documentation</div><div>mrE</div></div>
<div><div></div><div>Defaultmox</div><div>New Member</div><div>▼</div></div>	<div><div>Dec 16, 2021</div><div> #9</div></div> <div><div>Fabian_E said: </div><div>Hi, the issue comes from an enabled <code>local-lvm</code> storage, which doesn't actually exist, i.e. no logical volume <code>pve/data</code> . Simply disable/remove that storage (or restrict it to the nodes that actually have it).</div></div> <div>I encontered the same issue but it apeared when i was trying to add the sata ports, as a pci device, to the vm. And in my case there is no local-lvm storage that actually don't exist. Any idea of what could solve it?</div> <div>Last edited: Dec 16, 2021</div>
<div><div></div><div>fiona</div><div>Proxmox Staff Member</div><div>Staff member</div><div>▼</div></div>	<div><div>Dec 16, 2021</div><div> #10</div></div> <div>Hi,</div> <div><div>Defaultmox said: </div><div>I encontered the same issue but it apeared when i was trying to add the sata ports, as a pci device, to the vm. And in my case there is no local-lvm storage that actually don't exist. Any idea of what could solve it?</div></div> <div>what exactly is the error message you get and what is the command/action that triggers it? If it's migration (or another task), please provide the full task log. Please provide the output of <code>pveversion -v</code> .</div>

Best regards,
Fiona

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Defaultmox
New Member



Dec 16, 2021

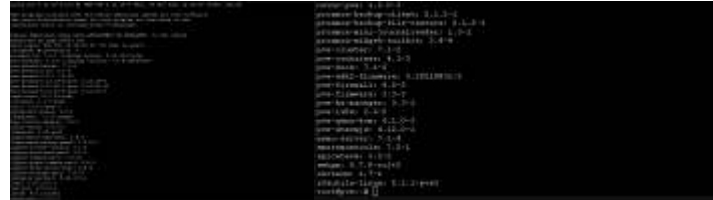
#11

Fabian_E said:

Hi,

what exactly is the error message you get and what is the command/action that triggers it? If it's migration (or another task), please provide the full task log. Please provide the output of `pveversion -v`.

I use the command `qm start` and with the sata ports assigned as a pci device on the vm it displays this error message: no such logical volume pve/data at /usr/share/perl5/PVE/Storage/LvmThinPlugin.pm line 219.



Host	Proxmox	14.00 (Proxmox)
Process	8.11 (Proxmox)	8.11 (Proxmox)
OS	Ubuntu 20.04	Ubuntu 20.04
Kernel	5.10	5.10
Architecture	x86_64	x86_64
Host CPU	Intel Xeon	Intel Xeon
Host Memory	16 GB	16 GB
Host Storage	1 TB	1 TB
Host Network	10 GbE	10 GbE
Host Time	UTC	UTC
Host Locale	en_US.UTF-8	en_US.UTF-8
Host Timezone	UTC	UTC
Host DNS	192.168.1.1	192.168.1.1
Host SSH	OpenSSH 8.2p1	OpenSSH 8.2p1
Host SFTP	OpenSSH 8.2p1	OpenSSH 8.2p1
Host Samba	Samba 4.13.10	Samba 4.13.10
Host NFS	NFS 4.2.0	NFS 4.2.0
Host iSCSI	iSCSI 2.0.0	iSCSI 2.0.0
Host Fibre Channel	Fibre Channel 3.0.0	Fibre Channel 3.0.0
Host InfiniBand	InfiniBand 1.0.0	InfiniBand 1.0.0
Host USB	USB 2.0	USB 2.0
Host Bluetooth	Bluetooth 4.2	Bluetooth 4.2
Host NFC	NFC 1.0	NFC 1.0
Host HID	HID 1.0	HID 1.0
Host UWB	UWB 1.0	UWB 1.0
Host Wireless	Wireless 802.11	Wireless 802.11
Host Cellular	Cellular 4G/LTE	Cellular 4G/LTE
Host Satellite	Satellite 1.0	Satellite 1.0
Host Other	Other 1.0	Other 1.0

0000:00:14.0	2	Intel Corporation	8 Series C220 Series Chipset Family USB xHCI	No
0000:00:14.0	3	Intel Corporation	8 Series C220 Series Chipset Family USB Controller #1	No
0000:00:14.0	4	Intel Corporation	8 Series C220 Series Chipset Family USB EHCI #1	No
0000:00:14.0	5	Intel Corporation	8 Series C220 Series Chipset High Definition Audio Controller	No
0000:00:14.0	7	Intel Corporation	8 Series C220 Series Chipset Family USB EHCI #1	No
0000:00:14.0	8	Intel Corporation	8 Series C220 Series Chipset Family 8-port SATA Controller 1 [AHCI]	No
0000:00:14.0	9	Intel Corporation	8 Series C220 Series Chipset Family 8-port SATA Controller 1 [AHCI]	No
0000:00:00.0	10	Advanced Micro Devices, Inc. [AMD]	AMD Radeon R7 470 (Radeon R7 470) [Radeon R7 470]	No
0000:00:00.0	11	Realtek Semiconductor Corp.	RTL8101E PCI Express Fast Ethernet controller	No



fiona

Proxmox Staff Member
Staff member



Dec 16, 2021

#12

What is the output of `lvs` ? Your VM references two volumes on `local-lvm` and those should be part of the default thin pool `pve/data`.

Best regards,
Fiona

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[Defaultmox](#)



Defaultmox
New Member



Dec 16, 2021

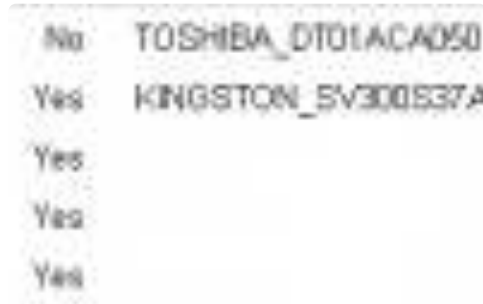
#13

Fabian_E said:

What is the output of `lvs`? Your VM references two volumes on `local-lvm` and those should be part of the default thin pool `pve/data`.

One is the EFI and the other is a partition of the storage where the sistem of the vm is installed. The disk is partitioned in three and proxmox is installed in it.

Attachments



Opera Instantâneo_2021-12-16_...



Defaultmox
New Member

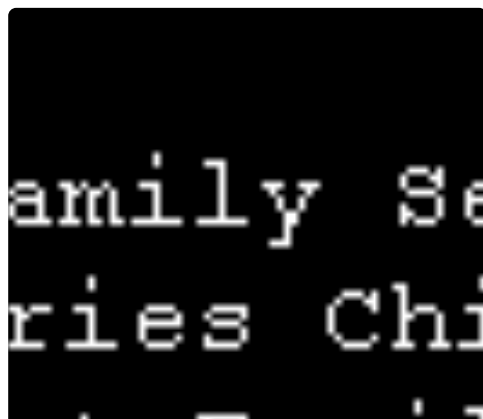


Dec 17, 2021

#14

I don't know if it could be related but the sata ports aren't alone at the group. I've already used `pcie_acs_override=downstream,multifunction` but it didn't separate. Sorry, but I'm new at this my intent was to enable the sata ports so that i could freely swipe my disks with the fisical machines when necessary and in a plug and play way. What did i do something wrong or is this not suported?

Attachments



IOMMU.png



fiona

Proxmox Staff Member

Staff member



Dec 17, 2021

#15

Did you already try to follow [this article](#)? Or as an easier alternative, you could also attach the disk by adding, e.g. `sata0: /dev/sda` (or using the more stable `/dev/disk/by-id/XYZ` path) to your VM config.

Best regards,
Fiona

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Defaultmox

New Member



Dec 17, 2021

#16

If i attach the disk making it a storage on the pve by creating a lvm thin pool will the data still be accessible by other devices or will it be only usable on vm on proxmox?



jameswang

New Member



May 24, 2022

#17

I ran into the same problem. In my case, it's a lvmthin I created called hd8thin. Commented it out of the `/etc/pve/storage.cfg` and was able to migrate VMs back to the node.

```
#lvmthin: hd8thin
# thinpool hd8thin
# vgname hd8t
# content images,rootdir
```

lvs

LV	VG	Attr	LSize	Pool	Origin	Data%	Meta%	Move	Log
----	----	------	-------	------	--------	-------	-------	------	-----

Cpy%Sync Convert

hd8thin	hd8t	twi-aotz--	<7.28t			7.45	13.92		
---------	------	------------	--------	--	--	------	-------	--	--

hd8tvz	hd8t	Vwi-aotz--	7.27t	hd8thin		7.45			
--------	------	------------	-------	---------	--	------	--	--	--

data	pve	twi-aotz--	<680.61g			0.00	0.27		
------	-----	------------	----------	--	--	------	------	--	--

root	pve	-wi-ao----	200.00g						
------	-----	------------	---------	--	--	--	--	--	--

swap	pve	-wi-ao----	16.00g						
------	-----	------------	--------	--	--	--	--	--	--

I am new to lvm thin pool. I need to read more documents to full understand it. You are welcome to lecture me



fiona

Proxmox Staff Member

May 25, 2022

#18

Hi,

jameswang said:

Staff member



I ran into the same problem. In my case, it's a lvmthin I created called hd8thin. Commented it out of the /etc/pve/storage.cfg and was able to migrate VMs back to the node.

```
#lvmthin: hd8thin
```

[Click to expand...](#)

is the storage available on all nodes? Otherwise, you should reflect this in your storage configuration. Can be done in the UI or with:

Code:

```
pvesm set hd8thin --nodes <list of nodes where it's actually available>
```

Best regards,
Fiona

Do you already have a Commercial Support Subscription? - If not, [Buy now](#) and read the [documentation](#)



jameswang
New Member



May 25, 2022

#19

Fabian_E said:

Hi,

is the storage available on all nodes? Otherwise, you should reflect this in your storage configuration. Can be done in the UI or with:

[Click to expand...](#)

Hi Fabian,

Yes, hd8thin is local on the target node. I ran the command and now I was able to migrate VMs to the nodes with the storage available.

Thank you!

James

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