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r/docker



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r/docker • 3 yr. ago

A_Random_Lantern



How do you update containers/images with docker-compose?

I started experimenting with docker today and I've been exploring it for the past while. But I'm a bit confused on how to update containers/images. I am using a docker-compose yml file btw.

I think the steps are

```
`docker-compose pull
```

```
docker-compose down
```

```
docker-compose build
```

```
docker-compose up -d`
```

But the wiki says `docker-compose down` removes volumes and images, which sounds very not helpful.



34



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flaming_m0e • 3y ago

```
docker-compose pull && docker-compose up -d
```

it will down only the affected services and bring up new containers of those affected services.

You don't have to down the entire stack.



52



Reply



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Don't forget to "docker image prune" after testing.

 4   Reply ... 2 more replies**[deleted]** • 3y ago

This is good to know . I've always brought the whole stack down for pulls. Does also look at dependencies? For example,

- I have an app that depends on a database, both in the stack.
- the database has a newer image but the app does not.
- I do the pull&up commands

Will docker compose bring down both apps , or just the one with the newer image?

 2   Reply ... 1 more reply**PaintDrinkingPete** • 3y ago

no one has address the fact the "docker-compose down" does not delete images, it stops and removes **containers**. As far as volumes go, it won't delete named mounted volumes (the ones you're concerned about), just the volatile ones attached to the containers that are taken down...which always happens when a container is removed, through docker-compose or otherwise.

having said all that though, you can do a pull and a build without having to bring the stack down...and then do a "docker-compose up -d" to just refresh every container that has an updated image.

  17   Reply ...**a_a_ronc** • 3y ago

Yep. You just need a named volume and you're good. For example, my Nextcloud instance is running with Docker-compose launched from systemd. To update, all I do is "systemctl stop Nextcloud", update the version number in my compose file and then 'systemctl start Nextcloud'.

Sometimes there are other DB migration stuffs to do, but otherwise it's a very simple upgrade.

**gheffern** • 3y ago

[Skip to main content](#)[Log In](#)**Acejam** • 3y ago

This ^

**njitzyc** • 3y ago

Watchtower is the way.



3 more replies

**JohnPreston72** • 3y ago

I'd also recommend to have the `build` section (which your `docker-compose build` tells me you have) in the service definition which allows for `docker-compose` to build the images on the fly if you needed it. If you learn how to build multi-stages docker images this can be incredibly efficient way to test everything you change.

I'd also just use `volumes` from the top / root level and assign to the container, and only if you must, have a volume use the `local` driver to mount to the host. This might prove helpful in the future to have been used to not having to rely on persistent storage.

If you need to purge the volumes when taking the services down, `docker-compose down -v` will deal with that for you.

As for some of the other comments: K8s ? Really ? way too overkill and un-necessary.



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Do I need to run a 'docker compose up --build' to check my changes every time I update my container?

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