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## Docker-compose default network conflicts

I recently had to diagnose a networking problem I was having when attached to our corporate network. I was seeing an unknown bridge network being defined that shared the same IP address space as the company network thus blocking access to company resources. This bridge network was separate from the Docker0 bridge network which the docker engine sets up. Docker was configured with a bip (bridge ip) address to prevent docker from using an address space that create a conflict.

HOWEVER, this only applies to the Docker0 bridge. docker-compose creates its own bridge network configurations with an ID of "br-xxxxxx" and these configurations continue to use the 172.x.x.x address space. There is no system-wide configuration to change this behavior (as of yet). It should be noted too that this bridge network does not go away if you stop the containers created by compose. So even if you manually remove the interface (ip link delete br-xxxx type bridge) it will return the next time you restart the computer or even just docker. This is only completely removed by doing docker-compose down.

The correction for this is to configure the default network in your docker-compose.yml file. Add the following to the bottom with an appropriate ip address for your environment.

```
networks:  
  default:  
    ipam:  
      driver: default  
      config:  
        - subnet: 192.168.3.0/24
```

this reconfigures the default network. You could, of course, configure a custom network here and set all services to use that or create a network with docker network create then reference that external network in the yml file.

Hope this helps someone avoid wasting a bit of time dealing with this issue.

[#Docker](#) [#Other](#)

