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VIJAY M
Day-19
Date 02/09/25
Process of Containerizing and deploying webapi using docker
dockerfile
FROM mcr.microsoft.com/dotnet/aspnet:8.0 AS base
WORKDIR /app
EXPOSE 80
FROM mcr.microsoft.com/dotnet/sdk:8.0 AS build
WORKDIR /src
COPY ["MyApp/MyApp.csproj", "MyApp/"]
RUN dotnet restore "MyApp/MyApp.csproj"
COPY..
WORKDIR "/src/MyApp"
RUN dotnet build "MyApp.csproj" -c Release -o /app/build
FROM build AS publish
RUN dotnet publish "MyApp.csproj" -c Release -o /app/publish
FROM base AS final
WORKDIR /app
COPY --from=publish /app/publish.
ENTRYPOINT ["dotnet", "MyApp.dll"]
```

## command for build

docker build -t myapp.

## docker-compose.yml

```
version: '3.8'
services:
                myapp:
                                build:
                                               context: .
                                               dockerfile: Dockerfile
                                ports:
                                               - "8080:80"
                                environment:
                                               - ASPNETCORE_ENVIRONMENT=Production
Connection Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = sa; Password = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = sa; Password = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = sa; Password = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = sa; Password = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = sa; Password = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = sa; Password = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = sa; Password = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = sa; Password = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = sa; Password = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = your Strings \underline{\hspace{0.5cm}} Default Connection = Server = mydb; Database = MyDatabase; User = your Strings \underline{\hspace{0.5cm}} Default Connection = your Strings \underline{\hspace{0.5cm}} Defaul
rongPassword123!
                                depends_on:
                                               - mydb
                                networks:
                                               - myapp-network
                                restart: always
                mydb:
                                image: mcr.microsoft.com/mssql/server:2019-latest
                                container_name: sql-server
                                environment:
                                               - ACCEPT_EULA=Y
```

```
- SA_PASSWORD=yourStrongPassword123!
    ports:
       - "1433:1433"
    networks:
      - myapp-network
    volumes:
      - sql-data:/var/opt/mssql
    restart: always
networks:
  myapp-network:
    driver: bridge
volumes:
  sql-data:
    driver: local
command
docker-compose up --build
```

Output

```
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```
docker: default

| building 26.95 (15/15) FINISHED
| docker: default
| learner | learn
```