

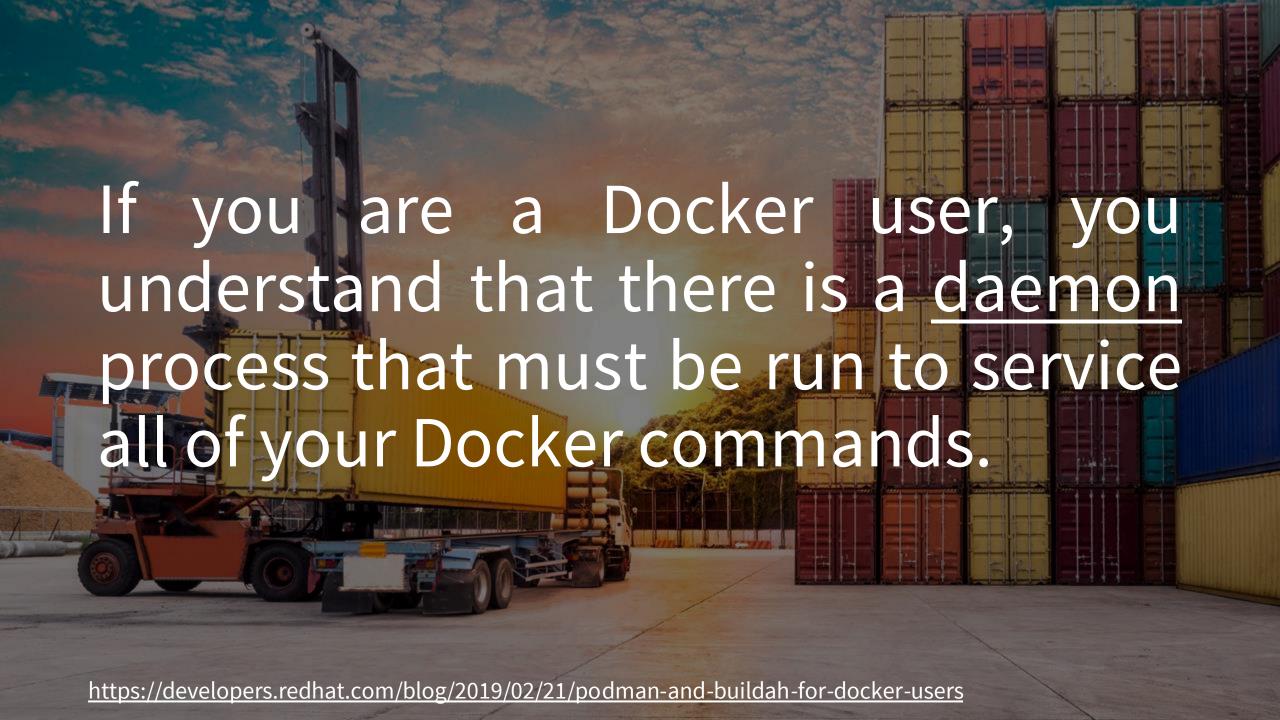
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FOSS ASIA 2021





### Daemon Problem

### Why did Docker get stopped on unattended upgrades

Asked 2 months ago Active 2 months ago Viewed 2k times



The Docker daemon gets stopped and not restarted after unattended upgrades.

Is this normal?

8 Im using Ubuntu Ubuntu 18.04.5 LTS



Dec 01 06:39:19 systemd[1]: Starting Daily apt upgrade and clean activities...

Dec 01 06:39:26 systemd[1]: Stopping Docker Application Container Engine...

\*

https://askubuntu.com/questions/1296583/why-did-docker-get-stopped-on-unattended-upgrades

### Daemon Problem



Overview

Code

Blueprints

Translations

Answers

## docker stopped when containerd updated

Bug #1870876 reported by 💂 Stephen Buergler on 2020-04-05



This bug report is a duplicate of: Bug #1870514: [SRU] update containerd:amd64 1.3.3-0 stops docker daemon. 🗷 😑

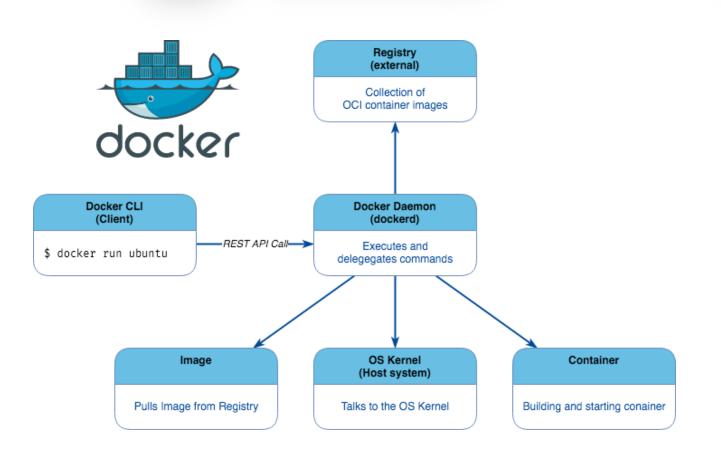


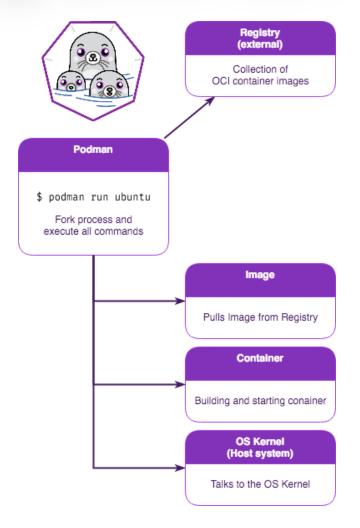


This bug affects 7 people









https://www.nine.ch/en/blog/lets-have-some-fun-with-containers-on-nine-managed-servers

# DAEMONLESS

Podman is a <u>daemonless</u> container engine for developing, managing, and running OCI Containers on your Linux System. Containers can either be run as root or in rootless mode.



Existing Step	Podman (and friends)
docker run	podman run
docker exec	podman exec
docker info	podman info
docker inspect	podman inspect
docker logs	podman logs
docker ps	podman ps
docker stats	podman stats

https://github.com/containers/podman/blob/master/transfer.md

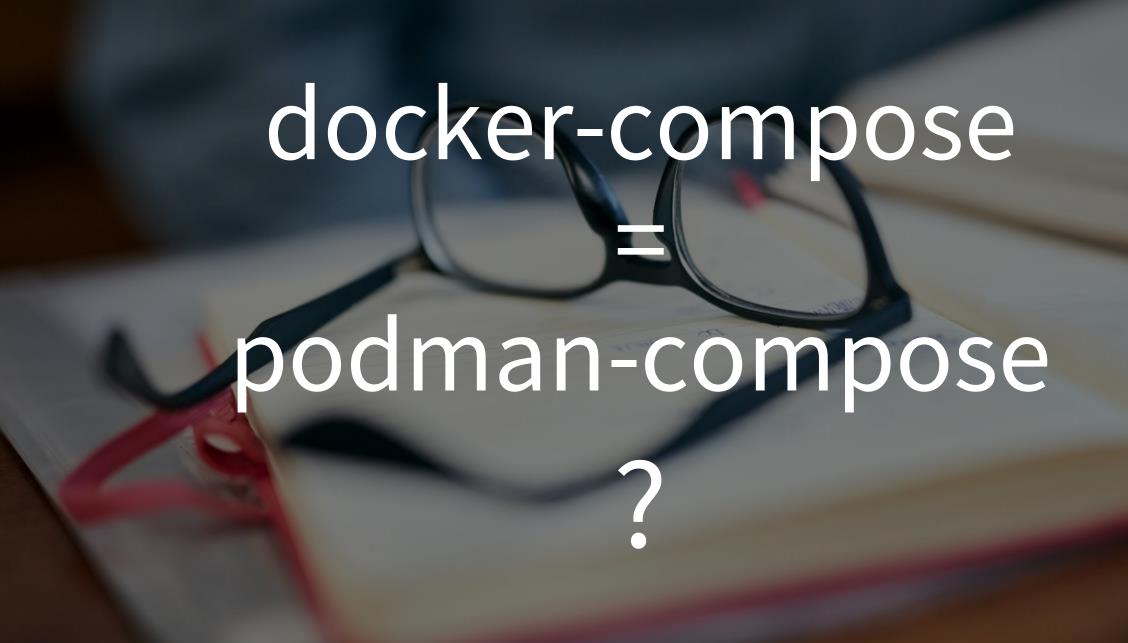


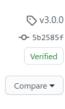
### Missing commands in podman

Those Docker commands currently do not have equivalents in podman:

Missing command	Description
docker container rename	podman does not support container rename - or the rename shorthand. We recommend using podman rm and podman create to create a container with a specific name.
docker container update	podman does not support altering running containers. We recommend recreating containers with the correct arguments.
docker node	
docker plugin	podman does not support plugins. We recommend you use alternative OCI Runtimes or OCI Runtime Hooks to alter behavior of podman.
docker secret	
docker service	
docker stack	
docker swarm	podman does not support swarm. We support Kubernetes for orchestration using CRI-O.

https://github.com/containers/podman/blob/master/transfer.md





v3.0.0

mheon released this 20 days ago · 465 commits to master since this release

#### Features

- Podman now features initial support for Docker Compose.
- Added the podman rename command, which allows containers to be renamed after they are created (#1925).
- The Podman remote client now supports the podman copy command.
- A new command, podman network reload, has been added. This command will re-configure the network of all running containers, and
  can be used to recreate firewall rules lost when the system firewall was reloaded (e.g. via firewall-cmd --reload).
- Podman networks now have IDs. They can be seen in podman network 1s and can be used when removing and inspecting networks. Existing networks receive IDs automatically.
- Podman networks now also support labels. They can be added via the --label option to network create, and podman network 1s can filter labels based on them.
- The podman network create command now supports setting bridge MTU and VLAN through the --opt option (#8454).
- The podman container checkpoint and podman container restore commands can now checkpoint and restore containers that include volumes.
- The podman container checkpoint command now supports the --with-previous and --pre-checkpoint options, and the podman container restore command now support the --import-previous option. These add support for two-step checkpointing with lowered dump times.
- The podman push command can now push manifest lists. Podman will first attempt to push as an image, then fall back to pushing as a
  manifest list if that fails.
- The podman generate kube command can now be run on multiple containers at once, and will generate a single pod containing all of them.
- The podman generate kube and podman play kube commands now support Kubernetes DNS configuration, and will preserve custom DNS configuration when exporting or importing YAML (#9132).
- The podman generate kube command now properly supports generating YAML for containers and pods creating using host networking ( --net=host ) (#9077).
- The podman kill command now supports a --cidfile option to kill containers given a file containing the container's ID (#8443).
- The podman pod create command now supports the --net=none option (#9165).
- The podman volume create command can now specify volume UID and GID as options with the UID and GID fields passed to the the
   --opt option.
- Initial support has been added for Docker Volume Plugins. Podman can now define available plugins in containers.conf and use them to create volumes with podman volume create --driver.
- The podman run and podman create commands now support a new option, --platform, to specify the platform of the image to be



# Start the Podman System Service

- Be sure the podman-docker and docker-compose packages are installed
- Enable and start the Podman systemd socket-activated service

```
$ sudo systemctl enable --now start podman.socket
```

Verify the service

```
$ sudo curl -H "Content-Type: application/json" --unix-socket
/var/run/docker.sock http://localhost/_ping
OK
```

## Run Compose

- For example, using compose from <u>https://github.com/docker/awesome-compose/tree/master/wordpress-mysql</u>
- Bring up the containers

```
$ sudo docker-compose up -d
```

Verify the containers running

```
$ sudo podman ps
```

Verify WordPress is running using the localhost and port 80



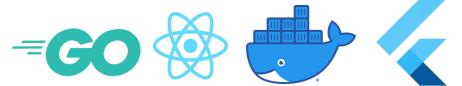
# Acknowledgement

 Rifki Affandi (Awan Sakti, openSUSE-ID) "Daemonless with Podman" on Btech Bicara

#20 https://www.youtube.com/watch?v=TXFLDQ3SS0I

# Thank You

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