

Atividade de Gerência de Configuração - Docker

Professor: Sidartha Azevedo Lobo de Carvalho

Discente: Daniel Lucas Ulisses Magalhães

Construindo a imagem com **docker-compose build**

```
PS C:\Users\danie\OneDrive\Documentos\Daniel\universidade\4_semestre\GCM\docker-atividade> docker-compose build
[+] Building 7.1s (12/12) FINISHED
=> [todo-app internal] load build definition from Dockerfile
=> => transferring dockerfile: 527B
=> [todo-app internal] load metadata for docker.io/library/node:18
=> [todo-app auth] library/node:pull token for registry-1.docker.io
=> [todo-app internal] load .dockerignore
=> => transferring context: 2B
=> [todo-app internal] load build context
=> => transferring context: 44.68kB
=> [todo-app 1/6] FROM docker.io/library/node:18@sha256:7f31a1eb14c61719b8bb0eaa029310cc33851f71d3578cc422b390f8096977c5
=> CACHED [todo-app 2/6] WORKDIR /usr/src/app
=> CACHED [todo-app 3/6] COPY app/package.json ./
=> CACHED [todo-app 4/6] RUN npm install
=> [todo-app 5/6] COPY app/ ./
=> [todo-app 6/6] RUN mkdir /data
=> [todo-app] exporting to image
=> => exporting layers
=> => writing image sha256:09052f933908e03aa9a3c110c0c9e6631d97e9ef9250912d3410e57d53f40a11
=> => naming to docker.io/library/docker-atividade-todo-app
```

Subindo o container com **docker-compose up**

```
PS C:\Users\danie\OneDrive\Documentos\Daniel\universidade\4_semestre\GCM\docker-atividade> docker-compose up
[+] Running 3/3
 ✓ Network docker-atividade_default Created 0.2s
 ✓ Volume "docker-atividade_todo-data" Created 0.0s
 ✓ Container todo-list-container Created 0.2s
Attaching to todo-list-container
todo-list-container |
todo-list-container | > app@1.0.0 start
todo-list-container | > node index.js
todo-list-container | Server running on port 3000
```

Docker Desktop mostrando que o processo foi feito com êxito



Aplicação rodando na porta 3000 - **duas** atividades foram adicionadas ao to-do list



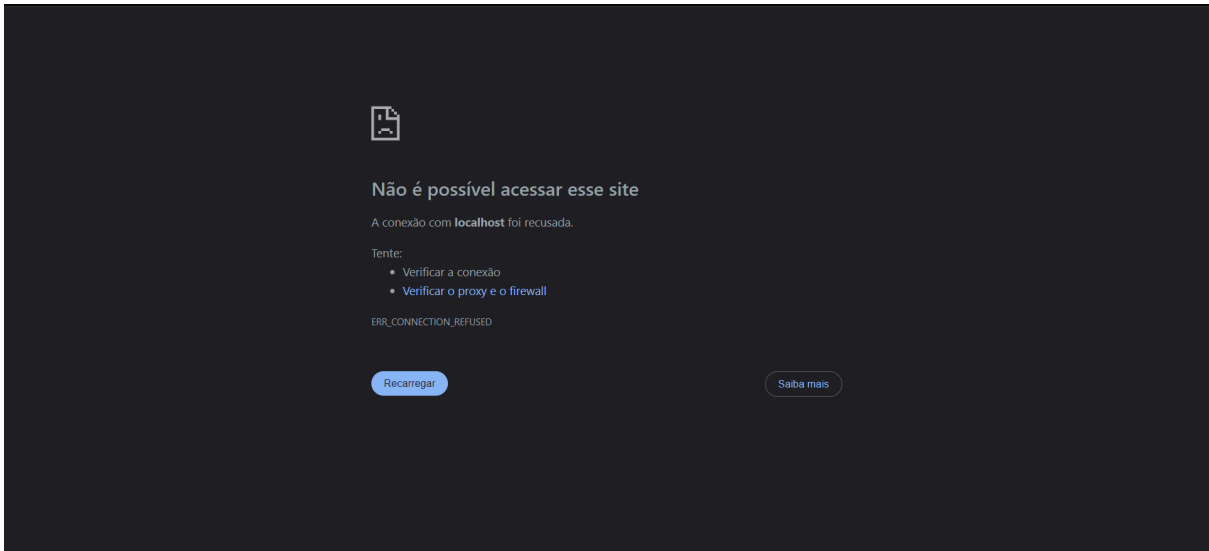
Fazendo teste para verificar a persistência dos dados, primeiro dando o **docker-compose down**

```
PS C:\Users\danie\OneDrive\Documentos\Daniel\universidade\4_semestre\GCM\docker-atividade> docker-compose down
[+] Running 2/2
 ✓ Container todo-list-container Removed 0.0s
 ✓ Network docker-atividade_default Removed 0.4s
```

Imagem da interface do **Docker desktop**, mostrando que o container não está mais lá

<input type="checkbox"/>	Port(s)	Name	Container ID	Image	CPU (%)	Last started	Actions
<input type="checkbox"/>	○ 8088:80	welcome-to-docker	5b85641ebec3	docker/welcome-to-c	N/A	14 days ago	
<input type="checkbox"/>	○ 5433:5432	pg	565af3240f40	postgres	N/A	6 days ago	
<input type="checkbox"/>	⦿ 3306:3307	root	441dd4ef3a6d	mysql:latest	N/A		
<input type="checkbox"/>	○ 3306:3306	meu-mysql	7aac986e659a	mysql:latest	N/A	4 months ago	

Tentando acessar o localhost na porta 3000



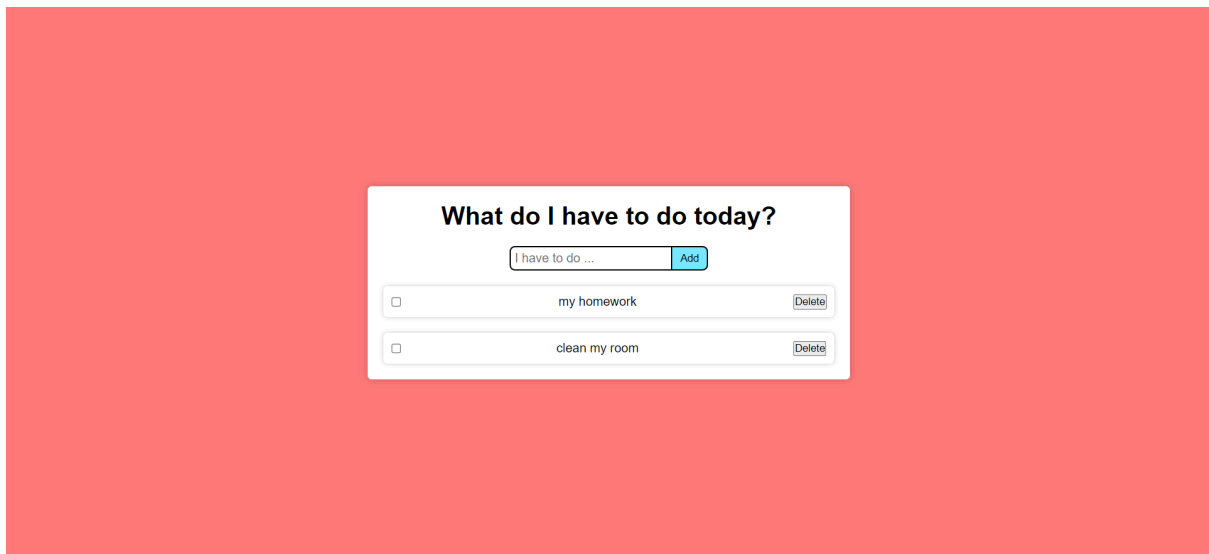
Reiniciando o container com ***docker-compose up***

```
PS C:\Users\danie\OneDrive\Documentos\Daniel\universidade\4_semestre\GCM\docker-atividade> docker-compose up
[+] Running 2/2
 ✓ Network docker-atividade_default Created                                0.2s
 ✓ Container todo-list-container Created                                  0.2s
Attaching to todo-list-container
todo-list-container |
todo-list-container | > app@1.0.0 start
todo-list-container | > node index.js
todo-list-container |
todo-list-container | Server running on port 3000
```

Interface do **Docker desktop**, o container voltou

<input type="checkbox"/>	Port(s)	Name	Container ID	Image	CPU (%)	Last started	Actions
<input type="checkbox"/>	○ 8088:80	welcome-to-docker	5b85641ebec3	docker/welcome-to-c	0%	14 days ago	
<input type="checkbox"/>	○ 5433:5432	pg	565af3240f40	postgres	0%	6 days ago	
<input type="checkbox"/>	⦿ 3306:3307	root	441dd4ef3a6d	mysql:latest	0%		
<input type="checkbox"/>	○ 3306:3306	meu-mysql	7aac986e659a	mysql:latest	0%	4 months ago	
<input type="checkbox"/> >	● -	docker-atividade	-	-	0%	53 seconds ago	<input type="checkbox"/>

Container reiniciado, voltando ao localhost na porta 3000 e as **duas** atividades adicionadas anteriormente continuam lá



docker ps para verificar os containers existentes

```
PS C:\Users\danie\OneDrive\Documentos\Daniel\universidade\4_semestre\GCM\docker-atividade> docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                    NAMES
69a9f9b30f92   docker-atividade-todo-app           "docker-entrypoint.s..." About a minute ago Up 6 seconds   0.0.0.0:3000->3000/tcp   todo-list-container
```

docker images para verificar as imagens existentes

```
PS C:\Users\danie\OneDrive\Documentos\Daniel\universidade\4_semestre\GCM\docker-atividade> docker images
REPOSITORY          TAG             IMAGE ID          CREATED          SIZE
docker-atividade-todo-app   latest          09052f933908     7 minutes ago   1.1GB
```

docker volume ls para verificar os volumes e **docker volume inspect** para verificar o volume específico que está sendo usado na aplicação

```
PS C:\Users\danie\OneDrive\Documentos\Daniel\universidade\4_semestre\GCM\docker-atividade> docker volume ls
DRIVER      VOLUME NAME
local       4c677d2502d8061675b231ff7287bdae4962a0492d15e82b1c94888b808d4ae5
local       6aa3c4ac641a47d3299c1d26fd26b4a44916f7426768f75982b13717cad16465
local       9f7873a64daaf268ffd914cd3263203bfd81640933fe9a548d00170c64ee50d9
local       647d1eda954788eea6a38d8d5f4886c25992af2d7918da9d318bd2bd575a78ed
local       4209102bda3cc7bd22dfdb73707a6c5fbcc5ff9f246ad59aad7f4ffd0bfc4cd4c
local       docker-atividade_todo-data
PS C:\Users\danie\OneDrive\Documentos\Daniel\universidade\4_semestre\GCM\docker-atividade> docker volume inspect docker-atividade_todo-data
[
  {
    "CreatedAt": "2024-12-30T15:33:05Z",
    "Driver": "local",
    "Labels": {
      "com.docker.compose.project": "docker-atividade",
      "com.docker.compose.version": "2.28.1",
      "com.docker.compose.volume": "todo-data"
    },
    "Mountpoint": "/var/lib/docker/volumes/docker-atividade_todo-data/_data",
    "Name": "docker-atividade_todo-data",
    "Options": null,
    "Scope": "local"
  }
]
```