Configurer Nginx pour GeoNature

Installer les domaines de GeoNature

- Notes : dans notre exemple, nous utiliserons un adresse web de type *<alias>.<domaine-sinp>* (Ex. : expert.silene.eu) comme adresse principale de GeoNature. L'adresse web *geonature.<domaine-sinp>* (Ex: geonature.silene.eu) devra être redirigé vers *<alias>.<domaine-sinp>*.
- Créer un fichier de configuration : `vi /etc/nginx/sites-available/geonature.conf`
- Y placer le contenu suivant :

```
server {
    listen 80;
    listen [::]:80;

    server_name <alias>.<domaine-sinp>;
    root /home/geonat/www/geonature/frontend/dist;

    location ^~ "/api/" {
        proxy_set_header X-Forwarded-Host $host:$server_port;
        proxy_set_header X-Forwarded-Server $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;

        # WARNING: up timeout to 300s for Synthese downloading (See bug
)
        # Set timeout like Gunicorn in GeoNature config/settings.ini
file
        proxy_read_timeout 300s;
        proxy_connect_timeout 75s;
        proxy_pass http://127.0.0.1:8000/;# ATTENTION : bien mettre un
slash final ! Sinon => 404
    }
}
```

- Créer un lien depuis les sites actifs : `cd /etc/nginx/sites-enabled/ ; ln -s ../sites-available/geonature.conf geonature.conf`
- Tester la config et relancer Nginx si OK : `nginx -t && nginx -s reload`
- Tester l'URL http://geonature.<domaine-sinp>/ qui doit afficher une erreur 502 si le serveur *Gunicorn* de GeoNature n'est pas lancé.
    - Vérifier les services supervisés par Supervisor : `supervisorctl status`
    - Démarrer le service *GeoNature* : `supervisorctl start geonature2`
    - Arrêter le service *GeoNature* : `supervisorctl stop geonature2`

Activer SSL et HTTP2 pour GeoNature

- Installer un certificat SSL via Certbot (Letsencrypt) : `certbot --nginx -d <alias>.<domaine-sinp> -d geonature.<domaine-sinp>`
    - Ex. pour PACA : '' certbot –nginx -d expert.silene.eu -d geonature.silene.eu ''
    - Ex. pour AURA : '' certbot –nginx \
    1. d taxons.biodiversite-aura.fr -d taxhub.biodiversite-aura.fr \
    2. d taxons.biodiversite-aura.com -d taxhub.biodiversite-aura.com \
    3. d taxons.biodiversite-aura.eu -d taxhub.biodiversite-aura.eu \
    4. d taxons.biodiversite-aura.net -d taxhub.biodiversite-aura.net \
    5. d taxons.biodiversite-aura.org -d taxhub.biodiversite-aura.org \
    6. d taxons.biodiversite-auvergne-rhone-alpes.com -d taxhub.biodiversite-auvergne-rhone-alpes.com \
    7. d taxons.biodiversite-auvergne-rhone-alpes.eu -d taxhub.biodiversite-auvergne-rhone-alpes.eu \
    8. d taxons.biodiversite-auvergne-rhone-alpes.net -d taxhub.biodiversite-auvergne-rhone-alpes.net \
    9. d taxons.biodiversite-auvergne-rhone-alpes.org -d taxhub.biodiversite-auvergne-rhone-alpes.org \
    10. d taxons.observatoire-biodiversite-auvergne-rhone-alpes.com -d taxhub.observatoire-biodiversite-auvergne-rhone-alpes.com \
    11. d taxons.observatoire-biodiversite-auvergne-rhone-alpes.eu -d taxhub.observatoire-biodiversite-auvergne-rhone-alpes.eu \
    12. d taxons.observatoire-biodiversite-auvergne-rhone-alpes.fr -d taxhub.observatoire-biodiversite-auvergne-rhone-alpes.fr \
    13. d taxons.observatoire-biodiversite-auvergne-rhone-alpes.net -d taxhub.observatoire-biodiversite-auvergne-rhone-alpes.net \
    14. d taxons.observatoire-biodiversite-auvergne-rhone-alpes.org -d taxhub.observatoire-biodiversite-auvergne-rhone-alpes.org ''
    - Email à fournir : adminsys@<domaine-sinp>
    - Répondre : A → N → 2
    - Tester ensuite la redirection auto de HTTP vers HTTPS : http://<alias>.<domaine-sinp>/ → doit rediriger vers HTTPS automatiquement
- Tester les configurations SSL :
    - https://www.ssllabs.com/ssltest/analyze.html?d=<alias>.<domaine-sinp>
    - https://www.ssllabs.com/ssltest/analyze.html?d=geonature.<domaine-sinp>
- Modifier les redirections (geonature.<domaine-sinp> → <alias>.<domaine-sinp>) pour qu'au final le fichier *geonature.conf* contienne :

```
server {
    listen 443 ssl http2; # managed by Certbot
    listen [::]:443 ssl http2; # managed by Certbot

    server_name <alias>.<domaine-sinp>;
    root /home/geonat/www/geonature/frontend/dist;

    # GeoNature Angular App
    # No cache for index.html Angular App and config/locale json files
    location ~* "^/index.html|.*\.json$" {
        expires -1;
        add_header Cache-Control "no-store";
```

```
    }
    # Favicon
    location "/favicon.ico" {
        expires 1y;
        add_header Cache-Control "public, no-transform";
    }
    # JS and CSS
    location ~* "^/[^/]+\.[0-9a-f]{20}\.(?:js|css)$" {
        expires 1y;
        add_header Cache-Control "public, immutable";
    }
    # Images
    location ~* "^/[^/]+\.[0-9a-f]{20}\.(?:gif|jpe?g|png|svg)$" {
        expires 1y;
        add_header Cache-Control "public, no-transform, immutable";
    }
    # Fonts
    location ~* "^/[^/]+\.[0-9a-f]{20}\.(?:woff2?|eot|ttf)$" {
        expires 1y;
        add_header Cache-Control "public, immutable";
    }

    # GeoNature API
    location ^~ "/api/" {
        proxy_set_header X-Forwarded-Host $host:$server_port;
        proxy_set_header X-Forwarded-Server $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;

        # WARNING: up timeout to 300s for Synthese downloading (See bug
)
        # Set timeout like Gunicorn in GeoNature config/settings.ini
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        proxy_read_timeout 300s;
        proxy_connect_timeout 75s;
        proxy_pass http://127.0.0.1:8000/;# ATTENTION : bien mettre un
slash final ! Sinon => 404
    }

    # Alias for Export module
    location "/exports/schedules" {
        alias
/home/geonat/www/geonature/backend/static/exports/schedules;
    }
    location "/exports/users" {
        alias
/home/geonat/www/geonature/backend/static/exports/usr_generated;
    }

    ssl_certificate /etc/letsencrypt/live/<alias>.<domaine-
sinp>/fullchain.pem; # managed by Certbot
```

```
    ssl_certificate_key /etc/letsencrypt/live/<alias>.<domaine-
sinp>/privkey.pem; # managed by Certbot
    include /etc/letsencrypt/options-ssl-nginx.conf; # managed by
Certbot
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot
}

server {
    listen 443 ssl http2;
    listen [::]:443 ssl http2;
    server_name geonature.<domaine-sinp>;

    ssl_certificate /etc/letsencrypt/live/<alias>.<domaine-
sinp>/fullchain.pem; # managed by Certbot
    ssl_certificate_key /etc/letsencrypt/live/<alias>.<domaine-
sinp>/privkey.pem; # managed by Certbot
    include /etc/letsencrypt/options-ssl-nginx.conf; # managed by
Certbot
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot

    return 302 https://<alias>.<domaine-sinp>$request_uri;
}

server {
    listen 80;
    listen [::]:80;
    server_name <alias>.<domaine-sinp> geonature.<domaine-sinp>;
    return 302 https://<alias>.<domaine-sinp>$request_uri;
}
```

- **Notes** : la configuration Nginx de GeoNature active la mise en cache définitive des fichiers comprenant un hash dans leur nom (JS, CSS, polices et images). Angular Cli génère des fichiers comprenant le hash de leur contenu dans leur nom. Tout nouveau build génère une nouveau hash pour les fichiers modifiés. Les fichiers peuvent donc être mis en cache définitivement à l'exception du fichier *index.html*.

Création config Nginx maintenance GeoNature

- **Notes** : le fichier de configuration *geonature_maintenance.conf* pointe vers un fichier *index.html* indiquant que GeoNature est en maintenance
- Copier la config de GeoNature : cp /etc/nginx/sites-available/geonature.conf /etc/nginx/sites-available/geonature_maintenance.conf
- Éditer le fichier : `vi /etc/nginx/sites-available/geonature_maintenance.conf`
- Modifier le fichier de config ainsi :

```
server {
    listen [::]:443 ssl http2; # managed by Certbot
    listen 443 ssl http2; # managed by Certbot
```

```
    server_name <alias>.<domaine-sinp>;
    root /home/geonat/www/geonature/frontend/src/app/maintenance;

    ssl_certificate
/etc/letsencrypt/live/<alias>.<domaine>/fullchain.pem; # managed by
Certbot
    ssl_certificate_key
/etc/letsencrypt/live/<alias>.<domaine>/privkey.pem; # managed by
Certbot
    include /etc/letsencrypt/options-ssl-nginx.conf; # managed by
Certbot
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot
}

server {
    listen 443 ssl http2;
    listen [::]:443 ssl http2;
    server_name geonature.<domaine-sinp>;

    ssl_certificate /etc/letsencrypt/live/<alias>.<domaine-
sinp>/fullchain.pem; # managed by Certbot
    ssl_certificate_key /etc/letsencrypt/live/<alias>.<domaine-
sinp>/privkey.pem; # managed by Certbot
    include /etc/letsencrypt/options-ssl-nginx.conf; # managed by
Certbot
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot

    return 302 https://<alias>.<domaine-sinp>$request_uri;
}

server {
    listen 80;
    listen [::]:80;
    server_name <alias>.<domaine-sinp> geonature.<domaine-sinp>;
    return 302 https://<alias>.<domaine-sinp>$request_uri;
}
```

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