

# La Red del Dictador: La ley de la censura

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## 1. Instalar Docker

Actualiza el sistema y añade Docker:

- sudo apt update && sudo apt upgrade -y

```
pi@rp1G2-srv:~ $ sudo apt update && sudo apt upgrade -y
```

- curl -sSL https://get.docker.com | sh

```
pi@rp1G2-srv:~ $ curl -sSL https://get.docker.com | sh
```

- sudo usermod -aG docker \$USER

```
pi@rp1G2-srv:~ $ sudo usermod -aG docker $USER
```

Reinicia para aplicar permisos:

- sudo reboot

```
pi@rp1G2-srv:~ $ sudo reboot
```

Comprueba que funciona:

- docker run hello-world

```
pi@rp1G2-srv:~ $ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
198f93fd5094: Pull complete
Digest: sha256:56433a6be3fda188089fb548eae3d91df3ed0d6589f7c2656121b911198df065
Status: Downloaded newer image for hello-world:latest
```

```
Hello from Docker!
This message shows that your installation appears to be working correctly.
```

```
To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (arm64v8)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.
```

```
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
```

```
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/
```

```
For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

## 2. Crear el volumen y red para Pi-hole

- docker volume create pihole\_etc

```
pi@rp1G2-srv:~ $ docker volume create pihole_etc  
pihole_etc
```

- docker volume create pihole\_dnsmasq

```
pi@rp1G2-srv:~ $ docker volume create pihole_dnsmasq  
pihole_dnsmasq
```

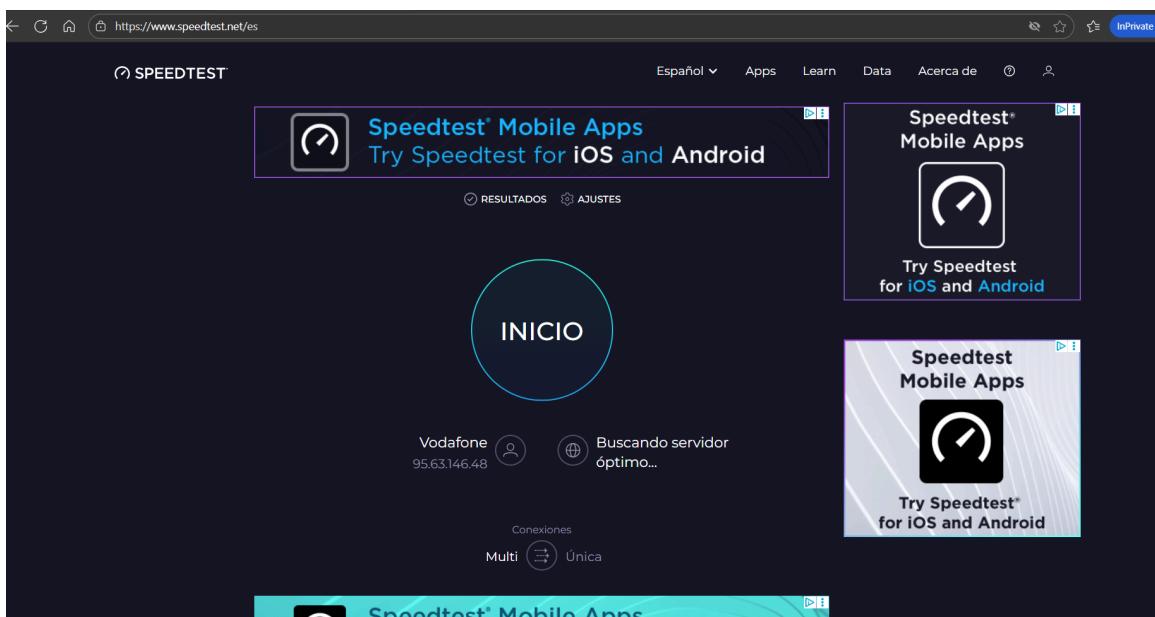
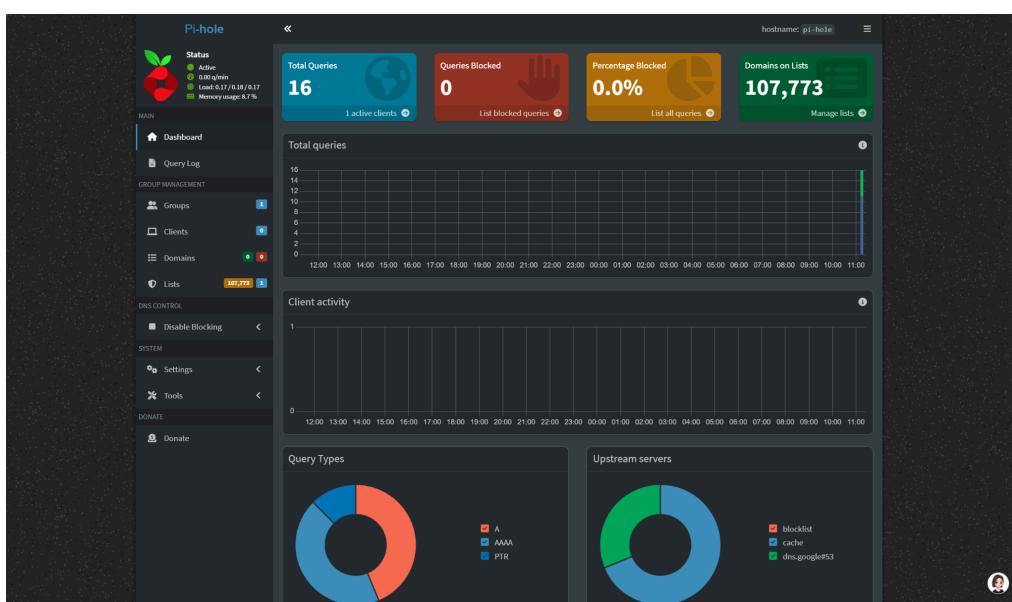
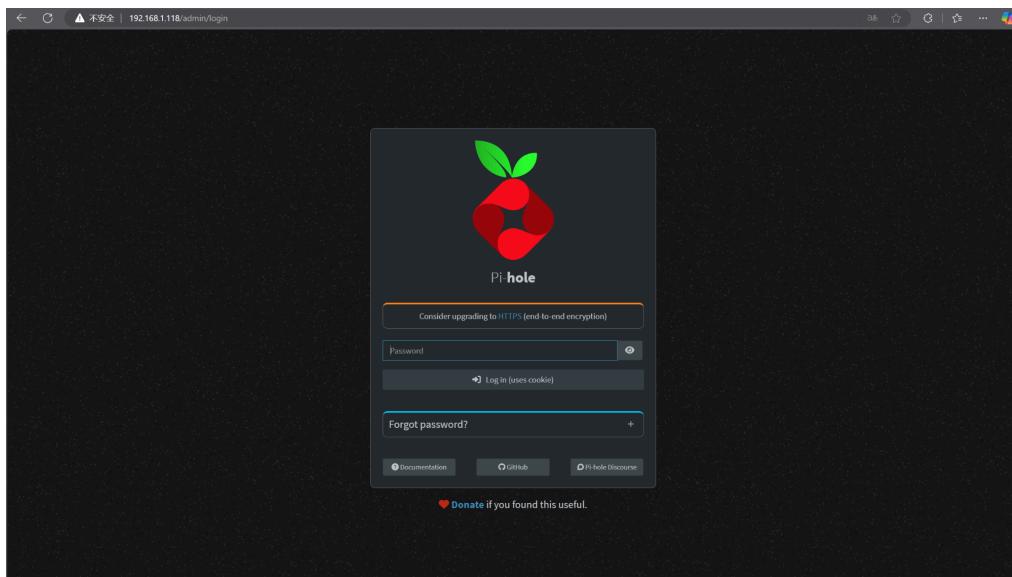
### 3. Ejecutar Pi-hole con Docker

- docker run -d \  
    --name pihole \  
    --restart=unless-stopped \  
    -e TZ="Europe/Madrid" \  
    -e WEBPASSWORD="tu\_contraseña\_segura" \  
    -e DNSMASQ\_LISTENING=all \  
    -v pihole\_etc:/etc/pihole \  
    -v pihole\_dnsmasq:/etc/dnsmasq.d \  
    -p 53:53/tcp -p 53:53/udp \  
    -p 80:80/tcp \  
    --hostname pi-hole \  
    --dns=127.0.0.1 --dns=1.1.1.1 \  
    pihole/pihole:latest

```
pi@rp1G2-srv:~ $ docker run -d \  
> --name pihole \  
> --restart=unless-stopped \  
> -e TZ="Europe/Madrid" \  
> -e WEBPASSWORD="Abcd1234" \  
> -e DNSMASQ_LISTENING=all \  
> -v pihole_etc:/etc/pihole \  
> -v pihole_dnsmasq:/etc/dnsmasq.d \  
> -p 53:53/tcp -p 53:53/udp \  
> -p 80:80/tcp \  
> --hostname pi-hole \  
> --dns=127.0.0.1 --dns=1.1.1.1 \  
> pihole/pihole:latest  
Unable to find image 'pihole/pihole:latest' locally  
latest: Pulling from pihole/pihole  
6b59a28fa201: Pull complete  
2b604c974219: Pull complete  
4f4fb700ef54: Pull complete  
c99479331001: Pull complete  
806d26b6a108: Pull complete  
f21685148900: Pull complete  
f620324cd4be: Pull complete  
4e53ed67873e: Pull complete  
6af40a389340: Pull complete  
dcbccb0d5b7e: Pull complete  
b1a7d0b86191: Pull complete  
Digest: sha256:e28e239f55e648a9d32c8f065650acfe987ddebef1cd5f64f1c071e8716156ceb  
Status: Downloaded newer image for pihole/pihole:latest  
WARNING: Localhost DNS (127.0.0.1) may fail in containers.  
cf76492d3a17330ff478f8dec183c5803c0acf23095bf92b1245e34cfcb7fed
```

Después de unos segundos, abre en el navegador:

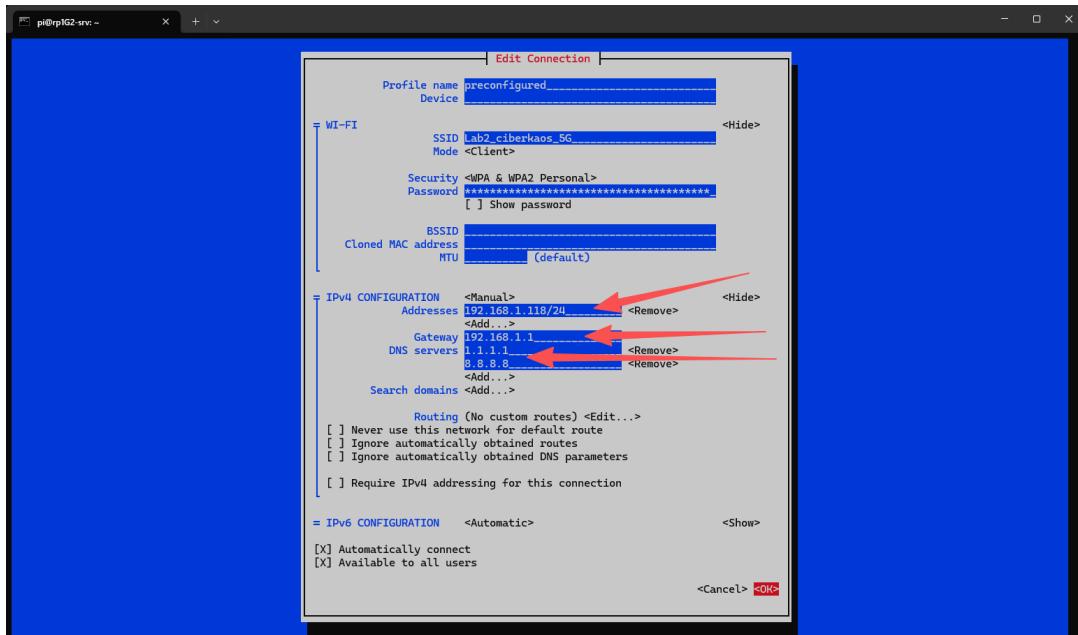
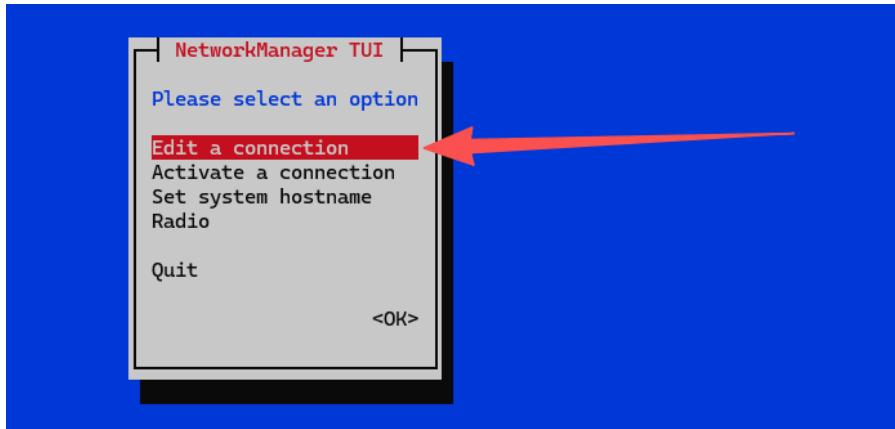
- [http://<IP\\_de\\_tu\\_Raspberry>/admin](http://<IP_de_tu_Raspberry>/admin)



#### 4. Configurar IP estática

- sudo nmtui

```
pi@rp1G2-srv:~ $ sudo nmtui
```



#### 5. Crea carpeta del proyecto

Crea un archivo : /home/pi/pihole/docker-compose.yml

```
pi@rp1G2-srv:~ $ mkdir pihole  
pi@rp1G2-srv:~ $ cd pihole
```

```
pi@rp1G2-srv:~ $ cd pihole  
pi@rp1G2-srv:~/pihole $ sudo nano docker-compose.yml
```

```

GNU nano 8.4                                            docker-compose.yml *
services:
  pihole:
    container_name: pihole
    image: pihole/pihole:latest
    restart: unless-stopped
    network_mode: "host"
    environment:
      TZ: "Europe/Madrid"
      WEBPASSWORD: "ciberkaos"
      PIHOLE_DNS_: "1.1.1.1;8.8.8.8"
    volumes:
      - "./etc-pihole:/etc/pihole"
      - "./etc-dnsmasq.d:/etc/dnsmasq.d"
    cap_add:
      - NET_ADMIN

```

Eliminar contenedores antiguos

- sudo docker rm -f pihole

```

pi@rplG2-srv:~/pihole $ sudo docker rm -f pihole
pihole

```

Lánzalo

- sudo docker compose up -d

```

pi@rplG2-srv:~/pihole $ sudo docker compose up -d
[+] Running 1/1
  ✓ Container pihole  Started

```

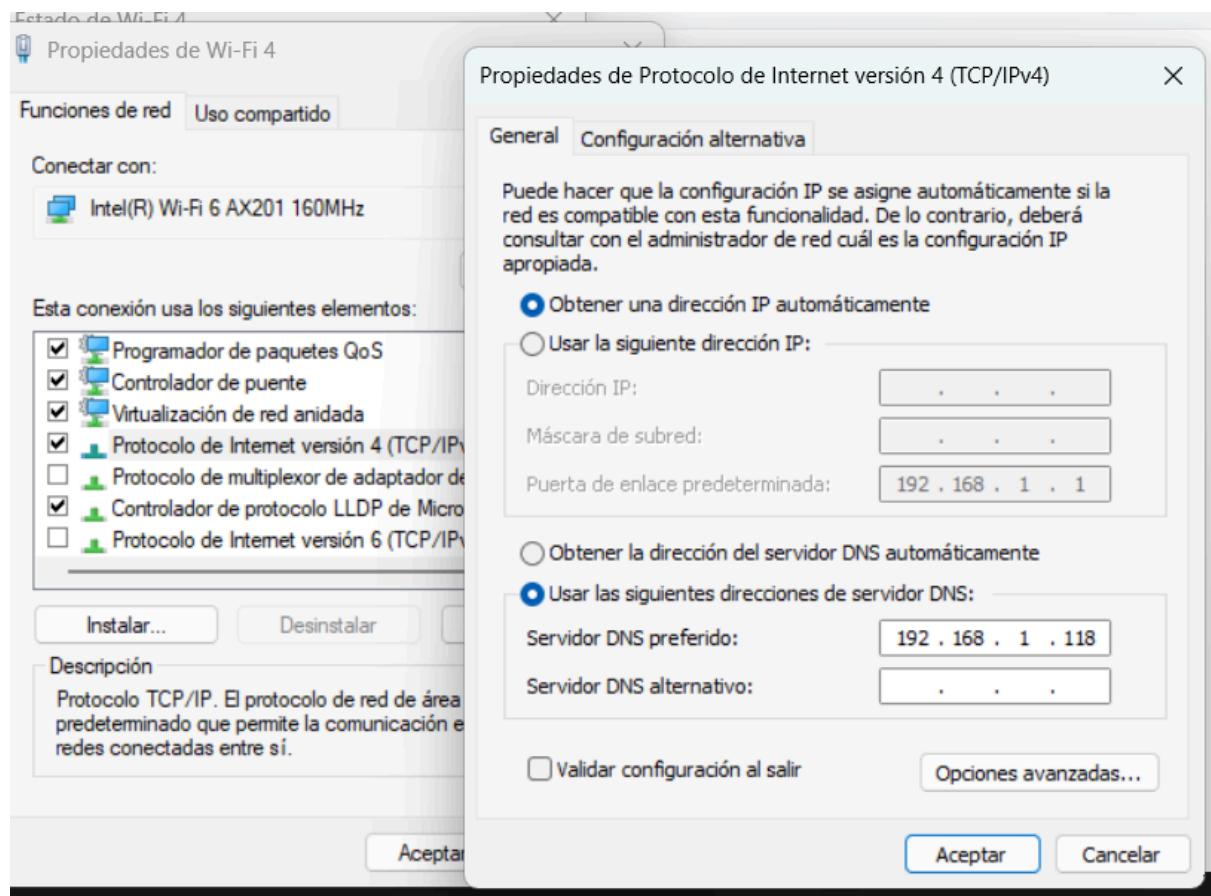
Comprueba si está funcionando

- docker ps

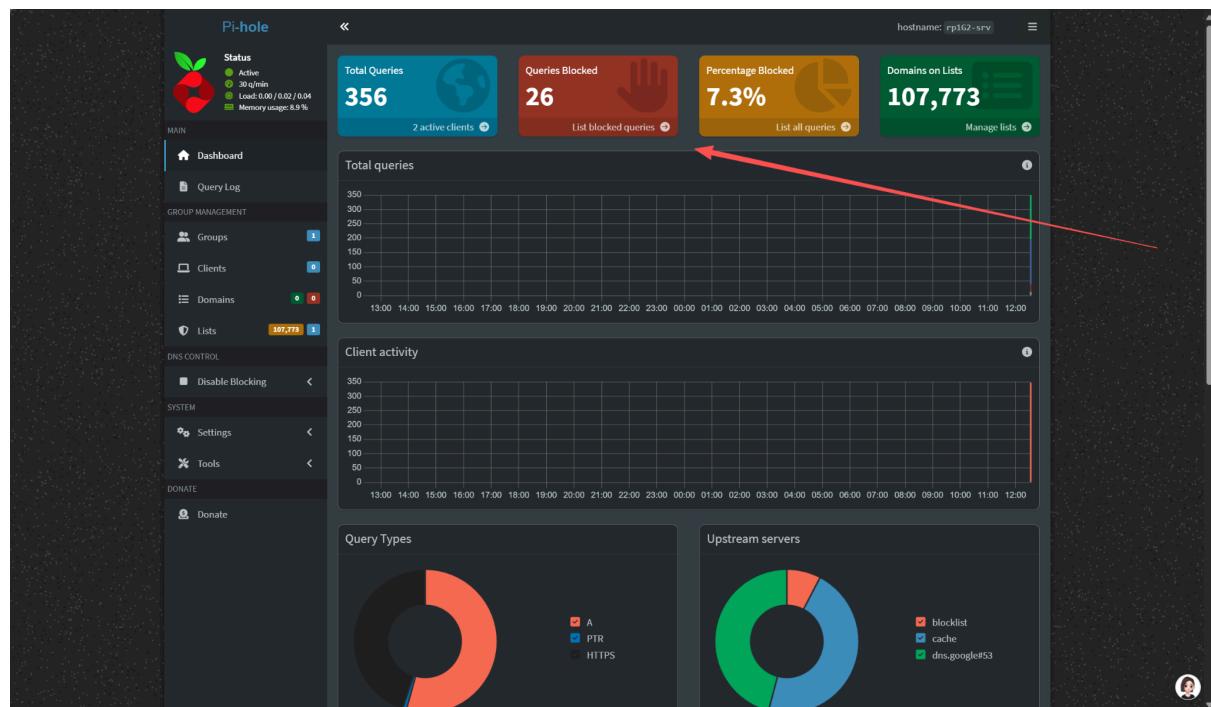
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
5a82ff235485	pihole/pihole:latest	"start.sh"	2 minutes ago	Up 2 minutes (healthy)		pihole

Para comprobar ponemos como dns

la ip de nuestra raspberry



Podemos ver como ya esta funcionamiento y está bloqueando anuncios



Entramos a la página de speedtest y vemos como ya no sale publicidad.

## Speedtest by Ookla - The Global Broadband Speed Test

