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Liberta Audio est un service de diffusion audio (musique, podcasts, etc.) similaire à Spotify, Deezer, etc. basé sur le logiciel libre Funkwhale.

Liberta Audio vous offre 5 Go de stockage pour votre musique et vos podcasts (attention de bien disposer des droits de diffusion de vos contenus !), organisés en chaînes et en audiothèques.

Le logiciel est fédéré et permet de suivre et interagir avec les utilisateurs d'autres instances de Funkwhale disséminées sur la planète, si Liberta Audio a décidé de suivre ces instance.

N'hésitez pas à consulter la documentation de Funkwhale.

Machine virtuelle

- 2 CPU, 2 Go de mémoire
- Système d'exploitation : Debian stable
- Stockage des données : ZFS sur l'hyperviseur, monté en NFS.

Configuration

Funkwhale est installé via la méthode classique « Non-Docker ».

Le fichier de configuration principal `/var/www/funkwhale/config/.env` :

```
FUNKWHALE_API_IP=127.0.0.1
FUNKWHALE_API_PORT=(privé)
FUNKWHALE_WEB_WORKERS=4
FUNKWHALE_HOSTNAME=audio.liberta.vip
FUNKWHALE_PROTOCOL=https
TYPESENSE_API_KEY=(privé)
EMAIL_CONFIG=smtp+tls://libertadmin@liberta.vip:(privé)@(privé):587
ACCOUNT_EMAIL_VERIFICATION_ENFORCE=true
DEFAULT_FROM_EMAIL=libertadmin@liberta.vip
REVERSE_PROXY_TYPE=nginx
DATABASE_URL=postgresql://(privé):(privé)@192.168.10.6:5432/(privé)
CACHE_URL=redis://192.168.10.5:6379/(privé)
MEDIA_ROOT=/var/www/funkwhale/data/media
STATIC_ROOT=/var/www/funkwhale/data/static
DJANGO_SETTINGS_MODULE=config.settings.production
DJANGO_SECRET_KEY=(privé)
RAVEN_ENABLED=true
RAVEN_DSN=https://(privé):(privé)@sentry.eliotberriot.com/(privé)
MUSIC_DIRECTORY_PATH=/var/www/funkwhale/data/music
MUSIC_DIRECTORY_SERVE_PATH=/var/www/funkwhale/data/music
FUNKWHALE_FRONTEND_PATH=/var/www/funkwhale/front/dist
NGINX_MAX_BODY_SIZE=4000M
```

Le fichier de configuration du serveur HTTP Nginx `/etc/nginx/sites-enabled/funkwhale.conf` :

```
upstream funkwhale-api {
    server 127.0.0.1:(privé);
}
server {
    listen 80;
    listen [::]:80;
    server_name audio.liberta.vip;
    location / {
        return 301 https://$host$request_uri;
    }
}
map $http_upgrade $connection_upgrade {
    default upgrade;
    ''      close;
}
server {
    listen      443 ssl http2;
    listen [::]:443 ssl http2;
    charset     utf-8;
    server_name audio.liberta.vip;
    ssl_protocols TLSv1.2;
    ssl_ciphers HIGH:!MEDIUM:!LOW:!aNULL:!NULL:!SHA;
    ssl_prefer_server_ciphers on;
    ssl_session_cache shared:SSL:10m;
    ssl_certificate     /etc/letsencrypt/live/liberta.vip/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/liberta.vip/privkey.pem;
    add_header Strict-Transport-Security "max-age=31536000";
    add_header Content-Security-Policy "default-src 'self'; connect-src
https: wss: http: ws: 'self' 'unsafe-eval'; script-src 'self' 'wasm-unsafe-
eval'; style-src https: http: 'self' 'unsafe-inline'; img-src https: http:
'self' data:; font-src https: http: 'self' data:; media-src https: http:
'self' data:; object-src 'none'";
    add_header Referrer-Policy "strict-origin-when-cross-origin";
    add_header X-Frame-Options "SAMEORIGIN" always;
    add_header Service-Worker-Allowed "/";
    root /var/www/funkwhale/front/dist;
    gzip on;
    gzip_comp_level    5;
    gzip_min_length    256;
    gzip_proxied       any;
    gzip_vary          on;
    gzip_types
        application/javascript
        application/vnd.geo+json
        application/vnd.ms-fontobject
        application/x-font-ttf
        application/x-web-app-manifest+json
        font/opentype
        image/bmp
        image/svg+xml
        image/x-icon
```

```
        text/cache-manifest
        text/css
        text/plain
        text/vcard
        text/vnd.rim.location.xloc
        text/vtt
        text/x-component
        text/x-cross-domain-policy;
    location /api/ {
        include /etc/nginx/funkwhale_proxy.conf;
        client_max_body_size 4000M;
        proxy_pass   http://funkwhale-api;
    }
    location / {
        alias /var/www/funkwhale/front/dist/;
        expires 1d;
        try_files $uri $uri/ /index.html;
    }
    location = /embed.html {
        add_header Content-Security-Policy "connect-src https: http: 'self';
default-src 'self'; script-src 'self' unpkg.com 'unsafe-inline' 'unsafe-
eval'; style-src https: http: 'self' 'unsafe-inline'; img-src https: http:
'self' data:; font-src https: http: 'self' data:; object-src 'none'; media-
src https: http: 'self' data:";
        add_header Referrer-Policy "strict-origin-when-cross-origin";
        alias /var/www/funkwhale/front/dist/embed.html;
        expires 1d;
    }
    location /federation/ {
        include /etc/nginx/funkwhale_proxy.conf;
        proxy_pass   http://funkwhale-api;
    }
    location /rest/ {
        include /etc/nginx/funkwhale_proxy.conf;
        proxy_pass   http://funkwhale-api/api/subsonic/rest/;
    }
    location /.well-known/ {
        include /etc/nginx/funkwhale_proxy.conf;
        proxy_pass   http://funkwhale-api;
    }
    location /media/__sized__/ {
        alias /var/www/funkwhale/data/media/__sized__/;
        add_header Access-Control-Allow-Origin '*';
    }
    location /media/attachments/ {
        alias /var/www/funkwhale/data/media/attachments/;
        add_header Access-Control-Allow-Origin '*';
    }
    location ~ /_protected/media/(.+) {
        internal;
        add_header Access-Control-Allow-Origin '*';
```

```
    }
    location /_protected/music/ {
        internal;
        alias   /var/www/funkwhale/data/music/;
        add_header Access-Control-Allow-Origin '*';
    }
    location /manifest.json {
        return 302 /api/v1/instance/spa-manifest.json;
    }
}
```

Mises à jour

Un simple script Shell est utilisé pour « automatiser » le processus :

Le fichier `funkwhale_upgrade.sh` :

```
#!/bin/sh
export FUNKWHALE_VERSION="1.3.0"
cd /var/www/funkwhale
sudo -u (privé) curl -L -o front.zip
"https://dev.funkwhale.audio/funkwhale/funkwhale/builds/artifacts/$FUNKWHALE
_VERSION/download?job=build_front"
sudo -u (privé) unzip -o front.zip
sudo -u (privé) rm front.zip
sudo -u (privé) curl -L -o "api-$FUNKWHALE_VERSION.zip"
"https://dev.funkwhale.audio/funkwhale/funkwhale/-
/jobs/artifacts/$FUNKWHALE_VERSION/download?job=build_api"
sudo -u (privé) unzip "api-$FUNKWHALE_VERSION.zip" -d extracted
sudo -u (privé) rm -rf api/
sudo -u (privé) mv extracted/api .
sudo -u (privé) rm -rf extracted
api/install_os_dependencies.sh install
sudo -u (privé) -H -E /var/www/funkwhale/virtualenv/bin/pip install --
upgrade pip wheel
sudo -u (privé) -H -E /var/www/funkwhale/virtualenv/bin/pip install --
editable ./api
sudo -u (privé) -H -E /var/www/funkwhale/virtualenv/bin/funkwhale-manage
collectstatic --no-input
systemctl stop funkwhale-beat funkwhale-worker funkwhale-server
curl -L -o "/etc/systemd/system/funkwhale.target"
"https://dev.funkwhale.audio/funkwhale/funkwhale/raw/$FUNKWHALE_VERSION/depl
oy/funkwhale.target"
curl -L -o "/etc/systemd/system/funkwhale-server.service"
"https://dev.funkwhale.audio/funkwhale/funkwhale/raw/$FUNKWHALE_VERSION/depl
oy/funkwhale-server.service"
curl -L -o "/etc/systemd/system/funkwhale-worker.service"
"https://dev.funkwhale.audio/funkwhale/funkwhale/raw/$FUNKWHALE_VERSION/depl
oy/funkwhale-worker.service"
curl -L -o "/etc/systemd/system/funkwhale-beat.service"
```

```
"https://dev.funkwhale.audio/funkwhale/funkwhale/raw/$FUNKWHALE_VERSION/deploy/funkwhale-beat.service"
sed -i -e 's@/srv/funkwhale@/var/www/funkwhale@g' -e 's@User=.*$@User=(privé)@g' -e 's@venv/bin@virtualenv/bin@g' -e '/^After=.*$/d' /etc/systemd/system/funkwhale-*.service
systemctl daemon-reload
sudo -u (privé) -H -E /var/www/funkwhale/virtualenv/bin/funkwhale-manage migrate
systemctl start funkwhale-server funkwhale-worker funkwhale-beat
systemctl restart nginx
```

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