PRACTICA 3 Proxy

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Docker compose

```yaml
version: '3.8'

services:
  webserver:
    image: nginx:stable
    container_name: practica_webserver
    volumes:
      - ./webserver/nginx.conf:/etc/nginx/conf.d/default.conf:ro
      - ./webserver/index.html:/usr/share/nginx/html/index.html:ro
    networks:
      - pract_net

  proxy:
    image: nginx:stable
    container_name: practica_proxy
    ports:
      - "80:80"
    volumes:
      - ./proxy/nginx.conf:/etc/nginx/conf.d/default.conf:ro
    networks:
      - pract_net

networks:
  pract_net:
    driver: bridge
```

Nginx config (proxy):

```
server {
listen 80;
server_name example-proxy;


location / {
proxy_set_header Host $host;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_pass http://webserver:8080;
}



add_header X-Proxy "Proxy_gerard";
}
```

Nginx config (webserver):

```
server {
listen 8080;
server_name webserver;


root /usr/share/nginx/html;
index index.html;


location / {
try_files $uri $uri/ =404;
}



add_header X-Backend "Servidor_web_vostre_nom";
}
```
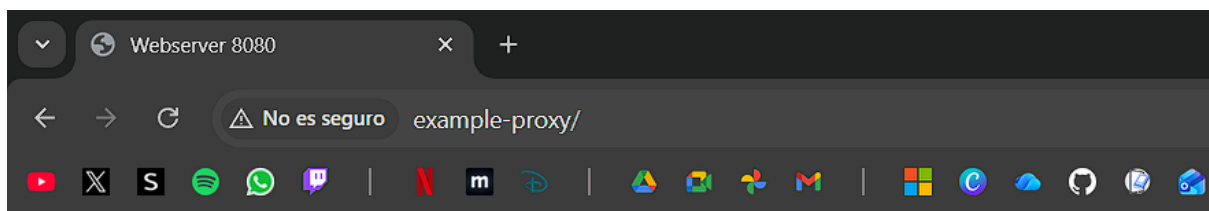
Arxiu hosts:

```
# Added by Docker Desktop
192.168.1.14     host.docker.internal
192.168.1.14     gateway.docker.internal
127.0.0.1        kubernetes.docker.internal
127.0.0.1        example-proxy


# End of section
|
```

Eixida:

Webserver 8080   ×   +

← → C   ⚠ No es seguro   example-proxy/

Servidor web: webserver (porta 8080)

Pagina servida por **webserver**.

Logs proxy:

```
172.21.0.1 - - [17/Oct/2025:09:04:54 +0000] "GET / HTTP/1.1" 200 217 "-" "Mozilla/5.0 (Windows NT; Windows NT 10.0; es-ES) WindowsPowerShell/5.1.26100.6584"
"-"
172.21.0.1 - - [17/Oct/2025:09:05:09 +0000] "GET / HTTP/1.1" 200 217 "-" "Mozilla/5.0 (Windows NT; Windows NT 10.0; es-ES) WindowsPowerShell/5.1.26100.6584"
"-"
172.21.0.1 - - [17/Oct/2025:09:05:32 +0000] "GET / HTTP/1.1" 200 217 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) C
hrome/141.0.0.0 Safari/537.36" "-"
172.21.0.1 - - [17/Oct/2025:09:05:32 +0000] "GET /favicon.ico HTTP/1.1" 404 555 "http://example-proxy/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebK
it/537.36 (KHTML, like Gecko) Chrome/141.0.0.0 Safari/537.36" "-"
PS C:\Windows\System32\drivers\etc> |
```

Logs webserver:

```
172.21.0.2 - - [17/Oct/2025:09:04:54 +0000] "GET / HTTP/1.0" 200 217 "-" "Mozilla/5.0 (Windows NT; Windows NT 10.0; es-ES) WindowsPowerShell/5.1.26100.6584"
"172.21.0.1"
172.21.0.2 - - [17/Oct/2025:09:05:09 +0000] "GET / HTTP/1.0" 200 217 "-" "Mozilla/5.0 (Windows NT; Windows NT 10.0; es-ES) WindowsPowerShell/5.1.26100.6584"
"172.21.0.1"
172.21.0.2 - - [17/Oct/2025:09:05:32 +0000] "GET / HTTP/1.0" 200 217 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) C
hrome/141.0.0.0 Safari/537.36" "172.21.0.1"
172.21.0.2 - - [17/Oct/2025:09:05:32 +0000] "GET /favicon.ico HTTP/1.0" 404 555 "http://example-proxy/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebK
it/537.36 (KHTML, like Gecko) Chrome/141.0.0.0 Safari/537.36" "172.21.0.1"
PS C:\Windows\System32\drivers\etc> |
```