

Tarea 3

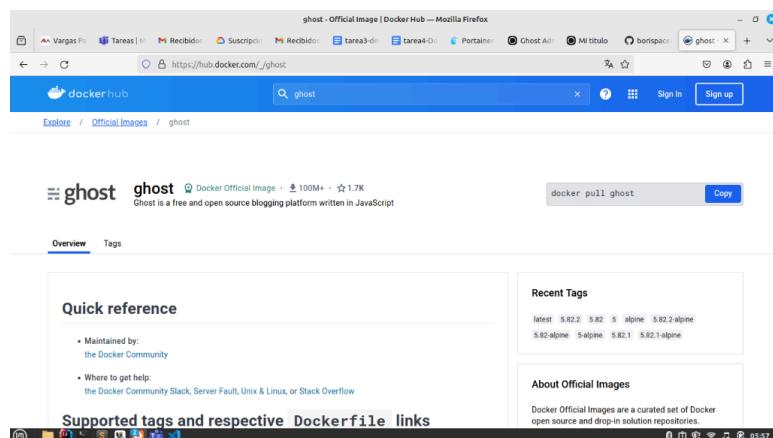
Despliegue utilizando Docker compose y Docker Hub

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Ingresar a Docker Hub (<https://hub.docker.com>), busque una imagen de una aplicación o sistema Web, por ejemplo puede utilizar el de Prestashop, Mediawiki, Drupal, Ghost, etc. que tenga al menos dos servicios (Web y Base de datos) y maneje volúmenes para los archivos y la base de datos por separado muy similar a la Wordpress (https://hub.docker.com/_/wordpress). Puede como sugerencia utilizar el ejemplo de contenido para el archivo **docker-compose.yml** que tiene la imagen en Docker Hub.

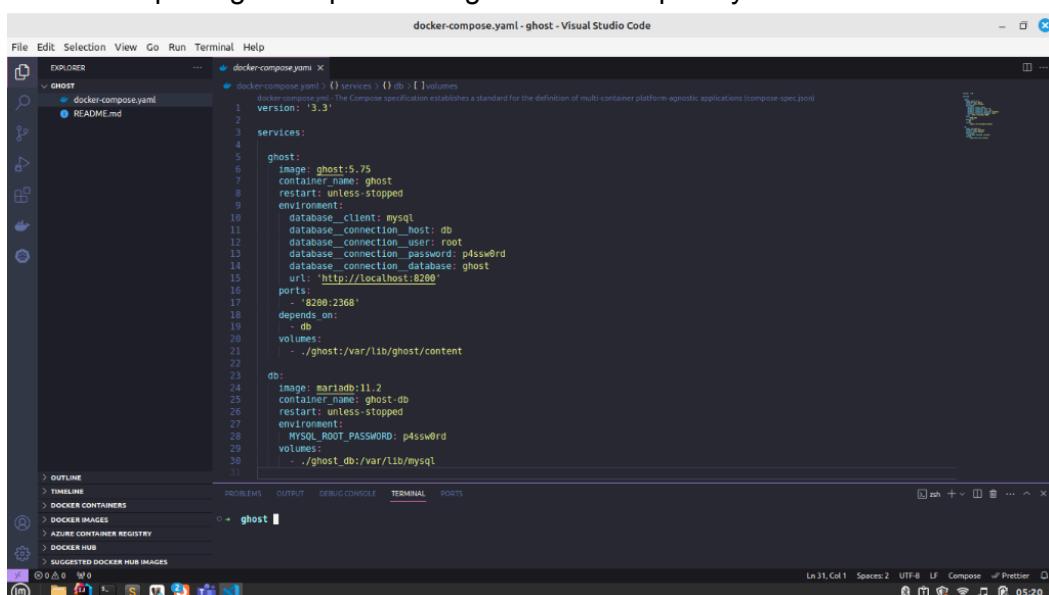
Debe documentar cada uno de los pasos realizados en un documento PDF donde puede apoyarse en textos y capturas de pantalla. El documento debe enviarse por este medio con el formato: nombres_apellidos_practica3.pdf.

SOLUCIÓN:



The screenshot shows the Docker Hub interface for the 'ghost' image. At the top, there's a search bar with 'ghost' typed into it. Below the search bar, the image card for 'ghost' is displayed, showing its name, a thumbnail, a download count of 100M+, and a size of 1.7K. A 'Copy' button is visible next to the image name. Below the card, there are tabs for 'Overview' and 'Tags'. The 'Overview' tab is selected, displaying a 'Quick reference' section with links to the Docker Community and Stack Overflow, and a 'Recent Tags' section listing various tags like 'latest', '9.82.2', and '9.82.1'. At the bottom, there's a 'Supported tags and respective Dockerfile links' section. The browser status bar at the bottom right shows the time as 05:57.

Creamos una carpeta “ghost” que contenga docker-compose.yaml



The screenshot shows a Visual Studio Code window with the file 'docker-compose.yaml' open. The code editor displays the following YAML configuration:

```
version: '3'
services:
  ghost:
    image: ghost:5.75
    container_name: ghost
    restart: unless-stopped
    environment:
      database_client: mysql
      database_connection_host: db
      database_connection_user: root
      database_connection_password: p4ssw0rd
      database_connection_database: ghost
      url: 'http://localhost:8200'
    ports:
      - 8200:2368
    depends_on:
      db
    volumes:
      - ./ghost:/var/lib/ghost/content
  db:
    image: mariadb:11.2
    container_name: ghost-db
    restart: unless-stopped
    environment:
      MYSQL_ROOT_PASSWORD: p4ssw0rd
    volumes:
      - ./ghost_db:/var/lib/mysql
```

The code editor has several toolbars and panels visible, including 'EXPLORER', 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', and 'PORTS'. The 'TERMINAL' tab is active, showing the command 'ghost'. The status bar at the bottom indicates the file has 31 lines and is saved.

Archivo docker-compose.yaml (Cambiar localhost por IP o dominio de su equipo)

```

version: '3.3'

services:

ghost:
  image: ghost:5.75
  container_name: ghost
  restart: unless-stopped
  environment:
    database_client: mysql
    database_connection_host: db
    database_connection_user: root
    database_connection_password: p4ssw0rd
    database_connection_database: ghost
    url: 'http://localhost:8200'
  ports:
    - '8200:2368'
  depends_on:
    - db
  volumes:
    - ./ghost:/var/lib/ghost/content

db:
  image: mariadb:11.2
  container_name: ghost-db
  restart: unless-stopped
  environment:
    MYSQL_ROOT_PASSWORD: p4ssw0rd
  volumes:
    - ./ghost_db:/var/lib/mysql

```

Ahora ejecutamos el comando:

- docker compose up -d

```

docker compose up -d
ghost docker compose up -d
[+] Running 6/28
  db           3c45521ddc29 Downloading [=====] 27.38MB/117MB Pulling
  ↘ 3c45521ddc29 Downloading [=====] 27.38MB/117MB Pulling
  ↘ e67f4890a49a Download complete
  ↘ f5358339c237 Download complete
  ↘ 91440817e7ec Download complete
  ↘ 1213a2a0a24a Download complete
  ↘ 60a393c153a3 Downloading [=====]
  ↘ 7d0a5a49080d Download complete
  ↘ 13bb83be799a Download complete
ghost           15.35MB/29.13MB Pulling
  ↘ 2f44d7a887fa Downloading [=====] 15.35MB/29.13MB Pulling
  ↘ 424ff738f5f5 Waiting
  ↘ b59fe9ac6c67 Waiting
  ↘ 3d933a2a2a2a Waiting
  ↘ 5783d15e0824 Waiting
  ↘ bcc0852a9ab8 Waiting
  ↘ 731cd3991d5d Waiting
  ↘ 60f1a2a2a2a2 Waiting
  ↘ 4f4fb708ef54 Waiting
  ↘ 1d965c2a0f50 Waiting

```

Verificamos la creación de los contenedores:

- docker compose ps

```
Archivo Editor Ver Buscar Terminal Ayuda
+ ghost docker compose up -d
WARN [0000] /home/boris/Escritorio/DESARROLLO/Modulo_5/tarea3/ghost/docker-compose.yaml: 'version' is obsolete
[!] Running 2/29
  db [layers]          0B/0B    Pulled
  ✓ 65464392329 Pull complete
  ✓ e5748904048 Pull complete
  ✓ f3538339e237 Pull complete
  ✓ 81448817e7ec Pull complete
  ✓ f1f813676592 Pull complete
  ✓ 68a383333349 Pull complete
  ✓ 70353a949dd0 Pull complete
  ✓ 138b83b7e99a Pull complete
ghost 9 layers [██████████]  0B/0B    Pulled
  ✓ 2f44d7a888fa Pull complete
  ✓ 424ff7385f58 Pull complete
  ✓ 731cd38915d5 Pull complete
  ✓ 8a25ddc8f594 Pull complete
  ✓ 5783d3eb624 Pull complete
  ✓ bcc0652a9ab8 Pull complete
  ✓ 731cd38915d5 Pull complete
  ✓ d9f176071301 Pull complete
  ✓ 141476091451 Pull complete
  ✓ 1d965ca8f58 Pull complete
[!] Running 2/3
  Network ghost default Created
  Container ghost_db Started
  Container ghost Started
+ ghost docker compose ps
WARN [0000] /home/boris/Escritorio/DESARROLLO/Modulo 5/tarea3/ghost/docker-compose.yaml: 'version' is obsolete
[!] Running 2/3
      IMAGE           COMMAND            SERVICE   CREATED          STATUS        PORTS
ghost      ghost:5.7   "docker-entrypoints..."  ghost     11 seconds ago  Up 3 seconds  0.0.0.0:8200->2308/tcp, :::8200->2308/tcp
ghost_db  mariadb:11.2 "docker-entrypoints..."  ghost_db  15 seconds ago  Up 10 seconds  3306/tcp
```

Verificamos La Red y Volumen:

- docker network ls
 - docker volume ls

```
boris@lmint:~/Escritorio/DESARROLLO/Modulo_5/tarea3/ghost
```

```
Archivo Editor Ver Buscar Terminal Ayuda
+ ghost docker network ls
NETWORK ID      NAME        DRIVER      SCOPE
19c51dd97ed    bridge      bridge      local
15100e680be1   ghost_default bridge      local
21cd7c19c076   host        host        local
ghost           host        host        local
ghost           none        null       local
ghost           mysql        bridge      local
ghost           mongo        bridge      local
ghost           mongo_db    bridge      local
ghost           mysql_db    bridge      local
ghost           none        null       local
95dacc9909c0   pl_db       bridge      local
gf0a75622d0c   ptnetwork   bridge      local
a54d6e32bab3   simplephmvic_default bridge      local

+ ghost docker volume ls
DRIVER    VOLUME NAME
local     34086c3e507fcaaa3f1bc07b9980aad93f8a1cfc1e90be5196aacdb4bb
local     dae309f517f2f4f6de686dbd75fbc8246b3a1df568cde7988ecdb28c27086da
local     f30c267b5a59468cc290f5feddd17d4c7fa8cc4fd1d4dc47bcdadba23c90c7
local     mysql
local     pl_myridb
local     portainer_data
local     postgresql_data
local     simplephmvic_mysql-data
+ ghost
```

Verificamos en portainer.d

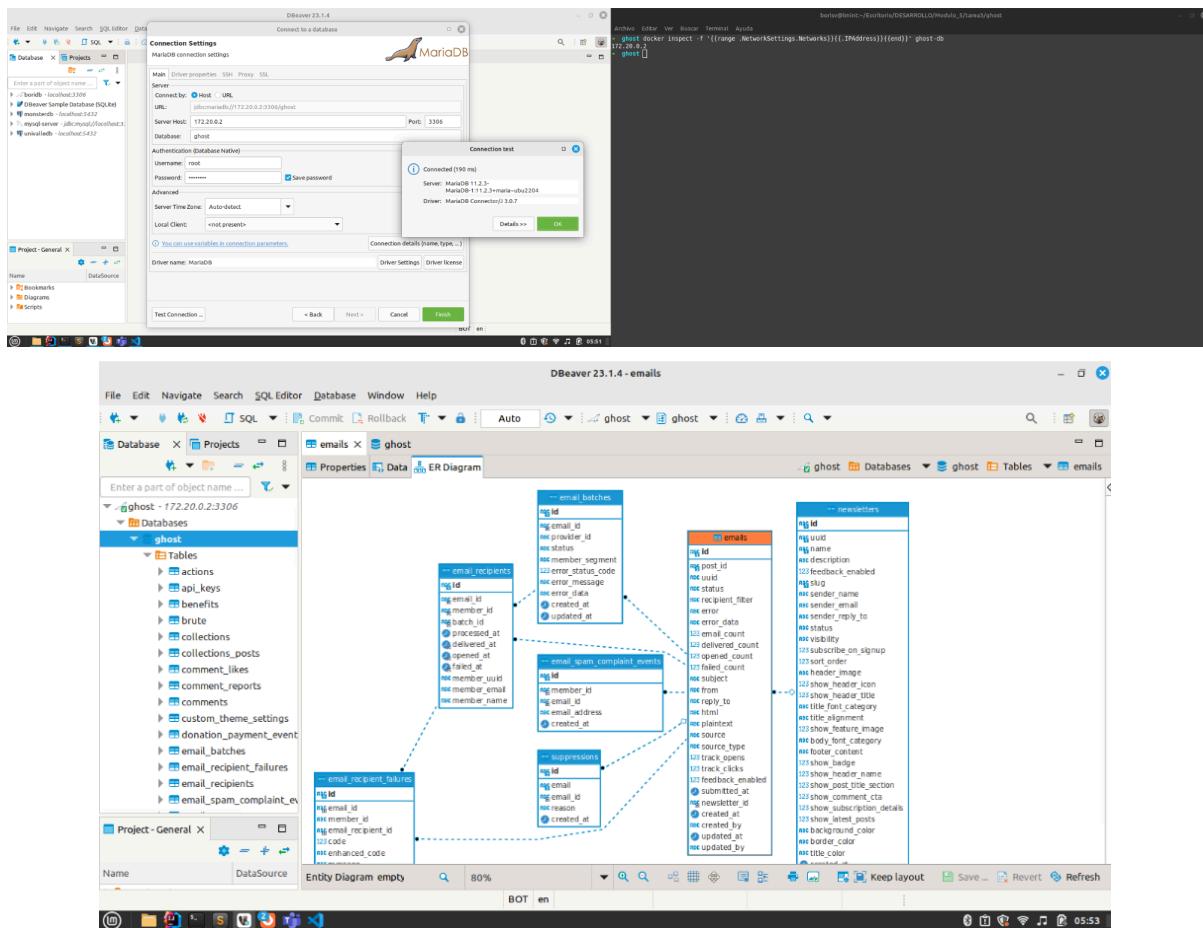
The screenshot shows the Portainer interface for managing Docker stacks. The left sidebar is titled "portainer.io COMMUNITY EDITION" and includes links for Home, local (which is selected), Dashboard, App Templates, and Stacks. The Stacks link is highlighted with a blue background. The main content area shows a stack named "ghost". The "Stack details" section indicates it was created outside of Portainer. The "Containers" table lists two entries:

Name	State	Image	Created	IP Address	Published Ports	Ownership
ghost	running	ghost:5.75	2024-04-25 05:24:39	172.20.0.3	8200-2368	administrator
ghost-db	running	mariadb:11.2	2024-04-25 05:24:35	172.20.0.2	-	administrator

At the bottom right, there are buttons for "Items per page" (set to 10) and a dropdown menu.

Verificamos la conexión con la base de datos

- ```
- docker inspect -f '{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}' ghost-db
```



Nos dirigimos a la dirección: <http://localhost:8200/ghost/>

**Site title**  
Mi sitio

**Full name**  
Boris Vargas

**Email address**  
borisvargaspaucara@gmail.com

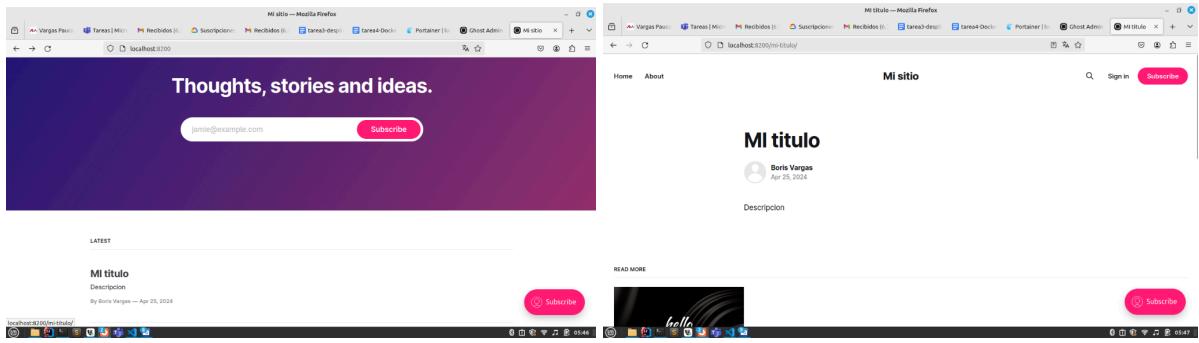
**Password**  
\*\*\*\*\*

**Preview**

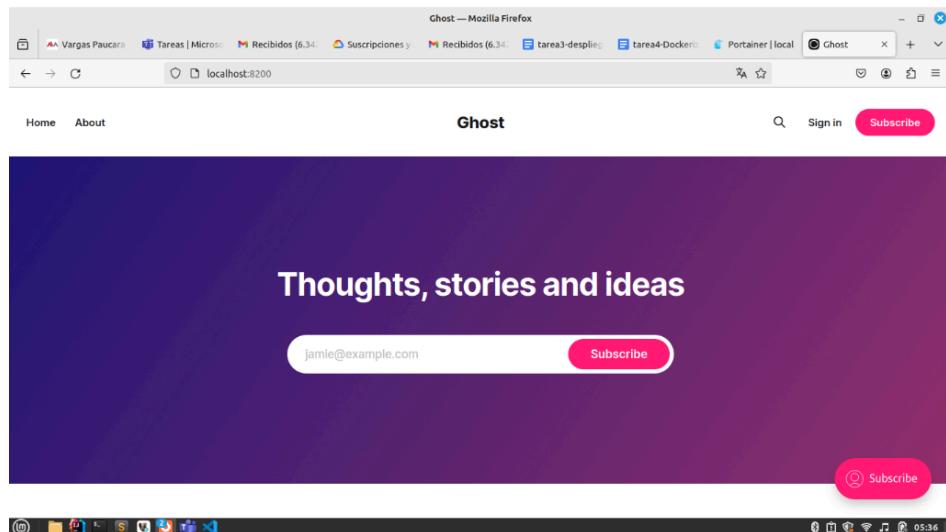
**Editor**

**Mi título**

Boom. It's out there. That's 2 posts published, keep going!



Probamos la web de GHOST:



Repositorio de proyecto:

- <https://github.com/borispacex/tarea3-ghost>