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r/Proxmox



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r/Proxmox • 4 yr. ago

jsalas1



Best way to run Docker in Proxmox?

I found this guide here:

<https://www.servethehome.com/creating-the-ultimate-virtualization-and-container-setup-with-management-guis/>

The authors themselves call the set-up a "security nightmare" and unsuitable for production mode.

So my question is, does anybody know of a reliable way to run docker containers in Proxmox?

I'm looking to deploy Zoneminder and their "easiest" method is with a docker image:

<https://zoneminder.readthedocs.io/en/1.34.9/installationguide/easydocker.html>

I'm not sure if there's any benefit to running the docker image directly vs. running a docker container inside an Ubuntu server VM vs. just installing Zoneminder straight on the VM. I'm going to post over in [r/ZoneMinder](#) and



69



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unitedoceanic • 4y ago

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However docker containers have their use cases. I settled for a Debian lxc in proxmox with nesting feature enabled and running the containers in there. On the proxmox instance you have to enable the overlay and aufs Kernel models otherwise the lxc will quickly run out of space. To do that:

```
# add overlay and aufs kernel module for docker lxc
echo -e "overlay\naufs" >> /etc/modules-load.d/modules.conf
# reboot
# verify that the modules are active
lsmod | grep -E 'overlay|aufs'
```

After that create an unprivileged container

This is my Debian docker lxc config:

```
arch: amd64
cores: 1
features: keyctl=1,nesting=1
hostname: docker
memory: 1024
mp0: /mnt/bindmounts/,mp=/share
net0: name=eth0,bridge=vmbr0,hwaddr=0A:00:00:00:00:25,ip=dhcp,type=veth
onboot: 1
ostype: debian
rootfs: local-lvm:vm-125-disk-1,size=16G
startup: order=1
swap: 1024
lxc.apparmor.raw: mount,
```

You have to add the last line after you created the lxc. The file is located under /etc/pve/<ct_id>.conf It's is due to a bug. It could be fixed now have to check it in the future.

In the container this is how I installed docker and changed the storage type to overlay:

```
# Docker
apt-get install apt-transport-https ca-certificates curl gnupg2 software-properties-common
curl -fsSL https://download.docker.com/linux/debian/gpg | apt-key add -
add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/debian \
    $(lsb_release -cs) \
    stable"
apt-get update
apt-get install docker-ce -y
# change storage driver otherwise a lot of storage will be used
echo -e "{\n  \"storage-driver\": \"overlay2\"\n}" >> /etc/docker/daemon.json
```

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a separate lxc and not directly on the host. This also has the benefit that you can easily backup the whole lxc and restore it easily

⬇️ 55 ⬆️ [Reply](#) ...

⬆️ [deleted] • 4y ago

 **GritsNGreens** • 4y ago

This would make a great blog post, thanks for sharing!

⬆️ 4 ⬆️ [Reply](#) ...

⬆️ 1 more reply

⬆️ 5 more replies

 **shiranugahotoke** • 4y ago

I run my docker containers in a stripped down debian VM.
I just can't imagine how much of a nightmare running docker on the host would be.
It's so much easier to manage, secure, and backup with that layer of abstraction.

⬆️ 25 ⬆️ [Reply](#) ...

 **jmblock2** • 4y ago

+1 to just spin up Debian vm and do whatever you want in there.

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I run docker in a debian VM.

⬆️ 9 ⬆️ [Reply](#) ...

Maxiride • 4y ago

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The best way would be to spin up a VM (pick your image at your liking, RancherOS is popular for a 100% docker VM otherwise Debian or minideb is just fine).

↑ 7 ↓ [Reply](#) ...

⊕ 1 more reply



hem10ck • 4y ago

I agree with running it in a Debian VM, just wanted to add you may wanna try out RancherOS as well.

↑ 4 ↓ [Reply](#) ...

⊕ 1 more reply



SilentDis • 4y ago

I'd... not?

I know, I know, it says 'easiest'... but you've got containers *right there*. Just set up an entirely dedicated debian/ubuntu instance in a container directly to do the same thing. I've found this with a lot of Docker stuff; it's actually 'easier' to harden a Debian install how I want it, then setup whatever packages I need, and pull up the software I want directly in the CT.

⊖ ↑ 13 ↓ [Reply](#) ...



Nixellion • 4y ago

A lot if services are a lot easier to spin up as docker containers. Like 1 command to run Nexcloud VS 2 pages of instructions on setting it up with all deps and nginx and such. Just virtualize docker host as separate VM or CT and ot works great.

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r/ [r/selfhosted](#)

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r/Proxmox

This is addictive!

53 upvotes · 40 comments



r/Proxmox

Proxmox-Enhanced-Configuration-Utility (PECU) - Automate GPU Passthrough on Proxmox!

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r/homelab

Software Suggestions for a HomeLab (or small office)

538 upvotes · 99 comments



r/HomeServer

About to build my first server, not sure on OS.

55 upvotes · 111 comments



r/Proxmox

Clean up your server (re-claim disk space)

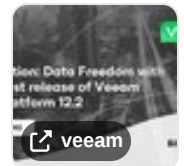
106 upvotes · 27 comments



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Veeam proxmox support released today!

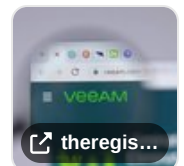
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r/Proxmox

Veeam debuts its Proxmox backup tool – and reveals outfit using it to quit VMware

139 upvotes · 11 comments



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136 upvotes · 88 comments



r/PFSENSE

No offline installer anymore - confirmed by support

295 upvotes · 220 comments



r/Proxmox

New proxmox server mainly for storage and Jelly fin

223 upvotes · 61 comments



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Need help

108 upvotes · 35 comments



r/Proxmox

My proxmox backup server

356 upvotes · 45 comments



r/pihole

[RELEASED] Tray Monitor for Windows

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r/homelab

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140 upvotes · 192 comments



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Fully Functional K8s on Proxmox using Terraform and Ansible

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r/homelab

Nice setups you guys, truly wonderful. But, what do you use them for?

97 upvotes · 129 comments



r/opnsense

OPNsense 24.7.2 released

137 upvotes · 82 comments



r/opnsense

OPNsense 24.7.3 released

148 upvotes · 84 comments



r/opnsense

OPNsense 24.7.4 released

141 upvotes · 78 comments



r/homelab

Don't drink and lab

154 upvotes · 53 comments

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