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Department of Computer Science & Engineering

Cloud Computing Lab (20CP322P)

B.Tech-Computer Science & Engineering (Sem-VI)

Lab 10 Assignment: Working on Docker Compose.

Aim: Create two containers named MYSQL and WordPress by using the docker compose file. Students should submit their docker-compose.yml file along with any additional configuration files or documentation they created.

Step 1: docker-compose.yml

```
version: '3.8'
services:
 db:
    image: mysql:5.7
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: example
     MYSQL_DATABASE: wordpress
     MYSQL_USER: wordpress
      MYSQL_PASSWORD: wordpress
    volumes:
      - db_data:/var/lib/mysql
  wordpress:
    depends_on:
      - db
    image: wordpress:latest
    ports:
     - "8000:80"
    restart: always
    environment:
      WORDPRESS_DB_HOST: db:3306
      WORDPRESS_DB_NAME: wordpress
      WORDPRESS_DB_USER: wordpress
      WORDPRESS_DB_PASSWORD: wordpress
    volumes:
      - wordpress_data:/var/www/html
volumes:
  db_data:
  wordpress_data:
```

Output:

```
[Entrypoint]: Entrypoint script for MySQL Server 5.7.44-1.el7 started.
[Entrypoint]: Switching to dedicated user "mySql' [Entrypoint]: Switching to dedicated user "mySql' [Entrypoint]: Entrypoint script for MySQL Server 5.7.44-1.el7 started.
[Entrypoint]: Initializing database files
arning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option
                                                                                                                                               g] Stid table is not ready to be used. Table 'mysql.gtid_executed' cannot be opened.
g] A deprecated TLS version TLSvL is enabled. Please use TLSvL.2 or higher.
g] A deprecated TLS version TLSvL is enabled. Please use TLSvL.2 or higher.
g] CA certificate ca.pem is self signed.
                                                                                                                                                                                                                   ca.pem is self signed.
is created with an empty password ! Please consider switching off the --initialize-insecure optic
           plete! WordPress has been successfully copied to /var/www/html
'wp-config.php' found in /var/www/html, but 'wordPress_...' variables supplied; copying 'wp-config-docker.php' (WORDPRESS_DB_HOST WORDPRESS_DB_NAME
                                        fig.php' found in /var/www/html, but 'wORDPRESS_... variables supplied, copying in to provide the 'serverName' directive globally to packet. Could not reliably determine the server's fully qualified domain name, using 192.168.32.3. Set the 'ServerName' directive globally to packet.
e
4M00558: apache2: Could not reliably determine the server's fully qualified domain name, using 192.168.32.3. Set the 'ServerName' directive globally to
       Tue Apr 16 17:48:50.733889 2024] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.57 (Debian) PHP/8.2.18 configured -- resuming normal operations
Tue Apr 16 17:48:50.734027 2024] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'
124-04-16 17:48:554-00:00 [Note] [Entrypoint]: Dathabase files initialized
124-04-16 17:48:554-00:00 [Note] [Entrypoint]: Starting temporary server
124-04-16 17:48:554-00:00 [Note] [Entrypoint]: Waiting for server startup
124-04-16 17:48:55-00:00 [Note] [Entrypoint]: Waiting for server startup
124-04-16 17:48:55-00:00 [Note] [TMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option
                          -16T17-48:56.088758Z 0 [Warning] TIMESTAMP with implicit DerAUCt value is Deprecated. The Second details).
-16T17:48:56.121237Z 0 [Note] mysqld (mysqld 5.7.44) starting as process 125 ...
-16T17:48:56.23808Z 0 [Note] InnoDB: NUTEWES and rw_locks use GCC atomic builtins
-16T17:48:56.23723Z 0 [Note] InnoDB: Mutewes and rw_locks use GCC atomic builtins
-16T17:48:56.23723Z 0 [Note] InnoDB: CCC builtin _atomic_thread_fence() is used for memory barrier
-16T17:48:56.23723Z 0 [Note] InnoDB: CCC builtin _atomic_thread_fence() is used for memory barrier
-16T17:48:56.23733Z 0 [Note] InnoDB: SCC builtin _atomic_thread_fence() is used for memory barrier
-16T17:48:56.23733Z 0 [Note] InnoDB: Using linux native ATO
-16T17:48:56.248717Z 0 [Note] InnoDB: Using CPU crc32 instructions
-16T17:48:56.30363Z 0 [Note] InnoDB: Using CPU crc32 instructions
-16T17:48:56.30363Z 0 [Note] InnoDB: Linux native ATO
-16T17:48:56.30363Z 0 [Note] InnoDB: Completed initialization of buffer pool
-16T17:48:56.30373Z 0 [Note] InnoDB: Completed initialization of buffer pool
-16T17:48:56.30373Z 0 [Note] InnoDB: Completed initialization of buffer pool
-16T17:48:56.53714ZZ 0 [Note] InnoDB: Completed initialization of buffer pool
-16T17:48:56.53714Z 0 [Note] InnoDB: Completed initialization of buffer pool
                                                                                                                                             InnoB8: If the mysqld execution user is authorized, page cleaner thread priority can be changed. See the man InnoB8: Highest supported file format is Barracuda. InnoB8: Creating shared tablespace for temporary tables InnoB8: Setting file './ibtmol' size to 12 MB. Physically writing the file full; Please wait ... InnoB8: Site in sow 12 MB. InnoB8: Setting file './ibtmol' size is now 12 MB. InnoB8: 32 non-redo rollback segment(s) found. 96 redo rollback segment(s) are active. InnoB8: 32 non-redo rollback segment(s) are active. InnoB8: 5.7.44 started; log sequence number 2769347 InnoB8: Loading buffer pool (s) from /var/lib/mysql/ib_buffer_pool Plugin' reEDERATED' is disabled. InnoB8: Buffer pool(s) load completed at 240416 17:48:56 Found ca.pem, server-cert.pem and server-key.pem in data directory. Trying to enable SSL support using them. Skipping generation of SSL certificates as certificate files are present in data directory. ng] A deprecated TLS version TLSV1.1 is enabled. Please use TLSV1.2 or higher.
```