Práctica 1.1. Instalación de Nginx en el sistema Ubuntu



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1. Describe con tus palabras:

- ¿Qué ventajas tiene un servidor web virtual frente a un servidor web 'real'?

En el caso de nginx es estable, sencillo, son pocos recursos los que se necesitan, brinda mejor calidad de servicios, por el dominio y su alta seguridad, gratuito y de alto rendimiento y escalabilidad.

2. Instalar y configurar un servidor web Nginx.

- Instala el paquete.

```
javiepi@ubusrv-jepi:~$ sudo systemctl status nginx

• nginx.service - A high performance web server and a reverse proxy server

Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)

Active: active (running) since Wed 2021-12-01 17:24:37 UTC; 15s ago

Docs: man:nginx(8)

Process: 1701 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited,>
Process: 1712 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0>

Main PID: 1715 (nginx)

Tasks: 2 (limit: 2279)

Memory: 2.6M

CGroup: /system.slice/nginx.service

—1715 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;

1717 nginx: worker process

dic 01 17:24:37 ubusrv-jepi systemd[1]: Starting A high performance web server and a reverse proxy >

dic 01 17:24:37 ubusrv-jepi systemd[1]: Started A high performance web server and a reverse proxy s>

lines 1-15/15 (END)
```

Indica el fichero de configuración principal.

El fichero de configuración principal se encuenta en /etc/nginx/default

- Indica a quién afecta

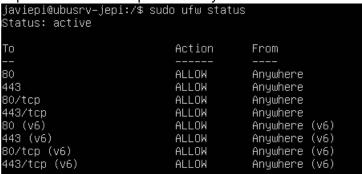
Le afecta a todo el document root

3. ¿Cuál es el puerto por defecto por el que escucha Nginx?

El puerto por defecto es el puerto 80 y el de conexión segura es el puerto 443.

4. Aplica seguridad al servidor activando el firewall (ufw) y añadiendo las reglas adecuadas para que escuche solo por los puertos de los servicios que tenéis instalados hasta ahora.

Aquí he activado los puertos 80 y 443



5. En el directorio raiz por defecto (/var/www) crea una página de prueba básica (index.html).

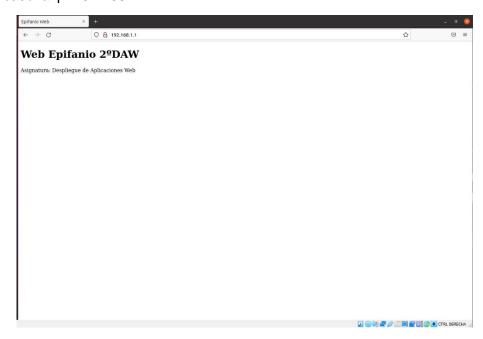
- Accede desde el navegador usando la IP del servidor web. Debe mostrarse la página index.html del directorio raiz. Captura pantalla funcionando:

http://localhost (en el propio servidor)

- Accede ahora usando el nombre del servidor; escribe en el navegador:

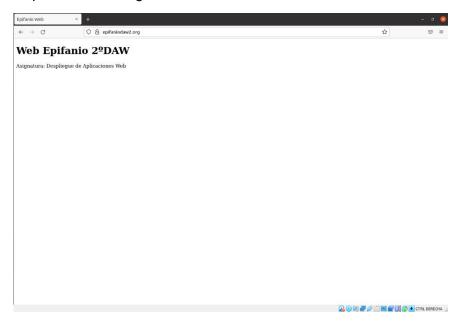
http://LalPdetuservidorweb (desde cualquier máquina cliente)

En mi caso la ip: 192.168.1.1



http://www.[tuapellido]DAW2.org. (desde cualquier máquina cliente)

En mi caso epifanioDAW2.org



Nota: Para el último caso debe estar bien configurado el fichero /etc/hosts o debe estar funcionando correctamente el servicio DNS (debe existir una entrada o registro de tipo alias (CNAME) para 'www' en el archivo de zona directa) .

 a) La configuración de la ruta donde se buscará el index.html que queremos mostrar se indica con la directiva root que se indica en el fichero default de configuración en sites-avaiable,

Muestra la captura con su valor

```
GNU nano 4.8
                                        /etc/nginx/sites-available/default
server
         listen 80 default_server;
        listen [::]:80 default_server;
        # SSL configuration
        # listen 443 ssl default_server;
# listen [::]:443 ssl default_server;
        # Note: You should disable gzip for SSL traffic.
        # See: https://bugs.debian.org/773332
        # Read up on ssl_ciphers to ensure a secure configuration.
        # See: https://bugs.debian.org/765782
        # Don't use them in a production server!
        # include snippets/snakeoil.conf;
        root /var/www/html/epifanio/;
        # Add index.php to the list if you are using PHP index index.html index.htm index.nginx-debian.html;
        server name :
                 # First attempt to serve request as file, then
                 # as directory, then fall back to displaying a 404.
try_files $uri $uri/ =404;
```

b) ¿Cuál es el fichero de log para el servicio?

log para accesos error.log y los dos estan /var/log/nginx

- ¿Qué directiva lo indica?

```
GNU nano 4.8
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```

- Escribe el comando para visualizar sus últimas 20 líneas .

tail -20 access.log

```
javiepi@ubusrv-jepi:/$ sudo tail -20 /var/log/nginx/error.log
2021/12/01 17:23:23 [emerg] 1602#1602: bind() to 0.0.0.0:80 failed (98: Address already in use)
2021/12/01 17:23:23 [emerg] 1602#1602: bind() to [::]:80 failed (98: Address already in use)
2021/12/01 17:23:23 [emerg] 1602#1602: bind() to 0.0.0.0:80 failed (98: Address already in use)
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```