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r/docker



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r/docker • 6 yr. ago

Asnor



Docker Compose can I assign any ipv4 address?

Hello, so I have following Docker Compose yml file and would like to know if I can assign any IPv4 address to the Containers or does it strictly have to be within the 172.x.x.x range? Essentially the goal is to have the Containers communicate with each other and the Host.

```
version: "3.7"
services:
  db:
    image: postgres
    networks:
      testnet:
        ipv4_address: 192.168.50.20
    ports:
```

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TheoR700 • 6y ago

Also, instead of hardcoded IP addresses to use for communication, you should look into network aliases for Docker containers. Docker has an internal DNS service which allows for you to reference a Docker container's IP address by either it's container name or network alias. This allows for you to not care about what IP address it is given.



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documentation on that, thank you.

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Swedophone • 6y ago

You should be able to use any subnet on the bridge as long as the subnet isn't used on another interface on the host.

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Asnor OP • 6y ago

Thanks for the quick answer. I'll double check if that is the case.

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martinh99 • 6y ago

Not sure if you have fixed the problem but this docker compose file will communicate between the wordpress and the maria db containers with no additional setup

```
wordpress:
  image: wordpress
  links:
    - wordpress_db:mysql
  ports:
    - 80:80
  volumes:
    - ./docker-runtime/wwwroot:/var/www/html
  restart: always

wordpress_db:
  image: mariadb
  environment:
    MYSQL_ROOT_PASSWORD: rootpass
  restart: always
  volumes:
    - ./docker-runtime/sql:/var/lib/mysql
```

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