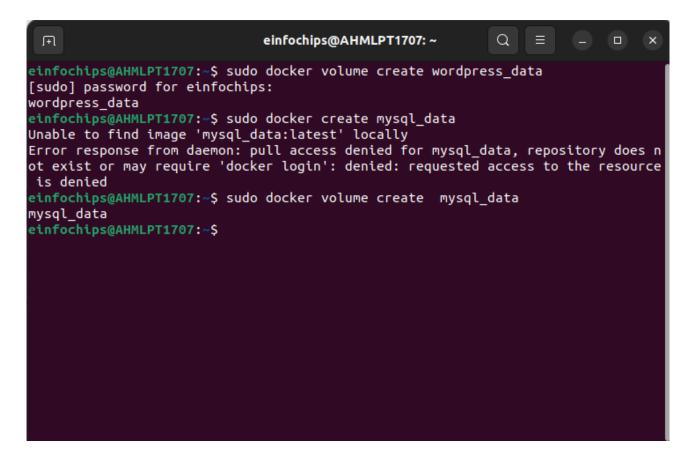
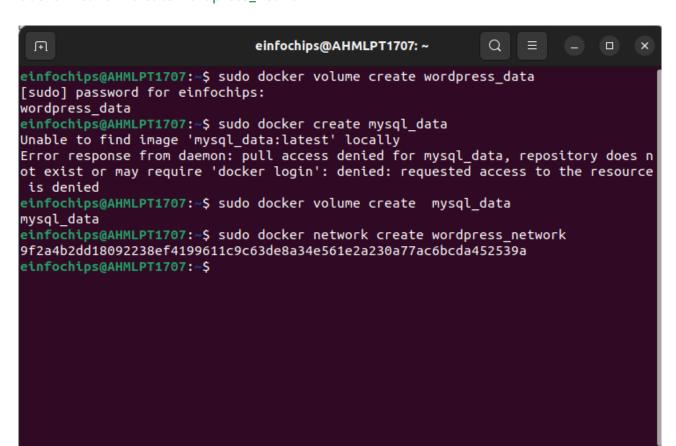
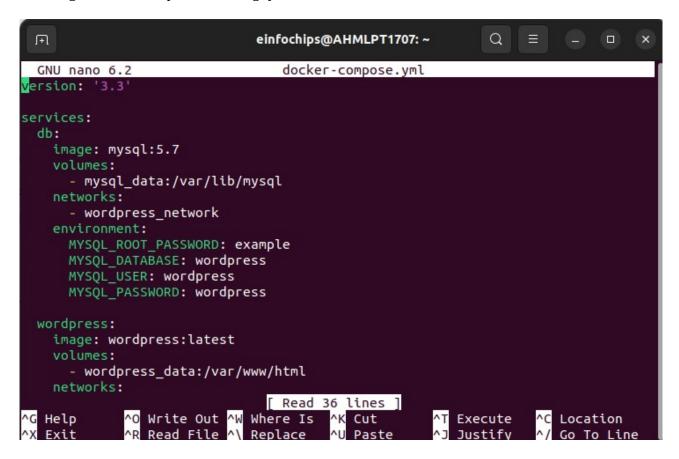
Create Docker Volumes



Create a docker network

docker network create wordpress_network





Deploy the application with docker compose

```
einfochips@AHMLPT1707: ~
                                                             Q
                                                                            einfochips@AHMLPT1707:~$ nano docker-compose.yml
einfochips@AHMLPT1707:~$ sudo docker-compose up -d
[sudo] password for einfochips:
[+] Running 34/2
 ✓ db 11 layers [: ] 0B/0B
✓ wordpress 21 layers [: ]
                                               Pulled
                                                     0B/0B
                                                                 Pulled
 ✓ Network einfochips_wordpress_network Created
 ✓ Volume "einfochips_wordpress_data"
                                          Created
 ✓ Volume "einfochips_mysql_data"
                                          Created

✓ Container einfochips-db-1

✓ Container einfochips-wordpress-1

                                          Started
einfochips@AHMLPT1707:~$ sudo docker-compose --version
[sudo] password for einfochips:
Docker Compose version v2.20.3
einfochips@AHMLPT1707:~$ sudo docker-compose ps
                                              COMMAND
NAME
                         IMAGE
                                                                        SERVICE
          CREATED
                               STATUS
                                                   PORTS
einfochips-db-1
                         mysql:5.7
                                              "docker-entrypoint.s..."
                                                                        db
                               Up 2 minutes
                                                   3306/tcp, 33060/tcp
          2 minutes ago
                         wordpress:latest
einfochips-wordpress-1
                                              "docker-entrypoint.s.."
                                                                        wordpress
          2 minutes ago
                              Up 2 minutes
                                                   0.0.0.0:8000->80/tcp, :::8000-
>80/tcp
 infochios@AHMLPT1707:~$
```

Viewing logs for specific services

```
einfochips@AHMLPT1707: ~
                                                                Q
                                                                      ≡
einfochips@AHMLPT1707:~$ sudo docker-compose logs wordpress
einfochips-wordpress-1 | WordPress not found in /var/www/html - copying now...
einfochips-wordpress-1 | Complete! WordPress has been successfully copied to /v
ar/www/html
einfochips-wordpress-1 | No 'wp-config.php' found in /var/www/html, but 'WORDPR
ESS_...' variables supplied; copying 'wp-config-docker.php' (WORDPRESS_DB_HOST W
ORDPRESS DB NAME WORDPRESS DB PASSWORD WORDPRESS DB USER)
einfochips-wordpress-1 | AH00558: apache2: Could not reliably determine the ser
ver's fully qualified domain name, using 172.19.0.3. Set the 'ServerName' direct
ive globally to suppress this message
einfochips-wordpress-1 | AH00558: apache2: Could not reliably determine the ser
ver's fully qualified domain name, using 172.19.0.3. Set the 'ServerName' direct
ive globally to suppress this message
einfochips-wordpress-1 | [Fri Jul 12 05:06:54.323011 2024] [mpm_prefork:notice]
[pid 1] AH00163: Apache/2.4.59 (Debian) PHP/8.2.21 configured -- resuming norma
l operations
einfochips-wordpress-1 | [Fri Jul 12 05:06:54.323040 2024] [core:notice] [pid 1 ] AH00094: Command line: 'apache2 -D FOREGROUND'
einfochips-wordpress-1 | 172.19.0.1 - - [12/Jul/2024:05:12:50 +0000] "GET / HTT
P/1.1" 302 405 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:127.0) Gecko/2010
0101 Firefox/127.0"
einfochips-wordpress-1 | 172.19.0.1 - - [12/Jul/2024:05:12:50 +0000] "GET /wp-a dmin/install.php HTTP/1.1" 200 4656 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64;
 rv:127.0) Gecko/20100101 Firefox/127.0"
```

Deploy and verifying the application using docker swarm

```
einfochips@AHMLPT1707: ~
                                                           Q
einfochips@AHMLPT1707:~$ touch docker-stack.yml
einfochips@AHMLPT1707:~S nano docker-stack.vml
einfochips@AHMLPT1707:~$ sudo docker stack deploy -c docker-stack.yml wordpress
stack
networks must be a mapping
einfochips@AHMLPT1707:~$ nano docker-stack.yml
einfochips@AHMLPT1707:~$ sudo docker stack deploy -c docker-stack.yml wordpress
stack
networks must be a mapping
einfochips@AHMLPT1707:~$ nano docker-stack.yml
einfochips@AHMLPT1707:~$ nano docker-stack.yml
einfochips@AHMLPT1707:~$ sudo docker stack deploy -c docker-stack.yml wordpress_
stack
Creating network wordpress stack wordpress network
Creating service wordpress stack db
Creating service wordpress stack wordpress
einfochips@AHMLPT1707:~$ sudo docker stack services wordpress_stack
                                           MODE
ID
               NAME
                                                        REPLICAS
                                                                    IMAGE
      PORTS
ryqjjvc2ec0u
              wordpress stack db
                                           replicated
                                                        0/1
                                                                   mysql:5.7
xzz98kipuszt
               wordpress stack wordpress
                                           replicated
                                                        0/1
                                                                   wordpress:lat
      *:8000->80/tcp
einfochips@AHMLPT1707:~S
```