

Lab: Docker Compose

```
root@myVM: ~  
Last login: Fri Aug 16 10:14:11 2024 from 27.6.184.213  
anusha954@myVM:~$ docker compose version  
Docker Compose version v2.29.1  
anusha954@myVM:~$ mkdir ~/ghost-app  
mkdir: cannot create directory '/home/anusha954/ghost-app': File exists  
anusha954@myVM:~$ sudo su -  
root@myVM:~# mkdir ~/ghost-app  
mkdir: cannot create directory '/root/ghost-app': File exists  
root@myVM:~# cd ~/ghost-app  
root@myVM:~/ghost-app# # wget https://raw.githubusercontent.com/EyesOnCloud/docker/main/docker-compose.yml  
root@myVM:~/ghost-app# cat -n docker-compose.yml  
1 services:  
2   ghost:  
3     image: ghost:1-alpine  
4     container_name: ghost-blog  
5     restart: always  
6     ports:  
7       - 80:2368  
8     environment:  
9       database_client: mysql  
10      database_connection_host: mysql  
11      database_connection_user: root  
12      database_connection_password: P4sSw0rd0!  
13      database_connection_database: ghost  
14      volumes:  
15        - ghost-volume:/var/lib/ghost  
16      depends_on:  
17        - mysql  
18  
19      mysql:  
20        image: mysql:5.7  
21        container_name: ghost-db  
22        restart: always  
23        environment:  
24          MYSQL_ROOT_PASSWORD: P4sSw0rd0!  
25        volumes:  
26          - mysql-volume:/var/lib/mysql  
27
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root@myVM: ~  
27 volumes:  
28   ghost-volume:  
29   mysql-volume:  
30  
31  
root@myVM:~/ghost-app# docker compose up -d  
WARN[0000] Found multiple config files with supported names: /root  
/ghost-app/docker-compose.yml, /root/ghost-app/docker-compose.yaml  
WARN[0000] Using /root/ghost-app/docker-compose.yml  
[+] Running 22/22  
✓ ghost Pulled 29.3s  
✓ aad63a933944 Pull complete 3.5s  
✓ 976f06839970 Pull complete 8.4s  
✓ c29b7930f4f9 Pull complete 8.7s  
✓ 18316e90c190 Pull complete 8.8s  
✓ 7aba797547c3 Pull complete 8.9s  
✓ ef529ab4d1ec Pull complete 9.1s  
✓ 96e7ecd230d9 Pull complete 16.4s  
✓ 59586d3e4b30 Pull complete 25.7s  
✓ 089ba083e7d4 Pull complete 25.8s  
✓ mysql Pulled 26.1s  
✓ 20e4dcae4c69 Pull complete 6.0s  
✓ 1c56c3d4ce74 Pull complete 7.2s  
✓ e9f03alc24ce Pull complete 8.5s  
✓ 68c3898c2015 Pull complete 9.0s  
✓ 6b95a940e7b6 Pull complete 9.1s  
✓ 90986bb8de6e Pull complete 9.2s  
✓ ae71319cb779 Pull complete 11.2s  
✓ ffc89e9dfd88 Pull complete 11.3s  
✓ 43d05e938198 Pull complete 22.1s  
✓ 064b2d298fba Pull complete 22.4s  
✓ df9a4d85569b Pull complete 22.7s  
[+] Running 2/3  
✓ Network ghost-app default Created 0.1s  
✓ Container ghost-db Started 0.9s  
✗ Container ghost-blog Star... 1.1s  
Error response from daemon: driver failed programming external con  
nectivity on endpoint ghost-blog (7c99b7b6a74d21fee24db73d6155fe2b
```

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root@myVM: ~  
Error response from daemon: driver failed programming external connectivity on endpoint ghost-blog (7c99b7b6a74d21fee24db73d6155fe2ba3ace22e3fbaa38d9b2d933ad19ba8e): failed to bind port 0.0.0.0:80/tcp: Error starting userland proxy: listen tcp4 0.0.0.0:80: bind: address already in use  
root@myVM:~/ghost-app# docker compose stop  
WARN[0000] Found multiple config files with supported names: /root/ghost-app/docker-compose.yml, /root/ghost-app/docker-compose.yaml  
  
WARN[0000] Using /root/ghost-app/docker-compose.yml  
[+] Stopping 2/2  
  ✔ Container ghost-blog   Stopped      0.0s  
  ✔ Container ghost-db     Stopped      2.1s  
root@myVM:~/ghost-app# docker compose rm -f  
WARN[0000] Found multiple config files with supported names: /root/ghost-app/docker-compose.yml, /root/ghost-app/docker-compose.yaml  
  
WARN[0000] Using /root/ghost-app/docker-compose.yml  
Going to remove ghost-blog, ghost-db  
[+] Removing 2/0  
  ✔ Container ghost-db     Removed      0.0s  
  ✔ Container ghost-blog   Removed      0.0s  
root@myVM:~/ghost-app# docker compose down  
WARN[0000] Found multiple config files with supported names: /root/ghost-app/docker-compose.yml, /root/ghost-app/docker-compose.yaml  
  
WARN[0000] Using /root/ghost-app/docker-compose.yml  
[+] Running 1/1  
  ✔ Network ghost-app_default Removed      0.1s  
root@myVM:~/ghost-app# docker image ls -q -f  
Untagged: mysql:5.7  
Deleted: sha256:5107333e08a87b836d48ff7528b1e84b9c86781cc9f1748bbc1b8c42a870d933  
Deleted: sha256:37fd5f1492d4e9cb540c52c26655f220568050438f804275e886200c8807ffb4  
Deleted: sha256:1105a50d3483cb9f970e70cf5163e3352f0b2fe2ff07c6abcca6f34228e76dc5
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root@myVM: ~  
86200c8807ffb4  
Deleted: sha256:1105a50d3483cb9f970e70cf5163e3352f0b2fe2ff07c6abcca6f34228e76dc5  
Deleted: sha256:94187496c18bb1b78e71017f2774ad3c0a734da9749a4e917c4239504e9322  
Deleted: sha256:ae59716eae3be604a4fd43e86fd2ad504cb06c89cc064c73c78eee651e675805  
Deleted: sha256:97d26ca29ec287ff4bd09a49602c44cbcabcf3303ddc726b3b94cbe26dfelc94  
Deleted: sha256:27303974d12144264b32b8936ca7c90d72bdba939a9e791010201b3b1717c4c4  
Deleted: sha256:4d4483f06dbe01282c10cb9e429a0be826c18c61048f7860da449ae7f6bac927  
Deleted: sha256:3b73a6f6b3298c568dcfb8fa5e96c581a1b5c0ad395b0c38f9add0c79703124  
Deleted: sha256:46446bf265a411a4a13a4adc86f60c9e0479a2e03273c98cafab7bc4151dd2bc  
Deleted: sha256:1d5264146b09a27a8fc6801dc239a4962582ed27dd2fbd8ee708463a1857b06b  
Deleted: sha256:cff044e186247f93aa52554c96d77143cc92f99b2b55914038d0941fddeb6623  
Untagged: ghost:1-alpine  
Untagged: ghost@sha256:0a9957f8831db9fe6a87fe95217053939601fcdcd1b047cb8b106f0ec4b7506b  
Deleted: sha256:efcd4044e3a0e05f85560a6c8111096511fbc17812474f8c871b77844a68492d  
Deleted: sha256:c00d5d9ae18eb43e37cce7140d0aa2a1b8de2b75bf5a603814515bf34cf45520  
Deleted: sha256:186d738eda8736f8a5e4aed6c0aa50959b1e1a643d0f3365745b2e8f38532bf8  
Deleted: sha256:4160f9fd1c7b85a0fe338be0544ccf834e883982b4976f531e91c8041910d2  
Deleted: sha256:2b216a78326e73e7f5c704c9905f576c2499f117670caf5b416eb8a88b616a45  
Deleted: sha256:b2d984eb28da3d83ec4259c552bb70b7eec2017c1b93e03a5276389cae2c0e76  
Deleted: sha256:697ff4d37a7b82b48adbe739972ae7cbdaefe721c82829933a86d5e6b787f179  
Deleted: sha256:15ea3998b3cf3293aa2fc0c0bb8605921742ca17d6457e1fe
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root@myVM: ~  
08463a1857b06b  
Deleted: sha256:cff044e186247f93aa52554c96d77143cc92f99b2b55914038  
d0941fddeb6623  
Untagged: ghost:l-alpine  
Untagged: ghost@sha256:0a9957f8831db9fe6a87fe95217053939601fcdcd1b  
047cb8b106f0ec4b7506b  
Deleted: sha256:efcd4044e3a0e05f85560a6c8111096511fbc17812474f8c87  
1b77844a68d92d  
Deleted: sha256:c00d5d9ae18eb43e37cce7140d0aa2a1b8de2b75bf5a603814  
515bf34cf45520  
Deleted: sha256:186d738eda8736f8a5e4aed6c0aa50959b1e1a643d0f336574  
5b2c8f38532bf8  
Deleted: sha256:4160f9fd1c7b85a0fe338be0544ccf834eec883982b4976f53  
1e91c8041910d2  
Deleted: sha256:2b216a78326e73e7f5c704c9905f576c2499f117670caf5b41  
6eb8a88b616a45  
Deleted: sha256:b2d984eb28da3d83ec4259c552bb70b7eec2017c1b93e03a52  
76389cae2c0e76  
Deleted: sha256:697ff4d37a7b82b48adbe739972ae7cbdaefe721c82829933a  
86d5e6b787f179  
Deleted: sha256:15ea3998b3cf3293aa2fc0cbb8605921742ca17d6457e1fe  
065ff6ed0d7aeb  
Deleted: sha256:5382df0b73a6712d4018d9778149ea8915bf8ee43733bce998  
8beae42d87e082  
Deleted: sha256:beee9f30bc1f711043e78d4a2be0668955d4b761d587d6f60c  
2c8dc081efb203  
root@myVM:~/ghost-app# docker volume prune -f  
Deleted Volumes:  
baf3fd600becbc572f43e8b89e55d77da61f567c79cde1381315efe3610cffa3  
  
Total reclaimed space: 0B  
root@myVM:~/ghost-app# docker network prune -f  
root@myVM:~/ghost-app# docker container ls  
CONTAINER ID   IMAGE      COMMAND                  CREATED    STATUS    PORTS    N  
AMES  
root@myVM:~/ghost-app# cd ~  
root@myVM:~# docker image ls  
REPOSITORY    TAG        IMAGE ID      CREATED    SIZE  
root@myVM:~#
```