## Migrating the Docker Storage Driver to overlay2

by Micah Abbott (/blog/author/miabbott/) - Monday 8 May 2017

On the Project Atomic mailing list (https://lists.projectatomic.io/projectatomic-archives/atomic/2017-March/msg00015.html), Colin Walters (https://twitter.com/cgwalters) posted a quick set of instructions on how to migrate the Docker storage driver from devicemapper to overlay2 on Fedora Atomic Host.

The overlay2 driver will be the default storage driver in Fedora 26

(https://fedoraproject.org/wiki/Changes/DockerOverlay2), but you can use it on Fedora 25 Atomic now. To switch storage drivers on an installed system, either before or after you rpm-ostree rebase to Fedora 26, you can use the following procedure.

Colin noted that the folks working on the atomic CLI are developing a way to migrate all of your images and containers (https://trello.com/c/vAunYr5K/310-docker-storage-migrate-images-containers-when-switching-drivers) when you want to switch storage drivers. Until that work is complete, the only way to switch drivers is destructive and results in a loss of your images and containers.

Instead of using the raw commands noted in the email, we can do much of the same thing using the atomic CLI. You'll need to have atomic-1.17.1-2 or later for the the following atomic commands to work successfully.

**WARNING** These steps should only be performed if you understand that this will destroy all of your containers, images, and volumes.

```
$ systemctl stop docker
$ atomic storage reset
  # Reallocate space to the root VG - tweak how much to your liking
$ lvm lvextend -r -l +50%FREE atomicos/root
$ atomic storage modify --driver overlay2
$ systemctl start docker
```

If you want to perform the migration without using the atomic CLI, you can use the raw commands.

```
$ systemctl stop docker
$ rm /var/lib/docker/* -rf
$ lvm lvremove atomicos/docker-pool
# Reallocate space to the root - tweak how much to your liking
$ lvm lvextend -r -l +50%FREE atomicos/root
$ echo STORAGE_DRIVER=overlay2 >> /etc/sysconfig/docker-storage-setup
$ rm /etc/sysconfig/docker-storage
$ systemctl start docker
```

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