

Configuration of nph-srep on nginx (Ubuntu 16.04)

In this examples Sculptor is installed inside the *"/sculptor"* directory and belongs to the user and group *sc*.

Set up nginx on the Server

First install it and the fast CGI wrapper (if not already installed)

```
sc@localhost$ sudo apt-get install nginx fcgiwrap
```

For security configure nginx to use the user *sc* and group *sc*:

```
sc@localhost$ sudo vim /etc/nginx/nginx.conf
user sc sc;
...
```

Configure fcgiwrap to use *sc* user and group (Ubuntu 16.04 - systemd):

```
sc@localhost$ sudo systemctl edit fcgiwrap.service
[Service]
User=sc
Group=sc
sc@localhost$ sudo service fcgiwrap restart
```

Configure fcgiwrap to use *sc* user and group (Ubuntu 14.04 - upstart):

```
sc@localhost$ sudo vi /etc/init.d/fcgiwrap
...
FCGI_USER="sc"
FCGI_GROUP="sc"
...
sc@localhost$ sudo /etc/init.d/fcgiwrap restart
```

Comment the definition of *SCRIPT_NAME*, *SCRIPT_FILENAME* and *DOCUMENT_ROOT* from */etc/nginx/fastcgi_params*.

Restart nginx:

```
sc@localhost$ sudo service nginx restart
```

Use nph-srep directly on html directory

```
sc@localhost$ cp /sculptor/bin/nph-srep /var/www/html
sc@localhost$ sudo cat /etc/nginx/sites-enabled/default
server {
    listen 80 default_server;
    listen [::]:80 default_server;

    root /var/www/html;
    index index.html index.htm;
    server_name _;
    location / {
        try_files $uri $uri/ =404;
    }

    location ~ nph-srep$ {
        gzip off;
        root /var/www/html;

        # Fastcgi socket
        fastcgi_pass unix:/var/run/fcgiwrap.socket;
```

```

# Standard fastcgi parameters
include /etc/nginx/fastcgi_params;

# Non-standard fastcgi parameter
fastcgi_param SCRIPT_FILENAME /var/www/html/nph-srep;

# $fastcgi_script_name -> ($fastcgi_script_name)($fastcgi_path_info)
fastcgi_split_path_info ^(.*/)([^\/*]*)$;

# Setup the proper absolute path to the sculptor file
fastcgi_param PATH_TRANSLATED $document_root$fastcgi_script_name$fastcgi_path_info;

# Sculptor environment variable needed by nph-srep
fastcgi_param SCULPTOR /sculptor;

# Directory where nph-srep should chdir (we add any URL sub path)
fastcgi_param SC_CHDIR $document_root$fastcgi_script_name;
}
}

```

Restart the nginx server:

```
sc@localhost$ sudo service nginx restart
```

Now if we copy helloworld.q into the /var/www/html we can use the URL:

```
http://localhost/nph-srep?helloworld.q
```

Map Sculptor extensions with a copied nph-srep

```
sc@localhost$ cp /sculptor/bin/nph-srep /var/www/html
sc@localhost$ sudo cat /etc/nginx/sites-enabled/default
```

```

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

    root /var/www/html;
    index index.html index.htm;
    server_name _;
    location / {
        try_files $uri $uri/ =404;
    }

    location ~ \.(q|sch|scj|scx)$ {
        gzip off;

        # Fastcgi socket
        fastcgi_pass unix:/var/run/fcgiwrap.socket;

        # Standard fastcgi parameters
        include /etc/nginx/fastcgi_params;

        # Non-standard fastcgi parameter
        fastcgi_param SCRIPT_FILENAME /var/www/html/nph-srep;

        # $fastcgi_script_name -> ($fastcgi_script_name)($fastcgi_path_info)
        fastcgi_split_path_info ^(.*/)([^\/*]*)$;

        # Setup the proper absolute path to the sculptor file
        fastcgi_param PATH_TRANSLATED $document_root$fastcgi_script_name$fastcgi_path_info;

        # Sculptor environment variable needed by nph-srep
        fastcgi_param SCULPTOR /sculptor;

        # Directory where nph-srep should chdir (we add any URL sub path)
        fastcgi_param SC_CHDIR $document_root$fastcgi_script_name;
    }
}

```

Restart the nginx server:

```
sc@localhost$ sudo service nginx restart
```

Now if we copy helloworld.q into the /var/www/html we can use the URL:

http://localhost/helloworld.q

Map Sculptor extensions with \$SCULPTOR/bin/nph-srep

```
sc@localhost$ sudo cat /etc/nginx/sites-enabled/default
```

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

    root /var/www/html;
    index index.html index.htm;
    server_name _;
    location / {
        try_files $uri $uri/ =404;
    }
    location ~ \.(q|sch|scj|scx)$ {
        gzip off;

        # Fastcgi socket
        fastcgi_pass unix:/var/run/fcgiwrap.socket;

        # Standard fastcgi parameters
        include /etc/nginx/fastcgi_params;

        # Non-standard fastcgi parameter
        fastcgi_param SCRIPT_FILENAME /sculptor/bin/nph-srep;

        # $fastcgi_script_name -> ($fastcgi_script_name)($fastcgi_path_info)
        fastcgi_split_path_info ^(.*\?)([^\?]*)$;

        # Setup the proper absolute path to the sculptor file
        fastcgi_param PATH_TRANSLATED $document_root$fastcgi_script_name$fastcgi_path_info;

        # Sculptor environment variable needed by nph-srep
        fastcgi_param SCULPTOR /sculptor;

        # Directory where nph-srep should chdir (we add any URL sub path)
        fastcgi_param SC_CHDIR $document_root$fastcgi_script_name;
    }
}
```

Restart the nginx server:

```
sc@localhost$ sudo service nginx restart
```

Now if we copy helloworld.q into the /var/www/html we can use the URL:

http://localhost/helloworld.q