KAN-54] Day 16: Task 7 - Complete the 4 different scenarios for creating 2 containers, providing secure access for		
Developers Created: 13/Nov/24 Updated: 14/Nov/24		
Status:	In Progress	
Project:	cloudweb	
Components:	None	
Affects versions:	None	
Fix versions:	None	

Type:	Task	Priority:	Medium
Reporter:	Gautham Srinivasan	Assignee:	Gautham Srinivasan
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified Not Specified		
Time Spent:			
Original estimate:	Not Specified		

Attachments:	image-20241114-164404.png
	162427.png image-20241114-164116.png image-20241114-164217.png image-20241114-163609.png image-
	20241114-163301.png image-20241114-162512.png image-20241114-163822.png image-20241114-160151.png
Rank:	0 i00065:i

Comments

Comment by Gautham Srinivasan [14/Nov/24]

scenario 1:

trouble shooting file

FROM ubuntu

MAINTAINER Akshiv

ENV DEBIAN_FRONTEND=noninteractive

RUN apt-get update && apt-get install -y apache2

RUN mkdir /var/run/apache2

ENV APACHE_RUN_GROUP www-data

ENV APACHE_LOG_DIR /var/log/apache2:q

ENV APACHE_RUN_DIR /var/run/apache2

EXPOSE 80

CMD ["/usr/sbin/apache2", "-D", "FOREGROUND"]

scenario 2:

1) Make directory in host machine [mkdir /opt/www] echo "welcome to docker" > /opt/www/index.html

```
[root@ip-172-31-19-133 /] # cd opt/www/
[root@ip-172-31-19-133 www] # ls
index.html
[root@ip-172-31-19-133 www] # cat index.html
welcome to docker
[root@ip-172-31-19-133 www] #
[root@ip-172-31-19-133 www] #
```

2)docker run -d -p "8085:80" --name=webserver -v "/opt/www:/var/www/html" httpdimage

```
[root@ip-172-31-19-133 www]# docker images
REPOSITORY
                    TAG
                              IMAGE ID
                                             CREATED
                                                            SIZE
httpdimage
                    latest
                              8789a719e28c
                                             21 hours ago
                                                            227MB
troubleshootimage
                              8789a719e28c
                   latest
                                             21 hours ago
                                                            227MB
[root@ip-172-31-19-133 www]# docker container ls
CONTAINER ID
             IMAGE
                            COMMAND
                                                     CREATED
                                                                    STATUS
                                                                                   PORTS
                            "/usr/sbin/apache2 -..."
0d45cb50089b
             httpdimage
                                                     11 hours ago
                                                                    Up 11 hours
                                                                                   0.0.0.0:8085->80/tcp, :::8085->80/tcp
[root@ip-172-31-19-133 www]#
```

check for the output in the port 8085



scenario 3: docker run -d --name db mysql

```
[ec2-user@ip-172-31-19-133 ~]$ sudo su
Last login: Thu Nov 14 15:58:21 UTC 2024 on pts/0 [root@ip-172-31-19-133 ~]# docker run -d --name db mysql
Unable to find image 'mysql:latest' locally latest: Pulling from library/mysql
fla9f94fc2db: Pull complete
f98254a2b688: Pull complete
6ad83e89f981: Pull complete
a42d733ea779: Pull complete
6fd1af2601dd: Pull complete
0233a63dc5cd: Pull complete
5f31e56c9bea: Pull complete
c0fb96d14e5b: Pull complete
d57074c62694: Pull complete
7030c241d9b8: Pull complete
Digest: sha256:2be51594eba5983f47e67ff5cb87d666a223e309c6c64450f30b5c59a788ea40
Status: Downloaded newer image for mysql:latest
02ca036775107cc89cb57441705c1c2ba1269bac77e4cb16cbb8734a2a8c6627
[root@ip-172-31-19-133 ~] # docker container ps
CONTAINER ID
                IMAGE
                              COMMAND
                                                          CREATED
                                                                           STATUS
                                                                                          PORTS
                               "/usr/sbin/apache2 -..."
                                                                                          0.0.0.0:8085->80/tcp, :::8085->80/tcp
0d45cb50089b
                httpdimage
                                                          11 hours ago
                                                                           Up 11 hours
[root@ip-172-31-19-133 ~] # docker ps -a
CONTAINER ID
                IMAGE
                               COMMAND
                                                          CREATED
                                                                             STATUS
02ca03677510
                mysql
                               "docker-entrypoint.s.."
                                                          22 seconds ago
                                                                             Exited (1) 21 seconds ago
0d45cb50089b
                httpdimage
                               "/usr/sbin/apache2 -..."
                                                                                                            0.0.0.0:8085->80/tcp,
                                                          11 hours ago
                                                                             Up 11 hours
[root@ip-172-31-19-133 ~]#
```

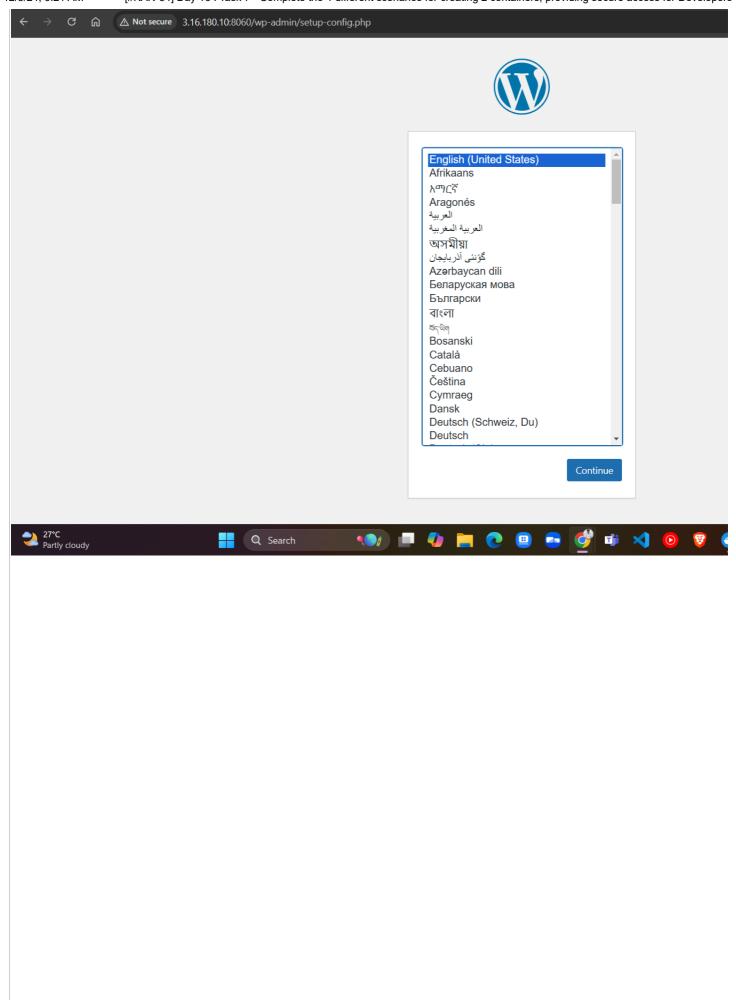
check logs for the error

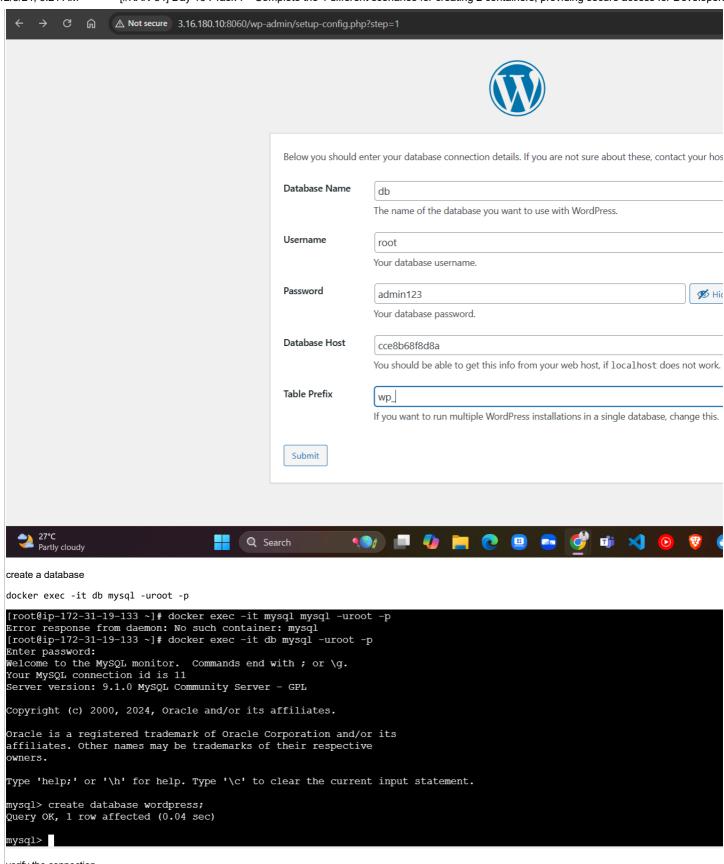
docker run -d --name db -e MYSQL ROOT PASSWORD=admin123 mysql

communication between 2 different container [1. mysql database is going to communicate to 2. Wordpress Application]

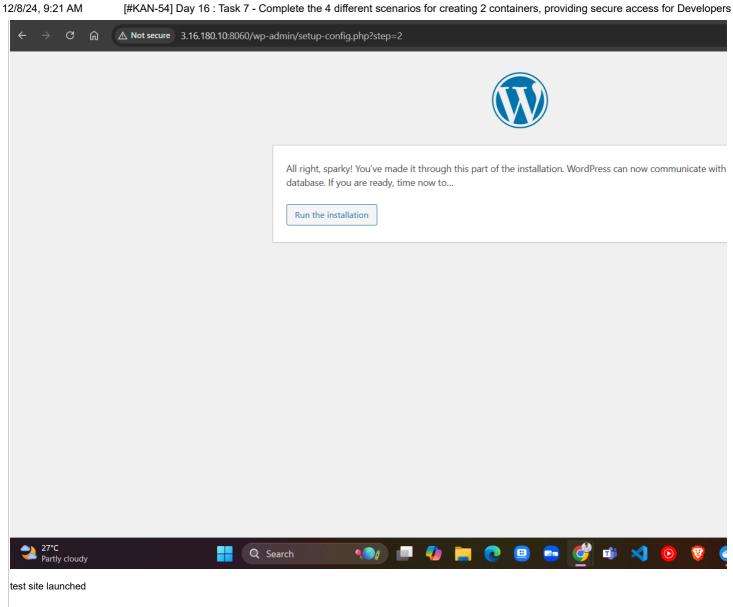
docker run -d --name myweb-server --link db:mysql -p "8060:80" wordpress

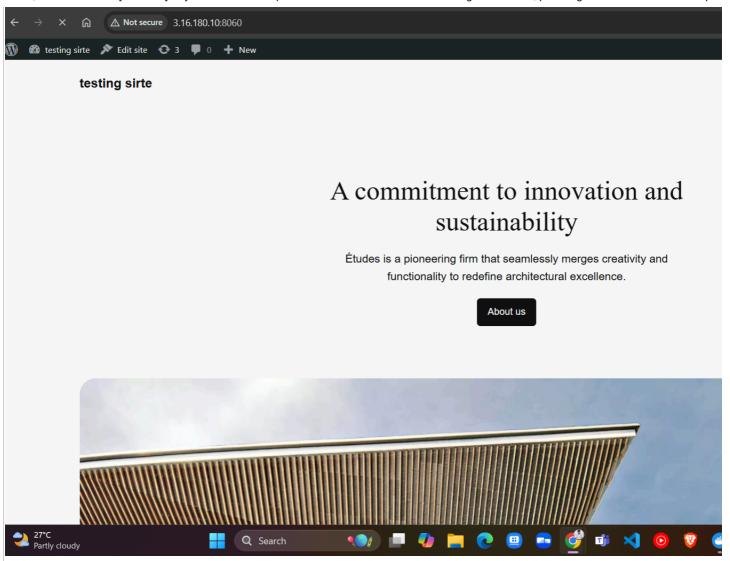
```
2024-11-14 16:23:53+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 9.1.0-1.el9 started.
2024-11-14 16:23:54+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2024-11-14 16:23:54+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 9.1.0-1.el9 started.
2024-11-14 16:23:54+00:00 [ERROR] [Entrypoint]: Database is uninitialized and password option is not specified
    You need to specify one of the following as an environment variable:
    - MYSQL_ROOT_PASSWORD
    - MYSQL_ALLOW_EMPTY_PASSWORD
    - MYSQL_RANDOM_ROOT_PASSWORD
[root@ip-172-31-19-133 ~]# docker rm db
[root@ip-172-31-19-133 ~]# docker run -d --name db -e MYSQL_ROOT_PASSWORD=admin123 mysql
cce8b68f8d8ab48b26fad05f0046964226890aa125bbb4676068189d227b242b
[root@ip-172-31-19-133 ~]# docker ps
CONTAINER ID
                                                          CREATED
               TMAGE
                              COMMAND
                                                                             STATUS
                                                                                             PORTS
                              "docker-entrypoint.s.."
ce8b68f8d8a
                mysql
                                                          10 seconds ago
                                                                             Up 9 seconds
                                                                                              3306/tcp, 33060/tcp
                              "/usr/sbin/apache2 -..."
0d45cb50089b
                httpdimage
                                                          11 hours ago
                                                                             Up 11 hours
                                                                                             0.0.0.0:8085->80/tcp, :::8085->80/
[root@ip-172-31-19-133 ~]# docker rm webserver
Error response from daemon: cannot remove container "/webserver": container is running: stop the container before remov
[root@ip-172-31-19-133 ~] # docker rm -f webserver
ebserver
[root@ip-172-31-19-133 ~] # docker run -d --name myweb-server --link db:mysql -p "8060:80" wordpress
Unable to find image 'wordpress:latest' locally latest: Pulling from library/wordpress
2d429b9e73a6: Pull complete
400f75d99009: Pull complete
e532b66579ca: Pull complete
9ac50b358b78: Pull complete
```





verify the connection





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