Welcome to the Docker Community Forums!

This is a public forum for users to discuss questions and explore current design patterns and best practices about **Docker** and related projects in the **Docker Ecosystem**.

To participate, just log in with your Docker Hub account. Make sure to also review our **Community Guidelines**, **Terms of Service**, and **Privacy Policy**.

When posting issues or feedback, make sure to remove any sensitive information and please provide the following:

Issue type

OS Version/build

App version

Steps to reproduce

Docker swarm & compose - placement constraints ignored

swarm

knowral   **May '18**

Hello there,

We have the problem that placement constraints are ignored on our Swarm cluster. Here is the situation:

> we have 2 nodes, manager and worker
> each node has a user defined label set: `node.labels.app_role=wproc` , `node.labesl.app_role=wweb`

We want to send the containers that run web apps to the one labeled `wweb` and the rest to `wproc` . On the docker-compose.yml file we have

```
services:
  webapp:
    image:...
    command: ...
    deploy:
      replicas: 2
      restart_policy:
        condition: any
        max_attempts: 5
      update_config:
        parallelism: 2
        delay: 10s
      placement:
        constraints: [node.labels.app_role==wweb]
    networks:
      - backend
      - frontend

  procworker:
    image: ...
    command: ...
    deploy:
      replicas: 1
      restart_policy:
        condition: any
        max_attempts: 5
      update_config:
        parallelism: 2
        delay: 10s
      placement:
        constraints: [node.labels.app_role==wproc]
    networks:
      - backend
```

The 2 nodes has this information under the `Labels:` section,

```
host:~/$ docker node inspect xxx-web-001 --pretty | grep "node.labels"
 - node.labels.app_role=wweb
host:~/$ docker node inspect xxx-proc-001 --pretty | grep "node.labels"
 - node.labels.app_role=wproc
host:~/$
```

This is pretty much all what we have. What I am missing to make this work?

Thanks!

---

victorbarajas89   **Nov '18**

What is the version of your docker-compose file? I currently use version 3.2 but instead of using labels I use the
 "node.role" option (manager | worker)