

Title: Recommended way to run a Docker Compose stack in production?

Post Body:

I have a couple of compose files (docker-compose.yml) describing a simple Django application (five containers, three images).

I want to run this stack in production - to have the whole stack begin on boot, and for containers to restart or be recreated if they crash. There aren't any volumes I care about and the containers won't hold any important state and can be recycled at will.

I haven't found much information on using specifically docker-compose in production in such a way. [The documentation](#) is helpful but doesn't mention anything about starting on boot, and I am using Amazon Linux so don't (currently) have access to Docker Machine. I'm used to using supervisord to babysit processes and ensure they start on boot up, but I don't think this is the way to do it with Docker containers, as they end up being ultimately supervised by the Docker daemon?

As a simple start I am thinking to just put `restart: always` on all my services and make an init script to do `docker-compose up -d` on boot. Is there a recommended way to manage a docker-compose stack in production in a robust way?

EDIT: I'm looking for a 'simple' way to run the equivalent of `docker-compose up` for my container stack in a robust way. I know upfront that all the containers declared in the stack can reside on the same machine; in this case I don't have need to orchestrate containers from the same stack across multiple instances, but that would be helpful to know as well.

Accepted Answer:

Compose is a client tool, but when you run `docker-compose up -d` all the container options are sent to the Engine and stored. If you specify `restart as always` (or preferably `unless-stopped` [to give you more flexibility](#)) then you don't need run `docker-compose up` every time your host boots.

When the host starts, provided you have [configured the Docker daemon](#) to start on boot, Docker will start all the containers that are flagged to be restarted. So you only need to run `docker-compose up -d` **once** and Docker takes care of the rest.

As to orchestrating containers across multiple nodes in a Swarm - the preferred approach will be to use [Distributed Application Bundles](#), but that's currently (as of Docker 1.12) experimental. You'll basically create a bundle from a local Compose file which represents your distributed system, and then deploy that remotely to a Swarm. Docker moves fast, so I would expect that functionality to be available soon.

Highest Rated Answer:

You can find in their [documentation](#) more information about using docker-compose in production. But, as they mention, `compose` is primarily aimed at development and testing environments.

If you want to use your containers in production, I would suggest you to use a suitable tool to orchestrate containers, as [Kubernetes](#).